THE PHONOLOGICAL SYSTEM OF THE BERBER
DIALECT OF AJDIR (RIF AREA OF MOROCCO)

bу

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Thesis submitted for the degree of
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ABSTRACT

The purpose of this thesis is to carry out a phonemic analysis of a specific Berber dialect so as to be able to commit spoken material from this dialect to written form. The main aim therefore was to lay the foundations for a practical orthography for synchronic pur-The dialect chosen for study is that of the investigator, namely of the village of Ajdir in the $ig^{y}z$ annayan tribal area of North Eastern Morocco. addition to the main body of lexical items based on the investigator's own experience as a native speaker, a quantity of taped material was also collected in the field and subjected to phonemic analysis in terms of the investigator's own idiolect. A description of the system was then carried out on the basis of minimal pairs. All lexical items used for the description of the sounds and for the establishment of minimal oppositions were tape-recorded and are reproduced on a cassette which accompanies the thesis.

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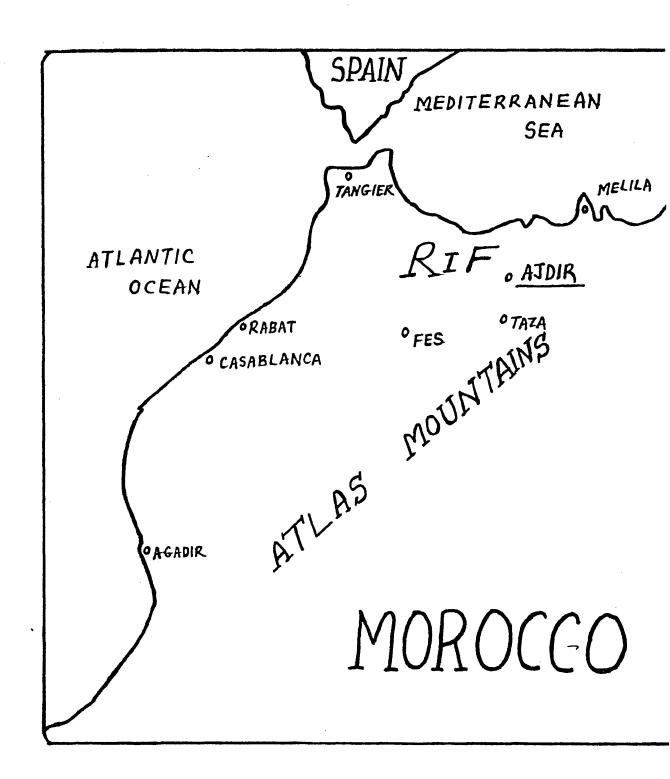
Secondly, I am indebted to Dr J.F.G. Bynon who supervised the writing of this thesis. My gratitude to him is beyond expression for his valuable help and constant encouragement and care. Without his guidance and helpful advice this study would not have been done. I owe him also much of my training in Berber linguistics. Thirdly, special thanks go to my father Haj Abdelkader Ben Abdeslam, my mother Hassani Mimouna and my cousin Ahmed Ben Rahal who have contributed their valuable time as informants.

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TO IMAZIGHEN WHEREVER THEY ARE.

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MAP OF MOROCCO

INTRODUCTION

The purpose of the present thesis is to devise a practical orthographic system for a specific dialect of Berber spoken in the Rif area of Morocco. While various systems of analysis have been devised, for instance the prosodic analysis of the Firthian School in Britain or the generative phonology currently fashionable in America, only a segmental analysis of the type described by Trubetzkoy and his successors is really capable of producing a practical orthography for committing to written form a previously unwritten language. Of course such a practical system may be to a lesser or greater extent morphophonemic, and the decision as to exactly where to draw the line between phonemics and morphophonemics is likely to be a practical one based on the actual experience of committing the language in question to writing. However, whatever the number of morphophonemic representations are finally adopted, any such system must in the first instance depend upon a traditional phonemic analysis. I have used as models in my approach two works in partithe first is by A. Martinet (La Description phonologique, avec application au parler franco-provençal d'Hauteville, Savoie, Paris, Minard, 1956), the second is by A. Cohen (The Phonemes of English, The Hague, Martinus Nijhoff, 1952). Of course I have not been able to solve

all the problems of the phonology of the dialect being studied. Three areas in particular are not treated here, areas so interdependent of each other that they cannot be resolved in isolation. These are: the syllabic structure of the word, the questions of clusters and neutralization and the problem of schwa However, although these are all important insertion. problems of the phonology of any Berber dialect, they are not vital for the question of devising a practical orthography. The main problems regarding syllable structure concern syllable centres where these are nonvocalic (syllabic fricatives, etc.) and the exact location of syllable boundaries. This latter problem is closely interconnected with the question of clusters and Finally, schwa insertion is again an neutralization. important problem to be solved, and the rules governing it must be the subject of continued research. the important point is that I have not been able to find a single minimal pair based solely on the presence or absence of a schwa and it is therefore to be assumed that schwa is not a phoneme and should not therefore be written in a practical orthography of the language.

The dialect I have studied in the present thesis is that of the village of Ajdir. Ajdir is situated in the tribal area of ig^yzənnayən (Ar. gzennaya), at a distance of approximately 100 kilometres to the northeast of the provincial capital of Taza. The inhabitants

of Ajdir belong to the iharasan clan, which is a part of the tribe of ig zannayan. Furthermore, even in a community as small as Ajdir (approximately 3,000 inhabitants) there is unlikely to be complete homogeneity between the phonemic systems of the various inhabitants. I have therefore used my own idiolect as the basis for my analysis. It would naturally be interesting to compare this with the systems employed by other sections of the community and other age groups (born in 1952, I am 28 years old). The differences however are likely to be small, and above all systematic, and therefore do not concern us in the devising of a practical orthography. The method I have used in my analysis is as follows: during the summers of 1978 and 1979 I spent two periods in the area of Ajdir making tape recordings of my friends and relatives telling and explaining folktales and other genres of oral literature, the local dialects, etc. have to a large extent transcribed the content of these tapes in my own phonemic system, and from them I have extracted the lexical items which, supplemented by my own experience as a native speaker of the dialect in question, have formed the basis of the present analysis. items were transferred to two card indexes, one of minimal pairs and one of patterns.

Naturally the ideal would have been to have found minimal pairs contrasting each consonant or vowel segment with all the other segments of the system for every

environment. This ideal situation has not in fact been realized. I have however been able to find minimal pairs for most segments for any particular point or manner of articulation where a single feature opposition (voiced - voiceless, plosive - fricative, emphatic - non-emphatic, labialized - nonlabialized and palatalized - nonpalatalized) is involved. The opposition geminate - nongeminate appears originally to have been a morphological one. However, it is now so closely interrelated with the phonemic system that I have also dealt with it in the list of minimal pairs.

CHAPTER ONE

THE PHONEMIC SYSTEM

As we shall show, in our analysis the phonemic system of the idiolect which is the subject of the present study comprises 48 phonemes. Although we have not made a study of these in terms of manner of articulation or of acoustic features, nor attempted to describe their allophonic variants, we have given a brief description of each to allow them to be identified.

The system comprises six vowels:

1. A close front vowel, which is represented in our system by the symbol \underline{i} . This sound is found in such words as:

izan : 'flies',

<u>aziri</u>: 'moonlight',

ari : 'alfa';

 A mid front vowel which we represent by means of the sign e. This segment exists in such words as:

eriz : 'embers',

de<u>ža</u> : 'dreams',

a∂be : 'pigeon';

3. A short open vowel, represented by the sign \underline{a} . We find this vowel in, for instance, the following words:

<u>aγi</u> : 'buttermilk',

mani : 'where';

fa : 'to yawn';

4. At long open vowel, represented by the sign $\underline{\alpha}$, which occurs in such words as:

an : 'flour',

θasγαθ : 'share',

∂α : 'leg';

5. A mid back vowel, represented by the symbol o, which is found in such words as:

oθan : 'orchard',

toha : 'man's nickname',

aqso : 'peel';

6. A close back vowel, represented by the sign \underline{u} . This sound is found in, for example, the following words:

uma : 'my brother',

arumi : 'a Christian, a European',

furu : 'string'.

Besides the vowels, there are two semi-vowels:

7. A front semi-vowel, represented by \underline{y} . We find this segment non-geminate in, for instance:

yiss : 'horse',

∂aya : 'that's all',

niy : 'to mount a horse',

and geminate in:

ayya : 'black woman servant; female slave',

zziyy : 'to milk a cow, a goat, etc...', etc.

Non-geminate y occurs in all positions but, whereas geminate yy is found in intervocalic and syllable-final positions, we have not been able to find any example with yy in initial position.

8. A back semi-vowel, represented by the sign \underline{w} . It occurs non-geminate in, for example, the following words:

wami : 'when',

waqila : 'perhaps',

awaţani : 'a nationalist',

<u>aqawqaw</u>: 'a person who stutters in his speech';

and geminate in:

awwam : 'alfa grass'.

Non-geminate \underline{w} exists in all positions, whereas geminate \underline{ww} seems to occur in intervocalic position only.

In addition to these vowels and semi-vowels, we have identified 42 consonants in the system of Ajdir:

9. A voiceless bilabial plosive, represented by the sign p. This is found non-geminate in such words as:

paxita : 'masturbation',

aspanyu : 'spaniard',

spadina : 'tennis shoes',

paspo : 'passport';

and geminate in, for example:

şappa : 'hoe',

pappa : 'bread (nursery language)',

puppuḥ : 'man's nickname'.

Non-geminate p and geminate pp occur initially and intervocalically but I have not found any example of their occurrence in final position.

The sound p is also found in nicknames and animal calls as in:

punto : 'man's nickname',

prr : 'a call used to attract the attention

of cows and calves before serving

them grass or hay'.

10. A voiced bilabial plosive, represented by means of the symbol \underline{b} . This segment exists non-geminate in such words as:

baba : '(my) father',

abaqžiž : 'cockroach',

ræsbab : 'reason; justification';

and geminate in:

bba : 'to put',

qubbu : 'bucket',

kabb : 'to pour'.

11. A labiodental fricative, represented by means of the symbol \underline{f} . This sound of which there is no voiced counterpart in this system is found nongeminate in, for instance, the following examples:

fafa : 'to look for',

faq : 'to wake up',

afunas : 'ox',

žžuf : 'chest';

and geminate in:

 \underline{ffay} : 'to go out',

kuffu : 'foam',

suff : 'to wet'.

Non-geminate \underline{f} and geminate $\underline{f}\underline{f}$ occur initially, intervocalically and finally.

12. A non-emphatic voiceless dental plosive, represented by the symbol \underline{t} . This segment exists non-geminate in such words as:

tari : 'she writes',

hatita : 'pancakes',

prbit : 'room';

and geminate in:

ttα : 'to beg',

 $\underline{astattu}$: 'the name of a clan in Ajdir'. We find non-geminate \underline{t} in all positions and geminate \underline{t} initially and intervocalically, but we have not been able to find any example of it in final position.

13. A non-emphatic voiced dental plosive which we represent by means of the sign \underline{d} . This segment exists non-geminate in, for example:

dadduš : 'walk! (nursery language)',

da∈muš : 'man's nickname',

eida : 'a little worm found in water drawn

from wells and springs',

rid : 'it is not ...';

and geminate in:

ddin : 'religion',

 $\frac{\partial add \alpha \theta}{\partial add \alpha \theta}$: 'house',

badd: 'stand!, stand up!, etc.'.

Non-geminate \underline{d} and geminate \underline{dd} occur in all positions.

14. A voiceless dental fricative, represented by the symbol $\underline{\theta}$. It is found non-geminate in such words as:

 θa : 'this one (talking about a female)',

θarab : 'to roof a house',

iθri : 'star',

 $\underline{qa\theta}$: 'there he is'.

We find non-geminate θ in all positions.

Geminate $\underline{\theta}\underline{\theta}$ does not seem to occur at all in the system of this dialect.

15. A non-emphatic voiced dental fricative, which we

represent by means of the sign $\underline{\partial}$. This segment exists non-geminate in such words as:

dusid : 'she came',

∂ara : 'spring (of water)',

adan : 'intestines',

εaθ : 'yet';

and geminate in at least one word:

addan : 'brushwood'.

We find non-geminate $\underline{\partial}$ in all positions. In the only example we have found of geminate $\underline{\partial}\overline{\partial}$, it is in intervocalic position.

16. An emphatic voiceless dental plosive which we represent by means of the symbol <u>t</u>. This sound exists non-geminate in, for instance:

tuha : 'man's name',

atas : 'a lot',

<u>dit</u> : 'eye';

and geminate in:

ţţαf : 'piece',

attan : 'illness that affects the eyes',

šatt : 'what is left over after eating or

sharing out something'.

Non-geminate \underline{t} and geminate $\underline{t}\underline{t}$ are found in all positions.

17. An emphatic voiced dental plosive, represented by means of the sign \underline{d} . It is found non-geminate in, for example:

dar : 'to hurt',

ddho : 'afternoon prayer';

and geminate in, for instance:

ddaq : 'to refrain from talking to a person

because of a disagreement.

We have not been able to find any example of either non-geminate \underline{d} or geminate $\underline{d}\underline{d}$ in intervocalic and final positions.

18. An emphatic voiced dental fricative, represented by the symbol 3. This segment occurs non-geminate in such words as:

₹0 : 'to fly',

3α : 'leg',

ərqaði : 'judge',

pap : 'finger', etc.

While non-geminate $\frac{3}{2}$ occurs in all positions, we have not been able to find any example of geminate $\frac{3}{2}$.

19. A bilabial nasal which we represent in our system by means of the symbol \underline{m} . It is found nongeminate in such words as:

maša : 'but',

maγα : 'why',

 ∂ am $\alpha\theta$: 'beard (diminutive form)',

axxam : 'room';

and geminate in:

mmar : 'to show; to advise; to supervise;

to teach',

∂ammoθ : 'land; country',

zumm : 'to fast', etc.

Non-geminate \underline{m} and geminate \underline{mm} both occur in all positions.

20. An alveolar nasal, represented by means of the sign \underline{n} . This segment is found non-geminate in, for instance:

nam : 'to get used to',

nunža: 'woman's name',

mani : 'where',

aman : 'water';

and geminate in:

nniyyaθ : 'goodwill',

innas : 'he told him',

hann : 'to be clement', etc.

We find geminate \underline{n} and non-geminate $\underline{n}\underline{n}$ in initial, intervocalic and final positions.

21. A velar nasal, which we represent in our system by means of the symbol \underline{n} . It occurs non-geminate in, for example:

ηiρος : 'of sleep',

nifri : 'of the cave';

and geminate in:

 $\eta\eta i\gamma z\alpha$: 'of the river'.

Neither non-geminate $\underline{\eta}$ nor geminate $\underline{\eta}\underline{\eta}$ appear to occur in intervocalic or final positions.

22. A labialized velar nasal, which we represent in this system by means of the symbol \underline{n}^{W} . This segment is found non-geminate in, for example:

n^wa: 'my brother',

 $a_{\eta}^{W}a$: 'Oh my brother!';

and geminate in:

 $\underline{\eta\eta^W}i\gamma$: 'I am tired of sitting; I am hot and restless because of lack of

action',

inn^wa : 'he is tired of sitting; he is
 very hot and very restless because
 of lack of action',

nn^w : 'Be cooked!'.

Non-geminate \underline{n}^W is found initially, intervocalically but not finally. Geminate $\underline{n}\underline{n}^W$ is found in the same two positions and is also perhaps syllabic in the last example.

23. A lateral alveolar liquid, represented by the symbol $\underline{1}$. It is found non-geminate in words such as:

<u>listiqlal</u>: 'independence',

1xa@e : 'man's name',

aliman : 'Germany',

buqllal : 'a village in the Rif (ssafθ n-

buq11a1)';

and geminate in:

11if : '(my) love, (my) sweetheart',

ralla : 'madam'.

Non-geminate $\underline{1}$ occurs in all positions whereas I have found no example of geminate $\underline{11}$ in final position.

24. A rolled alveolar liquid, which we represent in this system by the sign \underline{r} . It is found nongeminate in, for example:

rumm : 'hay',

raman : 'security; peace',

araḥḥad : 'come here!',

qar : 'shut up!';

and geminate in:

rra : 'order shouted to a donkey to make

it go',

arra : 'idem',

prr : 'an animal call used to attract the

attention of cows and calves, etc. ...

before serving them grass, hay or

some other feed'.

We find non-geminate \underline{r} in all positions. All the examples we have been able to find of geminate

rr are in animal calls, other examples are:

qrr or xərr : 'a call used to chase away

cows and calves, etc.... or

prevent them from eating

something'.

25. An emphatic alveolar lateral, which we represent in the system of this dialect by means of the sign

 $\underline{1}$. It is found non-geminate in, for instance:

11ah : 'God',

allah : 'Oh God!'.

Non-geminate 1 does not seem to occur intervocalically or finally whereas there are no examples of geminate 11 finally. Geminate 11 is found especially in nursery words and in words that stem from the Arabic word 11ah meaning 'God' as, for instance:

wllah : 'by God!',

1lahinu : 'my God',

allah : 'Oh God!', etc.

26. An emphatic rolled alveolar liquid, represented by the symbol \underline{r} . It occurs non-geminate in, for example, such words as:

raz : 'hunger, famine',

araq : 'place, seat',

arumi : 'a Christian, a European', etc.

and geminate in:

tarr : 'exclamation of discontent and

displeasure'.

I have not been able to find examples of nongeminate \underline{r} in final position and of geminate $\underline{r}\underline{r}$ in initial and intervocalic positions.

27. A non-emphatic voiceless alveolar fricative, which we represent by the symbol \underline{s} . It is found nongeminate in such words as:

su : 'to drink',

∂asa : 'liver',

qas : 'to taste',

and geminate in:

ssu : 'to spread out a carpet',

θassuθ : 'blankets, carpets and mats',

shuss : 'to feel', etc.

Non-geminate \underline{s} and geminate $\underline{s}\underline{s}$ occur in all positions.

28. A non-emphatic voiced alveolar fricative, we represent by the symbol \underline{z} . It is found non-geminate, for instance, in such words as:

zawag : 'to implore',

 $zaw\alpha$: 'to insult',

∂aza : 'Taza, a provincial capital in

Northern Morocco',

inez : 'ankle';

and geminate in:

zzif : 'handkerchief',

izza : 'heartburn',

seizz : 'to express love, affection and

friendship towards a person'.

Non-geminate \underline{z} and geminate $\underline{z}\underline{z}$ occur in all positions.

29. A non-emphatic voiceless palato-alveolar fricative which we represent in our system by means of the symbol \S . This segment occurs non-geminate in, for instance, such examples as:

 $\frac{\delta}{\delta \alpha \delta}$: 'to be a partner with; to share',

išari : 'ram',

aris : 'hair (of a man); feathers';

and geminate in:

 $\frac{\mathbf{s}\mathbf{s}\alpha\mathbf{q}}{\mathbf{s}\mathbf{s}\alpha\mathbf{q}}$: 'east',

aššir : 'yogurt',

hass : 'to cut grass', etc.

Non-geminate $\frac{x}{2}$ and geminate $\frac{x}{2}$ are found in all positions.

A non-emphatic voiced palato-alveolar fricative, represented by means of the sign $\frac{z}{z}$. This sound is found non-geminate in, for example, such words as:

žarab : 'to try',

ažaθir : 'mat',

hažuž u mažuž : 'mythical people of small height';
and geminate in:

žžawi : 'incense',

ažžar : 'widower',

sižž : 'to peep', etc.

Non-geminate $\underline{\check{z}}$ and geminate $\underline{\check{z}}\check{z}$ are found in all positions.

An emphatic voiceless alveolar fricative which we represent in our system by means of the symbol <u>s</u>.

This segment is found in, for instance, such words as:

sua: 'to blow',

 $\partial a \circ \theta$: 'a verse of the Koran',

ataş : 'a lot';

and geminate in:

ssαf : 'change',

 $\frac{i \, \bar{s} \, \bar{s} \, \alpha \, \theta}{\text{the hid him; he did not betray him', etc.}}$ We find non-geminate $\, \underline{s} \,$ in all positions, whereas for geminate $\, \underline{s} \, \underline{s} \,$ we could not find any example of its occurrence in final position.

32. An emphatic voiced alveolar fricative, represented by the sign z. This sound occurs non-geminate in, for example, such words as:

ziyy
 : 'to tighten',

: 'to visit the tomb of a saint;

to kiss',

<u>izi</u> : 'gall-bladder',

raz : 'hunger';

and geminate in:

zziy : 'to milk',

izzan : 'excrement',

tazz : 'exclamation expressing discontent', etc.

Non-geminate \underline{z} and geminate $\underline{z}\underline{z}$ occur in all positions.

33. An emphatic voiceless palato-alveolar fricative, represented by the sign §. This sound is found non-geminate in such words as:

šawα : 'to consult',

ašaqo : 'axe',

ašawi? : 'old piece of cloth';

and geminate in:

\$\forall \forall \forall

uššay : 'greyhound',

mušš : 'cat', etc.

No examples of non-geminate $\frac{\mathbf{v}}{5}$ occurring in final position have been found whereas geminate $\frac{\mathbf{v}}{5}$ exists in all positions.

An emphatic voiced palato-alveolar fricative, which we represent by the sign . This sound is found

non-geminate in, for instance, such words as:

 $\frac{\mathbf{v}}{2}\mathbf{a}\mathbf{w}\alpha$: 'to copulate (said of animals)',

žar : 'to drag oneself',

θažra : 'backside';

and geminate in:

žžαf : 'ravine',

ažžα: 'neighbour', etc.

We could not find examples of non-geminate $\frac{7}{2}$ or geminate $\frac{7}{2}$ in final position.

35. A voiceless palato-alveolar affricate, which we represent by the sign $\underline{\check{c}}$. This segment occurs non-geminate in, for example, such words as:

čančana : 'tambourine',

aniči : 'shepherd',

∂amǧač : 'egg',

<u>θαγγυζ</u> : 'ass';

and geminate in:

cca : 'to press',

 $i\check{c}a\theta$: 'he pressed it'.

Non-geminate $\underline{\check{c}}$ occurs in all positions, whereas geminate $\underline{\check{c}}$ occurs initially, and intervocalically but I have found no cases of its occurrence in final position.

36. A voiced palato-alveolar affricate, which we represent in this system by means of the sign g. This

sound occurs non-geminate in, for instance, such words as:

ğayğa : 'there was',

aεiğiw : 'a filthy dirty person',

zzağ : 'to pray';

and geminate in:

ğğaz : 'to get hungry',

maǧǧa : 'a kind of bird',

arxağğ : 'vinegar', etc.

Both non-geminate $\underline{\check{g}}$ and geminate $\underline{\check{g}}\check{g}$ are found in all positions.

37. A voiceless velar plosive, which we represent by means of the symbol \underline{k} . This segment occurs nongeminate in, for instance:

kuffu : 'foam',

 $kar\alpha$: 'to read the Koran over and over and

memorise it',

muka : 'owl',

zzayak : 'from you';

and geminate in:

 $kk\alpha$: 'to get up; to wake up',

sakku : 'bisac',

sakk : 'to send', etc.

Non-geminate \underline{k} and geminate $\underline{k}\underline{k}$ occur in all positions.

38. A voiced velar plosive, which we represent by the sign \underline{g} in our system. This sound is found nongeminate in such words as:

garru : 'cigarette',

agaži : 'the act of joining the army',

zawag : 'to implore';

and geminate in:

ggα : 'to bake bread',

diggaz : 'tattooing', etc.

We find non-geminate g in all positions but, whereas geminate gg occurs initially and intervocalically we have not found any example of its occurring finally.

39. A labialized voiceless velar plosive, which we represent in our system by means of the symbol \underline{k}^{W} .

This occurs geminate in, for instance:

 $kk^{W\alpha}$: 'to insult',

∂ikk^wra : 'insulting'.

I have not been able to find any example of non-geminate $\underline{k}^{\textbf{W}}$ in the dialect of Ajdir.

40. A labialized voiced velar plosive, which we represent in this system by means of the sign g^W .

This consonant occurs non-geminate in, for instance:

g^Wa : 'to knead bread',

zug^waθ : 'to grow tall',

and geminate in:

aaaugg wač : 'mother in law'.

Non-geminate \underline{g}^W occurs initially and intervocalically, whereas I have not been able to find any example of geminate $\underline{g}\underline{g}^W$ in initial position.

41. A voiceless palatal fricative, which we represent by the sign <u>k</u>. This segment is found non-geminate in, for example:

akysum : 'meat',

sakysu : 'couscous', etc.

In all the examples of χ geminate χ that I have found, it occurs medially. Geminate χ does not seem to occur in this system.

42. A voiced palatal fricative, which we represent in this system by means of the symbol \underline{g}^{y} . This sound is found non-geminate in, for instance:

 $g^{y}_{m\alpha}$: 'to hunt',

 $ag^{y}me$: 'landmark; stones indicating the

limits of an estate;

and geminate in:

 $gg^{y}\alpha$: 'to bake bread',

 $igg^{y}\alpha$: 'field',

aggy : 'put! make!', etc.

Non-geminate g^y is found initially and intervocalically but not finally, whereas geminate gg^y occurs in all positions.

43. A voiceless uvular fricative, which we represent in this system by means of the sign \underline{x} . This sound occurs non-geminate in, for instance:

xαbus : 'man's nickname'.

xaxα : 'to feel exhausted',

sax : 'to be washed away by the rain (soil)';

and geminate in:

 $xx\alpha$? : 'to have sexual intercourse (vulgar)',

ixxan : 'excrement (pl.; vulgar, replaced by

arḥanni 'henna' in polite use)',

ixx : 'exclamation of disgust on smelling

something unpleasant, or on seeing

something outrageous', etc.

Both non-geminate \underline{x} and geminate \underline{xx} occur in all positions.

44. A voiced uvular fricative, which we represent in this system by means of the sign $\underline{\gamma}$. This consonant is found non-geminate in, for example, such words as:

 $\underline{\gamma}\underline{\alpha}$: 'to study; to read',

<u>aγi</u> : 'buttermilk',

 $\underline{ana\gamma na\gamma}$: 'a person who speaks through his

nose';

and geminate in:

 $\underline{\gamma\gamma\alpha m}$: 'to give a gift of money to the

bridegroom',

 $\frac{\partial a \gamma \gamma \alpha s \theta}{\partial a \gamma \gamma \alpha s \theta}$: 'a sheep or cow slaughtered as a sacrifice'.

Non-geminate $\underline{\gamma}$ occurs in all positions. Geminate $\underline{\gamma}\underline{\gamma}$ occurs initially and intervocalically but has not been found finally.

45. A voiceless uvular plosive, represented in this system by means of the sign <u>q</u>. This segment is found non-geminate in such words as:

qabu : 'walking stick',

aqa@as : 'pair of wool-cards',

ğssaq : 'glue';

and geminate in, for example:

qqu : 'to have sexual intercourse (vulgar)',

qaqqa : 'candy (nursery language)'.

While non-geminate q is found in all positions, I have not been able to find any example of geminate qq in final position.

At least one labialized uvular exists in the dialect of Ajdir which we represent by the sign $\underline{\gamma}^{W}$. I have only found one word containing this sound in this system, namely:

∂aγ^Wggat : 'woman's belt'.

I have not been able to find any example of its geminate counterpart $\frac{\star \gamma \gamma^W}{}$,

nor of $\underline{*q}^{W}$, $\underline{*qq}^{W}$, $\underline{*x}^{W}$ and $\underline{*xx}^{W}$.

46. A voiceless pharyngal fricative, which we represent in this system by the symbol \underline{h} . This sound is found non-geminate in, for example:

hawer : 'be careful with; take care of',

wahit : 'one',

irah : 'he went; he left';

and geminate in:

hhan : 'to cover; to protect as for instance

a bird protecting its offspring

with its wings',

ihhad : 'he hid'.

While non-geminate \underline{h} occurs in all positions, I have not been able to find any example of geminate \underline{h} , in final position.

47. A voiced pharyngal fricative, represented here by the sign $\underline{\varepsilon}$. We find this segment non-geminate in such words as:

εara : 'to uncover',

aεawir : 'a famous battle during the Rifian War',

 $\underline{\mathsf{qa}}$: 'at all'.

I have not been able to find any example of geminate $\epsilon\epsilon$ in any position.

48. A voice d glottal fricative, represented in this system by \underline{h} . It is found non-geminate in, for instance:

haž : 'to rage',

ahakus : 'one shoe'.

Geminate $\underline{h}\underline{h}$ does not appear to occur in the dialect of Ajdir.

CHAPTER TWO

THE VOWEL SYSTEM

As we have said, the system of Ajdir has six vowel phonemes namely: /i/; /e/; /a/; /a/; /o/ and /u/.

The phonological status of /i/ in relation to the other vowel phonemes can be shown from the following oppositions:

$1.1 /i / \neq /e/$

/ia(a)/ : 'nowadays',

/ea/ : 'wear!'.

 $/(\partial as)ri\theta/ : 'bride',$

 $/(\partial af) \operatorname{re}\theta/$: 'skin on surface of milk'.

/si/ : 'title given to the notables of

a tribe',

/se/ : 'go!'.

$1.2 /i/ \neq /a/$

/iri/ : 'neck',

/ari/ : 'alfa'.

/amin/ : 'amen',

/aman/ : 'water'.

/mani/ : 'where',

/mana/ : 'what'.

1.3. $/i/ \neq /\alpha/$

/inu/ : 'mine',

/ α nu/ : 'well (of water)'.

/dira/ : 'writing',

/aara/ : 'she gave back'.

/xzi/ : 'to curse Satan',

/xzα/ : 'to look'.

1.4. $/i/ \neq /o/$

 $/i\theta(ran)/$: 'stars',

 $/o\theta(an)/$: 'orchards'.

/ssif/ : 'summer',

/ssof/ : 'to step over'.

/izi/ : 'gall-bladder',

/izo/ : 'he visited the tomb of a saint.

1.5. $/i/ \neq /u/$

/irinu/ : 'my neck',

/urinu/ : 'my heart'.

/urif/ : 'kebab dish',

/uruf/ : 'divorce'.

/iri/ : 'neck',

/iru/ : 'he wept'.

The phonemic status of /e/ in relation to the other vowels can be determined from the following oppositions:

2.1. $/e/ \neq /i/$

Refer to 1.1. above.

2.2. $/e/ \neq /a/$

/eri(ž)/ : 'embers',

/ari(f)/ : 'the Rif, a Berber speaking area

of Northern Morocco'.

 $/(\partial a) se\theta$: 'hand quern',

 $/(\partial a k^y) sa\theta / : 'downhill'.$

/se/ : 'go!',

/(f)sa/ : 'to spread in the sun to dry'.

2.3. $/e/ \neq /\alpha/$

/ssea/ : 'to help a person dress',

 $/\sin \alpha \theta$: 'to swallow'.

/(a)ze/ : 'name of a medicinal plant',

 $/(i\gamma)z\alpha/$: 'river'.

$2.4. /e/ \neq /o/$

/aaḥfeθ/ : 'boys' game',

 $/\partial ahfo\theta/$: 'hole in the ground (diminutive

form)'.

/(as)be/ : 'long robe with sleeves worn

by men and women',

/(ah)bo/ : 'hole in the ground'.

$2.5. /e/ \neq /u/$

 $/\operatorname{eri}(\overset{\mathbf{Y}}{\mathbf{Z}})/: 'embers',$

/uri(f)/ : 'Kebab dish'.

/seθ/ : 'go! (plural)',

/suθ/ : 'drink! (plural)'.

/aze/ : 'name of a medicinal plant',

/azu/ : 'to skin a sheep, a rabbit, etc.'.

The phonological status of the vowel /a/ is witnessed by the following oppositions:

3.1. $/a/ \neq /i/$

Refer to 1.2. above.

3.2. $/a/ \neq /e/$

Refer to 2.2. above.

3.3. $/a/ \neq /\alpha/$

/anu/ : 'well (of water)',

/αnu/ : 'add'.

/daya/ : 'that's all',

/∂αya/ : 'irrigation ditch'.

 $/\gamma a/$: 'towards',

 $/\gamma\alpha/$: 'to study; to read'.

$3.4. /a/ \neq /o/$

 $/a\theta (mun) / : 'haystack',$

 $/o\theta(an)/$: 'orchard'.

/azqqo/ : 'olive tree',

/(3)azqqa/ : 'roof'.

3.5. $/a/ \neq /u/$

/arinu/ : 'my alfa',

/urinu/ : 'my heart'.

/daza/ : 'Taza, a provincial capital in

Northern Morocco',

/auza/ : 'she skinned a sheep, a rabbit,

etc. ...'.

/ssa/ : 'this way',

/ssu/ : 'to spread a carpet'.

4. The phonological status of the vowel $/\alpha/$ in relation to the other vowels can be established on the basis of the following oppositions:

$4.1. /\alpha/ \neq /i/$

Refer to 1.3. above.

4.2. $/\alpha / \neq /e/$

See 2.3. above.

4.3. $/\alpha / \neq /a /$

See 3.3. above.

4.4. $/\alpha / \neq /o/$

/ssaf/ : 'change',

/ssof/ : 'to step over'.

/sso/ : 'wall',

 $/ss\alpha/$: 'to hide a person; to keep a

secret'.

4.5. $/\alpha / \neq /u /$

/ar/ : 'to vomit',

/ur/ : 'heart'.

 $/zz\alpha\theta/$: 'see him',

 $/zzu\theta/$: 'plant it'.

/zzα/ : 'to see',

/zzu/ : 'to plant'.

5. The phonemic status of /o/ in relation to the other vowels can be shown from the following oppositions:

5.1. /o/ # /i/

Refer to the opposition in 1.4. above.

$5.2. /o/ \neq /e/$

See 2.4. above.

5.3. $/o/ \neq /a/$

See 3.4. above.

5.4. $/o/ \neq /\alpha/$

Refer to 4.4. above.

5.5. $/o/ \neq /u/$

/sso(f)/ : 'to step over',

/ssu(3)/ : 'to blow'.

/qqo/ : 'to dry up',

/qqu/ : 'to copulate'.

6. The phonological status of the vowel /u/ in relation to the other vowels is determined from the following oppositions:

6.1. $/u/ \neq /i/$

Refer to 1.5. above.

 $6.2. /u / \neq /e/$

See the opposition in 2.5. above.

6.3. $/u/ \neq /a/$

See 3.5. above.

6.4. $/u/ \neq /\alpha/$

Refer to 4.5. above.

6.5. $/u/ \neq /o/$

Refer to 5.5. above.

CHAPTER THREE

THE CONSONANTAL SYSTEM

A. The semi-vowels

As we have said, this system has a front semi-vowel /y/ and a back semi-vowel /w/.

7. /y/ The phonological opposition between non-geminate /y/ and geminate /yy/ is shown by the existence of such pairs as:

 $/y/ \neq /yy/$

/daya/ : 'that's all',

/aayya/ : 'black woman servant;

female slave'.

/aya/ : 'Oh!' (when calling a person);

aya Eri! 'Oh Ali!',

/ayya/ : 'exclamation meaning: "look

what you have done", or simply

"go away".

The phonological status of the phoneme /y/ in relation to the semi-vowel /w/ can be seen from the following oppositions:

/y/ # /w/

/ya(k)/ : 'exclamation meaning "remember

this, I will never forget it

myself!"',

/wa(h)/ : 'yes'.

/∂αya/ : 'irrigation ditch',

 $/\partial \alpha wa/$: 'sons of'.

/aḥray/ : 'milled wheat, barley or maize',

/aḥraw/ : 'buttermilk mixed with wheat,

barley or maize couscous'.

/yy/ ≠ /ww/

/ayya(w)/ : 'term used by a person's

maternal relatives to refer

to him and his brothers',

/awwa(m)/ : 'alfa grass'.

$/y/ \neq /i/$ and $/w/ \neq /u/$

Concerning the opposition between semi-vowel /y/ and vowel /i/ and between semi-vowel /w/ and vowel /u/, I have not been able to find any minimal pair in which /y/ contrasts phonemically with /i/ or /w/ with /u/. Nevertheless, that does not prove in any way that /y/ is not phonemically different from /i/ and /w/ from /u/. As a matter of fact, Dr J. Bynon (1978, pp. 294-5) proposes to look for contrast between vowel and semivowel in a different position:

'Another position in which vowel and semivowel may contrast is when a sequence vowel-semivowel or semivowel-vowel occurs medially between consonants. In this environment there is a pertinent opposition between /iy/ and /yi/, /iw/ and /yu/, /uw/ and /wu/, /uy/ and /wi/.

As for the opposition between /iy/ and /yi/, /iw/ and /yu/, /uw/ and /wu/, I have not been able to find any example in this system to prove their existence. However, for the opposition between /wi/ and /uy/, I managed to find the following pair:

/zwi/ : 'to sort bad grains from wheat,
barley and maize',

/zuy/ : 'a kind of medicinal plant
that grows wild'.

If there is no opposition in this pair between /w/
and /u/ and between /y/ and /i/, then it means
that we can write both of these words phonemically
in the same way as in the following:



But we cannot do this simply because in that case we will not be able to know which is which.

Nevertheless, given that both words have the same environment:

therefore /wi/ must be different from /uy/ and as a consequence, the vowel /u/ must be phonemically different from the semi-vowel /w/ and /i/ different from /y/.

8. /w/ The phonemic status of the semi-vowel /w/ in relation to /y/ has been demonstrated by the opposition $/y/ \neq /w/$ above.

B. Distribution of vowels with /w/ and /y/

B.1 Initially

B.1.1. yv

/yi/ - Initially the phoneme /i/ appears to be in free variation with /yi/ as in:

/iras/ or /yiras/ : 'tongue',

/iram/ or /yiram/ : 'skin',

/iss/ or /yiss/ : 'horse',

/iraf/ or /yiraf/ : 'pig',

/isam/ or /yisam/ : 'name',

/iss/ or /yiss/ : ' horn',

/insi/ or /yinsi/ : 'porcupine',

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/izza/ or /yizza/ : 'heartburn',
     /izz/ or /yizz/ : 'one',
     /izi/ or /yizi/ : 'fly',
     /iθri/ or /yiθri/ : 'star',
     /ifri/ or /yifri/ : 'grotto',
     /ira/ or /yira/ : 'he played'.
/ye/ - The semi-vowel /y/ can be followed by
       the vowel phoneme /e/ as in:
                          : 'bee'.
     /yezi/
                          : 'wheat'
     /yeaan/
     /yea/
                          : 'he dressed'.
/ya/ - /y/ can be followed by /a/ as in the
       following examples:
     /yari/
                          : 'I am very lucky',
                          : 'exclamation meaning "re-
     /yak/
                            member this, I will
                            never forget it myself"',
     /yarbbi/
                         : 'Oh God!',
     /yazuθ/
                         : 'he skinned it'.
/ya/ - The vowel /a/ can follow the semi-vowel
       /y/ as in the examples that follow:
                          : 'it landed',
     /yasa/
                         : 'he broke something',
     /yaza/
     /yabu/
                         : 'he carried somebody or
                             something piggyback',
     /yazu/
                         : 'he looked for',
                          : 'he added;
                                        he increased
     /yanu/
                            the number or/amount; he
                            overwhelmed somebody in
```

a fight'.

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/yo/ - The phoneme /y/ can be followed by /o/
      as in:
                  : 'moon'.
    /yo/
/yu/ - /u/ can follow the semi-vowel /y/ as in:
               : '(my) brother',
    /yuma/
    /yuri/
              : 'he climbed; he went upstairs',
    /yufa/ : 'he found',
    /yu\tilde{s}\alpha/ : 'he stole'.
B.1.2. wv
/wi/ - does not occur.
/we/ - does not occur.
/wa/ - The semi-vowel /w/ can be followed by the
      phoneme /a/ as in:
    /waqila/ : 'perhaps',
    /walu/ : 'nothing',
             : 'yes',
    /wah/
    /waxxa/ : 'all right',
    /wayurisa/ : 'he did not write',
    /wayayriša/ : 'he did not study; he did not
                     read; he is not educated'.
/w\alpha/ - does not occur.
/wo/ - The vowel phoneme /o/ can follow /w/ as in:
                 : 'orchard'.
    /woθan/
/wu/ - The semi-vowel /w/ can be followed by the
      vowel phoneme /u/ as in:
```

```
: 'knife'...
/wuzzar/
B.2. Medially
B.2.1. yv
/yi/
                 :'wait for me at such and such
    / rqayid/
                    a place',
    /syayid/
                 : 'buy me',
    /mrayid/
                 : 'show me',
    /aðsayid/ : 'get close to me; become my
                    neighbour'.
/ye/
    /aðyeð/
                : 'he will wear'.
/ya/
    /adyaf/ : 'he will find',
                 : 'he will take her, he will
    /atyawi/
                    marry her',
    /ašyazu/
                 : 'he will skin you',
    /azyaw/
                 : 'big alfa basket',
                 : 'what a lucky person I am!'.
    /ayari/
/yα/
               : 'he will break something',
    /aðyœz/
    /a∂y¤f/
                 : 'he will grill',
             : 'he/it will land'.
    /a∂yαs/
/yo/ - does not occur.
```

/yu/ : 'Oh my brother!' /ayuma/ : 'he/it will swell up; he will /aðyuff/ not talk to me'. B.2.2. wv /wi/ /wawiz $\partial \gamma \theta$ / : 'name of an area in the Rif', : 'Oh my brother!' /awima/ : 'work done collectively by /awiza/ the members of a community to help one of them build a house, plough his land, etc.'. /we/ /aqwe**0**/ : 'fence or wall surrounding a house or an estate (diminutive form)'. /wa/ : 'when', /awami/ : 'speech, words'. /awar/ /wa/ : 'insult'. /azwa0/ /wo/ /awwo0/ : 'door'. /wu/ /awuma/ : 'Oh my brother!'.

```
B.3. Finally
B.3.1. yv
/yi/
    /aqayi/
               : 'here I am',
    /tasrayi/ : 'listen to what I am saying
                    to you',
    /isaqrayi/ : 'he slapped me',
    /izwarayi/ : 'he preceded me',
                 : 'show me',
    /mrayi/
                 : 'write me',
    /aryayi/
    /εawnayi/ : 'help me',
    /qabrayi/ : 'sit in front of me',
    /zzayi/ : 'from me'.
/ye/ - does not occur.
/ya/
    /aaya/
               : 'that's all',
    /aαya/
             : 'irrigation ditch',
    /amya/
                : 'like this',
    /inya/
                 : 'he mounted a horse',
    /αqiya/
                 : 'woman's name',
                 : 'a little'.
    /rayya/
/yα/
    /zyya/
               : 'to tighten',
    /syyα/
                : 'to wave',
    /γγγα/
                 : 'to change',
    /syya/
                : 'to sieve',
    /iεyα/
                  : 'play'.
```

```
/yo/
    /yo/ : 'moon',
            : 'idem'.
    /ayo/
/yu/
    /akamiyyu/ : 'van',
    /zayyu/ : 'name of a mountain and a
                   gorge on the border between
                   Gzennaya and Beni Ouriaghel
                   in the Rif',
                : 'pencil',
    /kriyu/
    /aspanyu/ : 'Spaniards'.
B.3.2. vy
/iy/
   /zziy / : 'to milk',
    /niy/ : 'to mount a horse',
    /sfiy/ : 'said of milk when it boils
                   and spills over',
    /ariy/
                 : 'climb!, go upstairs!'.
/ey/ - does not occur.
/ay/
    /atay/
             : 'tea',
               : 'the fact of climbing, going
    /aray/
                   upstairs',
    /ayay/
                : 'take this',
    /šwasway/ : 'wait!; take your time',
    /aqay/
              : 'here I am',
    /azzay/
                : 'cemented area in front of the
                   house used for sitting when
                   it is warm'.
```

```
/asfay/ : 'milk'.
/\alpha y/ - does not occur.
/oy/ - does not occur.
/uy/
                   : 'name of/medicinal plant',
     /zuyy/
     /syuy/
                   : 'to scream'.
B.3.3. wv
/wi/
     /awi/
                   : 'take!',
     /zwi/
                   : 'to sort bad grains from
                      wheat, barley, and maize'.
/we/
     /aqwe/
                 : 'fence'.
/wa/
     /iqwa/
                 : 'it is very deep',
                 : 'like this; calf',
     /amwa/
                   : 'edges',
     /∂imwa/
                   : 'sauce; gravy; after a long
     /arwa/
                      wait a rain/irrigates crops
                      and trees',
     /hwa/
                   : 'come downstairs!'.
/wa/
     /swwa/
                   : 'to draw, to take a photo',
     /sawa/
                  : 'to consult',
     /zawa/
                  : 'to copulate (said of animals)',
                   : 'fence or wall surrounding a
     /raqwa/
                      house',
     /azwa/
                   : 'root, penis (vulgar)'.
```

```
/wo/ - does not occur.
/wu/
     / zwu/
                 : 'to bleat'.
B.3.4. vw
/iw/
     /amẓiw/
                : 'a person who eats a lot;
                      ogre (mythical character of
                      Rifian folk tales)',
     /amriw/
                   : 'eyelashes'.
/ew/ - does not occur.
/aw/
     /aqawqaw/ : 'a person who stutters in his
                      speech',
     /azyaw/
                   : 'big alfa basket',
                   : 'sons, birth'.
     /araw/
/\alpha w/ - does not occur.
/ow/ - does not occur.
/uw/ - does not occur.
```

C. The Labials

The labials (including the labiodentals) of the consonantal system of the Berber dialect of Ajdir comprise: /p/, /b/ and /f/. However, it is worth mentioning that the voiced bilabial fricative β exists indeed in the inventory of the sounds of this dialect in a nursery word:

- 1

/mββa/ : 'water (nursery language)'.

9. /p/ The phonological status of this segment in relation to the other labials can be demonstrated from the following oppositions:

```
9.1. /p/ \neq /b/
/p/ \neq /b/
    /pa(ppa)/ : 'bread (nursery language)',
    /ba(bba)/ : 'shoes (nursery language)'.
    /aspa(nyu)/ : 'Spaniards',
    /asba(yru)/ : 'string'.
/pp/ # /bb/
    /(pa)ppa/ : 'bread (nursery language)',
    /(ba)bba/ : 'shoes (nursery language)'.
9.2. /p/ \neq /f/
/p/ \neq /f/
    /paxita/
                : 'masturbation',
                 : 'woman's name'.
    /faxita/
    /aspa(nyu)/ : 'Spaniards',
    /asfa/
              : 'medicine'.
/pp/ # /ff/
    /(pu)ppu(h)/ : 'man's nickname',
    /(fu)ffu/ : 'fire (nursery language)'.
```

10. /b/

Its phonemic status in relation to the other labials is witnessed by the following oppositions:

10.1. $/b/ \neq /p/$

For this opposition see 9.1. above.

10.2. $/b/ \neq /f/$

/b/ # /f/

/ba(ba)/ : '(my) father',

/fa(fa)/ : 'to look for'.

 $/b\alpha\partial/$: 'to relieve oneself',

 $/f\alpha \partial /$: 'to sweep, to clean'.

/(b)ab/ : 'owner of',

/(z)af/ : 'hair'.

/bb/ **≠** /ff/

/bba a/ : 'to relieve oneself',

/ff α ?/ : 'to sweep, to clean'.

/(bu)bbu/ : 'water (nursery language)',

/(fu)ffu/ : 'fire (nursery language)'.

11. /f/Its phonemic status in relation to the other labials can be determined on the basis of the following oppositions:

11.1. $/f/ \neq /p/$

See 9.2. above.

11.2. /f/ # /b/

Refer to 10.2. above.

D. Non-Emphatic Dental and Alveolar Plosives and Fricatives
The dental and alveolar plosives and fricatives of the
consonantal system of the Berber dialect of Ajdir comprise
the following non-emphatic phonemes:

/t/, /d/, / θ / and / θ /

For further information on these phonemes we will examine the following oppositions:

> /t/ # /d/ /t/ # /0/ /t/ # /0/ /d/ # /0/ /d/ # /0/ /0/ # /0/

12. /t/ Its phonological status in relation to the other dental and alveolar plosives and fricatives can be established on the basis of the following oppositions:

12.1. $/t/ \neq /d/$

/ti(tti)/ : 'sit down! (nursery language)',

/di(ddi)/ : (1) 'sore; wound; blood or

something that hurts and
causes pain (nursery
language)';

(2) 'a warning given to a child,
 "do not do such and such
 a thing otherwise you will
 be punished or get hurt"
 (nursery language)'.

/(hati)ta/ : 'pancakes',

/(arqaɛi)da/ : 'habit'.

/tt/ # /dd/

/ttα/ : 'to beg',

 $/dd\alpha/$: 'to live'.

/(ti)tti/ : 'sit down! (nursery language)',

/(di)ddi/ : (1) 'sore, wound, blood or

something that hurts and

causes pain (nursery

language)';

(2) 'a warning given to a child,

"do not do such and such a

thing otherwise you will be

punished or get hurt"

(nursery language)'.

12.2. $/t/ \neq /\theta/$

/qat/ : 'there she is',

 $/qa\theta/$: 'there he is'.

/qqut/ : 'make love to her',

/qqu θ / : 'make love to him'.

12.3. $/t/ \neq /a/$

/ata(y)/ : 'tea',

/ada(n)/ : 'intestines'.

/qat/ : 'there she is',

 $/(s)qa\partial/$: 'to send'.

13. /d/ The phonological status of /d/ in relation to the other dental and alveolar plosives and fricatives can be witnessed by the following

oppositions:

13.1. $/d/ \neq /t/$

Refer to the opposition $t/ \neq d$ in 12.1. above.

13.2. $/d/ \neq /\theta/$

/θar**a**b/

: 'to roof a house',

/dar**a**b/

: 'to train'.

13.3. $/d/ \neq /\partial/$

/d/ ≠ /ə/

/da(rab/ : 'to train',

/aa/

: 'here'.

/aida/

: 'worm found in water drawn

from wells',

 $/(rah) \partial i \partial a / : 'axe'.$

/dd/ + /aa/

 $/(3) add\alpha(\theta)/ : 'house',$

 $/a\partial\partial\alpha(n)/$: 'brushwood'.

14. $/\theta/$ Its phonemic status in relation to the other dental and alveolar plosives and fricatives can be demonstrated from the following oppositions:

14.1. $/\theta / \neq /t/$

See 12.2. above.

14.2. $/\theta / \neq /d/$

Refer to 13.2. above.

14.3. $/\theta / \neq /\partial /$

/θa/

: 'This one',

/aa/ : 'here'.

/qaθ/

: 'there he is',

 $/(s)qa\partial/$: 'to send'.

15. /8/ The phonological status of this phoneme in relation to the other dental and alveolar plosives and fricatives can be established on the basis of the following oppositions:

15.1. $/\partial / \neq /t/$

See 12.3. above.

15.2. $/3/ \neq /d/$

Refer to 13.3. above.

15.3. $/\partial / \neq /\theta /$

Refer to the opposition 14.3. above.

E. Emphatic Dental and Alveolar Plosives and Fricatives
The emphatic dental and alveolar plosives and fricatives
of the consonantal system of this dialect are:

$$/t/$$
, $/d/$ and $/\partial/$.

To establish the existence of these phonemes we have to take into consideration the following oppositions:

\ti\ \neq \d\

/d/ ≠ /∂/.

16. /t/ Its phonemic status in relation to the other
emphatics can be established on the basis of the
following oppositions:

16.1. $/t/ \neq /d/$

/tt/ ≠ /dd/

/tta(f)/ : 'piece',

/dd $\alpha(q)$ / : 'to refrain from talking to a

person because of a misunder-

standing'.

16.2. $/t/ \neq /3/$

 $/ ta({\it zam}) /$: 'to translate',

 $/\partial a(\partial)/$: 'finger'.

/itu(ha θ an)/ : 'clan in the Rif, sing.

tuha; man's nickname',

/iðu(ðan)/ : 'sing. ðað, finger'.

 $/(\partial \gamma)$ at/ : 'goat',

/(a)aa/ : 'finger'.

17. /d/ Its phonological status in relation to the other emphatics can be determined from the following oppositions:

17.1. $/d/ \neq /t/$

Refer to 16.1. above.

17.2. $/d/ \neq /3/$

/da(r)/ : 'to hurt, to affect',

/ða(ð)/ : 'finger'.

18. /?/ The phonemic status of this phoneme in relation to the other emphatic dental and alveolar plosives and fricatives can be witnessed by the following oppositions:

18.1. $/ \frac{1}{2} / \frac{1}{4} / \frac{1}{4} / \frac{1}{4}$

See 16.2. above.

18.2. /ð/ ≠ /d/

Refer to 17.2. above.

F. Non-emphatic Dental and Alveolar Plosives and Fricatives

vs. Emphatic Dental and Alveolar Plosives and Fricatives
In this section we are going to oppose non-emphatic dental
and alveolar plosives and fricatives to their emphatic
counterparts. The oppositions that will be investigated
are:

/t/ # /t/ /d/ # /d/ /a/ # /d/

1. /t/ # /t/

The phonemic status of the non-emphatic voiceless dental plosive in relation to its emphatic counterpart can be established on the basis of the following oppositions:

/t/ ≠ /t̞/

/tu(zin)/ : 'one of the tribes of the Rif $(\underline{a\$t\ tuzin})$ ',

/tu(rba)/ : 'religious scholars'.

/ata(y)/ : 'tea',

/aṭa(ṣ)/ : 'a lot'.

/(danqq)at/ : 'sugar powder',

/(rabt)at/ : 'potatoes'.

/tta(rix)/ : 'history',

/tta(žin)/ : 'cooking pot, stew pot'.

 $/itt(\alpha)/$: 'he begged',

/itt(aw)/ : 'he flies; he speeds up while

running or driving'.

$2. /d/ \neq /d/$

The phonological status of the non-emphatic voiced dental plosive in relation to its emphatic counterpart can be determined from the following oppositions:

/ddi(n)/ : 'religion',

/ddi(q)/ : 'lack of room'.

3. /a/ ≠ /a/

The phonemic status of the non-emphatic voiced dental plosive in relation to its emphatic counterpart can be witnessed by the following oppositions:

/da/ : 'here',

 $/\partial a(\partial)/$: 'finger'.

/adu(f)/ : 'bone marrow',

/aau/ : 'breeze'.

 $/(sq)a\partial/$: 'to send',

/(3)a3/ : 'finger'.

G. Nasals

The consonantal system of this dialect comprises the following nasals:

/m/, /n/, /
$$\eta$$
/ and / η ^W/.

To establish the existence of each of the above sounds, we will take into consideration such oppositions as:

 $/m/ \neq /n/$

 $/m/ \neq /\eta/$

 $/m/ \neq /\eta^{W}/$

 $/\eta/ \neq /\eta/$

19. /m/ The phonological status of the bilabial nasal /m/ in relation to the other nasals can be established on the basis of the following oppositions:

19.1. $/m/ \neq /n/$

 $/m/ \neq /n/$

/mass/ : 'to eat the bone',

/nəšš/ : 'me; I'.

/amu/ : 'like',

/anu/ : 'well (of water)'.

/sam/ : 'you (feminine)',

/san/ : 'to straighten up'.

/mm/ ≠ /nn/

/mmi/s)/ : 'som of',

 $/nni(\gamma)/$: 'I said'.

/imma/ : '(my) mother',

/inna/ : 'he said'.

19.2. $/m/ \neq /\eta/$

/mu $\partial r\alpha$ / : 'owner of the mountain',

/ $\eta u \partial r \alpha$ / : 'of the mountain'.

19.3. $/m/ \neq /n^{W}/$

/man/ : 'which',

 $/\eta^{W}$ an/ : 'they are cooked'.

/ama(n)/ : 'water',

/anwa/ : 'Oh my brother!'.

/(a)m/ : 'like',

 $/(3)\eta^{W}/$: 'be cooked'.

20. /n/ The phonological status of the alveolar nasal in relation to the other nasals can be established on the basis of the following oppositions:

20.1. $/n/ \neq /m/$

Refer to 19.1. above.

20.2. $/n/ \neq /n/$

/num $\gamma \alpha$ / : 'to grow older',

/ $\eta um \gamma \alpha$ / : 'of the notable of the tribe'.

20.3. $/n/ \neq /\eta^{W}/$

 $/n/ \neq /n^{W}/$

/nam/ : 'to get used to',

 $/\eta^{W}$ am/ : 'your brother (addressing a

female)'.

/ana(mi)/ : 'getting used to ',

/anwa/ : 'Oh my brother!'.

 $/(\tilde{z} \cdot a) n/$: 'sleep!',

 $/(a)\eta^{W}/$: 'be cooked!'.

 $/nn/ \neq /nn^{W}/$

/nniγ/ : 'I said',

 $/\eta\eta^Wi\gamma/$: 'I am tired of sitting; I am

very hot and very restless

because of lack of action

(lit. I am cooked)'.

/inna/ : 'he said',

 $/i\eta\eta^{W}a/$: 'he is tired of sitting, he

is very hot and very restless

because of lack of action'.

 $\frac{21. /\eta}{}$ Its phonemic status in relation to the other nasals is witnessed by the following oppositions:

 $21.1/\eta / \neq /m/$

See 19.2. above.

21.2. $/\eta/ \neq /n/$

See the opposition $/n/ \neq /\eta/$ in 20.2. above.

21.3. $/\eta / \neq /\eta^{W} /$

 $/\eta^W u(mas)/$: 'of his brother',

 $/\eta u(\partial r\alpha)/$: 'of the mountain'.

22. $/n^W/$ The phonological status of $/n^W/$ in relation to the other nasals can be determined from the following oppositions:

22.1. $/\eta^{W}/ \neq /m/$

Refer to 19.3. above.

22.2. $/\eta^{W}/ \neq /n/$

Refer to 20.3. above.

22.3. $/\eta^{W}/ \neq /\eta/$

Refer to 21.3. above.

H. Liquids

The liquids of this system comprise:

/1/, /r/, /1/ and /r/.

To establish the phonological status of the above segments we have to investigate the following oppositions:

23. /1/ The phonological status of the above phoneme in relation to the other liquids is witnessed by the following oppositions:

23.1. $/1/ \neq /r/$

$/1/ \neq /r/$

/li(stiqlal)/ : 'independence',

 $/ri(r\alpha\theta)/$: 'joking; game; playing'.

/ali(man)/ : 'Germany',

/ari(f)/ : 'the Rif, a Berber speaking

area in Northern Morocco)'.

/11/ # /rr/

/11a/ : 'no',

/rra/ : 'order shouted to a donkey

to make it go'.

$23.2. /1/ \neq /1/$

/1/ # /1/

/li(stiqlal)/ : 'independence',

/li(tah)/ : 'fight between shepherds from

different clans'.

/11/ **#** /11/

/lla(m)/ : 'letter of the alphabet',

/lla(h)/ : 'God'.

23.3. $/1/ \neq /r/$

/la(bas)/ : 'I am fine',

/ra(z)/ : 'hunger, famine'.

/ala(m)/ : 'move aside',

/ara(q)/ : 'place, seat'.

24. /r/ The phonemic status of the rolled alveolar liquid /r/ in relation to the other liquids can be witnessed by the following oppositions:

24.1. $/r/ \neq /1/$

See the opposition $/1/ \neq /r/$ in 23.1. above.

24.2. $/r/ \neq /1/$

 $/r/ \neq /1/$

/la(llas)/ : 'foot (nursery language)',

/ra(man)/ : 'peace; security'.

 $/rr/ \neq /11/$

/lla(h)/ : 'God',

/rra/ : 'order shouted to a donkey

to make it go'.

/alla(h)/ : 'Oh God!',

/arra/ : 'order shouted to a donkey

to make it go'.

24.3. $/r/ \neq /r/$

 $/ra(\S)/$: 'female owner of',

/ra(z)/: 'hunger, famine'.

/ara(mi)/ : 'until',

/ara(q)/ : 'place, seat'.

25. /1/ The phonological status of /1/ in relation to the other liquids can be shown from the following oppositions:

25.1. $/1/ \neq /1/$

Refer to 23.2. above.

25.2. $/\frac{1}{7} \neq /r/$

See the opposition $/r/ \neq /1/$ in 24.2. above.

25.3. $/1/ \neq /r/$

/la(llas)/ : 'foot (nursery language)',

/ra(q)/ : 'place, seat'.

26. /ṛ/ Its phonemic status in relation to the other liquids can be demonstrated from the following oppositions:

26.1. $/r/ \neq /1/$

Refer to 23.3. above.

26.2. $/r/ \neq /r/$

See 24.3. above.

26.3. $/r/ \neq /1/$

Look at the opposition $/1/ \neq /r/$ in 25.3. above.

In the coming section we will deal with the sibilants, both non-emphatic /s/, /z/, /š/ and /ž/, and emphatic /ṣ/, /z/, /ṣੱ/ and /ž/. We will oppose, in the first stage, non-emphatics to non-emphatics and emphatics to

emphatics, and, in the second stage, we shall oppose non-emphatics to emphatics. In the light of these oppositions, we shall determine the phonemic status of the sound segments involved.

I. Non-Emphatic Sibilants

The segments to be investigated are: /s/, /z/, /s/ and /z/. To establish the status of the above phonemes we have to consider the following oppositions:

/s/ \(\delta \) /z/ /s/ \(\delta \) /\(\delta \) \(\delta \) /\(\de

27. /s/ The phonological status of this segment in relation to the other sibilants can be witnessed by the following oppositions:

$27.1. /s/ \neq /z/$

$/s/ \neq /z/$

/sganfa/ : 'to cure, to make recover

from illness',

/zganfa/ : 'to rest'.

/su/ : 'to drink',

/zu(y)/ : 'name of a medicinal plant'.

/dasa/ : 'liver',

/∂aza/ : 'Taza, a provincial capital in

Northern Morocco'.

```
: 'he tasted',
    /yqqas/
                 : 'he is digging up the ground'.
    /yqqaz/
/ss/ \neq /zz/
    /ssa/
                 : 'this way',
   /zza(ž)/
                 : 'glass'.
                 : 'days'.
   /ussa(n)/
   /uzza(r)/
              : 'knife; iron'.
    /qass/
              : 'to cut',
    /qazz/
                 : 'animal call used to chase
                     away a dog'.
27.2. /s/ \neq /s/
/s/ # /s/
    /sas/
                 : 'to put',
    /šas/
                 : 'fill her/him a recipient
                     with water, grain, etc....'.
   /as(\alpha dun)/
                 : 'mule',
    /aš(aqo)/
               : 'axe; somebody who has a
                     big head'.
    / qas /
                 : 'to taste',
   / qaš /
                 : 'there is so and so'.
/ss/ # /ss/
    /ssa/
                 : 'this way',
    /šša/
                  : 'animal call used to order
                     a donkey to stop'.
    /ussan/
                 : 'days',
   /ussan(an)/ : 'jackals'.
    /yiss/
                 : 'horse',
    /yiss/
                  : 'horn'.
```

27.3. $/s/ \neq /z/$

/s/ # /z/

 $/sa(\theta o)/$: 'roofbeam',

 $/2a(w\alpha)/$: 'to copulate (said of animals)'.

/as(\alpha un)/ : 'mule',

/až(aluq)/ : 'corrugated iron used for

roofing'.

/(ark)as/ : 'glass',

/(arh)az/ : 'a title given to a person who

went to Mecca on pilgrimage'.

/ss/ # /zz/

/ssiy/ : 'to hand',

/žžiγ/ : 'I left something behind'.

/issu/ : 'he spread out the carpet',

/ižžu/ : 'he bought enough wheat,

barley and maize to meet the

consumption of his family

for a year'.

/yiss/ : 'horse',

/yižž/ : 'one'.

28./z/ The phonemic value of this segment in relation to the other non-emphatic sibilants can be demonstrated in the light of the following oppositions:

$28.1. /z/ \neq /s/$

Refer to $/s/ \neq /z/$ in 27.1. above.

28.2. $/z/ \neq /s/$ /z/ / /š/ : 'to insult', /zawa/ /šawa/ : 'to consult'. /(n)izan/ : 'of the flies', /(n)išan/ : 'straight'. /haz/ : 'to chase', /haš/ : 'a woollen towel-like garment that women wear on the top of their clothes'. /zz/ # /ss/ /zzaθ/ : 'in front of, in the front', /ssaθ/ : 'defend yourself!, fight!, hit!'. /izza/ : 'heartburn', /issa/ : 'he ate'. : 'pride, honour', /areazz/ /ar eašš/ : 'nest'. 28.3. $/z/ \neq /\tilde{z}/$ $/z/ \neq /z/$ /zawa/ : 'to insult', /zawα/ : 'to copulate (said of animals)'. /raza/ : 'this hunger', /raža/ : 'wait'.

/arḥaz/ : 'charm, talisman',
/arḥaž/ : 'title given to any person who
made the pilgrimage to Mecca'.

 $/zz/ \neq /zz/$

/zzi(f)/ : 'handkerchief',

/žžiγ/ : 'I left something/somebody

behind'.

/izza/ : 'heartburn',

/izza/ : 'he left something or

somebody behind'.

 $29. / \frac{4}{5}$ We can establish the phonological status of this sibilant in relation to the other sibilants on the basis of the following oppositions:

29.1. $/\frac{y}{s}/ \neq /s/$

Refer to 27.2. above.

29.2. $/s/ \neq /z/$

See 28.2. above.

29.3. $/s/ \neq /z/$

/s/ # /ž/

/ $\check{s}aw\alpha$ / : 'to consult',

/ $zaw\alpha$ / : 'to copulate (said of animals)'.

/yu $\tilde{s}\alpha$ / : 'he stole',

/yuza/ : 'he is taller than; he is

older than'.

/(a)ris/ : 'hair (of man); feathers',

/(e)riz/ : 'embers'.

/ss/ # /zz/

/ššiy/ : 'I ate',

 $/2zi\gamma/$: 'I left something behind'.

/issa/ : 'he ate',

/izza/ : 'he left something behind'.

/ss/ : 'eat!',

/žž/ : 'leave something behind!'.

30. /z/ The phonemic identity of the non-emphatic sibilant /z/ can be demonstrated from the following oppositions:

30.1. $/z/ \neq /s/$

Refer to 27.3. above.

30.2. $/z/ \neq /z/$

See the opposition $/z/ \neq /z/$ in 28.3. above.

30.3. $/\frac{y}{z}/ \neq /\frac{y}{s}/$

Refer to 29.3. above.

J. Emphatic Sibilants

The emphatic sibilants of this system are:

The oppositions to be considered in this section are as follows:

/s/ # /z/

/s/ # /s/

/s/ # /z/

/\$/ # /z/

/s/ # /z/

 $/\ddot{z}/ \neq /z/.$

31. /s/ The phonemic status of the emphatic sibilant /s/ in relation to the other emphatics can be witnessed by the following oppositions:

31.1. $/s/ \neq /z/$

/s/ # /z/

 $/su(\partial)/$: 'to blow (wind,etc.)',

/zu(mm)/: 'to fast'.

/∂asa(ysašθ)/ : 'kind of bird',

/daza(rit)/ : 'fart (diminutive form'.

/ss/ # /zz/

/ssa/: 'to hide a person; to

keep a secret',

 $/zz\alpha/$: 'to see'.

 $/iss(\alpha)/$: 'he hid a person; he kept

a secret',

/izz(an)/ : 'excrement'.

31.2. $/s/ \neq /s/$

/s/ # /\$/

/sαθογ/ : 'I swallowed',

/šαβργ/ : 'I got vaccinated'.

/asff α / : 'whistling',

 $/a\xi ff\alpha/$: 'thief'.

/ṣṣ/ ≠ /**ṣṣ**/

/ $\sin \alpha$ / : 'to hide a person; to keep

a secret',

 $/\tilde{s}\tilde{s}\alpha$: 'to fill'.

/iss $\alpha\theta$ / : 'he hid him; he did not

betray him'.

 $/i\check{s}\check{s}\alpha\theta/$: 'he filled it'.

31.3. $/s/ \neq /z/$

/\$/ # /ž/

 $/s\alpha(\gamma)/$: 'to use wood for fire',

 $/\ddot{z}\alpha(r)/$: 'to haul, to drag'.

/(arε)asα/ : 'afternoon prayer',

 $/(r)a\dot{z}\alpha/$: 'good deed'.

/ss/ # /zz/

/ssaf/ : 'change',

 $/\ddot{z}\dot{z}_{\alpha}f/$: 'ravine'.

32. /z/ To determine the phonological status of this segment in relation to the other emphatics, we have to investigate the following oppositions:

32.1. $/z/ \neq /s/$

Refer to the opposition $/s/ \neq /z/$ in 31.1. above.

32.2. $/z/ \neq /s/$

/z/ ≠ /š/

/zahhα/ : 'to moan',

/ $\Sahh\alpha$ / : 'to build a dome over the

tomb of a saint'.

/izəhha/ : 'he is moaning',

 $/i \hat{s} = h h \alpha(\theta) / c$: 'he built a dome over the

tomb of a saint'.

/zzα/ : 'to see',

/ssα/ : 'to fill'.

32.3. $/z/ \neq /z/$

/z/ # /z/

/za(rif)/ : 'kind of spice',

 $/\ddot{z}a(\ddot{z}\alpha)/$: 'to drag oneself'.

/aza(rif)/ : 'kind of spice',

/aža(ž α)/ : 'the fact of dragging oneself'.

/zz/ # /zz/

 $/zz\alpha(\theta)/$: 'see him!',

 $/zz\alpha(\partial)/$: 'to make a lot of noise while

playing'.

33. /﴿/ The phonemic status of the emphatic /﴿/ in relation to the other emphatic sibilants can be witnessed by the following oppositions:

33.1. $/\$/ \ne /\$/$

Refer to 31.2. above.

33.2. $/\$/ \neq /z/$

See the opposition $/z/ \neq /s/$ in 32.2. above.

33.3. $/\$/ \neq /\/\/$

/\$/ # /\$/

 $/\S\alpha(\theta)/$: 'fill it!',

 $/z\alpha(r)/$: 'to haul, to drag'.

/ssα)/ : 'to become a Koranic teacher

at a cantonal mosque',

/ŽŽαð/ : 'to make noise while playing'.

/išš α a/ : 'he became a Koranic teacher

at a cantonal mosque',

/izzαa/ : 'he made noise while playing'.

34. /½/ Its phonological status in relation to the other emphatic sibilants can be established on the basis of the following oppositions:

34.1.
$$/\frac{2}{2}/ \neq /\frac{5}{2}$$

Refer to 31.3. above.

$$34.2. /z/ \neq /z/$$

See the opposition $/z/ \neq /\tilde{z}/$ in 32.3. above.

34.3.
$$/z/ \neq /s/$$

See 33.3. above.

K. Non-Emphatic vs. Emphatic Sibilants

The segments /s/, /z/, /ž/ and /š/ are to be investigated in relation to their emphatic counterparts: /ṣ/, /z/, /z̄/ and /š/.

$K.1. /s/ \neq /s/$

Is the sound segment /s/ a variant of /s/ or a phoneme in its own right? To answer this question we have to find examples in which /s/ contrasts with /s/.

/s/ # /ş/

 $/sa(\theta o)/$: 'roof beam',

 $/sa(f\alpha)/$: 'to travel'.

/asnna(n)/ : 'thorn',

/asnna(ž)/ : 'big basket'.

 $/asa(\partial un)/$: 'mule',

 $/asa(wa\theta)/$: 'crop threshing'.

/ssi/ : 'a title given to the notables

of a tribe; sir; master',

/ssi(f)/ : 'summer'.

/issa(s)/: 'he put',

 $/issa(\theta)/$: 'he hid him; he did not

betray him'.

Non-geminate /s/ and /s/ appear to contrast in all positions but, whereas in the case of geminate /ss/ and geminate /ss/ I could not find any example (either minimal pairs or near-minimal pairs) in which they contrast syllable-finally.

$K.2. /z/ \neq /z/$

To prove that /z/ is not a mere allophone of the phoneme /z/ but a phoneme in its own right, we have to find minimal pairs or near-minimal pairs in which /z/ and its emphatic counterpart /z/ contrast.

/z/ # /z/

/izi/ : 'mosquito',

/izi/ : 'gall-bladder'.

/zz/ *f.* /zz/

/zza(z)/ : 'glass',

/zza(g)/ : 'to pray'...

/(u)zzar/ : 'iron; knife',

/(a)zzar/ : 'sleeping'.

/(ərɛ)əzz/ : 'pride, honour',

/(tt)azz/ : 'exclamation expressing

indignation, reproach and

disgust'.

K.3. $/s/ \neq /s/$

To prove that $/\frac{s}{s}$ / is a separate phoneme from $/\frac{s}{s}$ /, we have to find examples in which $/\frac{s}{s}$ / and $/\frac{s}{s}$ / contrast.

/s/ # /s/

/amsa(n)/ : 'place, seat',

/amsa(3)/ : 'hair combing'.

/ss/ # /ss/

 $/\check{s}\check{s}\alpha(z)/$: 'to plough',

 $/\S\S\alpha(\theta)/$: 'fill it!'.

 $/i\check{s}\check{s}\alpha(z)/$: 'he ploughed',

 $/i\xi\xi\alpha(\theta)/$: 'he filled it'.

Non-geminate /s/ and /s/ do not seem to contrast initially and finally. Geminate /ss/ and geminate /ss/ contrast initially and intervocalically but I have not been able to find any example in which they contrast finally. (by this I mean that I have been unable to find minimal pairs, not that they are members of the same proneme)

$K.4. / \tilde{z}/ \neq / \tilde{z}/$

To establish the existence of $/z^\prime$ as a separate phoneme from $/z^\prime$, we have to find examples in which $/z^\prime$ and $/z^\prime$ contrast.

/ž/ # /ž/

 $/a\check{z}a(\theta ir)/: 'mat',$

/aža(mum)/ : 'yoke'.

Non-geminate $/\tilde{z}/$ and $/\tilde{z}/$ do not seem to contrast initially and finally.

L. Affricates

The dialect of Ajdir comprises two non-emphatic africates:

 $/\check{c}/$ and $/\check{g}/$

and has no emphatic $/\tilde{c}/$ and no emphatic $/\tilde{g}/$ in its consonantal system.

35. /c' The phonological status of the voiceless palatoalveolar affricate in relation to /c' can be established on the basis of the following oppositions:

/c/ # /g/

/č/ # /ğ/

/(x)ači/ : '(my) aunt',

/(až)aği/ : 'oath-taking'.

/(∂aγy)uc/ : 'ass',

/(yzz)ug/ : 'he prayed'.

/čč/ ≠ /ǧǧ/

/čča/ : 'to press',

/gga(z)/ : 'to get hungry'.

/ičča/ : 'he pressed',

/igga(z)/: 'he got hungry'.

36. /g/ Phonologically speaking non-geminate /g/ contrasts with geminate /g/:

/maga/

: 'if',

/maǧǧa/

: 'a kind of bird'.

The phonemic status of /g/ in relation to /c/ can be demonstrated from the following opposition: $/g/ \neq /c/$

Refer to the opposition $/\check{c}/\neq/\check{g}/$ above.

M. Palatals and Velars

This system comprises the following velars and palatals:

/k/, /g/, /k
$$^{\text{W}}$$
/, /g $^{\text{W}}$ /, /k $^{\text{y}}$ / and /g $^{\text{y}}$ /.

To establish the phonological status of the above segments, we have to take into consideration the following oppositions:

37. /k/ The phonological status of this phoneme in relation to the other palatals and velars can be witnessed by the following oppositions:

37.1. $/k/ \neq /g/$

$/k/ \neq /g/$

/karru/ : 'cart',

/garru/ : 'cigarette'.

/aga(ži)/ : 'to join the army',

/aka(miyyu)/ : 'van'.

<u>/kk/ ≠ /gg/</u>

/kk α / : 'to wake up, to stand up',

 $/gg\alpha/$: 'to bake bread'.

/ikka/ : 'he woke up; he stood up',

/igg α /: 'he is baking bread'.

$37.2. /k/ \neq /k^{W}/$

$/kk/ \neq /kk^{W}/$

 $/kk\alpha/$: 'to wake up; to stand up',

 $/kk^{W\alpha}/$: 'to insult'.

/ikk α / : 'he woke up, he stood up',

 $/ikk^{W}\alpha/$: 'he insulted'.

37.3. $/k/ \neq /g^{W}/$

I have not been able to find any example for this particular opposition. 37.4. $/k/ \neq /k^{y}/$

 $/k/ \neq /k^y/$

 $/ak(mm\alpha)/$: 'depression',

 $/ak^{y}(sum)/ : 'meat'.$

 $37.5. /k/ \neq /g^{y}/$

 $/kk/ \neq /gg^{y}/$

/kk α / : 'to wake up; to stand up',

 $/gg^{y}\alpha/$: 'to bake bread'.

/ikka/ : 'he woke up; he stood up',

/igg^ya/ : 'field'.

38. /g/ Its phonemic status in relation to the other velars and palatals can be demonstrated from the following oppositions:

38.1. $/g/ \neq /k/$

For this opposition refer to 37.1. above.

38.2. $/g/ \neq /k^{W}/$

 $/gg/ \neq /kk^W/$

/gga/ : 'to bake bread',

 $/kk^{W}\alpha/$: 'to insult'.

/igg α / : 'he is baking bread',

 $/ikk^{W}\alpha/$: 'he insulted'.

38.3. $/g/ \neq /g^{W}/$

 $/g/ \neq /g^{W}/$

/agaz(i)/ : 'the act of joining the army',

 $/(r)ag^{W}a\check{z}/$: 'far'.

38.4. $/g/ \neq /k^{y}/$

/g/ # /k^y/

/ag(ra)/ : 'property',

 $/ak^{y}(sum)/ : 'meat'.$

38.5. $/g/ \neq /g^{y}/$

 $/g/ \neq /g^{y}/$

/ag(ra)/ : 'property',

 $/ag^{y}(\partial i)/ : 'dog'.$

 $/gg/ \neq /gg^{y}/$

/iggα/ : 'he is baking bread',

 $/igg^{y}\alpha/$: 'field'.

 $39. /k^{W}/$ The status of this phoneme in relation to the other velars and palatals can be witnessed by the following oppositions:

39.1. $/k^{W} \neq /k/$

For this opposition refer to 37.2. above.

39.2. $/k^{W}/ \neq /g/$

See 38.2. above.

39.3. $/k^{W}/ \neq /g^{W}/$

I have not been able to find any minimal pair or near-minimal pair to establish this opposition.

39.4. $/k^{W}/ \neq /k^{y}/$

I have not been able to find any example in which $/k^{W}/$ and $/\underline{K}^{Y}/$ contrast.

39.5. $/k^{W}/ \neq /g^{y}/$

 $/kk^{W}/ \neq /gg^{Y}/$

 $/kk^{W}\alpha/$: 'to insult',

 $/gg^{y}\alpha/$: 'to bake bread'.

 $/ikk^{W}_{\alpha}/$: 'he insulted',

 $/igg^{y}\alpha/$: 'field'.

 $40./g^{W}/$ The phonological status of $/g^{W}/$ in relation to the other velars and palatals can be demonstrated from the oppositions that follow:

40.1.
$$/g^{W}/ \neq /k/$$

For this opposition refer to 37.3. above.

$$40.2. /g^{W} / \neq /g/$$

See the opposition $/g/ \neq /g^{W}/$ in 38.3. above.

40.3.
$$/g^{W}/ \neq /k^{W}/$$

See 39.3. above.

40.4.
$$/g^{W}/ \neq /\underline{k}^{y}/$$

I have not been able to find any minimal pair or near-minimal pair for this opposition.

40.5.
$$/g^{W}/ \neq /g^{Y}/$$

I have not been able to find any example in which $/g^{W}/$ contrasts with $/g^{y}/$.

 $41. / k^{y}/$ The phonological status of this segment in relation to the other palatals and velars can be established on the basis of the following oppositions:

41.1.
$$/\underline{k}^{y} / \neq /k/$$

See 37.4. above.

41.2.
$$/\underline{k}^{y}/\neq /g/$$

Refer to 38.4. above.

41.3.
$$/\underline{k}^{y}/\neq /k^{W}/$$

See the opposition $/k^{W}/ \neq /k^{y}/$ in 39.4. above.

41.4.
$$/\underline{k}^{y}/\neq /g^{w}/$$

See the opposition in 40.4. above.

41.5.
$$/ k^{y} / \neq / g^{y} /$$

$$/\underline{k}^{y}/ \neq /g^{y}/$$

 $/ak^{y}(sum)/ : 'meat',$

 $/ag^{y}(\partial i)/ : 'dog'.$

 $\frac{42. /g^{y}}{2}$ Its status in relation to the other velars and palatals can be determined from the oppositions that follow:

42.1.
$$/g^{y}/ \neq /k/$$

Refer to the opposition $/k/ \neq /g^y/$ in 37.5. above.

42.2.
$$/g^{y}/ \neq /g/$$

See the opposition in 38.5. above.

42.3.
$$/g^{y}/ \neq /k^{W}/$$

Refer to 39.5. above.

$$42.4. /g^{y} / \neq /g^{w} /$$

Consider the opposition $/g^{W}/ \neq /g^{Y}/$ in 40.5. above.

42.5.
$$/g^{y}/ \neq /k^{y}/$$

Refer to the opposition in 41.5. above.

N. Uvulars

The consonant system of this dialect has the following uvular phonemes: a voiceless fricative /x/, a voiced fricative $/\gamma/$ and a plosive /q/, which is voiceless.

To establish the phonological status of the above uvulars we would have to investigate such oppositions as:

43. /x/ Its phonological status in relation to the other uvulars can be demonstrated from the following oppositions:

43.1. $/z/ \neq /\gamma/$

$/x/ \neq /\gamma/$

/xari/ : '(my) maternal uncle',

/yari/ : 'I have'.

/axa(ðuð)/ : 'rags',

/aya(raf)/ : 'pitcher'.

/(z)ix/: 'by the way',

 $/(nn)i\gamma/$: 'I said'.

$/xx/ \neq /\gamma\gamma/$

/xuxxu/ : 'monster, ogress, bug, strange

animal (nursery language)',

/γuγγu/ : 'milk, buttermilk (nursery

language)'.

 $/ixx\alpha(a)/$: 'he had sexual intercourse',

 $/i\gamma\gamma\alpha(m)/$: 'he gave a gift of money

to the bridegroom during his

wedding ceremony'.

43.2. $/x/ \neq /q/$

$/x/ \neq /q/$

/xam/ : 'on you (feminine singular)',

/qam/ : 'there he is! (form used

when addressing a woman)'.

/axa(ri)/ : 'Oh my (maternal) uncle!',

/aqa(yi)/ : 'here I am'.

/(s)ax/ : 'to be washed away by rain

(soil)',

/(r)aq/ : 'place, seat'.

 $/xx/ \neq /qq/$

/axxam/ : 'room',

/aqqam/ : 'expression used when insul-

ting a person male or female by showing them one's middle

finger (cf. ayam "here is

for you! (to a woman)",

aγaš "idem (to a man)")'.

$44./\gamma/$

/y/ **#** /yy/

The existence of the opposition $/\gamma/\neq/\gamma\gamma/$ is shown by such pairs as:

 $/\gamma\alpha s/$: 'he has',

/ $\gamma\gamma\alpha s$ / : 'to kill a sheep or a cow;

to slaughter'.

Its phonemic status in relation to the other

uvulars can be determined on the basis of the following oppositions:

44.1. $/\gamma / \neq /q/$

<u>/</u>y/ ≠ /q/

/ $\gamma a\theta$ / : 'to help (\neq / $\gamma \alpha \theta$ /: 'read it')',

 $/qa\theta$ / : 'there he is'.

/ayaš/ : 'take this',

/aqaš/ : 'I introduce you to ...'.

/(nn)iγ/ : 'I said',

/(dd)iq/ : 'lack of room'.

44.2. $/\gamma / \neq /x/$

Refer to the opposition $/x/ \neq /\gamma/$ in 43.1. above.

45. /q/ That there is a phonological opposition between non-geminate /q/ and geminate /qq/ is shown by the existence of such pairs as:

/q/ # /qq/

 $/qa(\theta)/$: 'there he is',

/qqa(s)/: 'to taste'.

/aqam/ : 'here is',

/aqqam/ : 'expression used when insulting

somebody male or female by

showing them one's middle

finger'.

The phonemic status of this segment in relation to the other uvulars has been established by the oppositions given in 43.2. and 44.1. above. O. The Pharyngals /h/ and / ϵ / and the Glottal /h/
The consonantal system of the dialect of Ajdir has a voiceless pharyngal fricative /h/, a voiced pharyngal fricative / ϵ / and a single glottal fricative /h/ which

is voiced. To establish the existence of these phonemes we have to investigate the following oppositions:

/h/ ≠ /ε/ /h/ ≠ /h/

 $/h/ \neq /\epsilon/.$

46. /ḥ/ The phonological opposition that exists between non-geminate /ḥ/ and geminate /ḥḥ/ is demonstrated by such pairs as:

/h/ / /hh/

/ha(z)/ : 'to chase',

/hha(n)/ : 'to cover; to protect'.

/iḥa(z)/ : 'he chased',

 $/ihha(\vartheta)/$: 'he hid'.

The phonemic status of this pharyngal in relation to its voiced counterpart can be witnessed from the oppositions that follow:

46.1. /ḥ/ ≠ /ε/

/h/ ≠ /ε/

/ha(a)/ : 'to hide',

/εa(ð)/ : 'yet'.

/ihaw $\mathfrak{d}(r)$ / : 'he was careful with ...;

he took care of',

/iɛaw $\mathbf{a}(\partial)$: 'he repeated something;

he did something again'.

/rah/ : 'to go, to leave',

/ra&/ : ' to look '.

46.2. $/h/ \neq /h/$

/h/ # /h/

/ha(a)/ : 'to hide',

 $/ha(\xi)/$: 'to rage'.

/aḥa(lak)/ : 'I wish',

/aha(kus)/ : 'one'.

47. $/\epsilon/$ The phonemic status of $/\epsilon/$ in relation to its voiceless counterpart /h/ and the glottal /h/ can be determined from the oppositions that follow:

47.1. $/\epsilon/ \neq /h/$

Refer to the opposition $/h/ \neq /\epsilon/$ in 46.1. above.

47.2. $/\varepsilon/ \neq /h/$

 $/\varepsilon/ \neq /h/$

 $/\varepsilon a(\vartheta)/$: 'yet',

/ha(z)/: 'to rage',

/a ϵ a(wir)/ : 'a famous battle during the

Rif War (1921-26), during

which the Spanish army was

defeated by the men of

Abdel Krim',

/aha(kus)/ : 'one shoe'.

48. /h/ The phonological status of /h/ in relation to /h/ and / ϵ / has been established by the oppositions given in 46.2. and in 47.2. above.

P. Schwa

I have not been able to find in the system of Ajdir a single example in which schwa contrasts with any other phoneme. Therefore as far as my system is concerned schwa is not phonemic. And since nobody has produced satisfactory rules for predicting it, I will be writing it in the interim period.

CHAPTER FOUR

WORD STRESS

Unlike the situation in the English language, stress in the dialect of Ajdir does not appear to be phonemically pertinent, but to be rather a function of the syllabic structure of the word. That is to say the stress is predictable from the syllabic structure of the word and cannot therefore be phonemically pertinent.

In this Chapter I will not be discussing the question of sentence stress, but only word stress. In order to demonstrate that word stress is predictable in this dialect, I will consider all the possible syllabic structures and determine where the stress falls in each one of them. Nevertheless, I would like to point out two things: firstly, throughout this work stress has been determined on a purely auditory basis, secondly, although I have not been able to work out all the insertion rules, I have not found a single example of a minimal pair distinguished only by the presence or absence of schwa; therefore it is to be assumed that schwa is not a phoneme.

The following syllabic patterns are found (for the sake of completeness I have included monosyllabic patterns, although in their case the position of the stress is obviously predictable):

1. Pattern C

e.g. š : 'to eat',
ž : 'to leave (it)'.

Where the consonant is a plosive, a schwa is inserted either before or after it, e.g. g^W [$\mathbf{a}g^W$ or $g^W\mathbf{a}$]: 'to knead bread'. Stress falls on the consonant where this is a fricative and on the accompanying schwa when it is a plosive.

2. Pattern C:

e.g. šš : 'to eat',

žž : 'to leave (it)'.

When a plosive, a schwa is inserted before or after it, e.g. kk [akk or kka]: 'to drop by'.

Again stress falls on the consonant when fricative and on the schwa when plosive.

3. Pattern C^1C^2

A schwa appears to be always inserted between C^1 and C^2 .

e.g. naγ : 'to kill',
saγ : 'to buy',
žan : 'to sleep',
naς : 'I, me'.

Stress always falls on the schwa.

4. Pattern C:C

A schwa is always inserted after C:

e.g. qqan : 'to shut; to tie',

ddaz: 'to beat',

ddam : 'to bite',

ttəz : ' exclamation of disapproval',

ggay : 'to lick',

ddan: 'to call for prayer.

The stress falls on the schwa.

5. Pattern CC:

A schwa is always inserted between C and C:

e.g. səss : 'to feed',

badd: 'to stand',

šakk : 'you (m. sing.)'.

The stress falls on the schwa.

6. Pattern VC

e.g. ur : 'heart',

ed : 'to dress',

an : 'flour!.

The stress falls on the vowel.

7. Pattern VC:

e.g. uff : 'to swell',

ižž : 'one',

iss : 'horn'.

The stress falls on the vowel.

8. Pattern CV

e.g. su : 'to drink',

fa : 'to yawn',

γa : 'towards'.

The stress falls on the vowel.

9. Pattern C:V

e.g. ssa : 'this way',

ttu : 'to forget',

zzα : 'to see',

 $dd\alpha$: 'to live',

 $kk\alpha$: 'to wake up; to stand up'.

The stress falls on the vowel.

10. Pattern CCV

e.g. skα : 'to get drunk',

rqa : 'to meet',

nta : 'to stain'.

The stress falls on the vowel.

11. Pattern CC:V

Where C is a plosive there may be a schwa between it and C:

e.g. qamma: 'to gamble',

 $sff\alpha$: 'to whistle'.

The stress falls on the final vowel even if there is a schwa present.

12. Pattern CVC

e.g. siγ : 'to hand',

ziš : 'long time ago',

rur : 'to be born'.

The stress falls on the vowel.

13. Pattern C:VC

e.g. ššaz: 'to plough',

ddin : 'religion',

ssuq : 'souk, market'.

The stress falls on the vowel.

14. Pattern CVC:

e.g. zumm : 'to fast',

sižž: 'to peep'.

The stress falls on the vowel.

15. Pattern VCC

There always appears to be a schwa between the two consonants:

e.g. uðam : 'face',

adaf: 'to enter',

iram : animal skin'.

The stress falls on the initial vowel.

16. Pattern VC:C

A schwa appears to be always inserted between C: and C

e.g. addaγ : 'armpit',

annaγ: 'palate'.

The stress falls on the schwa.

17. Pattern VCV

e.g. aγi : 'milk',

abu : 'to carry a person piggyback',

ini : 'to say'.

Both vowels appear to be equally stressed.

18. Pattern VC:V

e.g. izza : 'heartburn',

igga : 'he is baking bread',

ažžα : 'neighbour'.

The stress appears to fall equally on the two vowels.

19. Pattern $C^1C^2C^3$

A schwa is inserted in some cases between C^1 and C^2 and in other cases between C^2 and C^3 . The choice of pattern appears to depend on the nature of the consonants,

e.g. sans : 'to spend the night',

mraš : 'to marry',

xaam : 'to work'.

The stress always falls on the schwa.

20. Pattern CC:C

A schwa is always inserted after C:

e.g. sqqar : 'to slap',

snnad: 'to lean',

sǧǧøm : 'to greet'.

The stress falls on the schwa.

21. Pattern C^1C^2C :

Schwas are always inserted before C^1 and after C^2 .

e.g. arqadd: 'height',

arbaqq: 'lice',

orhodd: 'Sunday'.

The stress appears to fall on the last schwa.

22. Pattern C:CC

e.g. ssaεθ: 'luck'.

The stress appears to fall on the schwa.

23. Pattern VCVC

e.g. ifis : 'jackal',

aγir : 'arm',

aðan : 'intestines'.

The stress appears to fall equally on both vowels.

24. Pattern VC:VC

e.g. abbis : 'breast',

aθθαn : 'brushwood',

assan : 'fingernails'.

The stress appears to fall equally on both vowels.

25. Pattern VCCV

e.g. asf α : 'medicine',

 $asy\alpha$: 'plough',

amžα : 'sickle'.

The stress appears to fall equally on both vowels.

26. Pattern VCC:V

e.g. aqmmα : 'gambler',

aqssα: 'scabhead',

azmmα : 'flute player'.

The stress appears to fall equally on both vowels.

27. Pattern CVCV

e.g. qabu : 'walking stick',

saθo : 'roofbeam',

xafi : 'on me'.

Both vowels appear to be equally stressed.

28. Pattern CVC:V

e.g. $zzu\gamma\alpha$: 'to drag, to haul'.

The stress appears to fall on the last vowel.

29. Pattern CVC:V

e.g. sakku : 'bisac',

sammu : 'cushion',

ninni : 'sleep! (nursery language)'.

The stress appears to fall on the last vowel.

30. Pattern CVC:C

e.g. $sig_{\bullet}^{W} a a$: 'to frighten'.

The stress appears to fall equally on the vowel and the schwa.

31. Pattern CCVC

e.g. $\partial so\theta$: 'verse of the Koran',

∂mit : 'bellybutton',

θγat : 'goat'.

The stress falls on the vowel.

32. Pattern C:CVC

e.g. ššmat : 'coward',

ssram : 'greetings'.

The stress falls on the vowel.

33. Pattern CC:VC

e.g. fttus : 'woman's name',

εllus : 'man's name'.

The stress falls on the vowel.

34. Pattern VCCC

e.g. awθam : 'male, son'.

The stress appears to fall equally on the vowel and the schwa.

35. Pattern VCC:C

e.g. arzzoθ: 'turban'.

The stress appears to fall equally on the vowel and the schwa.

36. Pattern $C^1C^2C^3C^4$

A schwa is always inserted between C^1 and C^2 and between C^3 and C^4 ,

e.g. raeqar : 'mind; thinking',

ramnae : 'something solid and reliable'.

Both schwas appear to be equally stressed.

37. Pattern $C: C^1C^2C^3$

A schwa is always inserted after C: and between $\mbox{\ensuremath{\text{C}}}^2$ and $\mbox{\ensuremath{\text{C}}}^3$

e.g. ssaahas : 'to make laugh ',

ssamras : 'to make marry'.

The stress appears to fall equally on both schwas.

38. Pattern $C^1C^2C^3C$:

e.g. ramqass : 'scissors'.

The stress appears to fall equally on both schwas.

39. Pattern CVCCV

e.g. aanda : 'lake',

∂amza : 'ogress'.

The stress appears to fall equally on both vowels.

40. Pattern C:VCCV

e.g. ttabra : 'table'.

The stress appears to fall on the first vowel.

41. Pattern CVCC:V

e.g. dimssi : 'fire; heat',

∂isqqa : 'shares'.

The stress falls equally on both vowels.

42. Pattern CVC:CV

e.g. dazzra : 'running'.

The stress falls equally on both vowels.

43. Pattern CCVCV

e.g. dsira : 'molars; hand querns; sandals'.

The stress appears to fall on the first vowel.

44. Pattern C:CVCV

e.g. ššwari : 'panniers'.

The stress appears to fall on the first vowel.

45. Pattern CC:VCV

e.g. hlladi : 'man's name',

qllala : 'man's nickname'.

The stress appears to fall equally on both vowels.

46. Pattern CCVC:V

e.g. arimma : 'knife and blades sharpener',

∂simma : 'cement'.

The stress appears to fall equally on both vowels.

47. Pattern $VC^1C^2C^3V$

A schwa appears to be always inserted between ${\tt C}^1$ and ${\tt C}^2$

e.g. amaqṣα : 'irrigation ditch',

amasme : 'nail'.

The stress appears to fall equally on the two vowels.

48. Pattern VCCC:V

e.g. aqnanni : 'rabbit'.

The stress appears to fall equally on the schwa and the two vowels.

49. Pattern CVCVC

e.g. mizid : 'sweet',

 $\partial az\alpha\theta$: 'figs'.

The stress appears to fall equally on both vowels.

50. Pattern C:VCVC

e.g. zzitun : 'olives, olive trees',

ssitan : 'Satan'.

Both vowels appear to be equally stressed.

51. Pattern CVC:VC

e.g. ∂ammoθ : 'land, country, homeland',

∂awwoθ : 'door'.

Both vowels appear to be equally stressed.

52. Pattern VCCVC

e.g. abrur : 'penis',

amzir : 'blacksmith'.

Both vowels appear to be equally stressed.

53. Pattern VCC:VC

e.g. abššun : 'vagina',

ahssun : 'idem'.

The stress appears to fall equally on both vowels.

54. Pattern $C^1C^2C^3VC$

A schwa is always inserted between ${\mbox{\bf C}}^1$ and ${\mbox{\bf C}}^2$.

e.g. masεuθ : 'man's name',

ra∈yub : 'defects'.

The stress appears to fall on the vowel.

55. Pattern C:CCVC

A schwa is always inserted after C:

e.g. ssanduq : 'box',

ddabriž : 'bracelet'.

The stress appears to fall equally on the schwa and the vowel.

56. Pattern CCC:VC

e.g. arběgua : 'acorn'.

The stress appears to fall on the vowel.

57. Pattern $C^1C^2C^3C^4V$

A schwa appears to be always inserted between $\ensuremath{\text{C}}^2$ and $\ensuremath{\text{C}}^3$,

e.g. rmanšα : 'saw',

sganfa : 'to rest',

zgonfa : 'to cure'.

The stress appears to fall equally on the schwa and the vowel.

58. Pattern VCVCV

e.g. aži∂α : 'eagle'.

All three vowels appear to be equally stressed.

59. Pattern VCVC:V

e.g. anuffα : 'act of hiding',

azannu : 'beetle'.

All three vowels appear to be equally stressed.

60. Pattern CVCCC

e.g. buhbar : 'life',

∂abṣac : 'onions'.

The stress appears to fall on the vowel.

61. Pattern C:VCCC

e.g. ššiybaθ : 'man's nickname'.

The stress appears to fall on the vowel.

62. Pattern $C^1VC:C^2C^3$

A schwa appears to be always inserted after C:

e.g. aammand: 'armpit',

 ∂ add ∂ $x\theta$: 'honey',

 ∂ išš ∂ š θ : 'flea'.

The stress appears to fall equally on the vowel and on the schwa.

63. Pattern CVCC:C

e.g. dayzzac : 'cutlet'.

The stress appears to fall equally on the vowel and the schwa.

64. Pattern $C^1C^2C^3C^4V$

A schwa appears to be always inserted between C^2 and C^3 ,

e.g. msarqa : 'to meet',

msəbaa : 'to leave each other'.

The stress appears to fall equally on the schwa and the vowel.

65. Pattern $VC^1C^2C^3V$

A schwa appears to be always inserted between ${\ensuremath{\text{C}}}^1$ and ${\ensuremath{\text{C}}}^2$

e.g. amanzu : 'the youngest son',

anəbau : 'summer',

asandu : 'churning of milk'.

The stress appears to fall equally on the schwa and the two vowels.

66. Pattern CCCCC

e.g. ngσγzσm : 'to twist an ankle'.

Both schwas appear to be equally stressed.

67. Pattern C:CCCC

e.g. ssansarč: 'chain, necklace'.

Both schwas appear to be equally stressed.

68. Pattern CCVCC

e.g. $\partial ris\theta$: 'saddle'. The stress falls on the vowel.

69. Pattern $C^1C^2VC:C^3$

A schwa appears to be always inserted after C:

e.g. skuss**ə**f : 'to spit',

sbuzz**ə** ε : 'to kill',

sbugg \mathbf{a}_{ϵ} : 'to stamp on wet soil and make

mud out of it'.

The stress appears to fall equally on the vowel and the schwa.

70. Pattern CCVCC:

e.g. abozatt : 'window'.

The stress appears to fall equally on the vowel and the schwa.

71. Pattern $VC^1C^2C^3C^4$

A schwa appears to be always inserted between C^1 and C^2 and between C^3 and C^4

e.g. $arahba\theta$: 'place in the market where wheat, barley, maize, etc. are sold',

arahmaθ : 'blessing',

asanqas: 'unsweetened tea'.

The stress appears to fall equally on both schwas.

72. Pattern CCCVC

e.g. maneaš : 'next year'.

The stress falls on the vowel.

73. Pattern CCCCV

e.g. armansα: 'saw'.

The stress appears to fall equally on the schwas and the vowel.

74. Pattern $VC^1C^2C^3VC^4$

A schwa appears to be always inserted between C^1 and C^2

e.g. aγaybub : 'hair',

aqəbqab : 'one slipper',

ayambub : 'face'.

The stress appears to fall on the vowels and the schwa.

75. Pattern VCCVCV

e.g. amhažα : 'refugee',

amta∂α : 'slap',

amεasα: 'companion'.

All three vowels appear to be equally stressed.

76. Pattern VCVCVC

e.g. asarig : 'lie',

axariq : 'idem'.

All three vowels appear to be equally stressed.

77. Pattern VCVC:VC

e.g. adubbiz : 'first',

aquzzie: 'backside'.

All three vowels appear to be equally stressed.

78. Pattern CVCCVC

e.g. aanqat : 'sugar powder',

∂amγαθ : 'woman, wife',

 $\partial a \epsilon s = \theta$: 'relatives; tribesmen'.

Both vowels appear to be equally stressed.

79. Pattern CVCC:VC

e.g. ∂amddiθ : 'evening; night',

disffat : 'broom',

 ∂ asbb $\alpha\theta$: ' patient woman'.

Both vowels appear to be equally stressed.

80. Pattern CCVCCV

e.g. rmihša : 'The Day of Judgement',

∂qaqra : 'frog',

∂waθra : 'begging'.

Both vowels appear to be equally stressed.

81. Pattern CCVCVC

e.g. ayazit : 'hen',

ðhažit : 'folktale',

ðẓaǧiθ : 'prayer',

msuruh : 'to reconcile'.

Both vowels appear to be equally stressed.

82. Pattern CCVC:VC

e.g. əsassit : 'cap',

3sammut : 'pillow'.

Both vowels appear to be equally stressed.

83. Pattern CCCVCV

e.g. bandidi : 'man's name',

mahžuba : 'woman's name',

masεu∂a : 'dog's name'.

The stress appears to fall equally on the schwa and the vowels.

84. Pattern CCCVC:V

e.g. baneužža: 'man's name'.

The stress appears to fall equally on the two vowels.

85. Pattern CVCVCC

e.g. aaaund : 'fat',

∂aąofθ : 'wool'.

Both vowels appear to be equally stressed.

86. Pattern CVC:VCC

e.g. ∂aqqeḥθ : 'patch',

 $\partial azz\alpha s\theta$: 'winter'.

Both vowels appear to be equally stressed.

87. Pattern CVCVCV

e.g. dukada : 'theft',

∂aya**x**a : 'plough'.

All three vowels appear to be equally stressed.

88. Pattern CVCVC:V

e.g. disumma : 'pillows'.

All three vowels appear to be equally stressed.

89. Pattern $C^{1}VC^{2}C^{3}C^{4}C^{5}$

A schwa appears to be always inserted between ${\ensuremath{\text{C}}}^3$ and ${\ensuremath{\text{C}}}^4$

e.g. $\partial aw\theta$ and : 'female',

∂aryand : 'she-camel',

afand: 'toe'.

The stress appears to fall equally on the vowel and the schwa.

90. Pattern CVCC:CC

e.g. ∂irttəsθ: 'the small finger'.

The stress appears to fall equally on the vowel and the schwa.

91. Pattern $VC^1C^2VC^3C^4$

A schwa appears to be always inserted between $\ensuremath{\text{C}}^3$ and $\ensuremath{\text{C}}^4$

e.g. anfufan : 'lips',

ansusan : 'idem',

ibriðan : 'roads'.

The stress appears to fall equally on the vowels and the schwa.

92. Pattern $VC^1C:VC^2C^3$

A schwa appears to be always inserted between ${\ensuremath{\text{C}}}^2$ and ${\ensuremath{\text{C}}}^3$

e.g. ibzziðan : 'urine',

isqqiran : 'slaps',

imzzuγan : 'ears'.

The stress appears to fall equally on the vowels and the schwa.

93. Pattern $C^1C^2VC^3C^4C^5$

e.g. axaaand : 'ring',

∂nifasθ : 'ashes',

∂γe∂and : 'scorpion'.

The stress appears to fall equally on the vowel and the schwa.

94. Pattern $C^1C^2C^3C^4VC^5$

A schwa appears to be always inserted before C^1 and between C^2 and C^3 ,

e.g. armašmaš : 'apricots',

ərməftah : 'key',

arqandir : 'oil lamp'.

The stress appears to fall equally on the schwas and the vowel.

95. Pattern CC:CCVC

e.g. bnnæεman : 'poppy flower'.

The stress appears to fall equally on the schwa and the vowel.

96. Pattern CCCCCC

e.g. ramγandaf: 'a person who never smiles.

The stress appears to fall equally on the schwas.

97. Pattern CVCCCV

e.g. ∂asǧya : 'riverbed'.

The stress appears to fall equally on both vowels.

98. Pattern VCVCVCV

e.g. aγarabu : 'ship',

iγaruba : 'ships'.

All the vowels are equally stressed.

99. Pattern VCVCCVC

e.g. abaqžiž : 'cockroach'.

The stress appears to fall equally on all the vowels.

100. Pattern CVCVCVC

e.g. halawat : 'candy',

∂amazag : 'bitter'.

All three vowels are equally stressed.

101. Pattern CVCVC:VC

e.g. aanunnat : 'cooking'.

All three vowels are equally stressed.

102. Pattern $C^{1}VC^{2}C^{3}C^{4}C^{5}C^{6}$

A schwa appears to be always inserted between ${\tt C}^2$

and C^3 and between C^4 and C^5 ,

e.g. ∂ahandašθ : 'prickly pears',

aaxaamašθ: 'big knife',

asabnašθ: 'woman's scarf'.

The stress appears to fall equally on the vowel and the schwas.

103. Pattern CVCCVCC

e.g. aaqzind : 'she-dog',

agmund : 'kiss'.

The stress appears to fall equally on all the vowels.

104. Pattern CVCC:VCC

e.g. ∂ašttufθ : 'ant',

θaεddisθ : 'stomach'.

The stress appears to fall equally on all the vowels.

105. Pattern VCCVC:VC

e.g. afqaqqaz : 'unripe figs'.

The stress appears to fall equally on all the vowels.

106. Pattern $C^1VC^2VC^3C^4C^5$ A schwa appears to be always inserted between C^3 and C^4 .

e.g. ∂arumašθ : 'Christian woman',

 $\partial a \gamma i \gamma a s \theta$: 'name of a plant',

ðarifæsθ : 'Rifian woman, Rifian Berber'.

The stress appears to fall equally on the vowels and the schwa.

107. Pattern CVCVCVCC

e.g. ∂ anuqif θ : 'small hole'.

All the vowels are equally stressed.

108. Pattern CVCCCCC

e.g. aiyazaand : 'name of a plant'.

The stress appears to fall equally on the schwas and the vowel.

109. Pattern CVCCC:CC

e.g. aaqnannase: 'rabbit'.

The stress appears to fall equally on the vowel and the schwas.

110. Pattern CVCCCC:V

e.g. dizərməmma: 'lizards'.

The stress appears to fall equally on the vowels and the schwas.

111. Pattern $C^{1}VC^{2}C^{3}C^{4}VC^{5}$

A schwa appears to be always inserted between C^2 and C^3 ,

e.g. ∂azaεbuć : 'small bag',

∂aqæsmeθ : 'chin',

ahayaoθ : 'sheepskin'.

The stress appears to fall equally on the vowels and the schwa.

112. Pattern CCVCCVC

e.g. wasway : 'in a while; slowly',

∂zizwit : 'bee'.

All vowels appear to be equally stressed.

113. Pattern VCCVCCC

e.g. imžahan : 'holy warriors'.

The stress appears to fall equally on the vowels and the schwa.

114. Pattern $VC^{1}VC^{2}VC^{3}C^{4}$

A schwa appears to be always inserted between $\ensuremath{\text{C}}^3$ and $\ensuremath{\text{C}}^4$

e.g. ifunasan : 'cows',

isarigan : 'lies',

izaθiran : 'mats'.

The stress appears to fall equally on the vowels and the schwa.

115. Pattern CVCC:VCV

e.g. muḥmmadi : 'man's name'.

All the three vowels appear to be equally stressed.

116. Pattern CVCVCCV

e.g. dizizwa : 'bees',

anufra : 'hiding; hide and seek'.

All the three vowels appear to be equally stressed.

117. Pattern CVCVCC:V

e.g. ∂abaγmma : 'kind of bug'.

The stress appears to fall equally on the three vowels.

118. Pattern CCCCVCC

e.g. arkaswiya0: 'a cloth covering a coffin'.

The stress appears to fall equally on the schwas and the yowel.

119. Pattern VCCCVCC

e.g. ixaran: 'kind of bracelets'.

The stress appears to fall equally on the vowels and the schwas.

120. Pattern CVCCVCVC

e.g. diqrabin : 'baskets',

∂imγarin : 'women',

∂in∈ašin : 'money'.

All vowels appear to be equally stressed.

121. Pattern CVCC:VCVC

e.g. diqmmumin : 'kisses',

θižmmaεin : 'words, utterances'.All vowels appear to be equally stressed.

122. Pattern CVCCVC:VC

e.g. aaqmižžat : 'shirt'.

The stress appears to fall equally on all the vowels.

123. Pattern VCCCVCVC

e.g. $i\gamma az \partial isan$: 'roofbeams; ribs'. The stress appears to fall equally on the vowels and the schwa.

124. Pattern $C^{1}VC^{2}C^{3}C^{4}VC^{5}C^{6}$

A schwa appears to be always inserted between ${\mbox{C}}^2$ and ${\mbox{C}}^3$

e.g. ∂aγanžašθ : 'spoon',

θamašmašθ : 'apricot tree',

∂aṣafṣafθ : 'eucalyptus tree'.

The stress appears to fall equally on the two vowels.

125. Pattern CVCVCVCC

e.g. $\partial asiyaf\theta$: 'summer crops'.

The stress appears to fall equally on all the vowels.

126. Pattern CVCVC:VCC

e.g. ∂amazzašθ : 'teats'...

All the vowels appear to be equally stressed.

127. Pattern CVCCVCCV

e.g. anfisra : 'small window'.

The stress appears to fall equally on all the vowels.

128. Pattern $VC^{1}VC^{2}C^{3}VC^{4}C^{5}$

A schwa appears to be always inserted between ${\ensuremath{C^4}}$ and ${\ensuremath{C^5}}$

e.g. imiγziwan : 'small worms found in the excrement of human beings',

ifadriwan : 'branches',

ibaγriwan : 'crows'.

The stress appears to fall equally on the vowels and the schwa.

129. Pattern CVCCCVCV

e.g. damazg^yida: 'mosque'.

The stress appears to fall equally on the vowels and the schwa.

130. Pattern CVCCVCCC

e.g. $\partial atsa \in \mathbf{a} \stackrel{\mathsf{Y}}{\mathfrak{S}} \theta$: 'kind of rifle'.

The stress appears to fall equally on the vowels and the schwa.

131. Pattern CVCCVC:CC

e.g. ∂afriggəsθ: 'swallow'.

The stress appears to fall equally on the vowels and the schwa.

132. Pattern VCCVCVCC

e.g. ixbαžiyan : 'spies'.

The stress appears to fall equally on the vowels and the schwa.

133. Pattern CVCVCCVC

e.g. diraswin : 'sort of a net used for carrying crops and grass'.

The stress appears to fall equally on the vowels.

134. Pattern CVCVCCCC

e.g. ∂ažašrašθ : 'kind of bird'.

The stress appears to fall equally on the vowels and the schwa.

135. Pattern CVCVCCCV

e.g. aubuharya: 'madness'.

The stress appears to fall equally on the vowels and the schwa.

136. Pattern CVCVCVCVC

e.g. ∂ibožaθin : 'windows',

∂ifunasin : 'cows',

dizitunin: 'olive trees'.

All vowels appear to be equally stressed.

137. Pattern CVCVC:VCVC

e.g. dimazzayin: 'teats'.

All the vowels appear to be equally stressed.

138. Pattern CVCVCVC:VC

e.g. dizabiyyin: 'carpets'.

The stress appears to fall equally on all the vowels.

139. Pattern $C^{1}VC^{2}C^{3}C^{4}VC^{5}VC^{6}$

A schwa appears to be always inserted between ${\mbox{C}}^2$ and ${\mbox{C}}^3$

e.g. ∂imaγriwin: 'wedding ceremonies',

ðiγamriwin: 'corners',

dimasmasin: 'apricot trees'.

All the vowels and the schwa appear to be equally stressed.

140. Pattern CVCCC:VCVC

e.g. dig^yzannayin: 'women from Gzennaya, in Northern Morocco'.

The stress appears to fall equally on the vowels and the schwa.

141. Pattern CVCCCCVCC

e.g. bu∂zawraxθ : 'man's nickname'.

The stress appears to fall equally on the vowels and the schwa.

142. Pattern CVCCCC:VCC

e.g. ∂azərməmmušθ: 'lizard'.

The stress appears to fall equally on the vowels and the schwas.

143. Pattern CVCCCVCVC

e.g. disagyawin: 'rivers'. (and disgyiwin)

The stress appears to fall equally on the vowels and the schwa.

144. Pattern CVCCCVC:VC

e.g. diasriyyin : 'small pots'.

The stress appears to fall equally on all the vowels.

145. Pattern CVCCVCVC

e.g. ∂itsuεay : 'rifles'.

The stress appears to fall equally on all the vowels.

146. Pattern VCVCVCVCC

e.g. ibuharuθan: 'lions'.

The stress appears to fall equally on the vowels and the schwa.

147. Pattern CVCCVC:VCC

e.g. ∂ aftattas θ : 'piece of meat'. All the vowels appear to be equally stressed.

148. Pattern CVCVCCVCVC

e.g. ∂išumεaθin : 'candles'.

All the vowels appear to be equally stressed.

Conclusion

From the above material it can be seen that for any given pattern the stress seems to be regular. Where only full phoneme vowels are present these would all appear to carry equal stress. Where schwas have been inserted the situation is perhaps rather more complicated, and in the absence of schwa insertion rules it is not possible to make a precise statement; however it appears abundantly clear that word stress is not phonemic in this dialect and that there is therefore no need to indicate it in the orthography.

CONCLUSION

As I stated in the introduction, the devising of a system for committing an unwritten language to writing must to some extend depend upon the experience gained from its use in practice. However, any such system must be largely Other authors: R. Basset (1897), Fr. P. Sarrionandia (1905), E. Biarnay (1917), A. Basset (1938), Renisio (1932), Fr. E. Ibáñez (1947), have committed various Rifian dialects to writing using in the process a variety of transcriptions. None of these authors however has first carried out a phonemic analysis of the type we have attempted so that their transcriptions must be considered to be to some extent at least impressionistic. Furthermore, considerations of interdialectal historical relationship, and even of historical relationship with other Berber languages, have clearly played a role in the orthographies adopted. We have ourselves tried to maintain a strictly synchronic approach which we believe to be the correct one for our present purpose.

GLOSSARY

GLOSSARY

i

ibaγriwan crows

ibuharuθan lions

ibzziaan urine

ifis jackal

ifaðriwan branches

ifunasan cows

ifri grotto

itt α he begged

iθri star

iθran stars

ittaw he flies; he speeds up while running

or driving

ituhaθan clan in the Rif

iða nowadays

imiyziwan small worms found in the excrement of

human beings

imzzuy**ə**n ears

imžahan holy warriors

imma (my) mother

ini to say

inez ankle

inna he said

innas he said to him

inu mine

he mounted a horse, a mule, etc. inya

inn^wa he is tired of sitting; he is very

hot and very restless because of lack

of action

neck iri

ira to play

iru he wept

irəf pig

animal skin irəm

he left iraḥ

horse iss

he put issas

issu he spread out the carpet

isam name

is**ə**qrayi he slapped me

izi fly

izza heartburn

išš horn

išša he ate

išari ram

i Z Z

one

ižatiran mats

ižžu he bought enough wheat, barley and

maize to meet the consumption of his

family in a year

issað he swallowed is $sa\theta$ he hid him; he did not betray him

izi gall-bladder

izzan excrement

izo he kissed; he visited the tomb of

a saint

izzuθ he planted it

 $izahh\alpha$ he moans

ižžαą he made noise while playing

iččaθ he pressed it

iğğaz he got hungry

ikka he woke up; he stood up

igga he is baking bread

 $ikk^{W}\alpha$ he insulted

 igg^{y}_{α} field

ixx exclamation of disgust on smelling

something unpleasant or on seeing

something outrageous

ixxαð he had sexual intercourse

ixarxaran kind of bracelets

iγaruba boats

iγγαm he gave a gift of money to the bridegroom

during his wedding ceremony

iγazaisan roofbeams; ribs

ihaz he chased

iḥḥaa he hid

ihawar he was careful with; he took care of

i∈awæ∂ he repeated something; he did some-

thing again

 $i \epsilon y \alpha$ to play

<u>e</u>

ea to get dressed

eðan wheat

eriž embers

a

aya oh!, used when trying to attract the

attention of a person

ayya exclamation meaning: "look what you

have done" or "go away"

ayyaw term used by a person's maternal

relatives to refer to him and his

brothers

ayari what a lucky person I am

ayo moon

awima Oh my brother!

awaṭani a nationalist

awwam alfa grass

awami when

awar speech; words

 $aw\theta$ m male

abbis breast

v v

abaqžiž cockroach

abssun vagina

abrur penis

afunas ox

atay tea

adyas he will come

adday armpit

adan intestines

aduf bone marrow

adyaf he will find

aθyαf he will grill

aθyαs he/it will land

adyaz he/it will break

adyuff he/it will swell up

aðaf to enter

aðsayid get closer to me, become my neighbour

atas a lot

attan illness that affects the eyes

aau breeze

am like

amin amen

aman water

amwa like this one; calf

amzir blacksmith

amziw a person who eats a lot; ogre (mythical

character of the Rifian folktales)

amriwan eyelashes

amtada slap (also amtadα)

amæsme nail

amanzu the youngest son; summer crops

amaqsa irrigation ditch

amεašα companion

amhaza refugee

amŽα sickle

amya like this

amsaa hair combing

amsan place; seat

anici shepherd

anami getting used to

anfufan lips

ansusan lips

anəbəu summer

ann**3**γ palate

anu well

an Wa Oh my brother!

alam clear the way! (said to a female)

ari alfa

arif The Rif, a Berber speaking area in

Northern Morocco

aris hair (of man); feathers

arinu my alfa

araḥbaθ place in the market where wheat,

barley, maize, etc. are sold

ariy climb!; go upstairs!

aryayi write me

allah Oh God!

aruf elevated area in a room used for

storage

arumi a Christian; a European

araw sons

araq place, seat

arwa sauce; rain

arahmaθ blessing

as∝∂un mule

aspanyu Spaniard

asbayru string

asfa medicine (also asfa)

asandu churning of milk

asanqas unsweetened tea

azzay cemented area in front of the house

azannu beetle

azyaw big basket

azzər run!

azqqo olive tree

ašawið piece of old cloth

asarig lie

asaqo axe

asyani he will beat

asbe long robe with sleeves worn by men

and women

 $a \circ f f \alpha$ thief

astattu name of a clan in the Rif

ažaθir mat

azaluq corrugated iron used for roofing

ažžar widower

ažagi oath taking

asffa whistling

aṣawaθ crop threshing

aṣnnaž big basket

azarif kind of spice

azzar sleep

azwα root, penis (vulgar)

azmma flute player

ažiąα eagle

ažžα neighbour

ažaža the fact of dragging oneself

ažamum yoke

akamiyyu van

agazi the act of joining the army

agra property

ak^ysum meat

ag^yme landmark; stones indicating the

limits of an estate

axaðuð rags

axxam room

axari Oh my (maternal) uncle!

axariq lie

aqayi here I am

aqam here is

aqqam expression used when insulting a male

or female by showing them one's

middle finger

aqaðaš

pair of wool cards

aqwe

fence

aq3wqaw

person who stutters in his speech

 $aqmm\alpha$

gambler

aqššα

scabhead

aγir

arm ·

aγarabu

boat

aγay

take this

ay **ə**ybub

hair

ay3 mbub

face

aha1ak

I wish

ahray

milled wheat, barley or maize

aḥraw

buttermilk mixed with wheat, barley

or maize couscous

ahbo

ho1e

ahššun

vagina

aεiğiw

filthy dirty person

aεawir

famous battle during the Rifian War

ahakus

one shoe

 $\underline{\alpha}$

 α nu

to add

 αn

flour

αr

to vomit

αqiya

woman's name

0

oθan

orchard

u

u∂**ə**m

face

ur

heart

urinu

my heart

ussan

days

uzzar

knife; iron

uššay

greyhound

<u>y</u>

yea**a**n

wheat

уeЭ

he got dressed

yezi

bee

yariθ

he gave it back

yari

What a lucky person I am!

yarbbi

Oh God!

yanu

he added; he increased the number

or the amount; he overwhelmed a

person in a fight

yasa

he/it landed

yazu he looked for

yo moon

yufa he found

yuma my brother

yuri he climbed; he went upstairs

yuša he stole

yužα he is taller

yzzuğ he prayed

yqqas he tasted

yqqaz he is digging up the ground

W

wayurisa he did not write

wayayriša he did not study; he did not read;

he is not educated

wawiz \mathbf{a} $\gamma\theta$ name of an area in the Rif

walu nothing

waxxa yes

waqila perhaps

p

puppuh man's nickname

paspo passport

paxita masturbation

b

baba

(my) father

bbα

to put

 $b\,b\alpha\,\vartheta$

to relieve oneself (also bað)

bubbu

water (nursery language)

bu2zawrax0

man's nickname

buq11a1

village north of Taza in Northern

Morocco

buhbər

1ife

bandidi

man's name

bnn**ə**eman

poppy flower

baneužža

man's name

f

fa

to yawn

fafa

to look for

faxita

woman's name

faq

to wake up

fαð

to sweep (also $ff\alpha \partial$)

furu

thread

fţţuš

woman's name

ffay

to go out

titti

sit down! (nursery language)

ttα

to beg

ttu

to forget

tuzin

name of one of the tribes of the

Rif, ast tuzin

d

diddi

- (1) sore, wound, blood or something
 that hurts and causes pain
 (nursery language);
- (2) a warning given to a child, "do not do such and such a thing otherwise you will be punished or get hurt (nursery language)'

ddin

religion

darab

to train

ddabriž

bracelet

ddəm

to bite

dd**ə**n

to call for prayer

daemuš

man's nickname

θ

 θ a this one (addressing a female)

θarab to roof a house

9

ðibožaθin windows

∂ifunasin cows

ditsuεay rifles

∂ida worm found in water drawn from wells

əimazzayin teats

∂imssi fire

ðimašmašin apricot trees

ðim**ð**γriwin wedding ceremonies

∂in∈ašin money

ðisqqα shares

∂izitunin olive trees

∂izizwa bees

∂iz**ə**rm**∂**mma lizards

ðišumεaθin candles

ðiššašθ flea

θižmmaεin words, utterances

dira writing.

∂iṛaświn sort of net used for carrying crops (pl.)

diggaz tattooing

 $\partial ig^{y}z$ annayin women from the tribe of Gzennaya in

Northern Morocco

∂iγamriwin corners

∂iqmmumin kisses

diqrabin baskets

diqasriyyin pots

dreams

∂aya that is all

dayya black woman servant; female slave

ayzzač cutlet

∂awθand female

∂awwoθ door

∂abaγmma kind of bug

aafriggasθ swallow

θafreθ skin on surface of milk

afaand toe

 ∂ add $\alpha\theta$ house

θaddaxθ armpit

aaaund fat

∂aϡofθ woo1

damazag bitter (also damαzag)

θamαθ beard (diminutive form)

θammoθ land; country; homeland

θamddiθ evening, night

ammand honey

amasmasθ apricot tree

∂amza ogress

∂anuffra hiding; "hide and seek" (game)

anunnat cooking

∂anuqifθ small hole

anda lake

annquat sugar powder (also Janqat)

θarifasθ Rifian woman; Rifian Berber

dara spring (of water)

aaryand she-camel

θarumašθ Christian woman

asa liver

θassuθ carpets, blankets and pillows

asabnašθ woman's head scarf

θasriθ bride

dasəğya river bed

 $\partial asya\theta$ share

∂aziri moonlight

daza Taza, a provincial capital in

Northern Morocco

 $\partial az \alpha \theta$ figs

azarmammušθ lizard

azqqa roof

θaz**θ**εbuč small shoulder bag

∂asiyafθ summer crops

θasoθ verse of the Koran

θaṣayṣašθ kind of bird (also θaṣayṣašθ)

∂asbbαθ patient woman

∂asafsafθ eucalyptus tree

θaγiγ**ə**šθ name of a plant

daγyuc ass

aγanžašθ

spoon

∂aγ^Wggat

woman's belt

∂aqweθ

fence or wall surrounding a house or

an estate

∂aqn**ə**nnašθ

rabbit

∂aqmmund

kiss

∂aq**∂**smeθ

chin

∂aqzind

she-dog

∂ahfeθ

boys' game

∂aḥfoθ

hole in the ground

∂aεddisθ

stomach

ahandašθ

prickly pear

дαуа

irrigation ditch

∂awa

sons of

ðαra

she gave back

∂ubuh**a**rya

madness

dukada

theft

∂wiza

work done collectively

∂waθra

begging

∂yazit

hen

abož**a**t**t**

window

∂nifæs0

ashes

∂mit

belly button

∂rimma

knife and blades sharpener

∂simma

cement

∂sira

molars; hand querns; sandals

∂sammut

pillow

∂šaššit

cap

0545510

ring

3 x a 3 σ nd3 γ e 3 σ nd

scorpion

ţ

ttabra table

ttažin cooking pot, name of a dish

tažam to translate

turba religious scholars

tuha man's nickname

ttaf piece

ttaz exclamation expressing indignation,

reproach and disgust (also !! azz)

<u>d</u>

ddiq lack of room

dar to hurt

ddaq to refrain from talking to a person

because of a misunderstanding

3

ðit eye

absač onions

ðað finger

eg leg

m

mmis son

mizið sweet

man which

mani where

mmar to show; to advise; to supervise;

to teach

magga kind of bird

maga if

 $\text{ma}\gamma\,\alpha \qquad \qquad \text{why}$

muss cat

muka ow1

muḥmmadi man's name

mrayi show me

mrayid show me

msarqa to meet

man's name

masεu∂a dog's name

mass to eat meat off the bone

mahžuba woman's name

 \underline{n}

niy to mount a horse

nniyyə0 goodwill

ninni sleep (nursery language)

nišan straight

nniy I said

nam to get used to

 $num\gamma\alpha \qquad \qquad to \ grow \ old$

nunža woman's name

nta to stain

naš I, me (also našš)

ngaγzam to twist an ankle

n**3**γ to kill

<u>η</u>

ηifri of the grotto

ηizan of the flies

 $\eta\eta\,i\gamma\,z\alpha$ of the river

 $\eta u \partial r \alpha$ of the mountain

 $\eta um\gamma\alpha$ of the notable of the tribe

 $\eta_{\underline{}}^{W}$

อก^พ be cooked! (also ฦฦพ)

and very restless because of the lack

of action

 $\eta^{W}a$ my brother

 η^{W} am of your brother η^{W} umas of his brother

1

listiqlal independence

11a no

labas I am fine

11am letter of the alphabet

r

rid it is not

rirαθ playing; game

rra order shouted to a donkey to make

it go

raman peace; security

ralla madam

raz hunger (also raz)

raza this hunger (also ṛaṇa)

raža wait (also raža)

ražα good deed

rag female owner of

rag^Waz far

raq place, seat (also raq)

rah to go; to leave (also rah)

rur

to be born

orbit

room

rabtat

potatoes

ppedre

lice

armihša

The Day of Judgement

ərməftah

key

ərməšmaš

apricots

armanša

saw

ramnae

something solid and reliable

ramyandaf

a person who never smiles

ərkas

glass

arkaswiya0

piece of cloth of very good quality

bought by the members of a community

to cover the tomb of their beloved

saint

ərxəğğ

vinegar

rayya

a little

rqa

to meet

arqayid

wait for me at such and such a place

arqa∂i

law judge

arqaeida

habit

raqwα

fence

rqəndir

oil lamp

ərhədd

Sunday

r∂h∂i∂a

axe

raeyub

defects

areass

nest

areazz

pride, honour

raeqar

mind; thinking

1

fight between shepherds from different litah clans lallaš foot, leg (nursery language) llah God my God 11ahinu ŗ place, seat ŗaq hunger (also raz) ŗaz <u>s</u> a title given to the notables of a si tribe idem ssi sižž to peep ssiγ to hand go! se go! (plural) seθ wash! se3 this way ssa roof saθo

pillow

sammu

sakku bisac

sax to be washed away by the rain (soil)

su to drink

ssu to spread out a carpet

suff to wet

suθ drink! (plural)

summ to suck

ssuq market

sbuzzae to kill

sbuggae to stamp on wet soil and make

mud out of it

ssamras to make marry

ssanduq box

snnad to lean

sans to spend the night

ssansarč chain; necklace

sakk to send

ska to get drunk

skukkaf to spit

sganfa to cure

saksu couscous

syayid buy for me!

sqaa to send

sqq**ə**r to slap

shuss to feel

seizz to express love and affection

Z

zzif handkerchief
zzitun olives, olive trees
ziš long time ago

zix by the way

zayyu name of a mountain and a gorge on

the border between Gzennaya and Beni

Ouriaghel in the Rif

zzay**a**k from you

zawa to insult

zawag to implore

zaf hair (of men)

 $zza\theta$ in front of, in the front

zza**ž** glass

zza**ğ** to pray

zuy name of a medicinal plant (also zuyy)

zug^Waθ to grow tall

zganfa to rest

zwi to sort bad grains from wheat,

barley and maize

Š

eat! (also s)

ššiyba0 man's nickname

ssitan Satan

ššiγ I ate ssa order shouted to a donkey to make it stop to consult (also šawa) šawα ššaθ defend yourself!; fight!; hit back! ššaz to plough γν SSQ to fill (also ssα) šsa š to share ššαq east ssmat coward **y**am you (fem. sing.) š**ə**n to straighten ž leave (it)! (also z) Υ× ZZ ZZiy I left someone or something behind zzawi incense žawα to copulate (said of animals), (also ½ awα) žarab to try to drag; to haul (also žar) žar z**ə**n sleep! (rude) Ş

summer

hoe

ssif

sappa

```
şafα
                      to travel
                      to hide a person; to keep a secret
ssα
ssαf
                      change
ssαγ
                      to burn
                     to step over
ssof
şuð
                      to blow
syyα
                      to sieve
şwwα
                      to draw; to take a photograph
\text{sff}\alpha
                      to whistle
ssadhas
                      to make laugh
Z
                      to milk (also zziy)
zіу
zzağ
                      to pray
zzα
                      to see
zzαθ
                      see him!
                      to plant
zzu
zzuθ
                      plant it!
                      to kiss; to visit the tomb of a saint
ζO
$
ssα
                     to fill (also ss\alpha)
šsαð
                      to become a Koranic teacher at a
                      cantonal mosque
```

Ž.

žaža to drag onself

žžαf ravine

žžαθ to make a lot of noise while playing

č

cca to press

ččaθ press it!

cancana tambourine

ğ

ğayğa there was

ggaz to get hungry

y gssaq glue

ggay to lick

<u>k</u>

kriyu pencil

 $kar\alpha$ to read the Koran over and over and

memorize it

karru cart (also Karru)

 $kk\alpha$ to wake up; to stand up

kuffu foam

g

garru cigarette

 $gg\alpha$ to bake bread

 $\underline{k^{\boldsymbol{W}}}$

 $kk^{W}\!\alpha \hspace{1.5cm} \text{to insult}$

gy

gg^yα to bake bread

g^ymα to hunt

<u>x</u>

xafi on me

xam on you (fem. sing.)

xari (my maternal) uncle

xaxa to feel exhausted

xαbus man's nickname

xaam to work

xzi to curse Satan

xzα to look

 $\underline{\Upsilon}$

γa towards

γaθ to help

γα to study; to read

γαθ read it !

γγαπ to give a gift of money to the bride-

groom during his wedding ceremony

 $\gamma \alpha s$ he has

γγαs to slaughter

 $\gamma yy\alpha$ to change

q

qabu walking stick

qabrayi sit in front of me

qat there she is

qa0 there he is

qam there is so and so

qqas to taste

qaqqa candy (nursery language)

qqu to have sexual intercourse

qubbu bucket

qqut make love to her

 $qqu\theta$ make love to him

 $qmm\alpha$ to gamble

qlala

man's nickname

qrr

a call used to chase away cows and

calves, etc. to prevent them from

eating something

<u>þ</u>

hhan

to cover; to protect

halawat

candy

haz

to chase

haš

a woollen towel-like garment that

women wear over their head and the

rest of their body

hawar

be careful with; take care of

h11adi

man's name

ε

εawnayi

help me!

εад

yet

εara

to uncover

εlluš

man's name

 $\underline{\mathbf{h}}$

haž to rage

hažuž u mažuž mythical people of small height

hwa to go downstairs

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