

Frequency %

■ All Languages ■ Experiment

## Appendix 2 - Prior Frequencies

[illegible]

## Appendix 2 - Prior Frequencies

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ɹ → r

ToScratch.Coctiare						
k	o	s	a	ɹ		
k	u	s	a	r		

i → o:

ToKnow.Cognoscere									
k	u	-	ɲ	i	s	-	e	r	-
k	o	g	n	o:	s	k	e	r	e

i → u

Small.Pittinus						
p	i	-	k	e	n	u
p	u	-	t	s	i	n

i → a:

Hand.Primary				
m	i	n	ə	-
m	a:	n	o	-

ɕ → i

Skin.Primary						
k	-	o	ɕ	i	-	ɐ
k	-	o	j	i	n	-

ɐ → aj

ToPull.Trahere						
t	r	ɐ	z	e	r	-
t	r	aj	-	-	-	-

ɐ → ɔ:

ToSplit.Partire						
p	ɐ	r	t	i	r	-
p	ɔ:	r	t	i	-	-

ɕ → f

Rain.Primary						
p	j	o	d	ɕ	-	a
p	l	ɛ	-	f	-	-

ə → ɪ

I.Primary			
ʒ	ə	-	-
ɕ	ɪ	-	-

i → ɔ

ToKnow.Cognoscere									
k	u	-	ɲ	i	s	-	e	r	-
k	i	-	n	ɔ	h	-	-	-	-

ə → ɛj

ToRub.Primary						
f	r	ə	g	a	-	-
f	ɐ	ɛj	e	-	-	-

## Appendix 2 - Prior Frequencies

ɖ͡ʒ → ʃ

Hair.Capillus							
ɖ͡ʒ	i	v	ɛ	-	-	-	-
ʃ	ə	v	ø	-	-	-	-

ə → ẽj

In.In	
ə	n
ẽj	-

ə → ẽj̃

In.In	
ə	n
ẽj̃	-

ə → ɔ̃

Sand.Sabulum							
s	o	-	-	r	ə	-	-
s	a	v	-	j	ɔ̃	-	-

ɖ͡ʒ → ʃf

Red.Rubeus							
r	u	-	ɖ͡ʒ	e	-	-	-
r	ɔ	-	ʃf	-	-	-	-

ə → ɔ

Sand.Sabulum							
s	o	-	-	r	ə	-	-
s	a	v	a	l	ɔ	n	-

ə → u:

Thin.Delicatus							
d	ə	l	i	k	a	t	-
d	u:	-	-	ʒ	e:	-	-

œ̃ → ɔ̃

One.Primary			
œ̃	-	-	-
ɔ̃	-	-	-

ə → oj

ToRub.Primary					
f	r	ə	g	a	-
f	r	oj	-	-	-

i → ɛ:

What.Primary			
k	-	i	-
k	w	ɛ:	-

ʒ → dz

Day.Diurnata							
ʒ	-	u	ɳ	n	e	-	-
dz	-	o	r	n	a	d	e

## Appendix 2 - Prior Frequencies

---

ʒ → θ

Near.Vicinus							
v	-	i	ʒ	ē	-	-	-
b	-	e	θ	i	n	o	-

ʒ → ɪ

ToBurn.Incendere							
i	n	ʃ	i	n	d	ʒ	e
ī	-	s	e	n	ɔ̃	ɪ	a

y → ɥ

Fruit.Primary							
f	r	y	-	t	-	-	-
f	ʁ	ɥ	i	-	-	-	-

y → ɔa

Night.Primary							
n	-	y	-	t	-	-	-
n	-	ɔa	p	t	e	-	-

y → i

River.Rivus							
ʁ	y	-	-	-	-	-	-
r	i	-	w	-	-	-	-

y → ø

Moon.Primary							
l	y	n	-	-	-	-	-
l	ø	n	-	-	-	-	-

ʒ → w

Rain.Primary							
p	l	u	-	ʒ	-	ə	-
p	l	u	-	w	i	a	-

ʒ → s

ToWipe.Extergere							
ə	-	s	t	ə	r	ʒ	i
e	-	s	t	a	r	s	i

ʒ → f

Rain.Primary							
p	l	u	-	ʒ	-	ə	-
p	l	ε	-	f	-	-	-

y → i:

River.Rivus							
ʁ	y	-	-	-	-	-	-
r	i:	w	u	s	-	-	-

i → ɛa

ToDrink.Primary							
b	-	i	β	e	r	-	-
b	-	ɛa	-	-	-	-	-

## Appendix 2 - Prior Frequencies

i → a

ToDrink.Primary						
b	-	i	β	e	r	-
b	w	a	-	-	ʁ	-

i → aj

Snow.Primary					
n	-	ε	v	i	-
n	-	i	v	aj	-

i → qa

ToKnow.Cognoscere							
k	u	-	ɲ	i	s	-	e r -
k	u	-	n	qa	f	t	e - -

i → ej

Narrow.Strictus									
-	s	t	r	-	i	m	-	t	-
i	s	t	r	-	ej	-	-	t	u

i → ej

Narrow.Strictus									
-	s	t	r	-	i	m	-	t	-
i	ʃ	t	r	-	ej	-	-	t	u

i → y

River.Rivus			
r	i	-	w
ʁ	y	-	-

i → ẽj

In.In	
i	n
ẽj	-

i → ẽj

In.In	
i	n
ẽj	-

i → ð

Blood.Primary							
s	i	n	ɖ	-	e	-	-
s	ð	-	g	-	-	-	-

œ → u:

One.Primary			
œ	-	-	-
u:	n	u	s

ej → a:

ToSmell.Fragrare						
ʃ	-	ej	-	r	a	r
f	r	a:	g	r	a:	r e

## Appendix 2 - Prior Frequencies

---

$\tilde{e}j \rightarrow i$

In.In		
$\tilde{e}j$	-	
i	n	

$\tilde{e}j \rightarrow \tilde{e}$

Not.Nec		
n	$\tilde{e}j$	-
n	$\tilde{e}$	-

$\tilde{o} \rightarrow \emptyset$

Few.Primary				
p	$\tilde{o}$	-	-	-
p	$\emptyset$	-	-	-

$\tilde{o} \rightarrow o:$

Few.Primary				
p	$\tilde{o}$	-	-	-
p	$o:$	k	-	-

$\tilde{o} \rightarrow u:$

One.Primary				
$\tilde{o}$	-	-	-	
$u:$	n	u	s	

$\tilde{e} \rightarrow ej$

Breast.Primary				
s	$\tilde{e}$	-	-	-
s	$ej$	-	u	-

$\theta \rightarrow d$

ToTurnIntransitive.Torquere						
t	o	r	$\theta$	e	r	-
t	ɔ	ɾ	d	-	ɾ	-

$\tilde{e} \rightarrow \tilde{e}j$

Not.Nec		
n	$\tilde{e}$	-
n	$\tilde{e}j$	-

$\tilde{e} \rightarrow \tilde{e}j$

Not.Nec		
n	$\tilde{e}$	-
n	$\tilde{e}j$	-

$\tilde{e} \rightarrow \varepsilon:$

Full.Primary					
p	l	$\tilde{e}$	-	-	-
p	j	$\varepsilon:$	n	o	-

$\tilde{o} \rightarrow \alpha\tilde{e}$

One.Primary			
$\tilde{o}$	-	-	-
$\alpha\tilde{e}$	-	-	-

## Appendix 2 - Prior Frequencies

$\theta \rightarrow 3$

Near.Vicinus							
b	-	e	$\theta$	i	n	o	-
v	-	i	3	ẽ	-	-	-

$\theta \rightarrow c$

ToThrow.Lanceare							
l	a	n	$\theta$	-	a	r	-
l	a	n	c	-	i:	-	-

$\theta \rightarrow h$

ToKnow.Cognoscere							
k	o	-	n	o	$\theta$	-	e r -
k	i	-	n	ɔ	h	-	- - -

$\emptyset \rightarrow \text{œ}$

Fire.Focus					
f	-	$\emptyset$	-	-	-
f	-	œ	-	-	-

$\emptyset \rightarrow \text{qa}$

Tail.Primary				
k	$\emptyset$	-	-	-
c	qa	d	ə	-

$\emptyset \rightarrow \text{ej}$

Hair.Capillus							
ʃ	ə	v	$\emptyset$	-	-	-	-
c	a	v	ej	-	-	-	-

$\emptyset \rightarrow \text{ej}$

Old.Primary							
v	j	$\emptyset$	-	-	-	-	-
v	-	ej	-	-	ʌ	u	-

$\emptyset \rightarrow y$

Moon.Primary				
l	$\emptyset$	n	-	-
l	y	n	-	-

$\emptyset \rightarrow \tilde{o}$

Few.Primary				
p	$\emptyset$	-	-	-
p	$\tilde{o}$	-	-	-

$\tilde{e} \rightarrow a:$

Hand.Primary				
m	$\tilde{e}$	-	-	-
m	a:	n	o	-

$z \rightarrow dz$

Leaf.Frondea					
f	r	u	n	z	- ə
f	r	o	n	dz	- a



## Appendix 2 - Prior Frequencies

$z \rightarrow j$

ToLieAsInABed.Iacere						
z	ə	-	f	ea	-	-
j	a	-	θ	e	r	-

$\tilde{o} \rightarrow w$

ToHear.Primary					
$\tilde{o}$	-	-	-	R	-
w	-	-	i	ʁ	-

$\mathfrak{d}_3 \rightarrow h$

ToPull.Trahere						
t	r	a	$\mathfrak{d}_3$	e	-	-
t	r	a	h	e	r	e

$\tilde{v}j \rightarrow e:$

Cloud.Primary				
n	u	v	$\tilde{v}j$	-
n	u:	b	e:	s

$\tilde{e}j \rightarrow i$

In.In	
$\tilde{e}j$	-
i	n

$\tilde{e}j \rightarrow ə$

In.In	
$\tilde{e}j$	-
ə	n

$\tilde{e}j \rightarrow \tilde{e}$

Not.Nec		
n	$\tilde{e}j$	-
n	$\tilde{e}$	-

$\tilde{e}j \rightarrow e:$

Cloud.Primary				
n	u	v	$\tilde{e}j$	-
n	u:	b	e:	s

$t \rightarrow \gamma$

Lake.Primary				
l	a:	t	-	-
l	a	$\gamma$	u	-

$\mathfrak{d}_3 \rightarrow g^w$

Blood.Primary							
s	i	n	$\mathfrak{d}_3$	-	e	-	-
s	a	n	$g^w$	-	i	n	e m

$\tilde{o} \rightarrow i$

Blood.Primary							
s	$\tilde{o}$	-	g	-	-	-	-
s	i	n	$\mathfrak{d}_3$	-	e	-	-

## Appendix 2 - Prior Frequencies

$\tilde{o} \rightarrow \text{ə}$

Sand.Sabulum						
s	ɑ	v	-	j	$\tilde{o}$	-
s	o	-	-	r	ə	-

$\tilde{o} \rightarrow \tilde{a}$

Blood.Primary						
s	$\tilde{o}$	-	g	-	-	-
s	$\tilde{a}$	-	-	-	-	-

$\lambda \rightarrow \text{t}$

Full.Primary					
-	$\lambda$	e	n	o	-
p	t	ε	-	-	-

$\tilde{e} \rightarrow \text{ε:}$

Full.Primary					
p	l	$\tilde{e}$	-	-	-
p	j	ε:	n	o	-

$\tilde{e} \rightarrow \text{u:}$

How.Quomodo					
k	ɔ	m	$\tilde{e}$	-	-
ʃ	e	m	u:	t	-

$\tilde{e} \rightarrow \text{a:}$

Hand.Primary				
m	$\tilde{e}$	-	-	-
m	a:	n	o	-

$z \rightarrow \text{t}$

Foot.Primary					
p	i	e	-	z	-
p	-	i:	-	t	-

$\tilde{a} \rightarrow \tilde{o}$

Blood.Primary						
s	$\tilde{a}$	-	-	-	-	-
s	$\tilde{o}$	-	g	-	-	-

$\tilde{a} \rightarrow \text{u:}$

How.Quomodo					
k	ɔ	m	$\tilde{a}$	-	-
ʃ	e	m	u:	t	-

$\tilde{a} \rightarrow \text{e:}$

ToThink.Pensare					
p	$\tilde{a}$	-	s	e	-
p	e:	n	s	a:	r

$\tilde{e}j \rightarrow \text{ə}$

In.In	
$\tilde{e}j$	-
ə	n

## Appendix 2 - Prior Frequencies

$vj \rightarrow \emptyset$

Old.Primary						
v	-	vj	-	-	Λ	u
v	j	∅	-	-	-	-

$vj \rightarrow i$

Narrow.Strictus						
i	∫	t	r	-	vj	-
-	s	t	r	-	i	m
-	-	-	-	-	-	-

$ʃf \rightarrow dʒ$

Red.Rubeus				
r	ɔ	-	ʃf	-
r	u	-	dʒ	e
-	-	-	-	-

$d \rightarrow k^w$

ToTurnIntransitive.Torquere					
t	ɔ	ʁ	d	-	ʁ
t	o	r	k <sup>w</sup>	e:	r
-	-	-	-	-	-

$ɲ \rightarrow m$

All.Primary				
o	ɲ	ɲ	i	-
o	m	n	i	s
-	-	-	-	-

$m \rightarrow ɲ$

All.Primary				
o	m	n	i	s
o	ɲ	ɲ	i	-
-	-	-	-	-

$m \rightarrow e$

Big.Majjorem					
m	aj	j	o:	r	e
m	a	-	-	r	e
-	-	-	-	-	-

$n \rightarrow b$

Name.Nominem					
n	o:	m	i	n	-
n	o	m	-	b	r
-	-	-	-	-	-

$n \rightarrow k$

Knee.Genuculum						
dʒ	-	e	n	u	n	k <sup>j</sup>
dʒ	-	i	n	ɔ	k	k
-	-	-	-	-	-	-

$iw \rightarrow \varepsilon$

Seed.Granum				
g	r	iw	-	-
g	ʁ	ε	n	-
-	-	-	-	-

$iw \rightarrow a:$

Seed.Granum				
g	r	iw	-	-
g	r	a:	n	u
-	-	-	-	-

## Appendix 2 - Prior Frequencies

---

d → x

Day.Diurnata							
d	i	u	r	n	a:	t	a
x	-	o	r	n	a	d	a

iw → i

Seed.Granum					
g	r	iw	-	-	-
g	r	i	n	-	-

ɪ → ə

I.Primary			
ɔ̯	ɪ	-	-
ʒ	ə	-	-

ɔj → œ

Leaf.Primary					
f	-	ɔj	-	-	-
f	-	œ	j	-	-

ɔj → ɔa

Leaf.Primary					
f	-	ɔj	-	-	-
f	-	ɔa	-	j	e

ɛj → oj

ToRub.Primary					
f	ʁ	ɛj	e	-	-
f	r	oj	-	-	-

ɛj → ej

Ear.Primary					
ɔ	ʀ	ɛj	-	-	-
o	ʁ	ej	-	-	-

ɛj → ə

ToRub.Primary					
f	ʁ	ɛj	e	-	-
f	r	ə	g	a	-

ɛj → ɔ

Sun.Soliculus							
s	ɔ	l	ɛj	-	-	-	-
s	ɔ	l	ɔ	-	-	-	-

g → x

ToTurnIntransitive.Gyrare					
g	y	r	a:	r	e
x	i	r	a	r	-

ɪ → ʒ

ToBurn.Incendere							
ɪ	-	s	e	n	ɔ̯	ɪ	a
i	n	ʈ	i	n	d	ʒ	e

## Appendix 2 - Prior Frequencies

---

r → s

Back.Primary						
d	-	o	r	s	u	m
d	-	ɔ	s	s	o	-

d → θ

ToTurnIntransitive.Torquere						
t	ɔ	ɾ	d	-	ɾ	-
t	o	r	θ	e	r	-

r → h

ToPull.Trahere						
t	r	a	r	-	r	e
t	r	a	h	e	r	e

t → z

Foot.Primary						
p	-	i:	-	t	-	-
p	i	e	-	z	-	-

t → k<sup>j</sup>

Old.Primary						
w	-	e	t	u	l	u
v	-	e	k <sup>j</sup>	-	-	-

r → ɭ

Sun.Primary						
s	ɔa	r	e	-	-	-
s	ɔ	ɭ	-	-	-	-

t → i

Skin.Primary						
k	-	o	t	e	n	n
k	-	oj	i	-	n	-

r → ɭ

ToScratch.Coctiare						
k	u	s	a	r	-	-
k	o	s	a	ɭ	-	-

s → ʒ

ToWipe.Extergere						
e	-	s	t	a	r	s
ə	-	s	t	ə	r	ʒ

s → r

Back.Primary						
d	-	ɔ	s	s	o	-
d	-	o	r	s	u	m

k → n

Knee.Geniculum						
ɖʒ	-	i	n	ɔ	k	k
ɖʒ	-	e	n	u	n	k <sup>j</sup>

## Appendix 2 - Prior Frequencies

$k \rightarrow h$

Bird.Avicellum									
-	a	w	i	-	k	-	e	l	l
-	-	u	-	-	h	-	ε	-	-

$k \rightarrow g^w$

Blood.Primary									
s	a	ŋ	k	-	-	-	-	-	-
s	a	n	g <sup>w</sup>	-	i	n	e	m	-

$j \rightarrow o$

Eye.Primary									
-	ɔ	k	k	-	j	o	-	-	-
-	o	-	x	-	o	-	-	-	-

$w \rightarrow h$

ToPull.Trahere									
t	r	ε	w	-	r	ə	-	-	-
t	r	a	h	e	r	e	-	-	-

$w \rightarrow ʒ$

Rain.Primary									
p	l	u	-	w	i	a	-	-	-
p	l	u	-	ʒ	-	ə	-	-	-

$w \rightarrow oj$

Road.Primary									
v	w	-	a	-	-	-	-	-	-
v	oj	-	-	-	-	-	-	-	-

$w \rightarrow \tilde{o}$

ToHear.Primary									
w	-	-	i	ʁ	-	-	-	-	-
ō	-	-	-	R	-	-	-	-	-

$p \rightarrow c$

Night.Primary									
n	-	qa	p	t	e	-	-	-	-
n	-	o	c	t	e	m	-	-	-

$d \rightarrow i$

Skin.Primary									
k	-	o	d	i	-	-	v	-	-
k	-	oj	i	-	n	-	-	-	-

$l \rightarrow o$

Eye.Primary									
-	o	-	k	u	l	u	s	-	-
-	o	-	x	-	o	-	-	-	-

$r \rightarrow ɫ$

Ice.Primary									
ɖʒ	e	r	-	-	-	-	-	-	-
ʒ	ε	ɫ	-	-	-	-	-	-	-

## Appendix 2 - Prior Frequencies

au → o:

Few.Primary					
p	au	k	u	s	
p	o:	k	-	-	

ea → a

ToDrink.Primary					
b	-	ea	-	-	-
b	w	a	-	-	ɣ

ea → œ

Star.Primary					
-	s	t	-	ea	-
-	s	t	-	œ	l

ea → aj

Fog.Caecia					
ʃ	ea	ʃ	-	ə	
k	aj	k	i	a	

aj → i

Snow.Primary					
n	-	i	v	aj	-
n	-	ɛ	v	i	-

aj → ɐ

ToPull.Trahere					
t	r	aj	-	-	-
t	r	ɐ	z	e	r

aj → i:

Sky.Primary					
k	-	aj	l	u	m
ʃ	-	i:	l	-	-

qa → ɥ

Rain.Primary					
p	l	qa	-	j	e
p	l	ɥ	-	i	-

qa → ɔj

Leaf.Primary					
f	-	qa	-	j	e
f	-	ɔj	-	-	-

ʃ → dʒ

Hair.Capillus					
ʃ	ə	v	ø	-	-
dʒ	i	v	ɛ	-	-

ʃ → ts

Belly.Pantex					
p	a	ɲ	ʃ	-	ə
p	a	n	ts	-	e

## Appendix 2 - Prior Frequencies

qa → y

Night.Primary						
n	-	qa	p	t	e	-
n	-	y	-	t	-	-

qa → i

ToKnow.Cognoscere						
k	u	-	n	qa	f	t e - -
k	u	-	j	i	s	- e r -

qa → ø

Tail.Primary			
c	qa	d	ə
k	ø	-	-

qa → ø:

ToSew.Primary						
c	qa	-	-	s	-	e - -
k	ø:	-	-	z	-	- - -

f → j

ToDig.Cavare				
f	ə	v	e	-
j	a	v	a:	-

ej → ej

Ear.Primary					
o	ʁ	ej	-	-	-
ɔ	ʀ	ej	-	-	-

ej → a

Three.Primary				
t	r	-	ej	-
t	ʁ	w	a	-

ej → i

Narrow.Strictus							
i	s	t	r	-	ej	-	t u -
-	s	t	r	-	i	m	- t -

ej → ě

Breast.Primary			
s	ej	-	u -
s	ě	-	-

ej → ø

Hair.Capillus					
c	a	v	ej	-	-
f	ə	v	ø	-	-

g<sup>w</sup> → dʒ

Blood.Primary					
s	a	n	g <sup>w</sup>	-	i n e m
s	i	n	dʒ	-	- - -



## Appendix 2 - Prior Frequencies

ej → a:

ToSmell.Fragrare									
f	-	ej	-	r	a	ʁ	-		
f	r	a:	g	r	a:	r	e		

aj → ɛa

Fog.Caecia					
k	aj	k	i	a	
ʃ	ɛa	ʃ	-	ə	

ø → ø:

Two.Duos			
d	-	ø	-
d	-	ø:	-

œ → i:

Liver.Primary							
f	-	œ	-	-	t	-	-
f	-	i:	k	a:	t	u	m

œ → ø

Fire.Focus					
f	-	œ	-	-	-
f	-	ø	-	-	-

ɛa → i

ToDrink.Primary							
b	-	ɛa	-	-	-	-	-
b	-	i	β	e	r	-	-

ɛa → ø:

ToDrink.Primary							
b	-	ɛa	-	-	-	-	-
b	-	ø:	-	-	ʁ	-	-

oj → w

Road.Primary				
v	oj	-	-	-
v	w	-	a	-

oj → εj

ToRub.Primary							
f	r	oj	-	-	-	-	-
f	ʁ	εj	e	-	-	-	-

oj → ə

ToRub.Primary							
f	r	oj	-	-	-	-	-
f	r	ə	g	a	-	-	-

g → j

Ice.Primary			
g	e	l	u:
j	e	l	o

## Appendix 2 - Prior Frequencies

oj → a

Skin.Primary							
k	-	oj	i	-	n	-	-
k	w	a	-	-	-	n	-

f → ʒ

Rain.Primary							
p	l	ε	-	f	-	-	-
p	l	u	-	ʒ	-	ə	-

α → ɛa

ToDrink.Primary							
b	w	α	-	-	ɞ	-	-
b	-	ɛa	-	-	-	-	-

α → œ

Liver.Primary							
f	w	α	-	-	-	-	-
f	-	œ	-	-	t	-	-

α → ej

Three.Primary							
t	ɞ	w	α	-	-	-	-
t	r	-	ej	-	-	-	-

α → i

ToDrink.Primary							
b	w	α	-	-	ɞ	-	-
b	-	i	β	e	r	-	-

f → dʒ

Rain.Primary							
p	l	ε	-	f	-	-	-
p	j	o	d	dʒ	-	a	-

α → o

Sand.Sabulum							
s	α	v	-	j	ʃ	-	-
s	o	-	-	r	ə	-	-

α → i:

Liver.Primary							
f	w	α	-	-	-	-	-
f	-	i:	k	a:	t	u	m

œ → ɔj

Leaf.Primary							
f	-	œ	j	-	-	-	-
f	-	ɔj	-	-	-	-	-

œ → ɛa

Star.Primary							
-	s	t	-	œ	-	l	-
-	s	t	-	ɛa	-	-	-

## Appendix 2 - Prior Frequencies

œ → a

Liver.Primary									
f	-	œ	-	-	t	-	-	-	-
f	w	a	-	-	-	-	-	-	-

b → n

Name.Nominem									
n	o	m	-	b	r	e	-	-	-
n	o:	m	i	n	-	e	m	-	-

b → g<sup>w</sup>

Tongue.Primary									
l	i	m	b	-	ə	-	-	-	-
l	i	n	g <sup>w</sup>	-	a	-	-	-	-

y → i:

ToTie.Primary									
ʌ	i	y	a	-	-	-	-	-	-
l	ɔj	i:	-	-	-	-	-	-	-

ɖʒ → dz

Day.Diurnata									
ɖʒ	-	o	r	n	a	t	a	-	-
dz	-	o	r	n	a	d	e	-	-

t → x

Old.Primary									
w	-	e	t	u	l	u	s	-	-
b	j	e	x	o	-	-	-	-	-

ʃ → f

ToDig.Cavare									
ʃ	a	v	a:	-	-	-	-	-	-
f	ə	v	e	-	-	-	-	-	-

ʈ → r

Ice.Primary									
ʒ	ɛ	ʈ	-	-	-	-	-	-	-
ɖʒ	e	r	-	-	-	-	-	-	-

i: → ɛ:

Foot.Primary									
p	-	i:	-	t	-	-	-	-	-
p	j	ɛ:	-	d	e	-	-	-	-

h → θ

ToKnow.Cognoscere									
k	i	-	n	ɔ	h	-	-	-	-
k	o	-	n	o	θ	-	e	r	-

i: → e:

Cold.Primary									
f	r	-	i:	g	i	d	u	s	-
f	r	-	e:	-	-	t	-	-	-

## Appendix 2 - Prior Frequencies

h → dʒ

ToPull.Trahere						
t	r	a	h	e	r	e
t	r	a	dʒ	e	-	-

o → ʌ

Sand.Sabulum						
s	o	-	-	r	ə	-
s	ʌ	v	-	j	ɔ̃	-

i → dʒ

Skin.Primary						
k	-	oʃ	i	-	n	-
k	-	o	dʒ	i	-	ɐ

o → l

Eye.Primary						
-	o	-	x	-	o	-
-	o	-	k	u	l	u s

o → j

Eye.Primary						
-	o	-	x	-	o	-
-	ɔ	k	k	-	j	o -

h → k

Bird.Avicellum									
-	-	u	-	-	h	-	ɛ	-	-
-	a	w	i	-	k	-	e	l	l u m

i → d

Skin.Primary						
k	-	oʃ	i	-	n	-
k	-	o	d	i	-	ɐ

i → t

Skin.Primary						
k	-	oʃ	i	-	n	-
k	-	o	t	e	n	n a

i → iw

Seed.Granum					
g	r	i	n	-	-
g	r	iw	-	-	-

i: → y

River.Rivus				
r	i:	w	u	s
ɾ	y	-	-	-

h → w

ToPull.Trahere						
t	r	a	h	e	r	e
t	r	ɛ	w	-	r	ə

## Appendix 2 - Prior Frequencies

o: → ǫ

Few.Primary				
p	o:	k	-	-
p	ǫ	-	-	-

o: → i

ToKnow.Cognoscere							
k	o	g	n	o:	s	k	e r e
k	u	-	ɲ	i	s	-	e r -

o: → au

Few.Primary				
p	o:	k	-	-
p	au	k	u	s

i → ø

Hair.Capillus						
k	a	p	i	l	l	u s
f	ə	v	ø	-	-	-

a: → i

Hand.Primary				
m	a:	n	o	-
m	i	n	ə	-

h → r

ToPull.Trahere					
t	r	a	h	e	r e
t	r	a	r	-	r e

ɔ → ə

Sand.Sabulum					
s	a	v	a	l	ɔ n
s	o	-	-	r	ə -

ɔ → i

ToKnow.Cognoscere							
k	i	-	n	ɔ	h	-	- -
k	u	-	ɲ	i	s	-	e r -

ts → f

Belly.Pantex					
p	a	n	ts	-	e -
p	a	ɲ	f	-	ə -

ɔ → εj

Sun.Soliculus						
s	ɔ	l	ɔ	-	-	-
s	ɔ	l	εj	-	-	-

ɔ: → e

Good.Primary				
b	w	ɔ:	n	o -
b	w	e	n	o -

## Appendix 2 - Prior Frequencies

ɔ: → a:

Bad.Primary				
m	ɔ:	-	-	-
m	a:	l	-	-

ɔ: → u

Good.Primary				
b	w	ɔ:	n	o
b	-	u	n	-

k<sup>j</sup> → t

Old.Primary						
v	-	e	k <sup>j</sup>	-	-	-
w	-	e	t	u	l	u

o: → u:

Egg.Primary				
-	o:	w	u	m
-	u:	f	-	-

i: → aj

Sky.Primary				
ʃ	-	i:	l	-
k	-	aj	l	u

u: → ʊ

Fruit.Primary						
f	r	u:	-	k	t	u
f	ʁ	ʊ	i	-	-	-

ɫ → r

Sun.Primary				
s	ɔ	ɫ	-	-
s	ɔa	r	e	-

a: → ej

ToSmell.Fragrare						
f	r	a:	g	r	a:	r
ʃ	-	ej	-	r	a	ʁ

j → z

ToLieAsInABed.Iacere						
j	a	-	θ	e	r	-
z	ə	-	ʃ	ɛa	-	-

a: → iw

Seed.Granum				
g	r	a:	n	u
g	r	iw	-	-

a: → ẽ

Hand.Primary				
m	a:	n	o	-
m	ẽ	-	-	-

## Appendix 2 - Prior Frequencies

u → ɔ:

Good.Primary						
b	-	u	n	-	-	-
b	w	ɔ:	n	o	-	-

j → g

Ice.Primary			
j	e	l	o
g	e	l	u:

ɥ → u:

Fruit.Primary							
f	ɣ	ɥ	i	-	-	-	-
f	r	u:	-	k	t	u	s

a: → ě

Hand.Primary				
m	a:	n	o	-
m	ẽ	-	-	-

a: → ɔ:

Bad.Primary				
m	a:	l	-	-
m	ɔ:	-	-	-

ɥ → ε

Rain.Primary						
p	l	ɥ	-	-	i	-
p	l	ε	-	f	-	-

a: → i

Seed.Granum					
g	r	a:	n	u	m
g	r	i	n	-	-

u → i

Small.Pittinus							
p	u	-	ts	i	n	-	-
p	i	-	k	e	n	u	-

a: → e:

Thin.Delicatus								
d	e:	l	i	k	a:	t	u	s
d	u:	-	-	ʒ	e:	-	-	-

k<sup>w</sup> → d

ToTurnIntransitive.Torquere						
t	o	r	k <sup>w</sup>	e:	r	e
t	ɔ	ɣ	d	-	ɣ	-

ʔ → ʌ

Full.Primary					
p	ʔ	ε	-	-	-
-	ʌ	e	n	o	-

## Appendix 2 - Prior Frequencies

ɥ → y

Fruit.Primary							
f	ɣ	ɥ	i	-	-	-	-
f	r	y	-	-	t	-	-

a → oj

Skin.Primary							
k	w	a	-	-	n	-	-
k	-	oj	i	-	n	-	-

u: → ə

Thin.Delicatus							
d	u:	-	-	ʒ	e:	-	-
d	ə	l	i	k	a	t	-

u: → œ̃

One.Primary			
u:	n	u	s
œ̃	-	-	-

i: → œ

Liver.Primary							
f	-	i:	k	a:	t	u	m
f	-	œ	-	-	t	-	-

u: → ẽ

How.Quomodo					
ʃ	e	m	u:	t	-
k	ɔ	m	ẽ	-	-

u: → ã

How.Quomodo					
ʃ	e	m	u:	t	-
k	ɔ	m	ã	-	-

u: → õ

One.Primary			
u:	n	u	s
õ	-	-	-

i → u:

ToWipe.Exsucare							
e	-	s	ɥ	i	-	j	e
e	k	s	-	u:	k	a:	r

u: → ε

Thin.Delicatus							
d	u:	-	-	ʒ	e:	-	-
d	ε	ɫ	-	ɣ	a	ð	u

u: → o:

Egg.Primary				
-	u:	f	-	-
-	o:	w	u	m



## Appendix 2 - Prior Frequencies

u: → i

ToWipe.Exsucare									
e	k	s	-	u:	k	-	a:	r	e
e	-	s	ɥ	i	-	j	e	-	-

u: → e:

Thin.Delicatus									
d	u:	-	-	ʒ	e:	-	-	-	-
d	e:	l	i	k	a:	t	u	s	-

i: → ʏ

ToTie.Primary									
l	ɔj	i:	-	-	-	-	-	-	-
ʌ	i	ʏ	a	-	-	-	-	-	-

i: → x

ToPull.Pulsare									
p	u:	s	i:	-	-	-	-	-	-
p	u	-	x	a	r	-	-	-	-

ɥ → ɔa

Rain.Primary									
p	l	ɥ	-	-	i	-	-	-	-
p	l	ɔa	-	-	j	e	-	-	-

i: → a

Liver.Primary									
f	-	i:	k	a:	t	u	m	-	-
f	w	a	-	-	-	-	-	-	-

i → a:

Seed.Granum									
g	r	i	n	-	-	-	-	-	-
g	r	a:	n	u	m	-	-	-	-

a: → ɐj

ToSmell.Fragrare									
f	r	a:	g	r	a:	r	e	-	-
f	-	ɐj	-	r	a	r	-	-	-

dz → x

Day.Diurnata									
dz	-	o	r	n	a	d	e	-	-
x	-	o	r	n	a	d	a	-	-

e → m

Big.Majjorem									
m	a	-	-	-	r	e	-	-	-
m	a	j	o:	r	e	m	-	-	-

c → p

Night.Primary									
n	-	o	c	t	e	m	-	-	-
n	-	ɔa	p	t	e	-	-	-	-

## Appendix 2 - Prior Frequencies

$\epsilon: \rightarrow i:$

Foot.Primary						
p	j	$\epsilon:$	-	d	e	-
p	-	$i:$	-	t	-	-

$\text{dz} \rightarrow \text{d}_j$

Day.Diurnata						
$\text{dz}$	-	o	r	n	a	d e
$\text{d}_j$	-	o	r	n	a	t a

$e: \rightarrow \epsilon:$

Full.Primary						
p	l	$e:$	n	u	s	-
p	j	$\epsilon:$	n	o	-	-

$\epsilon: \rightarrow i$

What.Primary						
k	w	$\epsilon:$	-	-	-	-
k	-	$i$	-	-	-	-

$e: \rightarrow u:$

Thin.Delicatus						
d	$e:$	l	i	k	a:	t u s
d	u:	-	-	ʒ	$e:$	- - -

$x \rightarrow g$

ToTurnIntransitive.Gyrare						
$x$	i	r	a	r	-	-
$g$	y	r	a:	r	e	-

$x \rightarrow d$

Day.Diurnata						
$x$	-	o	r	n	a	d a
$d$	i	u	r	n	a:	t a

$\epsilon: \rightarrow \tilde{\epsilon}$

Full.Primary						
p	j	$\epsilon:$	n	o	-	-
p	l	$\tilde{\epsilon}$	-	-	-	-

$e: \rightarrow a:$

Thin.Delicatus						
d	u:	-	-	ʒ	$e:$	- - -
d	$e:$	l	i	k	$a:$	t u s

$x \rightarrow t$

Old.Primary						
b	j	e	$x$	o	-	-
w	-	e	$t$	u	l	u s

$\epsilon: \rightarrow \tilde{e}$

Full.Primary						
p	j	$\epsilon:$	n	o	-	-
p	l	$\tilde{e}$	-	-	-	-

## Appendix 2 - Prior Frequencies

e: → i:

Cold.Primary									
f	r	-	e:	-	t	-	-	-	-
f	r	-	i:	g	i	d	u	s	-

x → i:

ToPull.Pulsare									
p	u	-	x	a	r	-	-	-	-
p	u:	s	i:	-	-	-	-	-	-

dz → z

Leaf.Frondea									
f	r	o	n	dz	-	a	-	-	-
f	r	u	n	z	-	ə	-	-	-

ε → iw

Seed.Granum									
g	ʁ	ε	n	-	-	-	-	-	-
g	r	i	w	-	-	-	-	-	-

c → θ

ToThrow.Lanceare									
l	a	n	c	-	i:	-	-	-	-
l	a	n	θ	-	a	r	-	-	-

ε → ɥ

Rain.Primary									
p	l	ε	-	f	-	-	-	-	-
p	l	ɥ	-	-	i	-	-	-	-

dz → ʒ

Day.Diurnata									
dz	-	o	r	n	a	d	e	-	-
ʒ	-	u	ʁ	n	e	-	-	-	-

g<sup>w</sup> → k

Blood.Primary									
s	a	n	g <sup>w</sup>	-	i	n	e	m	-
s	a	ŋ	k	-	-	-	-	-	-

ε: → e:

Full.Primary									
p	j	ε:	n	o	-	-	-	-	-
p	l	e:	n	u	s	-	-	-	-

e: → ěj

Cloud.Primary									
n	u:	b	e:	s	-	-	-	-	-
n	u	v	ěj	-	-	-	-	-	-

e: → ã

ToThink.Pensare									
p	e:	n	s	a:	r	e	-	-	-
p	ã	-	s	e	-	-	-	-	-

## Appendix 2 - Prior Frequencies

ø: → qa

ToSew.Primary							
k	ø:	-	-	z	-	-	-
c	qa	-	-	s	-	e	-

γ → t

Lake.Primary				
l	a	γ	u	-
l	a:	t	-	-

ɔ: → ɐ

ToSplit.Partire						
p	ɔ:	r	t	i	-	-
p	ɐ	r	t	i	r	-

e → ɔ:

Good.Primary					
b	w	e	n	o	-
b	w	ɔ:	n	o	-

e: → ẽj

Cloud.Primary				
n	u:	b	e:	s
n	u	v	ẽj	-

g<sup>w</sup> → b

Tongue.Primary					
l	i	n	g <sup>w</sup>	-	a
l	i	m	b	-	ə

x → dz

Day.Diurnata						
x	-	o	r	n	a	d a
dz	-	o	r	n	a	d e

ø: → ɛa

ToDrink.Primary						
b	-	ø:	-	-	ɸ	-
b	-	ɛa	-	-	-	-

ø → i

Hair.Capillus						
f	ə	v	ø	-	-	-
k	a	p	i	l	l	u s

ø: → ø

Two.Duos			
d	-	ø:	-
d	-	ø	-

ε → u:

Thin.Delicatus							
d	ε	ʔ	-	γ	a	ð	u -
d	u:	-	-	ʒ	e:	-	- -

## Appendix 2 - Prior Frequencies

oj → ɔj

We.Primary					YouPlural.Primary				
n	oj	-	-	-	v	oj	-	-	-
n	ɔj	-	s	-	v	ɔj	s	-	-

œ → a

Woman.Primary					Star.Primary				
f	œ	-	m	-	-	-	s	t	-
f	a	-	m	-	-	-	e	t	w

œ → e:

Woman.Primary					Star.Primary				
f	œ	-	m	-	-	-	s	t	-
f	e:	-	m	i	-	n	-	a	-

j → y

Liver.Primary					Liver.Primary				
f	-	i	j	a:	t	-	f	-	i
-	-	i	y	a	ð	o	-	f	-

t → ʎ

Back.Spatula					Back.Spatula				
-	s	p	a	t	u	l	a	-	s
ə	s	p	a	ʎ	-	ʎ	ə	-	ə

j → ʈ

ToBurn.Flammare					Full.Primary				
f	j	a	m	m	a	r	e	p	j
f	ʈ	a	-	m	a	-	-	p	ʈ

oj → qa

Night.Primary					Night.Primary				
n	-	oj	-	t	i	-	n	-	oj
n	-	qa	p	t	e	-	n	-	qa

b → t

Thin.Subtilis					Thin.Subtilis				
s	u	b	t	i:	l	e	m	s	u
s	o	t	t	i	l	e	-	s	o

aj → a

Sand.Sabulum					Sand.Sabulum				
s	aj	β	-	r	u	-	s	aj	β
s	a	v	-	j	ɔ̃	-	s	a	v

j → kʲ

Eye.Primary					Eye.Primary				
-	œ	-	j	-	-	-	-	u	-
-	o	-	kʲ	-	-	-	-	o	-

t → u

Many.Primary					Many.Primary				
m	ũ	ʃ	-	t	u	-	m	ũ	ʃ
m	u	l	t	u	s	-	m	u	l

## Appendix 2 - Prior Frequencies

oj → y

Night.Primary	Night.Primary
n - oj - t i -	n - oj - t i -
n - y - t - -	n - y - t - -

α → e:

Three.Primary	Three.Primary
t ɾ w α -	t ɾ w α -
t r - e: s	t r - e: -

b → u

ToStand.Levare	ToStand.Levare
j e b a r -	ʎ ə b a - -
l - u a - -	l - u a - -

s → dz

Leaf.Frondea	Leaf.Frondea
f r ɔ̃ - s - e	f r ɔ̃ - s - e
f r o n dz - a	f r o n dz - a

ɥ → o

Rain.Primary	Rain.Primary
p l ɥ - - i -	p l ɥ - - i -
p j o d ɖ - a	p l o - - j e

α → ø:

ToDrink.Primary	Three.Primary
b w α - - ɾ -	t ɾ w α -
b - ø: - - ɾ -	t r - ø: -

k → e

ToRub.Primary	ToRub.Primary
f r i k a: r e	f r e k a - -
f ɾ ej e - - -	f ɾ ej e - - -

s → i

YouPlural.Primary	Head.Primary
v ɔj s -	k a v e t t s a
v o: i -	k a p i - t i a

e → qa

Leaf.Primary	ToKnow.Cognoscere
f w e - - e	k o - ɲ e s - e ɾ -
f - qa - j e	k u - n qa ʃ t e - -

α → aj

Sand.Sabulum	Sand.Sabulum
s α v - j ʃ -	s α v - j ʃ -
s aj β - r u -	s aj β - r u -

e → k

ToRub.Primary	ToRub.Primary
f ɾ ej e - - -	f ɾ ej e - - -
f r i k a: r e	f r e k a - -

## Appendix 2 - Prior Frequencies

t → b

Thin.Subtilis	Thin.Subtilis
s o t t i l e -	s o t t i l e -
s u b t i: l e m	s u b t s i r e -

k → u

Few.Primary	Few.Primary
p o w k u	p o w k u
p aṽ k u s	p aṽ k u s

i: → ʃ

ToPull.Pulsare	ToPull.Pulsare
p u: s i: - - -	p u: s i: - - -
p u - ʃ a r -	p u - ʃ a r -

ʃ → d

ToEat.Manducare	ToEat.Manducare
m a ŋ ʃ - - a: - -	m a ŋ ʃ - - a: - -
m a n d u k a: r e	m a n d u k a r -

a → œ

Woman.Primary	Star.Primary
f a - m - - - -	e - t w a - l -
f œ - m - - - -	- s t - œ - l -

ɲ → l

Animal.Primary	Animal.Primary
a l i m a ɲ - a	a l i m a ɲ - a
a n i m a l i a	- n e m a: l - -

ʃ → dʒ

Leg.Gamba	ToEat.Manducare
ʃ a m b e	m a ŋ ʃ - - a: - -
dʒ ã - p -	m a n dʒ - - a r e

e → ʁ

ToSpit.Primary	ToSpit.Primary
k o n s p u e r e	k ɔ̃ - s p y e - -
k u - s p i ʁ - -	k u - s p i ʁ - -

v → g

Fog.Nebula	Fog.Nebula
n - ε - v w - ɐ	n - ε - v w - ɐ
n - e - g u r ə	n - e - g u r ə

p → k<sup>w</sup>

Water.Primary	Four.Primary
a - p - ə	p - a - t - - r u
a - k <sup>w</sup> - a	k <sup>w</sup> - a t t w o r -

i → ɔ̃

Round.Primary	Round.Primary
r i t o n d o -	r i t o n d o -
ʁ ɔ̃ - - - - -	r ɔ̃ - - - - -

## Appendix 2 - Prior Frequencies

d → tʃ

ToTurnIntransitive.Torquere							ToTurnIntransitive.Torquere						
t	ɔ	ɤ	d	-	ɤ	-	t	ɔ	ɤ	d	-	ɤ	-
t	ɔ	r	tʃ	e	r	e	t	ɔ	r	tʃ	e	-	-

l → ɲ

Animal.Primary							Animal.Primary								
a	n	i	m	a	l	i	a	-	n	e	m	a	l	-	-
a	l	i	m	a	ɲ	-	a	a	l	i	m	a	ɲ	-	a

ij → ẽ

Dog.Primary						Dog.Primary					
k	-	ij	n	e	-	k	-	ij	n	e	-
ʃ	j	ẽ	-	-	-	tʃ	-	ẽ	-	-	-

ij → ẽw̃

Dog.Primary						Dog.Primary					
k	-	ij	n	e	-	k	-	ij	n	e	-
k	-	ẽ	-	-	-	k	-	ẽ	-	-	-
		w̃						w̃			

ʊ → o

Red.Primary						Red.Primary					
ɤ	o	-	ʃ	ʊ	-	ɤ	o	-	ʃ	ʊ	-
r	o	-	x	o	-	r	o	s	s	o	-

i → ẽw̃

Seed.Granum						Seed.Granum					
g	r	i	n	-	-	g	r	i	n	-	-
g	r	ẽ	-	-	-	g	r	ẽ	-	-	-
		w̃						w̃			

e: → ẽ

ToThink.Pensare						Full.Primary						
p	e:	n	s	a:	r	e	p	l	e:	n	u	s
p	ẽ	-	s	e	-	-	p	l	ẽ	-	-	-

r → z

ToPull.Trahere						ToPull.Trahere							
t	r	a	r	-	r	e	t	r	a	r	-	r	e
t	r	a	z	e	-	-	t	r	e	z	e	r	-

e: → ɐ

Day.Primary						Day.Primary					
d	i	e:	s			d	i	e:	s		
d	i	ɐ	-			d	i	ɐ	-		

dz → d

Leaf.Frondea						Day.Diurnata								
f	r	o	n	dz	-	a	dz	-	o	r	n	a	d	e
f	r	o	n	d	e	a	d	i	u	r	n	a	t	a



## Appendix 2 - Prior Frequencies

r → j

Sand.Sabulum	Fog.Nebula
s o - - r ə -	n - e - g u r ə
s a v - j ɔ̃ -	n - e b b - j a

dz → s

Leaf.Frondea	Leaf.Frondea
f r o n dz - a	f r o n dz - a
f r ɔ̃ - s - ɐ	f r ɔ̃ - s - ɐ

e: → a

Three.Primary	Three.Primary
t r - e: s	t r - e: -
t ʁ w a -	t ʁ w a -

d → dz

Leaf.Frondea	Day.Diurnata
f r o n d e a	d i u r n a: t a
f r o n dz - a	dz - o r n a d e

e: → œ

Woman.Primary	Star.Primary
f e: - m i - n - a	- s t - e: l l a
f œ - m - - - -	- s t - œ - l -

ʁ → e

ToSpit.Primary	ToSpit.Primary
k u - s p i ʁ - -	k u - s p i ʁ - -
k o n s p u e r e	k ɔ̃ - s p y e - -

j → z

ToLieAsInABed.Iacere	ToLieAsInABed.Iacere
j a - k e: r e	j e - s i - -
z ə - tʃ ɛ a - -	z ə - tʃ ɛ a - -

i → ɔa

Night.Primary	Night.Primary
n ɥ i - - - -	n - i - t - -
n - ɔa p t e -	n - ɔa p t e -

i → aj

Sky.Primary	Snow.Primary
s - i r - -	n - ε v i -
k - aj l u m	n - i v aj -

j → r

Sand.Sabulum	Fog.Nebula
s a v - j ɔ̃ -	n - e b b - j a
s o - - r ə -	n - e - g u r ə

d → ʃ

ToEat.Manducare	ToEat.Manducare
m a n d u k a: r e	m a n d u k a r -
m a ɲ ʃ - - a: - -	m a ɲ ʃ - - a: - -

## Appendix 2 - Prior Frequencies

i: → o

ToSee.Primary	Because.Quod
v - i: - - R -	k i: -
v j o d i - -	k <sup>w</sup> o d

p → u

Stone.Lapidem	Stone.Lapidem
l a p i d e m	l a p i d e -
l a u - d e -	l a u - d e -

e: → u

Day.Primary	ToSmell.Olere
d i e: s	o l e: r e
dʒ - u -	u l u r a

g → v

Fog.Nebula	Fog.Nebula
n - e - g u r ə	n - e - g u r ə
n - ε - v w - ɐ	n - ε - v w - ɐ

aʊ → w

ToHear.Primary	ToHear.Primary
aʊ - d i: r e	aʊ - z i - -
w - - i ɣ -	w - - i ɣ -

w → z

ToPull.Trahere	ToPull.Trahere
t r ε w - r ə	t r ε w - r ə
t r a z e - -	t r ɐ z e r -

v → z

ToHear.Primary	ToHear.Primary
o w v i ɣ -	o w v i r -
aʊ - z i - -	aʊ - z i - -

w → dʒ

Rain.Primary	ToPull.Trahere
p l u - w i a	t r ε w - r ə
p j o d dʒ - a	t r a dʒ e - -

w → aʊ

ToHear.Primary	ToHear.Primary
w - - i ɣ -	w - - i ɣ -
aʊ - d i: r e	aʊ - z i - -

ɛj → ɐj

Ear.Primary	Red.Vermiculus
ɔ R ɛj - - -	v ε ɣ m ɛj - - -
o r ɐj - - ʌ ɐ	v i r m ɐj - - ʌ u -

i → s

YouPlural.Primary	Head.Primary
v o: i -	k a p i - t i a
v ɔj s -	k a v e t t s a

## Appendix 2 - Prior Frequencies

ɔj → ɔ

We.Primary	Leaf.Primary
n ɔj - s	f - ɔj - -
n ɔ - ʃ	f - ɔ ʌ ʌ a

w → y

ToFlow.Primary	ToFlow.Primary
f l w i ʁ -	f l w i r -
f l y e - -	f l y e - -

kʲ → j

Eye.Primary	Eye.Primary
- o - kʲ - - -	- o - kʲ - - -
- œ - j - - -	- u - j - - -

p → y

Water.Primary	Water.Primary
a - p - ə	a - p - ə
a - y w a	aj - y w ə

ɔj → oj

We.Primary	YouPlural.Primary
n ɔj - s	v ɔj s -
n oj - -	v oj - -

ej → ε

Ear.Primary	Red.Vermiculus
ɔ ʀ ej - - -	v ε ʁ m ej - - -
u r ε - - ʌ ə	b ə r m ε - - ʌ -

iw → ẽw̃

Seed.Granum	Seed.Granum
g r iw - - -	g r iw - - -
g r ẽ - - -	g r ẽ - - -
g r w̃ - - -	g r w̃ - - -

ʈʃ → d

ToTurnIntransitive.Torquere	ToTurnIntransitive.Torquere
t ɔ r ʈʃ e r e	t ɔ a r ʈʃ e - -
t ɔ ʁ d - ʁ -	t ɔ ʁ d - ʁ -

ʃ → i:

ToPull.Pulsare	ToPull.Pulsare
p u - ʃ a r -	p u - ʃ a r -
p u: s i: - - -	p u: s i: - - -

ε → o:

ToKnow.Cognoscere	ToKnow.Cognoscere
k ɔ - n ε - t - ʁ -	k u - n ε ʃ - ə - -
k o g n o: s k e r e	k o g n o: s k e r e

## Appendix 2 - Prior Frequencies

$\tilde{o} \rightarrow \tilde{e}$

Blood.Primary							Blood.Primary						
s	$\hat{o}$	-	g	-	-	-	s	$\hat{o}$	-	g	-	-	-
s	$\tilde{e}$	-	g	-	i	-	s	$\tilde{e}$	-	g	-	i	-

$\lambda \rightarrow o$

Eye.Primary						Eye.Primary					
-	o	-	-	$\lambda$	u	-	-	o	-	-	$\lambda$ u
-	o	-	x	o	-	-	-	o	-	x	o

$\tilde{e}\tilde{w} \rightarrow i$

Seed.Granum						Seed.Granum					
g	r	$\tilde{e}$	-	-	-	g	r	$\tilde{e}$	-	-	-
		$\tilde{w}$						$\tilde{w}$			
g	r	i	n	-	-	g	r	i	n	-	-

$\text{ɔ:} \rightarrow \text{ə}$

ToSplit.Partire						ToStand.Altiare					
p	$\text{ɔ:}$	r	t	i	-	h	$\text{ɔ:}$	-	s	i:	-
p	ə	r	t	i	-	-	ə	l	s	a	-

$\tilde{e}\tilde{w} \rightarrow u$

Not.Primary			Not.Primary		
n	$\tilde{e}$	-	n	$\tilde{e}$	-
	$\tilde{w}$			$\tilde{w}$	
n	u	-	n	u	-

$\tilde{e}\tilde{w} \rightarrow \text{o:}$

Not.Primary			Not.Primary		
n	$\tilde{e}$	-	n	$\tilde{e}$	-
	$\tilde{w}$			$\tilde{w}$	
n	$\text{o:}$	n	n	$\text{o:}$	n

$\tilde{e}\tilde{w} \rightarrow \varepsilon$

Seed.Granum						Seed.Granum					
g	r	$\tilde{e}$	-	-	-	g	r	$\tilde{e}$	-	-	-
		$\tilde{w}$						$\tilde{w}$			
g	ɤ	ε	n	-	-	g	ɤ	ε	n	-	-

$\tilde{e}\tilde{w} \rightarrow \tilde{e}$

Hand.Primary					Hand.Primary				
m	$\tilde{e}$	-	-	-	m	$\tilde{e}$	-	-	-
	$\tilde{w}$					$\tilde{w}$			
m	$\tilde{e}$	-	-	-	m	$\tilde{e}$	-	-	-

$\tilde{e}\tilde{w} \rightarrow i$

Hand.Primary					Hand.Primary				
m	$\tilde{e}$	-	-	-	m	$\tilde{e}$	-	-	-
	$\tilde{w}$					$\tilde{w}$			
m	i	n	ə	-	m	i	n	ə	-

## Appendix 2 - Prior Frequencies

$\tilde{e}\tilde{w} \rightarrow iw$

Seed.Granum					Seed.Granum				
g	r	$\tilde{e}$	-	-	g	r	$\tilde{e}$	-	-
		$\tilde{w}$	-	-			$\tilde{w}$	-	-
g	r	$i\tilde{w}$	-	-	g	r	$i\tilde{w}$	-	-

$\tilde{e}\tilde{w} \rightarrow ij$

Dog.Primary					Dog.Primary				
k	-	$\tilde{e}$	-	-	k	-	$\tilde{e}$	-	-
		$\tilde{w}$	-	-			$\tilde{w}$	-	-
k	-	$ij$	n	e	k	-	$ij$	n	e

$\acute{A} \rightarrow t$

Back.Spatula					Back.Spatula				
$\mathfrak{a}$	s	p	a	$\acute{A}$	$\mathfrak{a}$	s	p	a	$\acute{A}$
-	s	p	a	t	-	s	p	a	t
				u					e

$\tilde{u} \rightarrow u:$

One.Primary				One.Primary			
$\tilde{u}$	-	-	-	$\tilde{u}$	-	-	-
u:	n	u	s	u:	n	u	s

$\hat{u} \rightarrow \tilde{\epsilon}$

ToStab.Primary					ToStab.Primary				
p	-	$\tilde{u}$	ʒ	i	p	-	$\tilde{u}$	ʒ	i
p	w	$\tilde{\epsilon}$	d	ʁ	p	w	$\tilde{\epsilon}$	d	ʁ

$\mathfrak{d}\mathfrak{z} \rightarrow \mathfrak{r}$

Leg.Gamba				ToEat.Manducare			
$\mathfrak{d}\mathfrak{z}$	$\tilde{a}$	p	-	m	a	n	$\mathfrak{d}\mathfrak{z}$
$\mathfrak{r}$	a	m	b	m	a	ŋ	$\mathfrak{r}$
		e				a:	

$\mathfrak{z} \rightarrow \mathfrak{o}$

Good.Primary				Good.Primary			
b	w	$\mathfrak{z}$	n	b	w	$\mathfrak{z}$	n
b	-	$\mathfrak{o}$	n	b	-	$\mathfrak{o}$	n

$\mathfrak{d}\mathfrak{z} \rightarrow \mathfrak{r}$

ToFlow.Excurrere					ToFlow.Currere				
-	s	k	u	$\mathfrak{d}\mathfrak{z}$	k	u	$\mathfrak{r}$	$\mathfrak{d}\mathfrak{z}$	e
i	f	k	u	$\mathfrak{r}$	k	$\mathfrak{o}$	-	$\mathfrak{r}$	i

$\mathfrak{z} \rightarrow \mathfrak{o}$

ToStand.Altiare				Good.Primary			
h	$\mathfrak{z}$	-	s	b	w	$\mathfrak{z}$	n
-	$\mathfrak{o}$	-	s	b	-	$\mathfrak{o}$	n

$\mathfrak{o} \rightarrow \mathfrak{o}j$

We.Primary			Leaf.Primary		
n	$\mathfrak{o}$	f	f	$\mathfrak{o}$	$\acute{A}$
n	$\mathfrak{o}j$	s	f	$\mathfrak{o}j$	$\acute{A}$

## Appendix 2 - Prior Frequencies

ɔ → ɔ:

Good.Primary						Good.Primary					
b	-	ɔ	n	-	-	b	-	ɔ	n	-	-
b	w	ɔ:	n	o	-	b	w	ɔ:	n	o	-

ɔɜ → c

Hair.Capillus						ToSuck.Primary					
ɔɜ	i	v	ɛ	-	-	s	u	ɔɜ	e	-	-
c	a	v	eɜ	-	-	c	u	c	a:	-	-

aj → ə

ToKill.Primary						Two.Duae					
n	w	aj	-	e	-	d	u	-	aj	-	-
n	-	ə	g	a	-	d	o	w	ə	-	-

ə → ɔ:

ToSplit.Partire						ToStand.Altiare					
p	ə	r	t	i	-	-	ə	l	s	a	-
p	ɔ:	r	t	i	-	-	h	ɔ:	-	s	i:

ə → ɛ:

Fog.Tenebras						ToFall.Primary					
t	-	ə	n	-	e	b	r	ə	s	-	-
t	-	ɛ:	n	-	e	b	r	e	-	-	-

o: → ẽwĩ

Not.Primary			Not.Primary		
n	o:	n	n	o:	n
n	ẽ	-	n	ẽ	-
wĩ	-	-	wĩ	-	-

ũ → õ

One.Primary			One.Primary		
ũ	-	-	ũ	-	-
õ	-	-	õ	-	-

ə → əj

ToSmell.Fragrare						ToBurn.Cremare					
f	l	ə	j	r	a	k	r	ə	m	a	-
f	-	əj	-	r	a	k	-	əj	m	a	e

ĩ → u

ToSwell.Primary						ToSwell.Primary					
ĩ	-	f	-	a	r	ĩ	-	f	-	a	r
u	m	f	l	a	-	u	m	f	l	a	-

ẽ → əj

Full.Primary						Full.Primary					
p	l	ẽ	-	-	-	p	l	ẽ	-	-	-
f	-	əj	-	u	-	f	-	əj	-	u	-

ɣ → j

Liver.Primary						Liver.Primary					
-	-	i	ɣ	a	ð	f	-	i	ɣ	e	ð
f	-	i	j	a:	t	f	-	i	j	a:	t

## Appendix 2 - Prior Frequencies

ø: → a

ToDrink.Primary						Three.Primary					
b	-	ø:	-	-	ʁ	-	t	r	-	ø:	-
b	w	a	-	-	ʁ	-	t	ʁ	w	a	-

ø: → ej

Narrow.Strictus										Straight.Primary									
-	s	t	ʁ	-	ø:	-	-	-	-	d	-	r	-	ø:	-	-	-	-	-
i	ʃ	t	r	-	ej	-	-	t	u	d	i	r	-	ej	-	t	u	-	-

ø: → i

ToDrink.Primary						Narrow.Strictus									
b	-	ø:	-	-	ʁ	-	-	s	t	ʁ	-	ø:	-	-	-
b	-	i	β	e	r	-	-	s	t	r	-	i	m	-	t

θ → k<sup>w</sup>

ToTurnIntransitive.Torquere										Five.Primary					
t	o	r	θ	e	r	-	-	-	-	θ	i	n	k	-	o
t	o	r	k <sup>w</sup>	e:	r	e	-	-	-	k <sup>w</sup>	i:	n	k <sup>w</sup>	-	e

ø: → o:

ToSew.Primary						Two.Duos					
k	ø:	-	-	z	-	d	-	ø:	-	-	-
k	o:	n	-	s	u	d	u	o:	s	-	-

ʏ → p

Water.Primary						Water.Primary					
a	-	ʏ	w	a	-	aj	-	ʏ	w	ə	-
a	-	p	-	ə	-	a	-	p	-	ə	-

ʏ → k<sup>w</sup>

Water.Primary						Water.Primary					
a	-	ʏ	w	a	-	aj	-	ʏ	w	ə	-
a	-	k <sup>w</sup>	-	a	-	a	-	k <sup>w</sup>	-	a	-

ẽ → ẽw̃

Hand.Primary						Hand.Primary					
m	ẽ	-	-	-	-	m	ẽ	-	-	-	-
m	ẽ	-	-	-	-	m	ẽ	-	-	-	-
	w̃	-	-	-	-		w̃	-	-	-	-

c → dʒ

Hair.Capillus						ToSuck.Primary					
c	a	v	ej	-	-	c	u	c	a:	-	-
dʒ	i	v	ε	-	-	s	u	dʒ	e	-	-

ε: → ej

Full.Primary						Full.Primary					
p	j	ε:	n	o	-	p	j	ε:	n	o	-
ʃ	-	ej	-	u	-	ʃ	-	ej	-	u	-

## Appendix 2 - Prior Frequencies

$\varepsilon \rightarrow \text{e}$

ToFall.Primary						ToFall.Primary					
ʃ	-	ε:	-	-	R	ʃ	-	ε:	-	-	R
k	-	e	-	i	r	k	-	e	-	i	r

$\tilde{\varepsilon} \rightarrow \text{ij}$

Dog.Primary						Dog.Primary					
ʃ	j	$\tilde{\varepsilon}$	-	-	-	ʃ	-	$\tilde{\varepsilon}$	-	-	-
k	-	ij	n	e	-	k	-	ij	n	e	-

$\tilde{o} \rightarrow \text{i}$

Round.Primary						Round.Primary					
ʁ	$\tilde{o}$	-	-	-	-	r	$\tilde{o}$	-	-	-	-
r	i	t	o	n	d	r	i	t	o	n	d

$\tilde{o} \rightarrow \tilde{u}$

One.Primary				One.Primary			
$\tilde{o}$	-	-	-	$\tilde{o}$	-	-	-
$\tilde{u}$	-	-	-	$\tilde{u}$	-	-	-

$\tilde{o} \rightarrow \text{i}$

Round.Primary						Round.Primary					
ʁ	$\tilde{o}$	-	-	-	-	r	$\tilde{o}$	-	-	-	-
ʁ	i	d	$\tilde{o}$	-	d	ʁ	i	d	$\tilde{o}$	-	d

$\varepsilon \rightarrow \text{ej}$

Ear.Primary						Red.Vermiculus					
u	r	ε	-	-	Λ	b	ə	r	m	ε	-
ɔ	R	ej	-	-	-	v	ε	ʁ	m	ej	-

$\tilde{a} \rightarrow \text{o}$

How.Quomodo						How.Quomodo					
k	ɔ	m	$\tilde{a}$	-	-	k	ɔ	m	$\tilde{a}$	-	-
k <sup>w</sup>	o:	m	o	d	o	k	o	m	o	-	-

$z \rightarrow \text{v}$

ToHear.Primary						ToHear.Primary					
aʊ	-	z	i	-	-	aʊ	-	z	i	-	-
o	w	v	i	ʁ	-	o	w	v	i	r	-

$\tilde{e} \rightarrow \tilde{o}$

Blood.Primary						Blood.Primary					
s	$\tilde{e}$	-	g	-	i	s	$\tilde{e}$	-	g	-	i
s	$\tilde{o}$	-	g	-	-	s	$\tilde{o}$	-	g	-	-

$z \rightarrow \text{j}$

ToLieAsInABed.Iacere						ToLieAsInABed.Iacere					
z	ə	-	ʃ	ea	-	z	ə	-	ʃ	ea	-
j	a	-	k	e:	r	j	e	-	s	i	-

$\tilde{\varepsilon} \rightarrow \text{e:}$

ToThink.Pensare						Full.Primary					
p	$\tilde{\varepsilon}$	-	s	e	-	p	l	$\tilde{\varepsilon}$	-	-	-
p	e:	n	s	a:	r	p	l	e:	n	u	s



## Appendix 2 - Prior Frequencies

z → w

ToPull.Trahere						ToPull.Trahere					
t	r	a	z	e	-	t	r	ɐ	z	e	r
t	r	ɛ	w	-	r	ə	t	r	ɛ	w	-

z → r

ToPull.Trahere						ToPull.Trahere					
t	r	a	z	e	-	t	r	ɐ	z	e	r
t	r	a	r	-	r	e	t	r	a	r	-

ɛ → ẽwĩ

Seed.Granum						Seed.Granum					
g	ɤ	ɛ	n	-	-	g	ɤ	ẽ	n	-	-
g	r	ẽ	-	-	-	g	r	ẽ	-	-	-
		wĩ						wĩ			

ẽ → ù

ToStab.Primary						ToStab.Primary					
p	w	ẽ	-	d	ɤ	p	w	ẽ	-	d	ɤ
p	-	ù	-	ʒ	i	p	-	ù	-	ʒ	i

ɛ: → ə

Fog.Tenebras						ToFall.Primary					
t	-	ɛ:	n	-	e	b	r	e	-		
t	-	ə	n	-	e	b	r	ə	s		

o: → ø

Few.Primary				Two.Duos			
p	o:	k	-	d	u	o:	s
p	ø	-	-	d	-	ø	-

ø → o:

Few.Primary				Two.Duos			
p	ø	-	-	d	-	ø	-
p	o:	k	-	d	u	o:	s

o: → ø:

ToSew.Primary						Two.Duos			
k	o:	n	-	s	u	e	r	e	
k	ø:	-	-	z	-	-	-	-	

u: → ù

One.Primary				One.Primary			
u:	n	u	s	u:	n	u	s
ù	-	-	-	ù	-	-	-

u: → ø

Moon.Primary				Fire.Focus			
l	u:	n	a	f	-	u:	k
l	ø	n	-	f	-	ø	-

## Appendix 2 - Prior Frequencies

y → oj

Night.Primary					Night.Primary						
n	-	y	-	t	n	-	y	-	t		
n	-	oj	-	t	i	n	-	oj	-	t	i

y → w

ToFlow.Primary					ToFlow.Primary				
f	l	y	e	-	f	l	y	e	-
f	l	w	i	ɜ	f	l	w	i	r

ej → ε:

Full.Primary					Full.Primary				
f	-	ej	-	u	f	-	ej	-	u
p	j	ε:	n	o	p	j	ε:	n	o

k<sup>w</sup> → ɣ

Water.Primary					Water.Primary				
a	-	k <sup>w</sup>	-	a	a	-	k <sup>w</sup>	-	a
a	-	ɣ	w	a	aj	-	ɣ	w	ə

ej → ø:

Narrow.Strictus					Straight.Primary				
i	ɜ	t	r	-	ej	-	-	t	u
-	s	t	ɜ	-	ø:	-	-	-	-

u → b

ToStand.Levare					ToStand.Levare				
l	-	u	a	-	l	-	u	a	-
j	e	b	a	r	ɰ	ə	b	a	-

ə → aj

ToKill.Primary					Two.Duae				
n	-	ə	g	a	d	o	w	ə	
n	w	aj	-	e	d	u	-	aj	

u → ĩ

ToSwell.Primary					ToSwell.Primary				
u	m	f	l	a	u	m	f	l	a
ĩ	-	ɜ	-	a	ĩ	-	ɜ	-	a

ʈʂ → h

Bird.Avicellum					Bird.Avicellum				
-	-	u	-	ʈʂ	-	ε	l	l	o
-	-	u	-	h	-	ε	-	-	-

ʃ → j

Rain.Primary					Rain.Primary				
ʃ	-	u	-	v	ʃ	-	u	-	v
j	-	u	-	b	j	-	u	-	b

ej → ẽ

Full.Primary					Full.Primary				
ɜ	-	ej	-	u	ɜ	-	ej	-	u
p	l	ẽ	-	-	p	l	ẽ	-	-

## Appendix 2 - Prior Frequencies

u → ẽw̃

Not.Primary			Not.Primary		
n	u	-	n	u	-
n	ẽ	-	n	ẽ	-
	w̃			w̃	

ej → ə

ToSmell.Fragrare							ToBurn.Cremare							
f	-	ej	-	r	a	r	-	k	-	ej	m	a	r	e
f	l	ə	j	r	a	-	-	k	r	ə	m	a	-	-

u → p

Stone.Lapidem							Stone.Lapidem						
l	a	u	-	d	e	-	l	a	u	-	d	e	-
l	a	p	i	d	e	m	l	a	p	i	d	e	-

qa → i

Night.Primary							Night.Primary						
n	-	qa	p	t	e	-	n	-	qa	p	t	e	-
n	u	i	-	-	-	-	n	-	i	-	t	-	-

ej → ej

Ear.Primary						Red.Vermiculus										
o	r	ej	-	-	ʌ	ɐ	v	i	r	m	ej	-	-	ʌ	u	-
ɔ	ʀ	ej	-	-	-	-	v	ɛ	ʁ	m	ej	-	-	-	-	-

u → k

Few.Primary					Few.Primary				
p	aʊ	k	u	s	p	aʊ	k	u	s
p	o	w	k	u	p	o	w	k	u

u → t

Many.Primary						Many.Primary					
m	u	l	t	u	s	m	u	l	t	u	s
m	ũ	ʃ	-	t	u	m	ũ	ʃ	-	t	u

k<sup>w</sup> → p

Water.Primary					Four.Primary									
a	-	k <sup>w</sup>	-	a	k <sup>w</sup>	-	a	t	t	w	o	r	-	
a	-	p	-	ə	p	-	a	-	t	-	-	r	u	

qa → e

Leaf.Primary					ToKnow.Cognoscere										
f	-	qa	-	j	e	k	u	-	n	qa	ʃ	t	e	-	-
f	w	e	-	-	e	k	o	-	n	e	s	-	e	ʁ	-

k<sup>w</sup> → θ

ToTurnIntransitive.Torquere					Five.Primary				
t	o	r	k <sup>w</sup>	e: r e	k <sup>w</sup>	i:	n	k <sup>w</sup>	- e
t	o	r	θ	e r -	θ	i	n	k	- o

## Appendix 2 - Prior Frequencies

u → e:

Day.Primary	ToSmell.Olere
ɔ̯ - u -	u l u r a
d i e: s	o l e: r e

ø → u:

Moon.Primary	Fire.Focus
l ø n -	f - ø - -
l u: n a	f - u: k - -

o → i:

ToSee.Primary	Because.Quod
v j o d i - -	k <sup>w</sup> o d
v - i: - - R -	k i: -

o → ɔ:

ToStand.Altiare	Good.Primary
- o - s e - -	b - o n u s
h ɔ: - s i: - -	b w ɔ: n o -

aj → a:

Father.Primary	Father.Primary
p aj - - -	p aj - - -
p a: d r e	p a: d r e

o: → ε

ToKnow.Cognoscere	ToKnow.Cognoscere
k o g n o: s k e r e	k o g n o: s k e r e
k ɔ - n ε - t - ʁ -	k u - n ε f - ə - -

aj → i

Sky.Primary	Snow.Primary
k - aj l u m	n - i v aj -
s - i r - -	n - ε v i -

e → e:

Day.Primary	Day.Primary
d i e -	d i e -
d i e: s	d i e: s

o → ɥ

Rain.Primary	Rain.Primary
p j o d ɔ̯ - a	p l o - - j e
p l ɥ - - i -	p l ɥ - - i -

e → ε:

ToFall.Primary	ToFall.Primary
k - e - i r -	k - e - i r -
ʃ - ε: - - R -	ʃ - ε: - - R -

a: → aj

Father.Primary	Father.Primary
p a: d r e	p a: d r e
p aj - - -	p aj - - -

## Appendix 2 - Prior Frequencies

ɔ̥ → w

Rain.Primary							ToPull.Trahere						
p	j	o	d	ɔ̥	-	a	t	r	a	ɔ̥	e	-	-
p	l	u	-	w	i	a	t	r	ɛ	w	-	r	ə

ɪ → j

ToBurn.Flammare							Full.Primary						
f	ɪ	a	-	m	a	-	p	ɪ	ε	-	-	-	
f	j	a	m	m	a	r	e	p	j	ε:	n	o	-

o → ʌ

Eye.Primary							Eye.Primary							
-	o	-	x	-	o	-	-	o	-	x	-	o	-	-
-	o	-	-	-	ʌ	u	-	-	o	-	-	ʌ	u	-

o → ʊ

Red.Primary						Red.Primary					
r	o	-	x	o	-	r	o	s	s	o	-
ʁ	o	-	ʃ	ʊ	-	ʁ	o	-	ʃ	ʊ	-

i → ø:

ToDrink.Primary							Narrow.Strictus										
b	-	i	β	e	r	-	-	s	t	r	-	i	m	-	t	-	-
b	-	ø:	-	-	ʁ	-	-	s	t	ʁ	-	ø:	-	-	-	-	-

i → ɔ̃

Round.Primary							Round.Primary								
ʁ	i	d	õ	-	d	u	-	ʁ	i	d	õ	-	d	u	-
ʁ	õ	-	-	-	-	-	-	r	õ	-	-	-	-	-	-

j → ʃ

Rain.Primary						Rain.Primary							
j	-	u	-	b	j	a	j	-	u	-	b	j	a
ɟ	-	u	-	v	-	ɐ	ɟ	-	u	-	v	-	ɐ

ɔa → oj

Night.Primary						Night.Primary							
n	-	ɔa	p	t	e	-	n	-	ɔa	p	t	e	-
n	-	oj	-	t	i	-	n	-	oj	-	t	i	-

i → ẽw̃

Hand.Primary						Hand.Primary					
m	i	n	ə	-	-	m	i	n	ə	-	-
m	ẽ	-	-	-	-	m	ẽ	-	-	-	-
	w̃	-	-	-	-		w̃	-	-	-	-

ʀ → ɔ̥

ToFlow.Excurrere										ToFlow.Currere									
i	-	ʃ	k	u	-	ʀ	e	r	-	k	ɔ̥	-	ʀ	i	-	-			
-	-	s	k	u	r	ɔ̥	e	-	-	k	u	r	ɔ̥	e	-	-			

## Appendix 2 - Prior Frequencies

o → ã

How.Quomodo	How.Quomodo
k <sup>w</sup> o: m o d o	k o m o - -
k ɔ m ã - -	k ɔ m ã - -

h → ʃ

Bird.Avicellum	Bird.Avicellum
- - u - - h - ε - - - -	- - u - - h - ε - - - -
- - u - t ʃ - ε l l o -	- - u - - ʃ j ε - l - -

r → t

ToSqueeze.Appectorare	ToSqueeze.Appectorare	ToSqueeze.Appectorare
a - p - - r e t a r -	ɐ - p i - r - t a r -	ɐ - p i - r - t a r -
a p p e k t o r a: r e	a p p e k t o r a: r e	a p p e k t o r a: r e

r → j

Mouth.Gula	Sand.Sabulum	Sand.Sabulum
g u r ə	s a j β - r u -	s a j β - r u -
g œ j -	s a v - j ɔ̃ -	s a v - j ɔ̃ -

r → e

ToSpit.Primary	ToSpit.Primary	Big.Majorem
k u - ʃ p i r - -	k u - ʃ p i r - -	m a - - - r e
k o n s p u e r e	k ɔ̃ - s p y e - -	m a j j o: r e m

β → f

Head.Primary	Head.Primary	New.Primary
k a β e - θ - a	k ɐ β e - s - ɐ	n w e β o -
c a: f - - - -	c a: f - - - -	j n - u: f - -

θ → ts

Belly.Pantex	ToStand.Altiare	Cold.Recens
p a n θ - - a -	- a l θ a r -	r e θ j e n t e -
p a n ts - - e -	- a l ts a r e	r e ts - i n t - -

ð → dʒ

ToSplit.Primary	Smooth.Nitidus	Smooth.Nitidus
d i v i ð i r -	n i ð i - o -	n i ð i - o -
dʒ i v i dʒ i ɐ -	n ε dʒ u - - -	n ε dʒ u - - -

f → p

Head.Primary	Head.Primary	Head.Primary
c a: f - - - -	c a: f - - - -	c a: f - - - -
k a p i - t i a	k a p - - - -	k a p - - - -

z → h

Bird.Avicellum	ToPull.Trahere	ToPull.Trahere
w a - - - z - o - - -	t r a z e - -	t r ɐ z e r -
- - u - - h - ε - - -	t r a h e r e	t r a h e r e

g → e

ToRub.Primary	ToRub.Primary	ToRub.Primary
f r e g a r -	f r e g a r e	f r ə g a - -
f ɐ ɛ j e - - -	f ɐ ɛ j e - - -	f ɐ ɛ j e - - -

## Appendix 2 - Prior Frequencies

ɖ → ð

ToSplit.Primary	Smoother.Nitidus	Smoother.Nitidus
ɖ i v i ɖ i ɣ - d i v i ð i r -	n ε ɖ u - - - n i ð i - o -	n ε ɖ u - - - n i ð i - o -

g → ɲ

Knee.Genuculum	ToFight.Primary	Big.Primary
g - e n i - k u l u m ɲ - - ɲ ɔ - - -	p u g n a: r e p u ɲ ɲ a r e	m a g n u s m a ɲ ɲ o -

ɣ → t

Round.Primary	Round.Primary	Round.Primary
ɣ ð - - - t - - t a r ɔ n t - -	ɣ e d ð - d u - t a r ɔ n t - -	ɣ i d ð - d u - t a r ɔ n t - -

g → p

Water.Primary	Water.Primary	Water.Primary
a - g w e a - p - ə	a - g w e a - p - ə	a - g - e a - p - ə

ɖ → s

ToSuck.Primary	ToSuck.Primary	ToWipe.Extergere
s u ɖ e - - s y s e - -	s u ɖ e - - s y s i: - -	- - ʃ t e r ɖ e - - e - s t a r s i r -

ɖ → ɲ

Knee.Genuculum	Knee.Genuculum	Knee.Genuculum
ɖ - i n ɔ k k - j o - ɲ - - ɲ ɔ - - -	ɖ - e n o - - - l i - ɲ - - ɲ ɔ - - -	ɖ - e n u n k <sup>l</sup> - - - ɲ - - ɲ ɔ - - -

h → z

Bird.Avicellum	ToPull.Trahere	ToPull.Trahere
- - u - - h - ε - - - w a - - - z - o - - -	t r a h e r e t r a z e - -	t r a h e r e t r ɐ z e r -

k<sup>l</sup> → x

Eye.Primary	Knee.Genuculum	Old.Primary
- o - k <sup>l</sup> - - - - - o - x - o - - -	ɖ - e n u n k <sup>l</sup> - - - - - i n o - x o - - -	v - e k <sup>l</sup> - - - - b j e x o - - -

g → k<sup>w</sup>

Water.Primary	Water.Primary	Water.Primary
a - g w e a - k <sup>w</sup> - a	a - g w e a - k <sup>w</sup> - a	a - g - e a - k <sup>w</sup> - a

d → ʎ

Back.Spatula	Back.Spatula	Back.Spatula
e s p a l - d a ə s p a ʎ - ʎ ə	i f p a d w - e ə s p a ʎ - ʎ ə	i f p a d w - e ə s p a ʎ - ʎ ə

ʎ → d

Back.Spatula	Back.Spatula	Back.Spatula
ə s p a ʎ - ʎ ə e s p a l - d a	ə s p a ʎ - ʎ ə i f p a d w - e	ə s p a ʎ - ʎ ə i f p a d w - e

## Appendix 2 - Prior Frequencies

$x \rightarrow k^j$

Eye.Primary	Knee.Genuculum	Old.Primary
- o - x - o - -	- - i n o - x o - - -	b j e x o - - - -
- o - k <sup>j</sup> - - - -	ɔ̃ - e n u n k <sup>j</sup> - - - -	v - e k <sup>j</sup> - - - - -

$p \rightarrow f$

Head.Primary	Head.Primary	Head.Primary
k a p i - t i a	k a p - - - - -	k a p - - - - -
c a: f - - - - -	c a: f - - - - -	c a: f - - - - -

$ɥ \rightarrow w$

ToThink.Primary	ToKill.Tutari	ToFloat.Primary
k ɥ - - i d e - -	t - ɥ - e - - -	f l y k t ɥ e - -
k w - - i d a r -	t u w - e - - -	f l u g t w a r -

$p \rightarrow g$

Water.Primary	Water.Primary	Water.Primary
a - p - ə	a - p - ə	a - p - ə
a - g w ɐ	a - g w ɐ	a - g - e

$f \rightarrow \beta$

Head.Primary	Head.Primary	New.Primary
c a: f - - - - -	c a: f - - - - -	ɲ - u: f - -
k a β e - θ - a	k ɐ β e - s - ɐ	n w e β o -

$k^w \rightarrow g$

Water.Primary	Water.Primary	Water.Primary
a - k <sup>w</sup> - a	a - k <sup>w</sup> - a	a - k <sup>w</sup> - a
a - g w ɐ	a - g w ɐ	a - g - e

$ts \rightarrow \theta$

Belly.Pantex	ToStand.Altiare	Cold.Recens
p a n ts - - e -	- a l ts a r e	r e ts - i n t - -
p a n θ - - a -	- a l θ a r -	r e θ j e n t e -

$ej \rightarrow \emptyset$ :

Narrow.Strictus	Straight.Primary	Three.Primary
i s t r - ej - - t u -	ɔ̃ i r - ej - t u -	t r - ej -
- s t ʁ - ø: - - - -	d - r - ø: - - - -	t r - ø: -

$t \rightarrow Ɂ$

Round.Primary	Round.Primary	Round.Primary
t a r ɔ̃ n t - -	t a r ɔ̃ n t - -	t a r ɔ̃ n t - -
Ɂ ð - - - - -	Ɂ e d ð - d u -	Ɂ i d ð - d u -

$\emptyset: \rightarrow i$

ToDrink.Primary	Narrow.Strictus	Straight.Primary
b - ø: - - Ɂ -	- s t Ɂ - ø: - - - -	d - r - ø: - - - -
b - i b e r e	- s t r - i - k t u s	d - r - i t t o -

$\emptyset: \rightarrow a$

ToKnow.Sapere	Narrow.Strictus	Straight.Primary
s a v - ø: Ɂ -	- s t Ɂ - ø: - - - -	d - r - ø: - - - -
s a v w a Ɂ -	e - t Ɂ w a - - - -	d - Ɂ w a - - - -



## Appendix 2 - Prior Frequencies

ø: → o

ToSew.Primary	Two.Duos	Two.Duos
k ø: - - z - - -	d - ø: -	d - ø: -
k o - - s - e r -	d - o s	d - o s

ø: → ej

Narrow.Strictus	Straight.Primary	Three.Primary
- s t ʁ - ø: - - - -	d - r - ø: - - - -	t r - ø: -
i s t r - ej - - t u -	ɖʒ i r - ej - t u -	t r - ej -

ø → ε

Hair.Capillus	Hair.Capillus	Old.Primary
ʃ ə v ø - - - -	ʃ ə v ø - - - -	v j ø - - - -
k ə b ε - ʌ - -	ɖʒ i v ε - - - -	v - ε k - k j o

ẽ → e:

ToThink.Pensare	ToThink.Pensare	Full.Primary
p ẽ - s a ʁ - -	p ẽ - s a r - -	p l ẽ - - - -
p e: n s a: r e	p e: n s a: r e	p l e: n u s

ẽ → i:

Near.Vicinus	Five.Primary	Five.Primary
v - i ʒ ẽ - - - -	s ẽ - k - - - -	s ẽ - k - - - -
w - i: k i: n u s	k <sup>w</sup> i: n k <sup>w</sup> - e	k <sup>w</sup> i: n k <sup>w</sup> - e

ẽ → u

ToWipe.Exsucare	ToWipe.Exsucare	ToSwell.Primary
ẽ - ʃ - u g - a r -	ẽ - ʃ - u ɣ - a r -	ẽ - f l e - - -
u - s - - k - a - -	u - s - - k - a - -	u m f l a - - -

ẽ → ej

Breast.Primary	Full.Primary	Full.Primary
s ẽ - - - -	p l ẽ - - - -	p l ẽ - - - -
s ej - u -	ʃ - ej - u -	ʃ - ej - u -

õ → au

ToHear.Primary	ToHear.Primary	Few.Primary
õ - - - ʀ - -	õ - - - ʀ - -	p õ - - - s
au - d i: r e	au - z i - - -	p au k u s

ã → u

ToSwell.Primary	How.Quomodo	How.Quomodo
ã - f l e - - -	k ɔ m ã - - -	k ɔ m ã - - -
u m f l a - - -	k o m u - - -	k o m u - - -

ε → j

Skin.Pellis	Skin.Pellis	Skin.Pellis
p ε - - - - -	p ε - - - - -	p ε - - - - -
p j e - l - - -	p j ε - l - - -	p j e - l e - -

ẽ → a:

Grass.Gramen	Guts.Primary	Mountain.Montanea
g r ẽ m ɐ - -	i - t - r ẽ ɲ - ɐ	m õ - t ẽ - ɲ - ɐ
g r a: m e n	i n t e r a: n e a	m o n t a: - n e a

## Appendix 2 - Prior Frequencies

$\tilde{e} \rightarrow i$ :

Road.Camminus	Road.Camminus	Near.Vicinus
f ə - m <b><math>\tilde{e}</math></b> - - -	ʃ i - m <b><math>\tilde{e}</math></b> - - -	v w a z <b><math>\tilde{e}</math></b> - - -
k a m m i: n u m	k a m m i: n u m	w - i: k i: n u s

$\tilde{i} \rightarrow ə$

Guts.Primary	ToBurn.Incendere	ToBurn.Incendere
<b><math>\tilde{i}</math></b> - t - r <b><math>\tilde{e}</math></b> ɲ - ɐ	<b><math>\tilde{i}</math></b> - s e n dʒ ɾ a r -	<b><math>\tilde{i}</math></b> - s <b><math>\tilde{e}</math></b> - d j a r -
ə n t - r a ɲ - ə	ə n s e n d - - r ə	ə n s e n d - - r ə

$ə \rightarrow \tilde{i}$

Guts.Primary	ToBurn.Incendere	ToBurn.Incendere
ə n t - r a ɲ - ə	ə n s e n d - - r ə	ə n s e n d - - r ə
<b><math>\tilde{i}</math></b> - t - r <b><math>\tilde{e}</math></b> ɲ - ɐ	<b><math>\tilde{i}</math></b> - s e n dʒ ɾ a r -	<b><math>\tilde{i}</math></b> - s <b><math>\tilde{e}</math></b> - d j a r -

$e \rightarrow \tilde{e}$

Grass.Gramen	Guts.Primary	Mountain.Montanea
g r <b>e</b> m e -	<b><math>\tilde{e}</math></b> - t - r <b>e</b> ɲ - ɐ	m <b><math>\tilde{o}</math></b> - t <b>e</b> ɲ - ɐ
g r <b><math>\tilde{e}</math></b> m e -	<b><math>\tilde{i}</math></b> - t - r <b><math>\tilde{e}</math></b> ɲ - ɐ	m <b><math>\tilde{o}</math></b> - t <b><math>\tilde{e}</math></b> ɲ - ɐ

$i \rightarrow e$ :

Hair.Primary	ToSplit.Separare	ToSwell.Crescere
p - <b>i</b> l u -	s <b>i</b> p e r a r -	k r - <b>i</b> f s e r -
p - <b>e</b> : l - -	s <b>e</b> : p a r a: r e	k r - <b>e</b> : s k e: r e

$y \rightarrow o$

Feather.Primary	Night.Primary	Night.Primary
p l <b>y</b> m -	n - <b>y</b> - t - -	n - <b>y</b> - t - -
p l o m ə	n - <b>o</b> c t e m	n - <b>o</b> - ʃ e -

$y \rightarrow ɔ$

Feather.Primary	Night.Primary	Night.Primary
p l <b>y</b> m -	n - <b>y</b> - t - -	n - <b>y</b> - t - -
p l <b>ɔ</b> m -	n - <b>ɔ</b> t t e -	ɲ - <b>ɔ</b> - t - -

$y \rightarrow \varepsilon$

River.Rivus	Fog.Nebula	Fog.Nebula
ʁ <b>y</b> - - -	n j <b>y</b> - - l -	n j <b>y</b> - - l -
r <b>ε</b> - - -	n - <b>ε</b> - v w - ɐ	n - <b>ε</b> - v w - ɐ

$ej \rightarrow \tilde{e}$

Breast.Primary	Full.Primary	Full.Primary
s ej - u -	ʃ - ej - u -	ʃ - ej - u -
s <b><math>\tilde{e}</math></b> - - -	p l <b><math>\tilde{e}</math></b> - - -	p l <b><math>\tilde{e}</math></b> - - -

$ɔa \rightarrow a$

Woman.Domina	Woman.Domina	BarkOfATree.Skorteia
d <b>ɔa</b> m - n ə	d <b>ɔa</b> m - n ə	- s k - <b>ɔa</b> r ts - ə
d a m - - -	d a m - - -	- s k w a r ts - e

$ɔa \rightarrow \text{œ}$

Leaf.Primary	Flower.Primary	Flower.Primary
f - <b>ɔa</b> - j e	f l <b>ɔa</b> r e -	f l <b>ɔa</b> r e -
f - <b>œ</b> j - -	f l <b>œ</b> ʁ - -	f l <b>œ</b> r - -

## Appendix 2 - Prior Frequencies

$\tilde{e} \rightarrow e$

Grass.Gramen	Guts.Primary	Mountain.Montanea
g r <b><math>\tilde{e}</math></b> m e - g r e m e -	$\tilde{i}$ - t - r <b><math>\tilde{e}</math></b> n - e $\tilde{e}$ - t - r e n - e	m $\tilde{o}$ - t <b><math>\tilde{e}</math></b> - n - e m $\tilde{o}$ - t e - n - e

$\text{qa} \rightarrow \text{au}$

Tail.Primary	Tail.Primary	Tail.Primary
c <b>qa</b> d a k <b>au</b> d a	c <b>qa</b> d a k <b>au</b> d e	c <b>qa</b> d a k <b>au</b> d e

$\varepsilon \rightarrow \text{œ}$

Woman.Primary	Star.Primary	Star.Primary
f $\varepsilon$ - m i - n - $\varepsilon$ f <b>œ</b> - m - - - -	$\text{ə}$ s t - $\varepsilon$ - l - - s t - <b>œ</b> - l -	- s t - $\varepsilon$ - l e - s t - <b>œ</b> - l -

$\varepsilon \rightarrow \emptyset$

Hair.Capillus	Hair.Capillus	Old.Primary
k $\text{ə}$ b $\varepsilon$ - $\Lambda$ - - f $\text{ə}$ v <b><math>\emptyset</math></b> - - - -	$\text{dʒ}$ i v $\varepsilon$ - - - - f $\text{ə}$ v <b><math>\emptyset</math></b> - - - -	v - $\varepsilon$ k - k j o v j <b><math>\emptyset</math></b> - - - -

$e \rightarrow r$

ToSpit.Primary	ToSpit.Primary	Big.Majjorem
k o n s p u <b>e</b> r e k u - f p i <b>r</b> - -	k $\tilde{o}$ - s p y <b>e</b> - - k u - f p i <b>r</b> - -	m a j j o: r <b>e</b> m m a - - r <b>r</b> e

$e \rightarrow g$

ToRub.Primary	ToRub.Primary	ToRub.Primary
f $\text{ʁ}$ $\text{ej}$ <b>e</b> - - - f r e <b>g</b> a r -	f $\text{ʁ}$ $\text{ej}$ <b>e</b> - - - f r e <b>g</b> a r e	f $\text{ʁ}$ $\text{ej}$ <b>e</b> - - - f r $\text{ə}$ <b>g</b> a - -

$e: \rightarrow \tilde{e}$

ToThink.Pensare	ToThink.Pensare	Full.Primary
p e: n s a: r e p <b><math>\tilde{e}</math></b> - s a $\text{ʁ}$ -	p e: n s a: r e p <b><math>\tilde{e}</math></b> - s a r -	p l e: n u s p l <b><math>\tilde{e}</math></b> - - -

$e: \rightarrow i$

Hair.Primary	ToSplit.Separare	ToSwell.Crescere
p - e: l - - p - <b>i</b> l u -	s e: p a r a: r e s <b>i</b> p e r a r -	k r - e: s k e: r e k r - <b>i</b> f s e r -

$i \rightarrow \emptyset:$

ToDrink.Primary	Narrow.Strictus	Straight.Primary
b - <b>i</b> b e r e b - <b><math>\emptyset:</math></b> - - $\text{ʁ}$ -	- s t r - <b>i</b> - k t u s - s t $\text{ʁ}$ - <b><math>\emptyset:</math></b> - - -	d - r - <b>i</b> t t o - d - r - <b><math>\emptyset:</math></b> - - -

$i \rightarrow \text{ɔj}$

ToTie.Primary	ToTie.Primary	ToTie.Primary
l i g a: r e l <b>ɔj</b> i: - - -	l <b>i</b> - e - - l <b>ɔj</b> i: - - -	$\Lambda$ <b>i</b> $\gamma$ a - - l <b>ɔj</b> i: - - -

$i: \rightarrow \tilde{e}$

Near.Vicinus	Five.Primary	Five.Primary
w - i: k <b>i:</b> n u s v - i $\text{ʒ}$ <b><math>\tilde{e}</math></b> - - -	k <sup>w</sup> i: n k <sup>w</sup> - e s <b><math>\tilde{e}</math></b> - k - -	k <sup>w</sup> i: n k <sup>w</sup> - e s <b><math>\tilde{e}</math></b> - k - -

## Appendix 2 - Prior Frequencies

i: → ĩ

Road.Camminus	Road.Camminus	Near.Vicinus
k a m m i: n u m	k a m m i: n u m	w - i: k i: n u s
f ə - m ĩ - - -	f i - m ĩ - - -	v w a z ĩ - - -

a → ø:

ToKnow.Sapere	Narrow.Strictus	Straight.Primary
s a v w a ɐ -	e - t ɐ w a - - - -	d - ɐ w a - - - -
s a v - ø: ɐ -	- s t ɐ - ø: - - - -	d - r - ø: - - - -

a → ɔa

Woman.Domina	Woman.Domina	BarkOfATree.Skorteia
d a m - - -	d a m - - -	- s k w a r ts - e
d ɔa m - n ə	d ɔa m - n ə	- s k - ɔa r ts - ə

a: → ɔ

Horn.Primary	Horn.Primary	Horn.Primary
k w a: r - -	k w a: r - -	k w a: r - -
k - ɔ ɐ n -	k - ɔ r n o	k - ɔ r n -

ε → y

River.Rivus	Fog.Nebula	Fog.Nebula
r ε - - -	n - ε - v w - ɐ	n - ε - v w - ɐ
ɐ y - - -	n j y - - l -	n j y - - l -

a: → ĩ

Grass.Gramen	Guts.Primary	Mountain.Montanea
g r a: m e n	i n t e r a: n e a	m o n t a: - n e a
g r ĩ m ɐ -	ĩ - t - r ĩ ɐ - ɐ	m ɔ - t ĩ - ɐ - ɐ

u → ǣ

ToSwell.Primary	How.Quomodo	How.Quomodo
u m f l a - -	k o m u - -	k o m u - -
ǣ - f l e - -	k ɔ m ǣ - -	k ɔ m ǣ - -

u → ʊ

Red.Primary	Red.Primary	Red.Primary
r u s s u s	ɐ o - f u -	r o - f u -
ɐ o - f ʊ -	ɐ o - f ʊ -	ɐ o - f ʊ -

u → l

Louse.Primary	Louse.Primary	Eye.Primary
p - i - o - ʌ u - -	p - i - o - ʌ u - -	- o - k u l u s
p - e d u - k l u s	p - e d u - k l u s	v o - - l i - -

u: → œ

Egg.Primary	Heart.Primary	Fire.Focus
- u: f - -	k - u: r - -	f - u: k - -
- œ f - -	k - œ ɐ - -	f - œ - - -

o → ø:

ToSew.Primary	Two.Duos	Two.Duos
k o - - s - e r -	d - o s	d - o s
k ø: - - z - - -	d - ø: -	d - ø: -

## Appendix 2 - Prior Frequencies

o → y

Feather.Primary	Night.Primary	Night.Primary
p l o m ə	n - o c t e m	n - o - t f e -
p l y m -	n - y - t - -	n - y - t - -

o → aj

Water.Primary	Sand.Sabulum	Sand.Sabulum
o - - -	s o - - r ə -	s o - - r ə -
aj - ɣ w ə	s aj β - r u -	s aj β - r u -

o: → e

Egg.Primary	ToKnow.Cognoscere	How.Quomodo
- o: w u m	k o g n o: s k e r e	k <sup>w</sup> o: m o d o
w e b o -	k o - n e s - e ʁ -	t f e m u: t -

o: → w

I.Primary	I.Primary	I.Primary
- e g o:	- e g o:	- e g o:
- e - w	- e - w	j e - w

ɔ → a:

Horn.Primary	Horn.Primary	Horn.Primary
k - ɔ ʁ n -	k - ɔ r n o	k - ɔ r n -
k w a: r - -	k w a: r - -	k w a: r - -

ɔ → y

Feather.Primary	Night.Primary	Night.Primary
p l ɔ m -	n - ɔ t t e -	n - ɔ - t - -
p l y m -	n - y - t - -	n - y - t - -

u → ě

ToWipe.Exsucare	ToWipe.Exsucare	ToSwell.Primary
u - s - - k - a - -	u - s - - k - a - -	u m f l a - -
ě - ʃ - u g - a r -	ě - ʃ - u ɣ - a r -	ě - f l e - -

aj → o

Water.Primary	Sand.Sabulum	Sand.Sabulum
aj - ɣ w ə	s aj β - r u -	s aj β - r u -
o - - -	s o - - r ə -	s o - - r ə -

e → o:

Egg.Primary	ToKnow.Cognoscere	How.Quomodo
w e b o -	k o g n e s - e ʁ -	t f e m u: t -
- o: w u m	k o g n o: s k e r e	k <sup>w</sup> o: m o d o

aʊ → ȳ

ToHear.Primary	ToHear.Primary	Few.Primary
aʊ - d i: r e	aʊ - z i - -	p aʊ k u s
ȳ - - - R -	ȳ - - - R -	p ȳ - - -

ɔj → i

ToTie.Primary	ToTie.Primary	ToTie.Primary
l ɔj i: - - -	l ɔj i: - - -	l ɔj i: - - -
l i g a: r e	l i - e - -	l i ɣ a - -

## Appendix 2 - Prior Frequencies

j → r

Mouth.Gula	Sand.Sabulum	Sand.Sabulum
g œ j -	s ɑ v - j ɔ̃ -	s ɑ v - j ɔ̃ -
g u r ə	s aj β - r u -	s aj β - r u -

au → ɔa

Tail.Primary	Tail.Primary	Tail.Primary
k au d a	k au d ɐ	k au d ɐ
c ɔa d ə	c ɔa d ə	c ɔa d ə

w → ɥ

ToThink.Primary	ToKill.Tutari	ToFloat.Primary
k w - - i d a r -	t u w - e - -	f l u g t w a r -
k ɥ - - i d e - -	t - ɥ - e - -	f l y k t ɥ e - -

l → u

Louse.Primary	Louse.Primary	Eye.Primary
p - e d u - k l u s	p - e d u - k l u s	v o - - l i - -
p - i - o - ʌ u - -	p - i - o - ʌ u - -	- o - k u l u s

w → n

Heart.Anima	Heart.Anima	Heart.Anima
a w - m ɐ	a w - m ɐ	a w - m ɐ
a n i m a	a n i m e	i n i m ə

ɪ → j

ToBurn.Incendere	ToBurn.Incendere	ToBurn.Incendere
ĩ - s e n dʒ ɪ a r -	ĩ - s e n dʒ ɪ a r -	ĩ - s e n dʒ ɪ a r -
ẽ - s ă - d j e - -	i n ʈf ɛ n d j a r e	ĩ - s ẽ - d j a r -

n → dʒ

Knee.Geniculum	Knee.Geniculum	Knee.Geniculum
n - - n ɔ̃ - - - - -	n - - n ɔ̃ - - - - -	n - - n ɔ̃ - - - - -
dʒ - i n ɔ̃ k k - j o -	dʒ - e n o - - - l i -	dʒ - e n u n k <sup>j</sup> - - - -

j → ɪ

ToBurn.Incendere	ToBurn.Incendere	ToBurn.Incendere
ẽ - s ă - d j e - -	i n ʈf ɛ n d j a r e	ĩ - s ẽ - d j a r -
ĩ - s e n dʒ ɪ a r -	ĩ - s e n dʒ ɪ a r -	ĩ - s e n dʒ ɪ a r -

j → ε

Skin.Pellis	Skin.Pellis	Skin.Pellis
p j e - l - -	p j ε - l - -	p j e - l e -
p ε - - - - -	p ε - - - - -	p ε - - - - -

s → dʒ

ToSuck.Primary	ToSuck.Primary	ToWipe.Extergere
s y s e - -	s y s i: - -	e - s t a r s i r -
s u dʒ e - -	s u dʒ e - -	- - ʃ t e r dʒ e - -

n → g

Knee.Geniculum	ToFight.Primary	Big.Primary
n - - n ɔ̃ - - - - -	p u n n a r e	m a n n o -
g - e n i - k u l u m	p u g n a: r e	m a g n u s

## Appendix 2 - Prior Frequencies

w → o:

I.Primary	I.Primary	I.Primary
- e - w	- e - w	j e - w
- e g o:	- e g o:	- e g o:

œ → u:

Egg.Primary	Heart.Primary	Fire.Focus
- œ f - -	k - œ ʁ - -	f - œ - - -
- u: f - -	k - u: r - -	f - u: k - -

t → r

ToSqueeze.Appectorare	ToSqueeze.Appectorare	ToSqueeze.Appectorare
a p p e k t o r a: r e	a p p e k t o r a: r e	a p p e k t o r a: r e
a - p - - r e t a r -	ɐ - p i - r - t a r -	ɐ - p i - r - t a r -

ʊ → u

Red.Primary	Red.Primary	Red.Primary
ʁ o - ʃ ʊ -	ʁ o - ʃ ʊ -	ʁ o - ʃ ʊ -
r u s s u s	r u s s u s	r u s s u s

n → w

Heart.Anima	Heart.Anima	Heart.Anima
a n i m a	a n i m e	i n i m ə
a w - m ɐ	a w - m ɐ	a w - m ɐ

œ → qa

Leaf.Primary	Flower.Primary	Flower.Primary
f - œ j - -	f l œ ʁ - -	f l œ r - -
f - qa - j e	f l qa r e -	f l qa r e -

œ → ε

Woman.Primary	Star.Primary	Star.Primary
f œ - m - - -	- s t - œ - l -	- s t - œ - l -
f ε - m i - n - ε	ə s t - ε - l -	- s t - ε - l e

o → ěj

Child.Ninnus	Child.Ninnus	Child.Ninnus	Child.Ninnus
n i j o	n i j o	n i n o	n i n o
n e n ěj	n e n ěj	n e n ěj	n e n ěj

l → t

Back.Spatula	Back.Spatula	Back.Spatula	Back.Spatula
e s p a l - d a	e s p a l - d a	- s p a l - l a	- s p a l - l a
- s p a t u l a	- s p a t - - e	- s p a t u l a	- s p a t - - e

l → k

Louse.Primary	Louse.Primary	Louse.Primary	Old.Primary
p - e d o - l i - -	p - e d o - l i - -	p - e d o - l i - -	w - e t u l u s
p - e d u - k l u s	p - i d ɔ k k j o -	p - ə d u - k j e -	v - ε k - k j o

o → ě

Far.Primary	Far.Primary	How.Quomodo	How.Quomodo
l - o n t a n o	l - o n t a n -	k <sup>w</sup> o: m o d o	k o m o - -
l w ě - t ě - -	l w ě - t ě - -	k ɔ m ě - -	k ɔ m ě - -

## Appendix 2 - Prior Frequencies

l → s

ToPull.Pulsare	ToPull.Pulsare	ToPull.Pulsare	ToPull.Pulsare
p u l s a: r e	p u l s a r e	p u l s a: - -	p u l s a - -
p u: s i: - - -	p u: s i: - - -	p u: s i: - - -	p u: s i: - - -

o → t

Many.Primary	Many.Primary	Many.Primary	Many.Primary
m u - t f o -	m u - t f o -	m o l t o -	m o l t o -
m ũ j - t u	m ũ j - t u	m ũ j - t u	m ũ j - t u

o → k

Few.Primary	Few.Primary	Few.Primary	Few.Primary
p o k o -	p o k o -	p o k o -	p o k o -
p o w k u	p o w k u	p o w k u	p o w k u

d → b

ToWalk.Ambitare	ToWalk.Ambitare	ToWalk.Ambitare	ToWalk.Ambitare
a n d - - a r -	a n d - - a r e	ẽ - d - - a ʁ -	ẽ - d - - a r -
a m b i t a: r e	a m b i t a: r e	a m b i t a: r e	a m b i t a: r e

o → a:

Horn.Primary	Horn.Primary	Horn.Primary	Horn.Primary
k - o r n u:	k - o ʁ n u	k - o r n u	k - o r n -
k w a: r - -	k w a: r - -	k w a: r - -	k w a: r - -

r → d

Round.Primary	Round.Primary	Round.Primary	Round.Primary
t a r ɔ n t - -	t a r ɔ n t - -	t a r ɔ n t - -	t a r ɔ n t - -
r e d o n d o -	ʁ e d õ - d u -	ʁ i d õ - d u -	r ə d o - - -

ɔ: → õ

Good.Primary	Good.Primary	Good.Primary	Good.Primary
b w ɔ: n o -	b w ɔ: n o -	b w ɔ: n o -	b w ɔ: n o -
b - õ - - -	b - õ - - -	b - õ - - -	b - õ - - -

ɲ → ʒ

Knee.Genuculum	Knee.Genuculum	Knee.Genuculum	Knee.Genuculum
ɲ - - ɲ ɔ - - -	ɲ - - ɲ ɔ - - -	ɲ - - ɲ ɔ - - -	ɲ - - ɲ ɔ - - -
ʒ - ə n u - - -	ʒ u e - - - - ʎ u -	ʒ w e - - - - ʎ u -	ʒ - ə n o - - - ʎ - -

ε → qa

BarkOfATree.Skorteá	Rain.Primary	ToKnow.Cognoscere	ToKnow.Cognoscere
- h - w ε - s -	p l ε - f - -	k ɔ - n ε - t - ʁ -	k u - n ε f - ə - -
- s k - qa r ts - ə	p l qa - - j e	k u - n qa f t e - -	k u - n qa f t e - -

x → l

Woman.Mulier	Louse.Primary	Leaf.Primary	ToCut.Taliare
m u x - e r - -	p j o - - x - o -	- - o x - a	t a - x - a r -
m u l i e r e m	p - e d o - l i - -	f - o l i a	t a: - l i a: r e

d → r

Round.Primary	Round.Primary	Round.Primary	Round.Primary
r e d o n d o -	ʁ e d õ - d u -	ʁ i d õ - d u -	r ə d o - - -
t a r ɔ n t - -	t a r ɔ n t - -	t a r ɔ n t - -	t a r ɔ n t - -



## Appendix 2 - Prior Frequencies

b → d

ToWalk.Ambitare	ToWalk.Ambitare	ToWalk.Ambitare	ToWalk.Ambitare
a m b i t a: r e	a m b i t a: r e	a m b i t a: r e	a m b i t a: r e
a n d - - a r -	a n d - - a r e	ẽ - d - - a ʁ -	ẽ - d - - a r -

u → ɔj

We.Primary	YouPlural.Primary	YouPlural.Primary	Leaf.Primary
n u - -	v u - -	b u - s	f - u ʎ - ə
n ɔj - s	v ɔj s -	v ɔj s -	f - ɔj - -

u → s

Many.Primary	Many.Primary	Few.Primary	Few.Primary
m ũ j̃ - t u	m ũ j̃ - t u	p o w k u	p o w k u
m u l t u s	m u l t u s	p aʊ k u s	p aʊ k u s

e → oj

ToRub.Primary	ToRub.Primary	ToRub.Primary	ToRub.Primary
f r e g a r -	f r e g a r e	f r e - a - -	f r e k a - -
f r oj - - -	f r oj - - -	f r oj - - -	f r oj - - -

e → ɪ

I.Primary	I.Primary	I.Primary	I.Primary
- e g o:	- e - w	- e - w	j e - w
ɖʒ ɪ - -	ɖʒ ɪ - -	ɖʒ ɪ - -	ɖʒ ɪ - -

t → l

Back.Spatula	Back.Spatula	Back.Spatula	Back.Spatula
- s p a t u l a	- s p a t u l a	- s p a t - - e	- s p a t - - e
e s p a l - d a	e s p a l - l a	e s p a l - d a	e s p a l - l a

e: → ø:

ToKnow.Sapere	Straight.Primary	Three.Primary	Three.Primary
s a v - e: - -	d i: r - e: k t u s	t r - e: s	t r - e: -
s a v - ø: ʀ -	d - r - ø: - - -	t r - ø: -	t r - ø: -

t → o

Many.Primary	Many.Primary	Many.Primary	Many.Primary
m ũ j̃ - t u	m ũ j̃ - t u	m ũ j̃ - t u	m ũ j̃ - t u
m u - tʃ o -	m o l t o -	m u - tʃ o -	m o l t o -

e: → ej

Sand.Primary	Full.Primary	Full.Primary	Straight.Primary
h a r e: n a	p l e: n u s	p l e: n u s	d i: r - e: k t u s
- e r ej - e	ʃ - ej - u -	ʃ - ej - u -	d i r - ej - t u -

e: → ej

Sand.Primary	Straight.Primary	Three.Primary	Three.Primary
h a r e: n a	d i: r - e: k t u s	t r - e: s	t r - e: -
- a r ej - e	ɖʒ i r - ej - t u -	t r - ej -	t r - ej -

s → l

ToPull.Pulsare	ToPull.Pulsare	ToPull.Pulsare	ToPull.Pulsare
p u: s i: - - -	p u: s i: - - -	p u: s i: - - -	p u: s i: - - -
p u l s a: r e	p u l s a r e	p u l s a: - -	p u l s a - -

## Appendix 2 - Prior Frequencies

s → u

Many.Primary	Many.Primary	Few.Primary	Few.Primary
m u l t u s	m u l t u s	p aʊ k u s	p aʊ k u s
m ũ j̃ - t u	m ũ j̃ - t u	p o w k u	p o w k u

k → o

Few.Primary	Few.Primary	Few.Primary	Few.Primary
p o w k u	p o w k u	p o w k u	p o w k u
p o k o -	p ɔ k o -	p o k o -	p ɔ k o -

j → g

Liver.Primary	Liver.Primary	ToSmell.Fragrare	ToSmell.Fragrare
f - i j a: t - -	f - i j a: t - -	f l ə j r a - -	f l ə j r a - -
f - e g a t o -	f - i g ɐ d u -	f r a: g r a: r e	f r a g r a r e

ʃ → g

Leg.Gamba	Leg.Gamba	Leg.Gamba	Leg.Gamba
ʃ a m b e	ʃ a m b e	ʃ a m b e	ʃ a m b e
g a m b a	g a m b a	g a m b a	g a m b ə

i: → g

ToTie.Primary	ToTie.Primary	ToTie.Primary	ToTie.Primary
l ɔj i: - - -	l ɔj i: - - -	l ɔj i: - - -	l ɔj i: - - -
l i g a: r e	l e g a r e	l e g a r e	l e g a - -

k → l

Louse.Primary	Louse.Primary	Louse.Primary	Old.Primary
p - e d u - k l u s	p - i d ɔ k k j o -	p - ə d u - k j e -	v - ε k - k j o
p - e d o - l i - -	p - e d o - l i - -	p - e d o - l i - -	w - e t u l u s

a → iw

Seed.Granum	Seed.Granum	Seed.Granum	Seed.Granum
g r a n o -	g r a n o -	g r a - - -	g r a n - -
g r iw - - -	g r iw - - -	g r iw - - -	g r iw - - -

a: → o

Horn.Primary	Horn.Primary	Horn.Primary	Horn.Primary
k w a: r - -	k w a: r - -	k w a: r - -	k w a: r - -
k - o r n u:	k - o ɤ n u	k - o r n u	k - o r n -

a: → ẽwĩ

Seed.Granum	Seed.Granum	Hand.Primary	Hand.Primary
g r a: n u m	g r a: n u m	m a: n o -	m a: n o -
g r ẽ wĩ - -	g r ẽ wĩ - -	m ẽ - - -	m ẽ - - -

a: → ẽj̃

Mother.Primary	Mother.Primary	Mother.Primary	Mother.Primary
m a: t r e m	m a: t r e m	m a: d r e -	m a: d r e -
m ẽj̃ - - -	m ẽj̃ - - -	m ẽj̃ - - -	m ẽj̃ - - -

## Appendix 2 - Prior Frequencies

j → ʎ

Hair.Capillus	Neck.Primary	ToStand.Levare	There.Primary
k a b e - j o -	k w e - j o -	j e b a r -	a - j a -
k ə b ɛ - ʎ - -	k - ɔ - ʎ - -	ʎ ə b a - -	ə - ʎ a -

a: → ɑ

Stick.Primary	Stick.Primary	Meat.Primary	ToCut.Taliare
p a: l u s	p a: l - -	c a: r - - -	t a: - l i a: r e
p ɑ - - -	p ɑ - - -	tʃ ɑ r - - -	t ɑ j - - e - -

u → ɐ

Fruit.Primary	Fruit.Primary	Day.Primary	Day.Primary
f r u: - k t u s	f r u: - k t u s	ɖʒ - u -	ɖʒ - u -
f r u - - t ɐ -	f r u - - t ɐ -	d i ɐ -	d i ɐ -

ɛ → ɑ

Meat.Primary	ToDrink.Primary	ToCut.Taliare	Three.Primary
ʃ ɛ ɾ - - -	b - ɛ w - r ə	t ɛ - - j i: - -	t r - ɛ s
tʃ ɑ r - - -	b w ɑ - - ɾ -	t ɑ j - - e - -	t ɾ w ɑ -

p → tʃ

Wide.Amplum	Wide.Amplum	Wide.Amplum	Wide.Amplum
a m p l u s	ã - p l - -	a m p j o -	a m p l ə -
a n tʃ - o -	a n tʃ - o -	a n tʃ - o -	a n tʃ - o -

l → x

Woman.Mulier	Louse.Primary	Leaf.Primary	ToCut.Taliare
m u l i e r e m	p - e d o - l i - -	f - o l i a	t a: - l i a: r e
m u x - e r - -	p j o - - x - o -	- - o x - a	t a - x - a r -

m → v

ToCount.Numerare	ToCount.Numerare	ToCount.Numerare	ToCount.Numerare
n u m - e r a: r e	n u m - e r a - e	n u m - e r a: - -	n u m - a r a - -
n o v - e r a r e	n o v - e r a r e	n o v - e r a r e	n o v - e r a r e

ʏ → ɖʒ

Liver.Primary	Liver.Primary	ToSwim.Navigare	ToSwim.Navigare
- - i ʏ a ɔ̃ o -	f - i ʏ ɐ ɔ̃ u -	n a v i ʏ a ɾ -	n ɐ v i ʏ a r -
f - e ɖʒ ə - - -	f - e ɖʒ ə - - -	n ɛ - - ɖʒ i: - -	n ɛ - - ɖʒ i: - -

c → g

ToSuck.Primary	ToSuck.Primary	ToSuck.Primary	ToFloat.Primary
c u c a: - -	c u c a: - -	c u c a: - -	f l u c t u a - -
s u: g e r e	s u g a ɾ -	s u g a r -	f l u g t w a r -

au → ø

Tail.Primary	Tail.Primary	Tail.Primary	Few.Primary
k au d a	k au d ɐ	k au d ɐ	p au k u s
k ø - -	k ø - -	k ø - -	p ø - - -

ə → ej

ToSmell.Fragrare	ToThrow.Primary	ToThrow.Primary	ToBurn.Cremare
f l ə j r a - -	ʒ ə - t e - -	ʒ ə - t e - -	k r ə m a - -
ʃ - ej - r a ɾ -	ʒ ej - t a r -	ʒ ej - t a r -	k - ej m a ɾ e

## Appendix 2 - Prior Frequencies

e → u

Fruit.Primary	Fruit.Primary	Day.Primary	Day.Primary
f r u - - t e - f r u: - k t u s	f r u - - t e - f r u: - k t u s	d i e - d̥ - u -	d i e - d̥ - u -

ɔ̥ → ɤ

ToFlow.Excurrere	ToFlow.Currere	ToFlow.Currere	ToFlow.Currere
- - s k u r ɔ̥ e - - i - ʃ k o - ɤ e ɤ -	k u r ɔ̥ e - - k u - ɤ i ɤ -	k u r ɔ̥ e - - k o - ɤ e ɤ -	k u r ɔ̥ e - - k u - ɤ e r -

e → ã

Year.Primary	Year.Primary	Year.Primary	Year.Primary
e - n u - ã - - -	e - n u - ã - - -	e - n u - ã - - -	e - n u - ã - - -

oj → ø

Two.Duos	Two.Duos	Two.Duos	Two.Duos
d - oj s d - ø -	d - oj ʃ d - ø -	d - oj - d - ø -	d - oj - d - ø -

e → a

Sand.Primary	Sand.Primary	ToCut.Taliare	ToScratch.Rasare
- a r ej - e h a r e: n a	- e r ej - e h a r e: n a	t e - ʎ - a r - t a j - - e - -	ɤ e z a r - ɤ a z e - -

g → ʃ

Leg.Gamba	Leg.Gamba	Leg.Gamba	Leg.Gamba
g a m b a ʃ a m b e	g a m b a ʃ a m b e	g a m b a ʃ a m b e	g a m b ə ʃ a m b e

i → ĩ

Hand.Primary	Wind.Primary	ToSqueeze.Stringere	ToBurn.Incendere
m i n ə - m ĩ - - -	v - i n t - - v - ĩ - - -	- s t r i n ɔ̥ e - - e - t ɤ ĩ - d - ɤ -	i n ʃ i n d ʒ e - - ĩ - s ã - d j e - -

i → ĩ

ToSqueeze.Stringere	ToSqueeze.Stringere	ToBurn.Incendere	ToBurn.Incendere
- s t r i n ɔ̥ e - - ə ʃ t r ĩ - ʒ i r -	- s t r i n ɔ̥ e - - ə ʃ t r ĩ - ʒ i r -	i n ʃ i n d ʒ e - - ĩ - s e n ɔ̥ i a r -	i n ʃ i n d ʒ e - - ĩ - s ĩ - d j a r -

ʒ → ʃ

Near.Vicinus	Near.Vicinus	Near.Vicinus	Red.Rubeus
v - i ʒ ĩ - - - v - i ʃ i n o -	v - i ʒ ĩ - - - v - i ʃ i n - -	v - i ʒ ĩ - - - v - e ʃ i n - -	ɤ u - ʒ - - - r ɔ - ʃ - - -

oj → ø:

Two.Duos	Two.Duos	Two.Duos	Two.Duos
d - oj s d - ø: -	d - oj ʃ d - ø: -	d - oj - d - ø: -	d - oj - d - ø: -

oj → e

ToRub.Primary	ToRub.Primary	ToRub.Primary	ToRub.Primary
f r oj - - - - f r e g a r -	f r oj - - - - f r e g a r e	f r oj - - - - f r e - a - -	f r oj - - - - f r e k a - -

## Appendix 2 - Prior Frequencies

α → e

Sand.Primary	Sand.Primary	ToCut.Taliare	ToScratch.Rasare
h a r e: n α - a r ej - e	h a r e: n α - e r ej - e	t α j - - e - - t e - λ - a r -	κ α z e - - κ e z a r -

ζ → η

Knee.Genuculum	Knee.Genuculum	Knee.Genuculum	Knee.Genuculum
ζ - ə n u - - - - - η - - η ɔ - - - - -	ζ u e - - - - λ u - η - - η ɔ - - - - -	ζ w e - - - - λ u - η - - η ɔ - - - - -	ζ - ə n o - - - λ - - η - - η ɔ - - - - -

ej → e:

Sand.Primary	Full.Primary	Full.Primary	Straight.Primary
- e r ej - e h a r e: n α	f - ej - u - p l e: n u s	f - ej - u - p l e: n u s	d i r - ej - t u - d i: r - e: k t u s

α → ε

Meat.Primary	ToDrink.Primary	ToCut.Taliare	Three.Primary
ʃ α r - - - f ε κ - - -	b w α - - κ - b - ε w - r ə	t α j - - e - - t ε - j i: - -	t κ w α - t r - ε s

ej → e:

Sand.Primary	Straight.Primary	Three.Primary	Three.Primary
- a r ej - e h a r e: n α	dʒ i r - ej - t u - d i: r - e: k t u s	t r - ej - t r - e: s	t r - ej - t r - e: -

ʃ → ʒ

Near.Vicinus	Near.Vicinus	Near.Vicinus	Red.Rubeus
v - i ʃ i n o - v - i ʒ ě - - -	v - i ʃ i n - - v - i ʒ ě - - -	v - e ʃ i n - - v - i ʒ ě - - -	r ɔ - ʃ - - - κ u - ʒ - - -

ej → ə

ToSmell.Fragrare	ToThrow.Primary	ToThrow.Primary	ToBurn.Cremare
f - ej - r a κ - f l ə j r a - -	ʒ ej - t a r - ʒ ə - t e - -	ʒ ej - t a r - ʒ ə - t e - -	k - ej m a κ e k r ə m a - -

ʃ → p

Wide.Amplum	Wide.Amplum	Wide.Amplum	Wide.Amplum
a n ʃ - o - a m p l u s	a n ʃ - o - ā - p l - -	a n ʃ - o - a m p j o -	a n ʃ - o - a m p l ə -

α → a:

Stick.Primary	Stick.Primary	Meat.Primary	ToCut.Taliare
p α - - - p a: l u s	p α - - - p a: l - -	ʃ α r - - - c a: r - - -	t α j - - e - - t a: - l i a: r e

qa → ε

BarkOfATree.Skortea	Rain.Primary	ToKnow.Cognoscere	ToKnow.Cognoscere
- s k - qa r ts - ə - h - w ε - s - -	p l qa - - j e p l ε - f - -	k u - n qa ʃ t e - - k ɔ - n ε - t - κ -	k u - n qa ʃ t e - - k u - n ε ʃ - ə - -

ə → ȳ

Round.Primary	Round.Primary	Round.Primary	Round.Primary
r ə d o - - - - κ ȳ - - - - -	r ə d o - - - - r ȳ - - - - -	r ə t u n d - - κ ȳ - - - - -	r ə t u n d - - r ȳ - - - - -

## Appendix 2 - Prior Frequencies

ɕ → y

Liver.Primary	Liver.Primary	ToSwim.Navigare	ToSwim.Navigare
f - e ɕ ə - - -	f - e ɕ ə - - -	n ε - - ɕ i: - -	n ε - - ɕ i: - -
- - i y a ɔ̃ o -	- - i y e ɔ̃ u -	n a v i y a ɤ -	n e v i y a r -

œ̃ → ü

Some.Primary	Some.Primary	One.Primary	One.Primary
o - k œ̃ - - -	o - k œ̃ - - -	œ̃ - - - -	œ̃ - - - -
a w g ü - - -	a ɫ g ü - - -	ü - - - -	ü - - - -

ẽj̃ → a:

Mother.Primary	Mother.Primary	Mother.Primary	Mother.Primary
m ẽj̃ - - - -	m ẽj̃ - - - -	m ẽj̃ - - - -	m ẽj̃ - - - -
m a: t r e m	m a: d r e -	m a: t r e m	m a: d r e -

ɤ → ɕ

ToFlow.Excurrere	ToFlow.Currere	ToFlow.Currere	ToFlow.Currere
i - ɕ k o - ɤ e ɤ -	k u - ɤ i ɤ -	k o - ɤ e ɤ -	k u - ɤ e r -
- - s k u r ɕ e - -	k u r ɕ e - -	k u r ɕ e - -	k u r ɕ e - -

v → m

ToCount.Numerare	ToCount.Numerare	ToCount.Numerare	ToCount.Numerare
n o v - e r a r e	n o v - e r a r e	n o v - e r a r e	n o v - e r a r e
n u m - e r a: r e	n u m - e r a - -	n u m - e r a: - -	n u m - a r a - -

ø: → oj

Two.Duos	Two.Duos	Two.Duos	Two.Duos
d - ø: - -	d - ø: - -	d - ø: - -	d - ø: - -
d - oj s	d - oj f	d - oj -	d - oj -

iw → a

Seed.Granum	Seed.Granum	Seed.Granum	Seed.Granum
g r iw - - -	g r iw - - -	g r iw - - -	g r iw - - -
g r a n o -	g r a n o -	g r a - - -	g r a n - -

ø → oj

Two.Duos	Two.Duos	Two.Duos	Two.Duos
d - ø - -	d - ø - -	d - ø - -	d - ø - -
d - oj s	d - oj f	d - oj -	d - oj -

ø → au

Tail.Primary	Tail.Primary	Tail.Primary	Few.Primary
k ø - - -	k ø - - -	k ø - - -	p ø - - -
k au d a	k au d e	k au d e	p au k u s

ɪ → e

I.Primary	I.Primary	I.Primary	I.Primary
ɕ ɪ - - -	ɕ ɪ - - -	ɕ ɪ - - -	ɕ ɪ - - -
- e g o:	- e - w	- e - w	j e - w

g → i:

ToTie.Primary	ToTie.Primary	ToTie.Primary	ToTie.Primary
l i g a: r e	l e g a r -	l e g a r e	l e g a - -
l ɔj i: - - -	l ɔj i: - - -	l ɔj i: - - -	l ɔj i: - - -

## Appendix 2 - Prior Frequencies

ɔj → u

We.Primary	YouPlural.Primary	YouPlural.Primary	Leaf.Primary
n ɔj - s	v ɔj s -	v ɔj s -	f - ɔj - -
n u - -	v u - -	b u - s	f - u ʌ - ə

õ → ɔ:

Good.Primary	Good.Primary	Good.Primary	Good.Primary
b - õ - -	b - õ - -	b - õ - -	b - õ - -
b w ɔ: n o -	b w ɔ: n o -	b w ɔ: n o -	b w ɔ: n o -

õ → ə

Round.Primary	Round.Primary	Round.Primary	Round.Primary
ʁ õ - - - -	ʁ õ - - - -	r õ - - - -	r õ - - - -
r ə d o - - -	r ə t u n d - -	r ə d o - - -	r ə t u n d - -

ø: → e:

ToKnow.Sapere	Straight.Primary	Three.Primary	Three.Primary
s a v - ø: ʀ -	d - r - ø: - -	t r - ø: -	t r - ø: -
s a v - e: - -	d i: r - e: k t u s	t r - e: s	t r - e: -

g → j

Liver.Primary	Liver.Primary	ToSmell.Fragrare	ToSmell.Fragrare
f - e g a t o -	f - i g ɐ d u -	f r a: g r a: r e	f r a g r a: r e
f - i j a: t - -	f - i j a: t - -	f l ə j r a - -	f l ə j r a - -

ã → ɐ

Year.Primary	Year.Primary	Year.Primary	Year.Primary
ã - - - -	ã - - - -	ã - - - -	ã - - - -
ɐ - n u -	ɐ - n u -	ɐ - n u -	ɐ - n u -

g → c

ToSuck.Primary	ToSuck.Primary	ToSuck.Primary	ToFloat.Primary
s u: g e r e	s u g a ʁ -	s u g a r -	f l u g t w a r -
c u c a: - -	c u c a: - -	c u c a: - -	f l u c t u a - -

ẽ → o

Far.Primary	Far.Primary	How.Quomodo	How.Quomodo
l w ẽ - t ẽ - -	l w ẽ - t ẽ - -	k ɔ m ẽ - -	k ɔ m ẽ - -
l - o n t a n o	l - o n t a n -	k <sup>w</sup> o: m o d o	k o m o - -

ʌ → j

Hair.Capillus	Neck.Primary	ToStand.Levare	There.Primary
k ə b ɛ - ʌ - -	k - ɔ - ʌ - -	ʌ ə b a - -	ə - ʌ a -
k a b e - j o -	k w e - j o -	j e b a r -	a - j a -

ẽ → i

Hand.Primary	Wind.Primary	ToSqueeze.Stringere	ToBurn.Incendere
m ẽ - - - -	v - ẽ - - - -	e - t ʁ ẽ - d - ʁ -	ẽ - s ã - d j e - -
m i n ə -	v - i n t - -	- s t r i n ɟ e - -	i n ʈ i n d ʒ e - -

ĩ → i

ToSqueeze.Stringere	ToSqueeze.Stringere	ToBurn.Incendere	ToBurn.Incendere
ə ʃ t r i - ʒ i r -	ə ʃ t r i - ʒ i r -	ĩ - s e n ɟ i a r -	ĩ - s ẽ - d j a r -
- s t r i n ɟ e - -	- s t r i n ɟ e - -	i n ʈ i n d ʒ e - -	i n ʈ i n d ʒ e - -

## Appendix 2 - Prior Frequencies

$\tilde{o} \rightarrow \tilde{e}\tilde{w}$

Not.Primary	Not.Primary	Not.Primary	Not.Primary
n $\tilde{o}$ -	n $\tilde{o}$ -	n $\tilde{o}$ -	n $\tilde{o}$ -
n $\tilde{e}$ -	n $\tilde{e}$ -	n $\tilde{e}$ -	n $\tilde{e}$ -
n $\tilde{w}$ -	n $\tilde{w}$ -	n $\tilde{w}$ -	n $\tilde{w}$ -

$\tilde{e}\tilde{w} \rightarrow a:$

Seed.Granum	Seed.Granum	Hand.Primary	Hand.Primary
g r $\tilde{e}$ - -	g r $\tilde{e}$ - -	m $\tilde{e}$ - - -	m $\tilde{e}$ - - -
g r $\tilde{w}$ - -	g r $\tilde{w}$ - -	m $\tilde{w}$ - - -	m $\tilde{w}$ - - -
g r a: n u m	g r a: n u m	m a: n o -	m a: n o -

$\tilde{e}\tilde{w} \rightarrow \tilde{o}$

Not.Primary	Not.Primary	Not.Primary	Not.Primary
n $\tilde{e}$ -	n $\tilde{e}$ -	n $\tilde{e}$ -	n $\tilde{e}$ -
n $\tilde{w}$ -	n $\tilde{w}$ -	n $\tilde{w}$ -	n $\tilde{w}$ -
n $\tilde{o}$ -	n $\tilde{o}$ -	n $\tilde{o}$ -	n $\tilde{o}$ -

$\tilde{u} \rightarrow \alpha\tilde{e}$

Some.Primary	Some.Primary	One.Primary	One.Primary
a w g $\tilde{u}$ - -	a ł g $\tilde{u}$ - -	$\tilde{u}$ - - -	$\tilde{u}$ - - -
o - k $\alpha\tilde{e}$ - -	o - k $\alpha\tilde{e}$ - -	$\alpha\tilde{e}$ - - -	$\alpha\tilde{e}$ - - -

$t \rightarrow g$

Lake.Primary	Lake.Primary	Lake.Primary	ToFloat.Primary
l a: t - -	l a: t - -	l a: t - -	f l u t t u a r e
l a g o -	l a g o -	l a g u -	f l u g t w a r -

$g \rightarrow t$

Lake.Primary	Lake.Primary	Lake.Primary	ToFloat.Primary
l a g o -	l a g o -	l a g u -	f l u g t w a r -
l a: t - -	l a: t - -	l a: t - -	f l u t t u a r e

$\tilde{e}\tilde{j} \rightarrow o$

Child.Ninnus	Child.Ninnus	Child.Ninnus	Child.Ninnus
n e n $\tilde{e}\tilde{j}$	n e n $\tilde{e}\tilde{j}$	n e n $\tilde{e}\tilde{j}$	n e n $\tilde{e}\tilde{j}$
n i j o	n i n o	n i j o	n i n o



## Appendix 3 - Symbols

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$\Psi$	<b>Phylogeny</b> The (possibly unknown) relationship between entities resulting from an evolutionary tree
$\tau$	<b>Tree topology</b> Information on the relationships of the languages
$\mu$	<b>Substitution rate</b> the rate at which the language changes
$N$	<b>Sampled languages</b> The number of languages in a sample
$v$	<b>Expected events</b> The expected number of evolutionary events that occurred between two languages
$t$	<b>Past times</b> Times of branch events
$\mathcal{B}$	<b>Possible rooted trees</b>
$A$	<b>Segmental alignment</b> Constructed by combining the word segment information for the languages of interest with information on the homology of the segments
$S$	<b>Segmental information</b> Information on the homology of the segments
$s$	<b>Segment</b> Linguistic segment
$s_i$	<b>ith segment</b>
$H$	<b>Homology map</b> The map describing the alignment of the segments
$Q$	<b>Rate Matrix</b>
$\beta$	<b>Rate matrix scaling factor</b> Scales the rate matrix such that the average rate of segmental substitution is one
$P$	<b>Probability</b> The probability the process ends in certain state
$P$	<b>Marginal Likelihood</b> The probability of an event occurring
$\pi$	<b>Equilibrium distribution</b>
$\lambda$	<b>Rate of segment insertion</b>
$\mu$	<b>Rate of segment deletion</b>
$n$	<b>Word length</b>

## Appendix 3 - Symbols

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Number of segments in a word

$r$       **Rate parameter**

$\theta$       **Rate parameters**

Parameters associated with the rate matrix

$\theta'$       **Proposal**

New value proposal

$q$       **Proposal probability**

Probability of new proposal

$u$       **Random number**

$R$       **Acceptance probability**

Probability of accepting a proposed value

$\mathcal{M}$       **Model**

Mathematical model for linguistic parameters

$BF$       **Bayes Factor**

A numerical factor related to the quality of the model fit

$X$       **Unknown**

## Appendix 4 - Words containing each segment

<b>ẽj</b>	0250, 0303, 006A, 0303	53
mẽj mẽj nuvej̃ kelizẽj̃ kẽj nẽj ẽj̃		
<b>ẽw̃</b>	0250, 0303, 0077, 0303	61
kẽw̃ kẽw̃ grẽw̃ grẽw̃ mẽw̃ mẽw̃ nẽw̃ nẽw̃		
<b>aũ</b>	0061, 0075, 032F	74
kaũda kaũde kaũde aũdi:re aũzi paũkus		
<b>ẽa</b>	0065, 032F, 0061	76
tẽastə stẽa tẽaʦtẽa nẽa gẽatsə bẽa vedẽa zəʦfẽa fedẽa kədə		
<b>õa</b>	006F, 032F, 0061	40
d̃oam̃nə ƒoaje sk̃oartsə ƒoare c̃oadə s̃oare pl̃oaje ñoapte ṽoame kuñoafte t̃oartf̃e c̃oase apr̃oape		
<b>ẽj̃</b>	1EBD, 006A, 0303	46
nenẽj̃ nenẽj̃ nuvej̃ kalizẽj̃ kẽj̃ nẽj̃ ẽj̃		
<b>aj</b>	0061, 006A	54
paj paj aj̃ywə saj̃bru saj̃bru tene:braj kajkia kajlum nivaj nwaje traj majjo:rem duaj		
<b>a:</b>	0061, 02D0	52
ma:trem ma:dre pa:dre nema:l pa:lus pa:l gra:num ra:di:kem ra:di:ke ra:di:ki:na gra:men ca:r kwa:r ca:f na:sus na:so na:s na:ris ma:no a:la intera:nea fi:ka:tum fi:ja:t ri:pa:ria la:t ma:r sa:lem sa:l ka:li:ginem tene:bra:s fu:ma:ta fuma:ta stra:ta monta:nea diurna:ta manduka:re ma:nja: morsika:re cuca: spuda: suffla:re sofla: respi:ra:re respira: ko:gi:ta:re pe:n:sa:re pen:sa: odo:ra:re fra:gra:re trima: neka:re tu:ta:ri makta:re matfa: pugna:re kaptia:re catfa: pulsa:re pulsa: seka:re sea: kurta:re ekskurta:re skurta: ta:lia:re ta:la:la:re taja: se:para:re separa: jugula:re jugula:re ra:dere rada: rasa: kawa:re java: ekskawa:re zjava: nata:re nada: naviga:re naviga: wola:re zvola: camina: ma:rʦfi: ambita:re sedenta:re senta: sta:re sta: leva:re leva: alfa: torna:re torna: gyra:re d̃jira: d̃jira: da: dona:re dona: appekto:ra:re frika:re frikta:re lawa:re lava: eksu:ka:re suja: limpida:re tira:re tira: pulsa:re pulsa: jakta:re lankea:re lanfa: e:runka:re liga:re lea: apta:re komputa:re konta: numera:re numera: kanta:re canta: joka:re d̃juja: flu:ktua:re fluita:re ko:la:re gela:re glakia:re glatfa: inglakia:re infla:re enfla: konfla:re zglo:nfa: krema:re flamma:re flama: flagra:re ustula:re la:tus de:lika:tus ma:l sua:wem illa:k		
<b>ej</b>	0065, 006A	56
pejfi cavej okej seju pejtu sejfu areje fejraʦ zejtar zejtar kejməʒe istrejtu d̃jirejtu trej		
<b>e:</b>	0065, 02D0	26
fe:mina be:stia se:men pe:l ste:lla pje:tra pje:re hare:na nu:be:s tene:braj tene:bra:s ne:f die:s morde:re ri:de:re wide:re save: pe:n:sa:re ole:re time:re se:para:re jake:re d̃jaʦf̃e:re sede:re tork̃e:re tene:re e:runka:re intume:skere kre:ske:re arde:re de:lika:tus du:ze: fret̃ ple:nus di:rektus korre:ktus tre:s 'tre:		
<b>i:</b>	0069, 02D0	38
mui:r mari:tus mari:t ra:di:kem ra:di:ke radi:tfe ra:di:ki:na wi:wenda pi:t fi:ka:tum ri:wus ri:pa:ria rivi:r ka:li:ginem ʃi:l kammi:num ma:pi: sysi: respi:ra:re ri:de:re ri:dere ʒi:ʒ vi:r aũdi:re uldi: ski:re senti:re sinti: dormi:re durmi: wi:were muri: okki:dere ʃesi: teji: di:widere parti:re parti: ne:d̃ji: ma:rʦfi: weni:re ṽj̃ni: h̃o:si: strengi: pu:si: lanci: loji: di:kere di:ʒ di: skori: subti:lem sutil fri:gidus vi: di:re:ktus wi:ki:nus k̃wi:nk̃e ekkumhi:k ibi: ki: si:k ki:		
<b>ĩ</b>	006A, 0303	88
mũjtu mũjtu		

## Appendix 4 - Words containing each segment

<b>k<sup>j</sup></b>	006B, 02B2	79
ok <sup>j</sup> dʒenunk <sup>j</sup> vek <sup>j</sup>		
<b>k<sup>w</sup></b>	006B, 02B7	83
ak <sup>w</sup> a tork <sup>w</sup> :ere k <sup>w</sup> attwor k <sup>w</sup> i:nk <sup>w</sup> e k <sup>w</sup> is k <sup>w</sup> em k <sup>w</sup> id k <sup>w</sup> ando: k <sup>w</sup> o:modo k <sup>w</sup> od		
<b>oj</b>	006F, 006A	18
noj voj kojın voj nojtı nojtı froj rojb dojs dojf doj doj		
<b>O:</b>	006F, 02D0	2
ego: no:s noi no: wo:s voi vo: spo:s flo:rem fjo:re flo:r o:wum o:rikla so:lem no:men no:me no:minem vo:mi kogno:skere ko:gita:re odo:ra:re ko:nsuere ekspo:nere ko:la:re to:tus po:k majjo:rem duo:s k <sup>w</sup> ando: k <sup>w</sup> o:modo no:n		
<b>u:</b>	0075, 02D0	22
tu: fru:ktus fu:nem u:f kornu: plu:ma ku:r lu:na flu:men nu:be:s nu:bilus nu:l fu:ma:ta gelu: fu:mus fu:k dʒu: su:gere tu:tari tu:rne eksu:ka:re pu:si lu:dere flu:ktua:re ku:ʒ minu:tus minu:t du:ʒe su:ti ju:f aku:tus retu:sus u:midus u:dus u:nus ʃfemu:t		
<b>Ø:</b>	00F8, 02D0	84
bø:ʒ savø:r kø:z stʒø: drø: dø: trø:		
<b>œ</b>	0153, 0303	89
okœ œ		
<b>ej</b>	0250, 006A	57
pejfi orejʎe seju pejtu sejfu ereje fejcar kejmare iftrejtu feju feju vejʎu direjtu virmejʎu		
<b>ẽ</b>	0250, 0303	43
ifẽjfi ifẽti grẽme sẽgi sẽgi pẽse pẽse itrẽjne môtẽjne mẽʒaʒ mẽʒar ẽdaʒ ẽdar lẽsa lẽsar kẽtar kẽtar tẽtu tẽtu grẽdʒi grẽdi ẽʃu ẽʃu kwẽdu kwẽdu		
<b>ã</b>	0251, 0303	41
ãfã efã seʒpã sãmãs vjãd sã dã zãb dʒãp vãtʒ pãs pãs ãtʒaj vã sãdʒ ã ã lãg mãʒe pãse sãtiʒ fãdʒ etãdʒ lãse jãte ʃãte ãfle ẽsãdʒe gʒã gʒã ãpl kã kãmã dã		
<b>ɔj</b>	0254, 006A	16
nojs vojs fɔj loji:		
<b>ɔ:</b>	0254, 02D0	85
pɔ:rti hɔ:si: bwɔ:no mɔ:		
<b>õ</b>	0254, 0303	73
sõg õg savjõ mõ mõ mõtɔɲ nõ nõ kõspyẽ nõbʒẽ lõ nõ nõ		
<b>ɛj</b>	025B, 006A	78
ɔɾej solej fʒɛje vɛʒmej		

## Appendix 4 - Words containing each segment

<b>ɛː</b>	025B, 02D0	80
pjɛːde tɛːnebre tɛːnebre tʃɛːr pjɛːno kwɛː		
<b>ẽ</b>	025B, 0303	60
fjẽ tʃẽ dẽ mẽ vẽt vẽ sēt fãmẽ ʃĩmẽ lẽv pẽse sēti sēde fēt pwẽdɤ epwẽdɤ etwẽdɤ ẽsādje plẽ vwazẽ lwẽtẽ kômẽ		
<b>g<sup>w</sup></b>	0261, 02B7	71
sang <sup>w</sup> inem ling <sup>w</sup> a		
<b>ij</b>	0268, 006A	63
kijne		
<b>iw</b>	0268, 0077	69
griw		
<b>a</b>	0061	28
feːmina fam embra femmina fembra domina dam doña dōnna dam infantem infante fante sponsa esposa spōza ispoza maritus maki mariđo marito maridu marit marit mađre marə mari patre pađre parə pari tata tata tata tata tatə animalia omaj alimajna nəmaje beːstia biffa pwasō awem abe avi aw awikellum wazo passerem paxaro passero paseru pasəru pasəre kanem kan kane ka can sarpint farpe arborem aɤbɤ arɤol albero aɤvori arvuri abrə arbul arbore silwa selba selva sewva selba pal palo palo paw paw pal par grano grano gra gran folia oxa fɔlla frondea frondza raiθ ɤais ɤadi radiːtʃe raːdiːkiːna ɤasin kortikea korteθa kortetʃa skortea skɔrtsa skwartse herba jerba erba jarbe jarbə gɤamen grama gram rista rɛsta kwan kotenna karnem karne karne kəɤni karni karn karne wiːwenda bibjenda vivanda vivēda sang <sup>w</sup> inem saɤgre sangwe saɤ saɤk adepem adipe grasa graʃe graʃe kaɤda kola koda kua pluːma pluma pjuma penna peɤa penna panə pwal kapillus kabejo kapello kabelu cavej kapitia kaʃeθa kavettsa kabesə kap kap testa testa oːriklə orexa orekkja naso nas nas nariʃe naris bukka boka bokka gula gola ungula uɤa ungja gamba gamba gamba kambə ʃambe gambə perna pjerna manum mano maɤ aːla ala ala a a alə ale pantikem panθa panʃa panʃə pantse interaːnea d̥tɤaj entraɤa əntraɤə spatula espalda spalla ifpadwɛ ifpadwɛ əspaɤɤə spal spale spate san pwatɤin anima alma alma awmɛ almɛ anime iɤađo fegato fikat luːna luna luna steːlla etwal estreja stella ak <sup>w</sup> a aɤwa akkwa agwɛ agwɛ age apə pluwia jubja pjodɤa ripaːria lakum lak lago lago lagu layu ɤak lak lak mare mar mare maɤ mar mar mare sal sale saw sal sal sare saksum sasso petra pjeđra pjeːtra pjatrə lapidem laude lapide hareːnɔ arena arejɛ aren arinə sabulum sabl savalɔn sabula sabbja pɔlvar terra tjera terra tsarə nuvola kalina kaliɤjine kaliɤjɛ nebula njebla nebbja tinjeblas fuːmaːta fumata fumaːta fumase fumase fumate kajkia glas gjatʃa glas glaʃe θeniθa wia vwa bia via straːta estrada strada istrade iftrađe kammiːnum kamino kammino kamjɤu montaːnea mōtaɤ montajna montajna muntajə mōtaɤ montajne dia zɔɤna zɔɤna diurnaːta xornada ɤjornata ɤjornade annum apo anno aɤ aɤ an ling <sup>w</sup> a lengwa lingwa mandukaːre mandukar mandɤare mɛʒaɤ mɛʒar mɔɤɤa maɤiː maɤjaː minka mwardi moskar morsikare musəga musəgar musəɤa murseka sugaɤ sugar skuɤpa esputar sputare soffjare sufla respirar respirare ɤespimir ɤiʃpirar rɔspira vwaɤ sapere savwaɤ saber sapere sabɤ savɔːr saveː kwidar koɤjitare kuɤitaɤ kuɤitar kujda kuɤeta pensar pensare pɛsaɤ pɛsar pɛnsa pɛsa ulura odorare fragrare fejrak fejrar flɔjra tremare dwaɤmi via nəga neka anegar annegare maktaːre mate matar mataɤ mɛtar mɔta maʃaː puɤar puɤɤare puɤa battuere batɤ batir battere bateɤ batrə bate bati bate kaptiaːre fase kaθar katʃare kasəɤ kɛsar kɛsa caʃaː puxar pulsare puʃaɤ puʃar pulsa segar segare segaɤ siɤar sɔɤa kortar koɤtaɤ kurtar skortare skurta taxar taɤɤaːre taɤaɤ teɤar tɔɤa tajaː tɔja partiːre partjɤ partj partire paʃtjɤ partiː seːparaːre separar separare separaɤ sipɛrar sɔpəra separaː separa raer radere ɤaɤ rawrə radaː rade rasar rasare ɤazaɤ ɤɛzar rɔza rasaː raskar ɤaʃkaɤ ɤɛʃkar rɔska kosaɤ kusaɤ kawaːre kabar kavare kɛvaɤ kɛvar kɔba ʃavaː ekskawaːre eskabar skavare iʃkɛvaɤ iʃkɛvar zʃavaː nataːre nadar nwotare nadaɤ nɔðar nɔda nadaː navigaːre naze nabegar navigare naviɤaɤ nɛviɤar nɔbɔga navigaː naviga bolar volare voaɤ vwar bula zvolare zbuɤa kaminar kamminare kemjɤaɤ kemjɤar kəmina caminaː maɤʃe ambitaːre andar andare ɛdaɤ ɛdar jakeːre jaθer ɤaʃteːre zawrə swaɤ sentar sɛtar sɛtar estar stare iftar iftar əsta s ta jebar levare levaɤ livar ɤɔba lua alθar altsare aɤsa aɤsar əlsa alʃaː tornar tornare toɤnaɤ turnar turna turna xirar ɤjirare ɤizar ɤizar ɤira birar virare virar ɤizar bira kadere ʃwaɤ kaer kadere kawrə ʃjade tumbar tɔbaɤ tɔbar tumba dare dar dare daɤ dar dar da donar donare doa duar duna segurar siguraɤ siɤurar serar sɔra sɔrar sɔra serare θerar serrare sizaɤ sizaɤ appektoraːre apretar ɛpirtar ɛpirtar fregar fregar frɔga frea freka iʃfrigar iʃfriɤar frotar frettare frisar frasa lawaːre lave laʃar lavare levar levar ɤɔba lave lavaː la estarsir aʃfugare ɛʃugar ɛʃuɤar əʃuga uska limpjar lipar lipar tirar tirare ʃira tirar tira puxar pulsare puʃar puʃar pulsa trahere trarre traze tradɤe jaktaːre eʃar ɤɛttare ɤejtar ɤejtar xita		

## Appendix 4 - Words containing each segment

lankea:re lanθar lanʃare lēsa lēsar lānsa lanci: lanʃa: arankar arronʃare aruŋka legar legare liya lega apta:re atar etar etar kontar kontare kōtar kōtar kumta noverare numera numara kanta:re kantar kantare kētar kētar kōnta canta: kinta xugar dʒokare zogar zuyar zuga zuka flugtwar fluttuare flutuax flutuar fluktua fluctua fluitare kolar kolare koax kuar kula elar dʒelare zilar zilar zola dʒale glakia:re glase gjattʃare glōsa glaʃa: inglakia:re ingetsa inʃar enfiare iʃar iʃar imfla umfla gonʃare kʷwatx kʷame kemar kremare kejmare kejmaw kʷrəma flamma:re flame fjammarə flama flama: arde:re aɽdɽ arder ardere aɽdɽ arde flagra:re flagwə flagrar flagrare flagwax flagrar inʃendjare isendʒar isēdjar ustolare ustura tantus tanto tanto tant tanc alguno alkuno awgū aɽgū alter altro altrə altri alt alius aw aɽ magnus mapo mapno grandem grande grande gran grant mare largus laɽz larʒo largo laɽgu largu ʃark lark larg lato lato latu latu lat amplus anʃo ampjo amplə krassus graso grasso grafu gras gras grawis grabe gravi gravi grav angustus angosto angusto etʷwa delyaɽo delikato dewgadu dēʃaɽu dəlikat kalidus kaldo kawdu kaldu kaɽ calt kald fɽwa malus mal malo maw maw mal dɽwa tarənt aku:tus ayuɽo soave suaw adpropre aprəape vwazē kirka θerka lontano lunta lontan galbinus galben amarellus amarijo əmarelu albus albo albo awvu alvu alb alb duas kʷattwor katx kwatro kwattro kwatru kwatru kwatrə kwat kwatri patru aki aki aki aki la aja la la la əʃa la la ai ai kwa kʷando: kwando kwando kwan kwand kwant ad a a a a a a abhoc avek avu

### b 0062 20

bos bus embra fembra be:stia biffa biʃe biʃe biʃe biʃe bis bis abe berme arborem aɽbɽ albero abrə arbul arbore selba selba herba ɽb jerba ɽba ɽbə jarbe jarbə bibjenda webə kabəjo kabelu kəbɛʃ kabesə bukka buʃ boka bokka bokə bokə bokə bɔk bɔcɛ bukə gamba zɔb gamba gamba kambə jambe gambə bjentre bentrə jubja sabulum sabl sabula sabbja pulbere polbo nu:be:s nube nube nu:bilus nublo nebula njebla nebbja tene:braj tene:bre tene:bra:s tenebɽ tinjeblas tene:bre tənebrəs bjento ben njebe bia biə nombre limbə bibere bwax beber bere bebɽ biʃer bɽwɽ bəx bevi bə ber bɽwɽ saber sabɽ səber bibir biwɽ battuere batx batir battere batɽ bəter batrə bate bati bate dibidir dibidi kabar kəba eskabar nabegar nəbaga bolar bula zburə ambita:re benir bəni jebar ʃəba birar bira tōbe tumber tōbax tōbar tumba ʃəba nōbɽ grabe brewis bɽɛf brebe brəve brəvi brew bɽɛf subti:lem subsire bjexo bonus bō bwəno bwə:no bō bō bən bō bən bun hebetem ebete beθino bəi bermexo bərmɛʃ rubeus rubjo rəbbjo rubeo rubeo rojb berde galbinus galben albus albo albo alb alb ibi: abhoc

### c 0063 62

can ca:r cɔadə cavej ca:f bɔcɛ noctem cuca: caʃa: camina: lanci: cɔase canta: fluctua molc tanc calt spurcus abhoc

### d 0064 24

usted domina dam doɽa dɔnna donə donə dɔnə dam dɔne dɔamɽ maridu ma:dre pa:dre peduklus pidɔkkjo pedoli pədukje frondea ra:di:kem ra:di:ke ɽadi radi:ʃe ra:di:ki:na rəɽəʃinə kodie wi:wenda vjəɽ bibjenda vivanda vivəda vivəde adepem adipe kaɽda koda kaɽde kaɽde kɔde cɔadə dentem dā djente dente dēʃi dēti dē dint dinte pedem pje:de dorsum do dɔsso dos do dwes do espalda iʃpadwə iʃpadwə fiɽədu pjɔddʒa pedrə lapidem laude lapide pudx sāɽx sendrə estrada strada istradə die:s dia di die die diə di diurnum djurno diurna:ta xornada dʒornade komedere manduka:re mandukar morde:re moɽdɽ mɔrdere moɽdɽ mwardi spuda: ri:de:re ri:dere ridi ride wide:re vedere vjodi vedəa aɽdi:re udire uldi: kuɽide kwidar kujda odo:ra:re odorare kʷɛdɽ dormi:re dɔmɽiɽ dormir dormire dɔmɽiɽ durmir durmi dwaɽmi durmi: dormi okki:dere utʃidere utʃide di:widere dibidir dividere diviðir dibidi dividi divide skindere sēde ʃindere findere fāɽx ender fəndere fēdɽ fēder fəndrə pwēdɽ ra:dere radere rada: rade fodere nadar nadax nəda nada: andar andare ēdax ēdar ekstendere etāɽx ekstender estendere istēdɽ iʃtēder əstendrə ekstinde sede:re sedere fedəa sedenta:re tɔɽdɽ kadere kadere ʃjade kəɽa dare dar dare dax dar da: da dona:re dɔne donar donare doa duar duna dine dona: epɽēdɽ etɽēdɽ limpida:re kudx di:kere diɽ deθir dire dizer dizer di di: lu:dere ludir arde:re aɽdɽ arder ardere aɽdɽ ɽder arde inkendere ēsāɽje enθender inʃendjare isēdjar ənsendrə inʃindʒe todo todə dut grandem grande grande grēdi gurdus gordo lurdus lerdo lordo lerdo lerdo menudo miudu de:lika:tus du:ze: delyaɽo delikato dewgadu dēʃaɽu dəlikat kalidus kaldo kaldo kawdu kaldu kald fri:gidus freddo putridus putrido putred podri sordidus sordido sɔrdido sɔrdidu sɔrdidu di:re:ktus dɽwa dritto direjtu dɽet dɽo: dɽet drept rotundus redondo ritondo ɽədōdu ɽidōdu rədo rətund nitidus neted u:midus umido umid umed u:dus ud adpropre dekstrum djestro dɽstro dɽstru dɽʃtru dɽstrə dɽestri wiridem berde verde verdi verde duo:s dō dos dojs dojɽ dos dō: doj doj duaj due dowə duas duɽ duɽ kʷid kʷando: kwando kwando kwēdu kwēdu kwand kind kʷo:modo ad deintus dā dins kʷod

### e 0065 0

ego: ew ew jew usted vose vɔse voste embra femmina femə femjə fembra femeje mulierem muxer moʃʃe muʃɽ muʃɽ muʃɽ muʃe mujere dɔne infantem infante fante nenē nenē nen epuz esposa epu esposo ma:trem mɽx madre ma:dre mer patre pɽx pa:dre pa:dre nema:l nəmajə piskem peθ peʃfe pɽf peʃte awem abe awikellum useʃ passerem passero pasəre kanem

## Appendix 4 - Words containing each segment

kane kijne peduklus pedoli pødukje serpentem sèrpā serpjente serpente sèrpēſi sərpen farpe wermem vøk berme verme vømi vermī vjer vjermē arborem albero arbore selba selva selve sē:men seme sementis simjente semente semēſi sāmēn semēſe fwee fōaje frondea rā:di:kem rā:di:ke radi:ſe kortikem kortiſe kortikea korteſa kortetſa skortea ekōs skwartse flo:rem fjo:re flōare herba jerba èrvē erbā jarbe grā:men fu:nem fune funje restem kēſti kotenna pellem pjel pelle peli peł pjele karnem karne karne karne wi:wenda bibjenda sang<sup>w</sup>inem sangre sangwe sindže weso adepem adipe gref webo kwerno penna pena penna penē penē pēne pelo pelo pelu kabejo kapello kabelu kēſelu kaſeſa kavetſa kabesē kēſesē testa testā teste orexa orekkja orełē orele ureke ne ne nariſe gōle dentem djente dente dinte ungje pedem pje pje pje:de piez jambe perna pjerna petiolus peſiolo genikulum zuełū dženoli dženunk<sup>l</sup> el el ale wentrem bjentre bentrā vintre pantikem pantse pintetſe intera:nea entrana kwejo dwes epol espalda spate seno seno sen pektus peſfo pjept kwore anime fegato fedžā solem sole sqare soreli lune etwal estreja stella istrelē iſtrele stele age ploje plōaje flu:men fjume kīvjek mare mare mer mare salem sale se sare petra pjek pjeđra pedrē pedrā pjere lapidem laude lapide arena ērenā pulwerem polvere pulbere terra tek tjera tēk tek tjere nube nube ka:li:ginem kaliđine nebula njebla nebbja newlā negurā tene:braj tē:nebre tene:bra:s tenebē tinjeblas tē:nebre tēnebrās fyne fumate ōjelo ſjer wentum bjento ben niwem njebe neve new gelu: jelo dzer glatſe fwego kinerem ſjenere ōeniſa ſjenuſa estrada montem monte monte monta:nea mōntane noctem noſje nōtte nōapte zuone dzornade no:men no:me nume no:minem nombre lengwa bibere beber bere bebes biſer bevi komedere komer kome kumer manduka:re māže mandžare morde:re morđer mōrdere mōkdek murđer morsika:re morsikare murseka su:gere syse suđje konspuere kōspye eskupir sputere esputar sputare womere vōmere vōame suffla:re sufle soffjare sufle respi:are respirar respirare kēspirar respira: ri:de:re reir ri:de:re rīde wide:re ber vedere vøk ver vedēa aud:re udire ski:re sapere saber sapere sabek seber kogno:skere konōſer konoffere kopeseſ kupiser kunğatſe ko:gita:re kūide kođitare kuđžeta pēnsa:re pāse pensar pensare pēse peſsa: senti:re sentir sentire olē:re oler olire odo:ra:re odorare fra:gra:re flēke fragrare time:re temer temere temek timer temā temi teme tremere tremen tremare tremek trimer dormi:re dormire wi:were vivere vivek viver morire mōkēk muker neka:re nwaje neka anegar annegare tye tuwe makta:re mate okki:dere utſidere utſide pugna:re puſjare battuere battere batek beter bate bate kapti:are fase kattfare pulsa:re puse pulsare seka:re sje segar segare segak sea: kurtare ekskurta:re ekurte skortare talia:re taje tałłā:re di:widere dividere divide skindere sēde findere findere ender fendere fēdek fēder parti:re partire se:para:re sāvne separar separare separak separa: separa pungere punđere punđe jugula:re zygye jugula:re ra:dere raer radere kæk kæk rade kaze rasare fodere kawā:re jōve kavare ekskaware eskabar skavare nata:re nwotare naviga:re naže nabegar navigare wola:re vole volare vōle zvolare fōmine kamminare ſimine makſe mergere merđžere merđž

e ambita:re andare weni:re benir venire veni ekstendere etāđk ekstender estendere istēdek iſtēder ēstendrā ekstinde jake:re zezik jaſer džatſe:re zōzek zēzer džere jesi sede:re ser sedere sek ser sedēa sedenta:re sentar senta: sta:re estar stare leva:re lōve jebat levare levak lōve leva: ose altsare torna:re tuone tornare tu:rne gyra:re zīve džirare viſe virare viſe tork<sup>w</sup>:re torſer tōtſere turser turser tōatſe kadere kaer kadere ſjāde tōbe tume dare dare dona:re dōne donare dine tene:re tener tenere tek ter tsine segurar eksprimere epēđk ekspremir spremere iſprēmek iſprāmer āspremā esprimi skreme serrere serar seba serare sēke ōerar serrare sere appektora:re apretar stringere etēđk estreſir strindžere stringe strindže frika:re fīke fregar fregare frea freka frikta:re fōte frettare fōte lawa:re lave lavare lave tergere terđžere ekstergere estarsir ſterđž eksu:ka:re esuſje affugare suwe limpida:re tira:re tīze tirare tire pulsa:re puse pulsare trahere trarre traze trēzer trađž impingere impindžere impindže jakta:re zōte etſar džettare džete lankea:re lōse lanſare e:runka:re arrontſare liga:re lie legar legare lea: lega apta:re ko:nsuere koser kutſire kuzer kuzer qōase komputa:re kōte kontare kōte numera:re nōbke noverare numera numera: di:kere deſir dire dizer dizer ziſe eksponere sporre spune kanta:re jāte kantare ſjāte lu:dere jōka:re zve džokare džuwe flu:ktua:re flyktye fluttuare fluita:re fluitare fluere flye fluire ko:la:re kule kolare kōle ekskurrere eskurir skorrere iſkōkēk iſkurer skurđž kurrere korer korrere kōkēk kōker kurđž gela:re zōle elar dželare džale glakia:re glase gjattſjare inglakia:re ingetsa infla:re āfle enfiare ēfle enfla: konfla:re gōfle gonſjare gōfle intume:skere entumeſer itumeser itumeser kre:skere kreſer kreſſere kresēk kriſer krefā krefte krema:re kōame kemar kremare kējmare kējmakē flamma:re flame fjammare arde:re arder ardere ardek vōder arde flagra:re flagke flagrare inkendere ēsāđje enſender inſendjare isendžar ēnsendrā inſindže ustula:re ustolare alter grandem grande grande majjo:rem mare le epe espeso spesso iſpesu grabe greve grew grew lerdo lerdo lerdo pekepo pekenu pikenu brewis brebe breve brew bēf etſwa estreſo stretto menudo delyađo delikato dewgadu subti:lem sottile subsire freddo rekentem reſjente reſjente kēsēſi kēsēſi retsint reſje āeno nweſo wetulus bjexo vełū veł vjei vek<sup>l</sup> bwenō putred putrem pođre drept redondo kēdōdu hebetem ēbete retu:sus retuzo sua:wem soave netto neted umed seko sekko seku seku sek korretto proizme adpropre aprōape pressus pke beſino veſin ōerka dekstrum djestro destrā djestri sinjestro sinistro sijestri vermikulul bermexo vermiłło vøkmełū rubeus rubeo rubeo ruđž wiridem vøk berde verde verdi verdi galben amarellus krokeus krofleo due tres tre tres tref k<sup>w</sup>:ink<sup>w</sup>e ſjinkwe ekkumhi:k k<sup>w</sup>em kjen ſjine ke ke ſje ſje kome ſjemut nek ne en deintus avek et e e e e ke ke ke

f

0066

25

fe:mina fam femmina femev femje fembra fōem femine femeje infantem āfā infante fante ifēſi ifēti efā fru:ktus fūqi fruto frutto frutē frutē frujt fryt frut frukt folia fōej fāłłā fōłē fōłē fūłā fāj fwee fōaje frondea frondā frōse frōse frunža flo:rem flōek flor fjo:re flok flor flo floer flo:r flōare fu:nem fune funje œf u:f ca:f fi:ka:tum fwa fegato figēdu fiyēdu fedžā





## Appendix 4 - Words containing each segment

k

006B

50

sokius piskem awikellum kanem kan kane kēw kēw ka kijne peduklus pidokkjo pōdukje fruktus frukt radi:kem radi:ke radi:ki:na kortikem kortiŋe kōŋfisi kōrtisi kortikea korteθa kortettŋa kōŋfise kurtise skortea ekōs skōrtsa əskōrsə skwartse skoartsə kwan kotenna kođjē kodjē konnə kojīn karnem karne karne karni karni karn karne saŋk krōh kornu: kōrn kwerno kōrno kōrnu kornu kōrn kwēn kwa:r korn kauða kō kola koda kauðe kauðe kua kōw kōde kapillus kabejo kapello kabelu kəβelu kəβeł kapitia kaβeθa kavettŋa kabesə kəβesə kap kap o:rikla orekkja ureke okulus əkkjo bukka boka bokka bokə bokə bokə bək bukə kambə pəkol genikulum đjinəkkjo pantikem kollum ku kwejo kollo kōlu kōlu kōł ko kwēl pektus kor kōx kwəre kōx kor kor ku: kūr fika:tum fikat solikulus akkwa lakum lak łak lak saksum ka:li:ginem kalina kalidžine kalizēj kəlizēj kajkia kajlum fokum fwōko fōk fu:k fok kinerem kammi:num kamino kammino kamjnu kemjnu kəmi komedere komer kome kumer manduka:re mandukar minka morsika:re moskar morsikare murseka konspuere kōspy kuspjē kuspjē eskupjē əskupi skuja ski:re kogno:skere kōnetx konoθer konoffere kōnesə kupiser kunēj kinōh kōposi kunqafte kō:gita:re kūide kwidar kođitare kuzitax kuzitar kujda kuđžeta kūēdē neka:re neka makta:re okki:dere əksi: uksi kaptia:re kaθar kattŋare kasax kesar kōsa seka:re kurta:re kortar kōtax kurtar ekskurta:re ekurte skortare skurta: skurta skindere raskar ɤafkax ɤəfkar rəska kosał kusar kawa:re kabar kavare kəvax kəvar kəba ekskawa:re eskabar skavare iŋkəvax iŋkəvar kaminar kamminare kemjnar kemjnar kəmina ekstendere ekstender ekstinde jakere kadere kaer kadere kəir kəir kawrə kadə ekspremire ekspremir skreme appektora:re frika:re freka frika:re ekstergere eksu:ka:re uska jakta:re lankea:re e:runka:re arankar aruŋka kō:nsuere kudx koser kufire kuzer kuzer kuzi kō:z kuzi komputa:re kōte kontar kontare kōtar kōtar kumta kōte konta: di:kere ekspō:nere kanta:re kantar kantare kētar kētar kənta kinta jōka:re đjokare zuka flu:ktua:re flyktŋe fluktua kōla:re kule kolar kolare koax kuar kuł kōle ekskurrere eskurir skorrere iŋkōvax iŋkurer əskorə skorī: skurđe kurrere kuxi: korer korrere kōvax ku:er korə kōri kori kurđe glakia:re inglakia:re konflare intume:skere kre:skere kəwatx kreθer kreffere krese: křiŋser krefə krefte krema:re krame kemar kremare kəjmare kəjmarə krəma inkendere okē alkuno pa:ukus poko pōko powku powku pōk pō:k lunk łark lark krassus pekejo pekenu pikenu pikkolo kurtus ku: korto korto ku:tu kurtu kurt ku: kurt striktus de:lika:tus delikato dəlikat kalidus kaldo kaldo kawdu kaldu kał kald rekentem vėkkjo spōrko ispurku iŋpurku spōrk spurk di:re:ktus aku:tus sikkus sek seko sekko seku seku sek sek sek korrektus korretto proksimus wi:ki:nus kirka θerka dekstrum vermikulus krokeus krotŋeo grōk katx kwatro kwattro kwatru kwatru kwatrə kwat kwatri sēk θinko ʃiŋkwe siku siku siŋk sēk ʃiŋk ekkumhi:k aki kwi aki əki aki aki illa:k ki ki ki ki: kwi kjen kēj kēj kwa ke ke ki ki kē kwe: kō kwando kwando kwēdu kwēdu kwan kwand kwant kind kōmā komo kome komu komu kōm kōmē kum nek kum kon kon kō kō ku avek sik kə ke ke ki ki kə ki: ke kə

l

006C

33

mulierem animalia alimapa nema:l awikellum uttfello utfjel peduklus pedoli arθol albero arbul silwa selba selva selba selve pa:lus pal palo palo pal pał folia ərel flo:rem fləx flor flox flor flō flōer flor: flōare pellem pjel pelle pēli peli pjel pjele kola plu:ma plym pluma plomə plōm plumə pilus pwal pelo pelo pelu pilu pēl pwel pe:l kapillus kapello kabelu kəβelu o:rikla orele okulus voli gula gōel gola gola gōlə gōle ungula ōgl əŋgule petiolus peθiolo pitŋolo pəkol genikulum đgenoli a:la el ala ala alə el ale kollum kollo kōlu kōlu kwēl spatula epol espalda spalla spal spale alma alma almə so:lem sol sole sōl solikulus sōlej sōlə soreli lu:na lyn luna luna lue lue lōn lune lunə ste:lla etwal stella istrelə iŋtrele əstəl stōel stele pluwia plūi plužə plef ploje plōaje flu:men flumi flumi flum lakum lak lago lago lagu layu lak la:t lak sa:lem sel sal sale sal sal sał lapidem laude lapide sabulum sabl savalōn sabula pulwerem polvere pōlvar pulbere pulwus polbo pols nu:bilus nublo nuvola nuvol nu:l ka:li:ginem kalina kalidžine kalizēj kəlizēj nebula njebla newlə nyjl tinjeblas kajlum sjel θjelo ʃjelo sel ʃji:l gelu: zel jelo đjelo glas glas glēs glatŋe lingʷa lāg lengwa lingwa ligwə ligwə lēv ʻlengə limbə suffla:re sufle sufle sofla: sufla uldi: olere oler olire ulura fləx flōjra pulsa:re pulsare pulsa: pulsa ta:lia:re jugula:re zygye jugula:re wola:re vole bolar volare bula vōle zvolare zvola: leva:re ləve levare levax livar ləve leva: lua alθar altsare əlsa alŋa: lawa:re lave laθar lavare levar levar lave lava: la limpida:re limpjar lipar lipar pulsa:re pulsare pulsa: pulsa lankea:re lāse lanθar lanŋare lēsa lēsar lanci: lanŋa: ligare lie legar legare lji: lea: lega lu:dere ludir flu:ktua:re flyktŋe flugtwar fluttuare flutuax flutuar fluktua fluctua fluita:re fluitare fluere flye fluir fluire flwi: flwir flui kōla:re kule kolar kolare kōle gelare zōle elar đjelare žilar žilar zōla đjale glakia:re glase glōsa glatŋa: inglakia:re inflare əfle imfla ēfle enfla: umfla konflare gōfle gōfle zglonŋa: flamma:re flame flama: flagra:re flagwə flagrar flagrare flagxax flagrar ustula:re ustolare multus molto mol molc mult alguno alkuno əlgu alter altro altrə altri alt alius longus lō longo lungo lōgu lōgu lō lunk lung largus la:ž laryo largo la:gu largu lark larg la:tus le lato lato latu latu lat amplus əpl amplə lurdus lu: lerdo lordo lerdo lerdo pitulus pikkolo piŋful de:lika:tus dəlyado delikato dəlikat subti:lem sutil sottile suptil suti:l kalidus kaldo kaldo kaldu calt kald ple:nus plē plē plēn plin wetulus malus mal malo malo mal mał lwētē lontano lontan vermikulus galbinus galben amarellus əmarelu əmerelu albus albo albo alvu alb alb illa:k la la la la la la

## Appendix 4 - Words containing each segment

m

006D

27

fe:mina fam embra femmina femev femjv fembra fœm femine femeje mulierem muxer mołle mułek mułer mułe muir  
mujere domina dam dam dōamnā infantem mari:tus maki mariđo marito maridu mēriđu marit mari:t mērit ma:trem mek  
madre ma:dre mēj mēj marə mer mari animalia omaj alimajna nema:l nəmajə piskem awem awikellum passerem kanem  
serpentem wermem berme verme vəkmi vermi vəm vjerme arborem se:men seme sementis sēmās simjente semente  
semēŋi simēti səmen simēs sementŋe səmintŋə gra:num ra:di:kem kortikem flo:rem gra:men gʷamen grama grēmə grēmə  
gram fu:nem restem pellem karnem sangʷinem ossum adepem o:wum plu:ma plym pluma pjuma plomə plom plume  
dentem pedem gamba gamba kambə jambe gambə genikulum manum mē mano ma:no mēw mēw mē maŋ minə  
wentrem pantikem kollum dorsum anima am alma alma awmē almē am anime inimə fika:tum so:lem flu:men fjume  
flumi flumi flum lakum mare mek mar mare mak mar mar mer ma:r mare sa:lem saksum lapidem sabulum pulwerem  
ka:li:ginem fu:ma:ta fyne fumata fuma:ta fumase fumase fumate kajlum wentum niwem fu:mus umo fumo fumu fumu  
fum fum fum fokum kinerem kammi:num ŋəmē kamino kammino kamiju kemiju kəmi ŋimē montem mō monte monte  
mōŋi mōti mun mō mōnt muntē monta:nea mōtaŋ montajna montajna mōtēŋə mōtēŋə muntajə mōtaŋ mōntajə noctem  
diurnum annum no:men no:me nomi nomi nōm nume no:minem nombre limbə komedere komer kome kumer manduka:re  
māzə mandukar mandžare mēzə mēzə mərza maji: maŋja: minka morde:re moxđx morđer mōrdere moxđx murđer  
mwardi morsikare moskar morsikare musəga musəgar murseka womere vomix vōmere vō:mi vōame simsi time:re  
temer temere temek timer temə temi teme tremere tremer tremare tremek trimer trima: dormi:re dōxmix dormir dormire  
dōxmix durmir durmi dwaŋmi durmi: dormi mukix morir morire moxek muker muri mōri muri: muri makta:re mate  
matar matax metar mōta maŋja: ŋəmine kaminar kamminare kemijax kemijar kəmina ŋimine camina: makŋe ma:ŋŋi:  
mergere mērdžere merđe ambita:re tumbax tumba tume eksprimere ekspremir spremere iŋprəmek iŋprəmer əspremə esprimi  
skreme limpida:re limpjar impingere impindžere əmpēŋə impindžə komputa:re kumta numera:re numera numera: numara  
imfla umfla intume:skere entumeθer itumeser itumeser krema:re kəame kemar kremare kəjmare kəjmake krəma flamma:re  
flame ŋjammare flama flama: omnis multus mu muŋfo molto mūjtu mūjtu mol molc mult magnus maŋo maŋjo grandem  
majjo:rem mare amplus ampjo amplə strimt minu:tus māny menudo minuto miudu mənūt minu minut mərunt  
subti:lem rekentem malus mal malo malo maw maw mal mō: ma:l putrem hebetem sua:wem u:midus umido umid umed  
proksimus proximo prōssimo prosimu prosimu proizme prosim dekstrum sinistrum vermikulus vəkmej bermexo vermiłło  
vəwmełu virmejłu bərmeł wiridem amarellus amarijo əmarelu əmərəlu ekkumhi:k kʷem kʷo:modo kōmā komo kome  
komu komu kəm kōmē ŋemut kum kum

n

006E

13

no:s nu nos no:i nōjs nōj no no: noj fe:mina femmina femine domina dōnna done done dōnə dōne dōamnā infantem  
infante fante nijo nino nenēj nenēj nen sponsa sponsus animalia nema:l nəmajə kanem kan kane can kijne serpentem  
serpjente serpente sarpen sarpint se:men sementis simjente semente səmen sementŋe səmintŋə gra:num gʷen grano grano  
grin gran frondea frondza frunzə ra:di:ki:na ʷasin ʷəsen ʷədaŋina gra:men gʷamen fu:nem fune funje kwan kotenna konnə  
kojin karnem karne karne kəŋni karni karn karne wi:wenda bibjenda vivanda sangʷinem sangwe sinđe kornu: kōŋn  
kwerno kōrno kōŋnu kōrnu kōrn kwən kōrn penna pen penna penə penə penə panə na:sus ne naso na:so nas ne  
nas nas nariθ nariŋe naris neriŋ nari:s dentem djente dente dint dinte ungula ungja ungje perna pjerna perno pəŋn  
pəŋn pəŋnə genikulum zənu inoxo đinəkko zənoł đenoli đenunkʷ manum mano ma:no minə wentrem bjentre bentə  
vintri vintre pantikem panθa panŋa pantse pintŋe intera:nea entraŋa əntraŋa sinus seno seno sen san pwatŋin pwetrin  
anima anime inimə lu:na lyn luna luna lūnə lōn lune lunə flu:men hare:na arena ərenə aren arinə savalōn nu:be:s ny  
nube nube nuvēj nuvēj nu:bilus nublo nuvola nuvol nu:l nor ka:li:ginem kalina kalidžine nebula njebla nebbja nevwə  
nevwə newlə njyl negurə tene:braj tē:nebre tene:bra:s tenebʷ tinjeblas tē:nebre tē:nebrəs wentum bjento vento ben 'vint  
vint niwem njebe neve nevi nevi new nivaj nef ŋə kinerem ŋenere sendrə θeniθa ŋfinize ŋenuŋə kammi:num kamino  
kammino montem monte monte mun mōnt muntē monta:nea montajna montajna muntajə mōntajə noctem npi noŋe  
notte nojtī nojtī nit nyt nqapte diurnum djurno đorno zorn zōŋna zōŋna diurna:ta zūŋne xornada đornata đornade  
annum anno enu enu an no:men nō no:me nomi nomi nōm nō nōŋ nume no:minem nombre lingʷa lingwa 'lenge  
manduka:re mandukar mandžare minka konspuere kogno:skere kōnetʷ konoθer konoffere kunəŋ kinčh kunqafte pe:nsa:re  
pensar pensare pənsa senti:re sentir sentire sənti sinti: neka:re nwaje nəga neka anegar annegare pugna:re skindere  
findere findere ender fəndere fəndrə pungere punđere punđe nata:re nadar nwotare nadax nēðar nēða nada: naviga:re  
naze nabegar navigare naviyax nēviyax nōbəga nēđi: naviga: naviga ŋəmine kaminar kamminare kəmina ŋimine camina:  
andar andare weni:re vōnix benir venire bəni vini veni ekstendere ekstender estendere əstendrə ekstinde sedenta:re sentar  
senta: torna:re tuŋne tornar tornare toŋnax turnar turna tu:rne torna: turna dona:re dōne donar donare duna dine dona:  
tene:re tənix tener tenere tēni tini tinsi stringere stringere strengi: strindžə impingere impindžere impindžə  
lankeare lanθar lanŋare lōnsa lanci: lanŋa: ərunka:re arankar arronŋare kōnsuere kontar kontare konta: numerare nōbʷe  
noverare numera numera: numara ekspō:nerə spune kanta:re kantar kantare kōnta canta: kinta inglakia:re ingetsa infla:re  
inŋar enfiare enfla: konfla:re gonŋare intume:skere entumeθer inkendere enθender inŋendjare isendžar ənsendrə inŋindžə

omnis tantus tanto tanto tant tanc alguno alkuno magnus grandem grande grande gran grant longus longo lungo lunk  
lung anŝo 'pittinus pitŝino pekenu pikenu putsin angustus angosto angusto minutus many menudo minuto manut minu  
minut mærunŝ rekentem reŝjente reŝŝente retsint ple:nus ŝeno pŝe:no plen plin nowus nuvo nweŝo nɔvo novu novu nɔw  
nɔve now bonus bweno bwɔ:no bɔn bɔn bun rotundus redondo ritondo tarɔnt rætund nitidus net niðio netto nɛdʒu nɛdʒu  
net net neded wi:ki:nus beŝino viŝino viŝin veŝin lontano ŝunta lontan sinistrum sɔnestɔ sinjestro sinistro galbinus ʒon  
dʒen galben u:nus uno uno

0 006F

p 0070

75

## Appendix 4 - Words containing each segment

powku powku pək pō po:k amplus āpl ampjo amplə spissus epe espeso spesso ispesu ifpesu əspēs spē pittitus pəti pətit  
piti 'pittinus pekeņo pittjino pekenu pikenu putsin pitulus pikkolo piľful suptil ple:nus plē pjē:no pte plē plēn plin putridus  
pođriđo putrido puđrit putred putrem pođre podri pođri spurcus spərko ispurku ifpurku spərku spurk drept proksimus  
proximo prəssimo prosimu prosimu proizme prosim adpropre əprəp aprəape pressus prē presso prē patru

**R** 0072

34

mulierem mui:r mujere mari:tus marito mari:t mərīt mā:trem mā:dre mer mari patre pā:dre pər pari passerem passero  
serpentem serpente sərpen sjerpē sarpint wermem verme vjer vjer vjerme arborem arbul arbore fruktus frutto fryt frut  
frukt gra:num grano grin gran griw frondea frondza ra:dikem raiθ ərel ra:di:ke radi:fe ra:di:ki:na řesen řədəřinā kortikem  
kortife kortikea kortetřa skortea skōrtsa əskōrsə skwartse flo:rem floer flo:r herba erba erbā jarbe gra:men restem řesta  
karnem karne karn řar car krōh kornu: kōrno kōrn kwar korn o:rikla orekkja orele ureke nari:fe na:řis perna pėrno  
pernā piľfjor wentrem vintri vintre intera:nea dorsum pwetrin kor kwore kər kur: soreli ri:wus rio rio riw ře riw ri:paria  
rivi:r mare mare mar mer mār mare sare petra pje:tra pje:re hare:na aren arinā sorā pulwerem polvere pōlvar pulbere  
terra tjera tērra tērā tjere tsarā nor negurā tene:braj tē:nebre tene:bra:s tē:nebre sir đer kinerem řenere řendřa stra:ta  
strada diurnum đorno diurna:ta đornata dzornade bibere komedere manduka:re morde:re mōrdere mwardi morsika:re  
morsikare musəgar murseka su:gere konspuere sputere womere vōmere suffla:re soffjare respi:ra:re respirar respirare řespi:ra  
respi:ra ri:de:re reir ri:de:re riwřa ridi wide:re ađi:re ski:re sapere sapere kogno:skere konoffjere ko:gita:re kođgitare pēnsa:re  
senti:re sentire ole:re olire odo:ra:re odorare fra:gra:re fragrare time:re temere tremere tremare trima: dormi:re dormire  
durmi durmi: dormi wi:were vivere morire muri: muri neka:re annegare tu:ta:ri makta:re okki:de:re pugna:re puņņare  
battuere battere kaptia:re katřare pulsa:re pulsare sekare segare kurtare ekskurta:re skortare skurta: skurta ta:lia:re tałłā:re  
di:widere dividere skindere řindere řindere řendere parti:re partire pərti parti: se:para:re separare separa: separa pungere  
pundžere jugula:re jugula:re ra:de:re raer radere rawrā rada: rade rasar rasare řeza rasa: raskar řeska fodere kawa:re kavare  
ekskawa:re skavare nata:re naviga:re navigare wola:re mergere mērdžere mērdžere ambita:re andare weni:re ekstendere  
estendere jake:re đžere sedere sedere sedenta:re sta:re stare leware leware altsare torna:re tornare turna tu:rne torna: turna  
gyra:re đžirare đžira: virare đžira: torkwē:re tōřfjere turser turser tōrsə tōartfe kadere kawrā dare dare dar dona:re donare  
tene:re eksprimere sprēmere iřprēmē iřprāmer esprimi skreme serrere serar sōra serare řerar serrare appekto:re stringere  
strindžere əřtrizir əřtrizir stringe strēngi: strindžere frika:re fregare froj frea freka frikta:re frettare frisar lawa:re lavare  
tergere terđžere ekstergere əstərzi řterđžere eksuka:re ařřugare limpida:re tira:re tirare tire tira: pulsa:re pulsare trahere trarre  
traj trađžere impingere impindžere jakta:re đžettare lankea:re lanřfare e:runka:re arankar arronřfare liga:re legare apta:re  
ko:nsuere kufjere komputa:re kontare numera:re noverare numera: numara di:kere dire ekspo:nere sporre kanta:re kantare  
lu:de:re jōka:re đžokare flu:ktua:re fluttuare fluita:re fluitare fluere fluire kōla:re kolare ekskurrere eskurir skorrere əskorā  
skori: kurrere korer korrere korā kori gela:re đželare glakia:re gjattřfare inglakia:re inflare enfiare konfla:re gonřfare  
intume:skere kre:ske:re kreffjere krema:re kremare krōma flamma:re řjammare arde:re ardere flagra:re flagrare inkendere  
infjendjare ustula:re ustolare ustura alter altro altri grandem grande gran grant majjo:rem largus largo lark larg krassus  
grasso gras gras gurdus grossus grōsso grwēs gros grawis greve grav grevi lurdus lordo kurtus korto kurt brewis řreve  
striktus stretto stret strimt mərunt subřire fri:gidus freddo řrēt rekentem reřjente reřjente r  
etsint řeife putridus putrido putred putrem sordidus sōrdido spurcus spərko spərku spurk di:re:ktus dritto drō: drēt drept  
rotundus redondo ritondo řado rō tarōnt řatund retu:sus retuzo korre:ktus korretto proksimus prəssimo prosim adpropre  
aprəape pressus presso prē kirka dekstrum dēstro đjestri sinistrum sinistro řjestri russus roxo rosso ros řos vermikulus  
vermiłło bərmeł rubeus rubjo řōbbjo rubeo rubeo ruđžere řōř řōjb wiridem verde řert amarellus krokeus krowfe tre:s tre  
tres trō: 'tre: trej kwattwor kwattro kwatri patru

**S** 0073

14

no:s nos nōjs wo:s bos vōjs bus vos usted vose vōse voste sponsa esposa spōza ispoza əspōzə mari:tus sponsus esposo  
spōzo ispozu əspōs spō:s sokius sōřo sots be:stia biēs bis piskem pēs pwasō useł passerem passero paseru paseru paseru  
peduklus serpentem serpā serpjente serpente serpēři sirpēti sərpen sjerpē sarpint silwa selba selva řewwa řelwe selba  
selve pa:lus fruktus se:men seme sementis sēmās simjente semente semēři simēti səmen simēs sementfe řeminřa řrōře  
řrōře řais řasin řesen kōřřisi kōřřisi kōřřise kurtise skortea ekōws skōrtsa əskōrsə hwēs skwartse skōartsa restem řista  
řesta sangw'inem řā sangre sangwe řēgi řēgi řaņ řōg řaņk řindžere ossum řs weso řsso osu řsu řs řwēs řs řwēs grasa  
pilus kapillus kavetřsa kabese řēřese řřes řesta řesta řeste řestā řřes řeste řęastā okulus na:sus naso na:řo nas na:s nas  
naris na:řis petiolus pās pēře pēře pās dorsum dōřso dos řwes spatula espalda spalla əspałłā spal spale spate sinus řē  
seno seno řeju řeju ři sen řan řektus řo:lem řol řole řōw řōł řōł řōare řolikulus řōlej řōł řōreli řte:řla řtreja řtella  
řtrele řstel řteł řteł řteł ři:wus řā:řem řel řal řale řaw řal ře řā:ř řare řaksum řasso řeřřu řeřřu řabulum řabl  
řajřru řajřru řorā řavjō řavalōn řabula řabbja pulwus řols řu:be:s řu:řilus tene:bra:s řinjeblas řreves řānebrās řumase  
řumase řjel řew řew řel řir řlas řlas řles řu:mus řāđk řendřa řēt řiře řiře řtra:ta řtrada řtrada řtrade řie:s morsika:re  
moskar morsikare musəga musəgar musəya murseka su:gere řyse řugā řugar řysi: řuđžere konspuere kōřpye kuspis eskupir



## Appendix 4 - Words containing each segment

U 0075

15

nu vu bus tu tu tu tu tu tu tu usted mulierem muxer mułex mułer mułe mui:r mujere epuz mari:tus maridu meriðu sponsus epu ispozu ifpozu sokius awikellum uttfello useł uhe uttfel paseru paseru peduklus pu piołu piołu pju pədukje arvuri arbul pa:lus fru:ktus fruto frutto frute frute frujt frut frukt gra:num fułā frunzā kurtisē fune funje ossum osu osu o:wum ovu ovu u koꝛnu kornu kua pluma pjuma plume pilus pelu pilu kapillus kabelu keβelu urełā ureke okulus ołu ołu uj na:sus bukka buř bukā gula gurā ungula uņa ungja uņe uņe ɔŋgule ungje petiolus genikulum zənu zuełu zwełu đženunk<sup>l</sup> manum kollum ku kōlu kōlu dorsum spatula sinus seju seju pektus pejtu pejtu kuř fi:ka:tum figeðu fiyeðu solikulus luna luna lue lue lūnā lune lunā pluwia jubja juve juve plužā fjume flumi flumi flum ri:wus ɣiu lakum lagu layu saksum sejfu sejfu laude sabulum sajβru sajβru sabula pulwerem pudx pulbere pulwus nube nube nuvěj nuvěj nu:bilus nublo nuvola nuvol nebula negurā fumata fuma:ta fumase fumase fumate kajlum wentum vētu vētu fu:mus umo fumo fumu fumu fum fum fokum fogu foyu fjenufā kammi:num kamjru kemjru mun munte muntanā đzu diurnum zuř djurno diurna:ta zuřne annum ɛnu ɛnu nume kumer manduka:re mandukar murder musaga musagar musəya murseka sugax sugar cuca: suđe konspuere kuspix kuspis eskupir əskupi skujpa sputere esputar sputare spuda: suffla:re sufle sufle sufla udire ui uldi: kupiser kunefā kunəqafte kuzitař kuzitar kujda kuđeta ulura durmir durmi durmi: muřix muřer muri muri: muri tuwe uttfidere uksi uttfide pugna:re puņar puņpare puņa battuere pulsa:re puse puxar pulsare puřax puřar pulsa: pulsa kurtare kurtar ekskurta:re ekuxte skurta: skurta pungere punđere pupi punđe jugula:re jugula:re kusar bula zbura lua tuřne turnar turna turna turser turser tumbatumba tume duar duna segurar sigurař siyurar affugare əřugar əřugar əřuga suwe suja: uska pulsa:re puse puxar pulsare puřar puřar pulsa: pulsa e:runka:re aruņka ko:nsuere kudx kuřfire kuzer kuzer kuzi kuzi komputa:re kumta numera:re numera numera: numara spune ludir xugar zuyar zuga đzuwe đzujā: zuka flu:ktua:re flugtwar fluttuare flutuax flutuar fluktua fluctua fluita:re fluitare fluere fluir fluire flui kule kuar kuła ekskurrere eskurir ifkurer skurđe kurrere kuřix kuřer kurđe umfla intume:skere entumeθer itumeser itumeser ustula:re ustolare ustura to:tus tu tutto todū tođū dut multus mu muřo mūjtu mūjtu mult tantus tētu tētu alguno alkuno əlgu pařkus powku powku owtru owtru alius magnus longus lungo lōgu lōgu lunk lung largus lařgu largu la:tus latu latu amplus ɛřu ɛřu krassus grafu spissus ispesu ifpesu gurdus grossus grosu grosu lurdus luř pittitus 'pittinus pekenu pikenu putsin pitulus piřful kurtus kuř kuřtu kurtu kurt kurt angustus angusto iņgust striktus istrejtū iftrejtū minu:tus menudo minuto miudu miuđu mənūt minu mərunt de:lika:tus dewgadu deřyađu subti:lem sutil suřiw suřiw suptil suti:l subsire kalidus kawdu kaldu fri:gidus friu friu ple:nus řeju řeju nowus nuvo novu novu wetulus vejāu vełu bonus bun malus putridus putrido puđrit putred putrem sordidus sərdidu sordidu spurcus ispuřku ifpuřku spurk di:re:ktus đžirejtū direjtū rotundus ředōđu řidōđu řətund aku:tus ařuđu ɛřuđu əgut retu:sus retuzo sua:wem suaw nitidus neđu neđu u:midus umido umid umed u:dus ud sikkus seku seku korre:ktus proksimus prosimu prosimu pressus wi:ki:nus vizjru vizjru lūnta dekstrum destrū đřtru sinistrum řřtru řřtru russus řu řofu rořu vermikulus veřmełu virmeřlu rubeus řuž rubjo rubeo rubeo ruđe galbinus amarellu ɛmərəlu krokeus albus awvu u:n us uno un uř unu duo:s duaj due duas duēs duēř kwatru kwatru patru siku siku ekkumhi:k kwēđu kwēđu komu komu kum nu deintus kum ku avu

V 0076

19

vu voi vōjs vof vos vo: voj vose vōse voste avi avi veř verme veřmi vermi verm vjer vjer vjerme ařvori arvuri selva seřva seřve seřve ɛrvē ɛrvē vjād vivanda vivēda vivēde vves wovo ovu ovu řavō đžive cavej řave kavettsa voli vāř vēt vintri vintre juve juve řivjeř rivi:r savjđ savalōn polvere polvar nuvěj nuvěj nuvola nuvol neřvwe neřvwe treřes treřeř vā vento vētu vētu vē 'vint vint neve nevi nevi nivaj vva via vie vie voj lēv bevi vomix vōmere vo:mi vōame vvař vedere veř ver vi:r vjodi vedēa owviř owvir savvař savō:r save: vivx vivere viveř viver vivi via dividere đžividjix diviđir dividi divide səvxe řave kavare keřax keřar java: skavare ifkeřax ifkeřar zjava: naviga:re navigare naviřax neviřar naviga: naviga vole volare voax vvar vōle zvolare zvola: vānix venire viř vir vini vjpi: veni leva:re lōve levare leřax livar lōve leva: viře virare virar viře lave lavare leřar leřar lave lava: novare greve gravi gravi grav grevi breve brevi brevi nuvo nōvo novu nōve vjō vekkjō vejāu vełu veł vi: vjei vek<sup>l</sup> soave vwazē vitfino vizjru vizjru vizj vitfin vefjin vermikulus veřmeř vermīłlo veřmełu virmeřlu veř verde verdi verdi vert veř vert verde awvu alvu vi avek avu

W 0077

8

ew ew jew wo:s pwasō awem aw awikellum wazo wermem silwa seřva paw paw fwee hwes skwartse kwan wi:wenda sangwe weso vves o:wum webo wovo ow ow kwerno kwen kwar kōw pwal pwel pēw zwełu wentrem kwejo kwel dwes ifpadwe ifpadwe pwatřin pwetřin kwōre awme fwa sōw etwal ařwa akkwa agwe agwe ařwō ew pluwia ri:wus řiw riw riw saw pulwerem pulwus neřvwe neřvwe newlō seř seř wentum niwem new fwego fwōko wia vva leņgwa lingwa ligwe ligwe leņgwa bwař beřwā mwardi womere riwā widere vvař beřwā wiř owviř owvir savvař kwidar dwařmi wi:were biwā nwaje tuwe di:widere pwēdē rawā řwiř kaware ekskawa:re nwotare wolare vvar wenire zawā swax řwař kawā lawa:re suwe treřwā zve đzuwe flugtwar řwiř řwir křwatē awgū powku powku owtru owtru aw

## Appendix 4 - Words containing each segment

grwēs grawis grew grew brewis brew etḡwa dewgadu suḡfiw suḡfiw kawdu fḡwa fḡwe nowus nweḡo nḡw now wetulus bwenō bwō:nō maw maw dḡwa sua:wem suaw wiki:nus vwazē lwētē wiridem awvu dowā tḡwa kʷattwor kwatro kwattro kwatru kwatru kwatrā kwat kwatri ḡḡḡkwe kwi kwi kwa kwe: kwando kwando kwēdu kwēdu kwan kwand kwant

**X** 0078 35

muxer paxaro pjoxo oxa orexa oxo inoxo xornada puxar taxar xirar puxar xita xugar bjexo proximo roxo bermexo

**y** 0079 23

ty ty fryt plym lyn ꝛy ny njyl fyme nyt syse sysi: kōspyē zygylē gyra:re flyktꝥe flye mǣny

**Z** 007A 48

epuz spōza ispoza iḡpoze əspōzə spōzo ispozu iḡpozu wazo frunzə piez sīzə sīzə ḡḡnize zi aꝥzi ꝛaze ꝛazax ꝛazar rəza zḡjava: zvolare zvola: zburā zezix zezex zezex zəḡḡa traze trēzer kuzer kuzer kuzi kō:z kuzi dizer dizer zifḡe zgloḡfa: retuzo proizme vwazē viziju viziju

**ḡ** 00F0 49

mariḡo meriḡu maḡre paḡre iḡaḡo fiḡeḡu pjeḡra peḡre peḡrā iḡtraḡe morḡer murḡer diviḡir neḡar toḡu miuḡu deḡaḡo deḡaḡu poḡriḡo puḡrit poḡre poḡri aḡuḡo eḡuḡu niḡio

**ō** 00F5 58

pwasō peḡo frōsə frōsə ōḡl mōḡfi mōti mōtaḡ mōtēḡe mōtēḡe ōr tōbe tōbax tōbar kōte kōtar kōtar kōte ḡōfle ḡōfle pō ōt lōḡu lōḡu lō ḡō bō bō bō bō ꝛō ꝛedōdu ꝛidōdu rō ō kō kō

**ø** 00F8 75

kø ʃəvø løn fø pø vjø dø

**ĩ** 0129 42

ifēḡfi ifēti iḡrēḡe sīzə size kamīḡu liḡwe liḡwe əḡtriḡir əḡtriḡir liḡar liḡar iḡar iḡar iḡumeser iḡumeser iḡsendḡiar iḡēdḡiar siku siku sī sī

**ḡ** 014B 72

saḡgre saḡ saḡk aḡḡule maḡ aḡ nḡḡ leḡḡwa ʌḡḡwə maḡja: peḡsa: aḡḡka zgloḡfa: ʌḡḡ iḡḡust uḡ ḡḡḡkwe siḡk 'ḡḡḡk

**œ** 0153 31

fœm fœj floex floer œf œj goel goej koex foet stoel foe

**ũ** 0169 86

pūzix pūzix mūjtu mūjtu awḡū aḡū ũ ũ

**ƿ** 0250 30

femeƿ femƿ done done iḡpoze meriḡu biḡe biḡe paseru paseru seḡve frute frute foḡe foḡe frōse frōse ꝛeif kōḡḡise kurtise eƿve eḡve ḡrēme ḡrēme kōḡḡie kōdie vivēde ḡraḡe ḡraḡe kaḡde kaḡde penē penē keḡbelu kabese keḡese teste teḡte oreḡe oreḡe nerif bōke bōke uḡe uḡe peḡne peḡne zḡweḡu pēse pēse iḡrēḡe ētreḡe iḡpadwe iḡpadwe awme alme fiḡeḡu fiḡeḡu lue lue iḡtrele iḡtrele aḡwe aḡwe juve juve peḡre peḡre areḡe eḡeḡe teḡe teḡe kelizēḡ nevwē nevwē treves treveḡ fumase fumase sīze sīze vie vie istrade iḡtraḡe kemijḡu mōtēḡe mōtēḡe die die enu enu liḡwe liḡwe seber mētar mētar beḡer keḡar teḡlar pertir siḡerar keḡer keḡar keḡkar keḡar iḡkeḡar iḡkeḡar neḡar neviḡar kemijḡax kemijḡar zezex zezex keir keir epirtar epirtar levar levar trezer etar etar erder eḡuḡu emarelu emerele dues dueḡ eki ei e

## Appendix 4 - Words containing each segment

<b>A</b>	0251	67
pa ʃar am am fwa hare:na savjō bwax taje kaze gwa tɔwa		
<b>Ā</b>	0254	9
za nɔʃ vɔse dɔnna dɔnə dɔne spɔza əspɔzə spɔzo əspɔs sɔʃo pɪdɔkkjo ɔp ɔʎʎa kɔʃʃisi kɔrtisi skɔrtsa əskɔrsə ʎɔ ɔs ɔsso ɔs ɔhe krɔh wɔvo ɔw kɔn kɔno kɔrn kɔw kɔde plɔm ɔrej ɔkkjo bɔk bɔce gɔle ɔŋgule pɪtʃɔlo dʒɪnɔkkjo ɲɔ kɔlu kɔlu kɔʎ dɔsso kwɔre kɔx kɔr sɔw sɔʎ sɔl sɔlej sɔʎo savalɔn pɔlvar pɔ pɔ fwɔko ɔk mɔnt mɔntajɛ nɔtte ɲɔt zɔʎna zɔʎna nɔm nɔŋ mɔrdere vɔmere kɔnetɔ kinɔh dɔʁmɪx mɔri ɔksɪx vɔle tɔʁdɪx tɔʃʃere tɔrsə dɔne kɔle kɔri tɔ pɔko pɔk grɔsso grɔs nɔvo nɔw nɔve bɔn bɔn sɔrdido sɔrdidu sɔrdidu spɔrko spɔrk tarɔnt prɔssimo ɔprɔp rɔs rɔbbjo rɔʃ grɔk kɔmɔ kɔm kɔmɛ		
<b>Ə</b>	0259	4
zə dɔnə dɔamɔnə əspɔzə mɔrit əspɔs marə parə tatə nɔmajɛ pasərə pɔdukjɛ sɔrpen abrə sɔmɔs sɔmen sɔminʃə fuʎə frunzə ɔrɛʎ rɔdɔʃɪnə əskɔrsə skɔartsə erbə jarbə kɔnnə ɔɔadə plɔmɔ pɛɲə panə pɔr ʃɔvɔ kəbɛʎ ʃɔvɛ testə tʃɛastə urɛʎə bɔkə bukə gɔlə gurə kambə gambə pɛrnə zɔnu zɔnoʎ minə ɔlɔ bɛntrə paɲʃə ɔntrajə əspʎʎʎə inɪmɔ fɛdʒə ʎunə lunə ɔstɛʎ ɔjɔwə ɔpə pluʒə pɛðrə pʃatrə ɔrenə arɪnə sorə tɛrə tsarə newlə negurə tɔnebɔrs ʃʃɛʎʃə geatsə sɛndrə ʃʃenuʃə biə ʃɔmɛ kəmi muntajə diə ʎɛŋgwə limbə bɛwɔrə mɔɲʒa musəga musəgar musəɣa əskupi rəspira riwrə bɛwɔrə səʃɛ kunɛʃə pənsa pəsa sɔnti flɔjra temə biwrə nəga mɔta batrə kəsə səɣa tɔʎa tɔja fɛndrə pɔrti sɔvɛ sɔpərə rawrə rəza rəska ʃɔvɛ kəba nɔda nɔbəga ʃəminɛ kəmina vɔniɔ bɔni ɔstɛndrə zawrə zəʃʃə ɔsta ləvɛ ʎəba ləvɛ əlsə tɔrsə kawrə kəðə tɔniɔ tɔni ɪʃprəmə ɪʃprəmer əsprɛmə sɔrar sɔra əʃtriʒir əʃtriʒir əstreɲə frəga frəsə ʎəba ɔstərʒi əʃuga trɛwɔrə ɔmpɛɲə zəte ʎənsa kənta əskɔrə kɔrə zəle zəʎa gləsə kɛʃə krəma ənsɛndrə əʎgu altrə ɔmplə əspɛs pəti pətit əstret mɔny mɔnut mɔrunt dɔlikat rɔdo rɔtund əɣut ɔprɔp bəi dɛstrə sənɛstɔ bɔrmɛʎ dɔwə kwatrə ɔʎa ɔn kə kə kə		
<b>Ɛ</b>	025B	32
fɛminɛ ɛʃɔ pɛr bɪs pɛs pɛhɔ utʃʃello uhe utʃʃɛʎ ʃjɛrpɛ vɛrm vjɛr sɛwva sɛʎvɛ sɛlvɛ sɛmɛntʃɛ gʁɛn ɔrɛʎ rɛsɛn hwɛs ɛʁb ɛrba ɛrvɛ jɛp gʁamɛn rɛsta kɛʃʃi pɛli pɛ pʃɛʎ ʃɛʁ ɔhe vɔwɛs gʁɛs kwen kɔdɛ plumɛ pɛn pɛɲə pɛn pɛnɛ pɛʎ pɔwɛʎ kəbɛʎ dʒɪvɛ ʃɔvɛ ʃʃɛs tɛt tɛsta tɛstɛ tɛʃtɛ ʃʃɛs tɛstɛ urɛʎə bɔce dɛntɛ ɔŋgule pɛ pɛ pɛw pɛrno pɛʁnɛ pɛrnɛ pɛrnə pɛkɔl kwɛʎ spalɛ pɛtto pɛt pɔwɛtrɪn ɔstɛʎ stɛlɛ ɛw plɛʃ rɛ mɛʁ sɛʎ pɛðrɛ ɔrɛn tɛrra tɛʁɛ tɛrə tʃjɛrɛ nɛvɔwɛ nɛvɔwɛ tɛnɛbɔ trɛvɛs trɛvɛʃ ʃʃɛʎ ʃʃɛʎo sɛw sɛw sɛʎ vɛnto nɛvi nɛvi zɛʎ dʒɛʎo zɛʎ glɛs sɛndrə ʃʃɪnɪzɛ muntɛ ʎɛŋgwə 'lɛŋgɛ bɛwɔrə bɛwɔrə səʃɛ kɔnetɔ kunɛʃə flɛʁɛ ʃʃɛsi: tɛʒi: fɛndɛrɛ fɛndrə nɛdʒi: mɛrʃʃɛrɛ ɛstɛndɛrɛ ɛtɔ ɛs spɛrmɛrɛ sɛrɛ ɔstreɲə strɛŋgi: tɛrʃʃɛrɛ tɛʁɛ trɛwɔrə ɔmpɛɲə dʒɛtɛ ɪntʃɛndʒɛrɛ ɪspɛsu əspɛs spɛ grɔwɛs gʁɪjɛʃ grɛvɛ grɛvi bɛʃɛʃ brɛvɛ brɛvi ɔstret strɛt dɛʎɣaɔu frɛt frɔwɛ rɛʃʃɛntɛ pʃɛ plɛn nɔvɛ vɛkkjo drɛt drɛt ɛbɛtɛ nɛt nɛdʒu nɛdʒu nɛt nɛt sɛk sɛk sɛʃ sɛk prɛssɔ prɛ dɛstro dɛstru dɛʃtru sənɛstɔ sɛʃtru sɛʃtru vɛkɛmɛj bɔrmɛʎ vɛrt vɛʁ vɛrt dʒɛn ɛmɛrɛʎu ɛmɛrɛʎu trɛs kɛ ɛ		
<b>ʃ</b>	025F	81
ʃambɛ manʃa: ʃava: zʃava:		
<b>g</b>	0261	1
ego: gra: num gʁɛn grano grano grɛw̃ grɛw̃ gra grin gran griw gra: mɛn gʁamɛn grama grɛmɛ grɛmɛ gram sangrɛ sangwɛ sɛgi sɛgi sɔg gʁɛs grasa graʃɛ graʃɛ grɛʃ gula gɔɛʎ gɔla gɔla gɔlɔ gɔɛʃ gɔlɛ gurə ungula ɔgl ungja ɔg ɔŋgule ungjɛ gamba gamba gamba gambə genikulum fegato figɛdu agwɛ agwɛ age lago lago lagu ka:li:ginɛm negurə gelu: glas gʃatʃa glas glɛs glatʃɛ geatsə fwego fogu lɔg lɛŋgwə lingwa lɪgwɛ lɪgwɛ ʎɛŋgwə 'lɛŋgɛ musəga musəgar su: gɛrɛ sugaʁ sugaʁ kogno:skɛrɛ ko:gita:rɛ fra:gra:rɛ fragrɛrɛ nəga anɛgar anɛgarɛ pugna:rɛ segaʁ segaʁ segaʁ pungaʁ jugula:rɛ zygyʎɛ jugula:rɛ naviga:rɛ nabɛgaʁ navigaʁ nɔbəga naviga: naviga mɛrgɛrɛ gyra:rɛ seguraʁ siguraʁ stringɛrɛ stringɛ strɛŋgi: fregaʁ fregaʁ frəga ɪʃʃriɡaʁ tɛrgɛrɛ ɛkstɛrgɛrɛ ɔʃʃugaʁ ɛʃugaʁ ɔʃuga ɪmpɪŋɡɛrɛ lɪga:rɛ lɛgaʁ lɛgaʁ lɛga xugaʁ zogax zuga flugtwar gɛla:rɛ glakia:rɛ glɛsɛ gʃatʃʃaʁ glɛsa glatʃa: ɪŋɡlakia:rɛ ɪŋɡɛtsa gɔʃʎɛ gonʃʃaʁ gɔʃʎɛ zgʎɔŋfa: ʃʃagɛrɛ ʃʃagɛ ʃʃagɛr ʃʃagɛrɛ ʃʃagɛʁ ʃʃagɛr ɔʎɡuɔ ɔʎɡu ɔʎɡu mɔɡnʉs grɔndɛm gʁɔ grɔndɛ grɔndɛ grɛðʒi grɛði gran gʁɔ grɔnt longʉs longɔ lungɔ lɔɡu lɔɡu lung largʉs largɔ lɔʁɡu largu larg gʁɔ graso grasso graʃu gras gras gras gurdʉs gordo grossʉs gʁɔ grɔsso grosʉ grosʉ grɔs grɔwɛs grɔs grawis gʁɪjɛʃ grabe grɛvɛ gravi gravi grɛw grav grɛvi grɛw angustʉs angosto angusto ɪŋɡʉst dɛwɡadu fri:gɪdʉs ɔɡut ɡalbinʉs ɡalbɛn gʁɔk		



## Appendix 4 - Words containing each segment

<b>Y</b>	0263	82
iḡaðo fiḡeḡdu aḡwa aḡwə laḡu foḡu muḡəḡa siḡar səḡa naviḡaḡ nəviḡar siḡurar iḡfriḡar ēḡuḡar liḡa zuḡar larḡo deḡḡaḡo deḡḡaḡu aḡuḡo eḡuḡdu		
<b>U</b>	0265	68
fkuḡi plḡi nuḡi kuḡide tḡe esḡije flyktḡe		
<b>i</b>	0268	45
ifēti iḡpoze iḡpozu peḡḡi avi sirpēti vermi arvuri simēti səmintḡə kōrtisi keḡti peli karni sēḡi sindḡe pilu dēti minə pintēḡe iḡtreḡe flumi riw vint nevi mōti noḡti noḡti nomi biḡer minka wiḡpirar ride kupiser timer trimer siḡar siḡerac naviḡaḡ nəviḡar iḡtar iḡtar livar siḡuraḡ siḡurar siḡar siḡar epirtar epirtar strindḡe iḡfrigar iḡfriḡar impindḡe kinta zilar zilar ingetsa kriḡser intḡindḡe grēdi gravi pikenu brevi ingust iḡtreḡtu strimt poḡri wiḡḡḡu viḡmēḡlu verdi verdi ki kind in ki		
<b>I</b>	026A	11
ḡḡi na:ris isendḡiar		
<b>l</b>	026B	66
seḡve sḡl zḡl aḡsa aḡsar kuḡa flama aḡḡi aḡ deḡḡaḡu kaḡ pḡe		
<b>n</b>	0272	39
doḡa niḡo alimaḡa peḡa peḡə uḡa uḡe uḡe niḡo paḡḡə entraḡa iḡreḡe ēḡreḡe əntraḡə kamḡu kemḡu mōḡaḡ montḡaḡ montḡaḡa mōḡeḡe mōḡeḡe muntḡaḡ mōḡaḡ montḡe niḡt aḡo aḡ mḡḡza maḡi: koḡesəḡ kupiser koḡosi puḡar puḡḡare puḡa puḡi kemḡaḡ kemḡar viḡi: estreḡir əstreḡə əmpeḡə oḡḡi maḡo maḡḡo pekeḡo juḡf viḡiḡu viḡiḡu siḡestri		
<b>Ḳ</b>	027B	87
kosaḲ		
<b>f</b>	027E	29
embra fembra muxer muḡer mariḡo maridu mēriḡu marit maḡre marə paḡre paḡə paxaro paḡeru paḡeru paḡere serpjente sirpēti farpe berme vermi verm arḡol albero aḡvori arvuri abrə par fruto frute frute frujt grano grēw grēw gra frōse frōse frunzə kōrtisi korteḡa kurtisə skōartsə flor fjo:re flor floare jerba erve jarbə grama grēme greme gram rista karne karni karne sangre grasa graḡe graḡe gref kwerno kornu pər orexa oreḡe oreḡe ureḡə nariḡ naris neriḡ gurə pjerna pərne bjentre bentrə entraḡa iḡreḡe ēḡreḡe əntraḡə kor sḡare estreḡa istreḡe iḡtreḡe mar mar pjeḡra pedre pēḡre pēḡrə pjatrə arena areḡe eḡeḡe ərenə saḡḡu saḡḡu treves treveḡ tēnebrəs ḡer estrada istrade iḡtraḡe ḡurno zorn xornada nombre beber bere biḡer bēwrə komer kumer mandukar manḡare mēḡar morḡer murḡer moskar morsikare sugar kufpir eskupir esputar sputare respirar respirare wespīrar wiḡpirar rəspira reir ri:dere wiḡ riwrə ride ber vedere ver bēwrə oir udire owvir saber səber konoḡer kupiser kwidar kuzitar pensar pensare pēsar sentir sētir oler ulura feḡraḡ feḡrar fləḡra temer timer tremet tremet trimer dormir durmir bibir viver biwrə morir muxer muri anegar matar mētar utḡidere puḡar batir bēter batrə kaḡar keḡar puxar puḡar segar siḡar kortar kurtar taxar tēlar dibidir dividiḡ ender fēder fēndrə partir pērtir separar separaḡ siḡerac səḡəra pūḡir raer wēer rawrə rasar wēzar raskar wēḡkar kusar kabar kēvar eskabar iḡkēvar nadar nwotare nēḡar nabegar nəviḡar bolar volare vwar zvolare zbura kaminar kamminare kemḡar andar ēḡar benir venire vir ekstender iḡtēder əstendḡə jaḡer ḡḡaḡe:re zēzer zawrə ser ser sentar sētar sētar estar iḡtar iḡtar jebar livar alḡar aḡsar tornar turnar xirar ḡḡirare zirar zirar zira birar virare virar zirar bira torḡer kaer kadere keir keir tumber tōbar dar dar donar duar tener tenere ter segurar siḡuraḡ siḡurar ekspremir əspremə serac sərak ḡerac siḡar siḡar apretar epirtar epirtar estreḡir əstreḡə fregar frēḡa iḡfrigar iḡfriḡar frotar frisar frēsa laḡar levar levar estarsir ēḡugar ēḡuḡar limpjar lipar lipar tirar ḡira tirar tira puxar puḡar puḡar traze trezer tēwrə eḡar zeḡtar zeḡtar lanḡar lēsar arankar aruḡka legar atar etar etar koser kuzer kuzer kontar kōtar kōtar numera deḡir dizer dizer kantar kētar kētar ludir xugar zuḡar flugḡwar flutuar fluir flwir kolar kuar eskurir iḡkurer skurḡe korer kuḡer kurdḡe elar zilar zilar intḡar iḡar iḡar entumeḡer itumeser itumeser kreḡer kreḡeḡ kriḡser kreḡə kreḡeḡ kemar kēḡmare arder vḡder arde flagrar flagrar enḡender isendḡiar isēḡar ənsendḡə otro owtru owtru altrə grande grēḡḡi grēḡi mare larḡo largu lark graso graḡu gras gordo grosu grosu grōs grabe gravi gravi grew grew lerdo lerdo lerdo korto kurtu kurt brebe brevi brevi brew estreḡo iḡtreḡtu iḡtreḡtu əstret frio friu friu fret poḡriḡo puḡrit poḡre poḡri poḡri sordido sḡridu sḡridu ispurku iḡpurku ḡḡireḡtu direḡtu dret proximo prosimu prosimu proizme		

## Appendix 4 - Words containing each segment

əpɹɔp ɵerka djestro dɛstru dɛʃtru destrə sinjestro sɛʃtru sɛʃtru roʃu bermexo virmɛjɫu berde verdi verdi vɛrt verde amarijo ɛmarɛlu ɛmɛrɛlu grɔk tres tres tref kwatro kwatru kwatru kwatrə

**R** 0280 77

ɔrɛj vi:r ɵr savɵr mɔri pɔ:rti ma:rʃi: ʃɛ:r sɔrar sɛrɛ iʃkurer kɔri frwɛ

**Б** 0281 37

muлeк maкi meк peк cepā cepēʃi vɛк vɛkmi aʃbк aкvoгi fкqи gʁɛn ʁais ʁeif ʁadi ʁasin kɔʃʃisi kɔʃʃise ekovs flɔɛк floк ɛʃb ɛkʁvɛ gʁamɛn ʁeʃʃi ʁeʃti ʃɛк kаkni gʁɛs kɔʃn kɔʃnu oʁɛj pɛʁnɛ vʉtк dʉʁaj pʁwatkin kɔɛк kɔɛ кuк ʁy ʁiʁ ʁiʉ ʁivjɛк meк maк pʁɛк pʁiк pʉdк tɛк tɛʁɛ tɛʁɛ tɛк tenebк sādк зук зɔʁna зɔʁna зуʁne bʁwаk bebeк bɵ:к mɛʒаk moɔdк moʁdɛк sugаk kuspiк vomik ʁɛspiraг ʁiʃpiraг ʁiк ʁiк ʁiг ʁi:к vʁаk vɛк viк owviк savʁаk sabɛк kɔnɛtк kopɛsɛк kuzitaк pɛsаk sātik sēʃiк flɛʁɛ ʃɛjraк tɛmɛк kʁɛdк tɛmɛк dɔʁmiк dɔʁmiк dʁаkmi vivк viveк muкiк moʁɛк muкɛг mataк ɔksik batк bаtɛк kasаk pʉʃаk segаk kɔʁtaк ɛkuʁte taʁaк ɟividʒiк fādк fɛdɛк pаʁtiк pаʁʃiк səvʁɛ sɛpаrаk pʁwɛdк pʉziк ʁaɛк ʁɛɛг ʁaʒɛ ʁaʒаk ʁɛʒаk ʁaʃkаk ʁɛʃkаг fwis kɛʁаk iʃkɛʁаk nadаk nаʁiʁаk voаk kɛmipаk mаʃɛ ɛdаk vənik viк etādк istɛdɛк zɛziк zɛzɛк swаk sɛк etк levаk tuʁne toʁnaк zikɛ viк viк tɔʁdк ʃʁаk tɔʁаk dаk tənik tɛк sigurаk ɛpʁɛdк iʃpɹəmɛк sɛʁa sɛʁɛ siʁаk siʁаk etʁɛdк fʁɛʒɛ fʁote fʁote tiʁɛ tʁɛк kudк nɔʁbɛ diк di:к zogаk flutuаk flʁiк koаk iʃkoʁɛк kuʁiк koʁɛк kuʁɛг kʁʁwaʃ kɹɛsɛк kʁame кejmaк aʁdк aʁdɛк flagʁɛ flagʁаk oʃк gʁā gʁā lаʒz lаʒu gʁa gʁo gʁiʒɛf luк kuк kuʁtu ku:к bʁɛf bʁɛf etʁwa stʁɵ: fʁwa ʁɛsɛʃi ʁɛsɛʃi dʁwa ʁɔ ʁɛdɵdu ʁidɵdu pʁɛ sənɛstк ʁu ʁoʃʉ ʁoʃu vɛkmej vɛkmeʁu ʁuz vɛк vɛк tʁwa katк

**∫** 0283 17

nɔʃ vɔʃ iʃpozɵ iʃpɔzu biffа biʃɛ biʃɛ pɛʃʃɛ pɛʃʃi pɛʃʃi pɛʃ pɛʃte ʃjɛ ʃaɹpɛ ʁeif ʁeʃʃi ʁeʃti ʃɛк gɹaʃɛ gɹaʃɛ gɹɛʃ ʃəvɵ ʃəvɛ tɛʃte nɛʁiʃ buʃ ʁaɹʃə iʃpadʁɛ iʃpadʁɛ iʃtɹɛʁ ʃuʁvɛ ʃuʁvɛ ʃɛʃʃu ʃɛʃʃu tɹɛʁvɛʃ ʃɛnuʃə iʃtɹaɔɛ ʃəʁnɛ kʉʃpʁi ʁiʃpiraг ʃti konɔʃʃɛɹɛ kʉnɛʃə kʉnɔʃte ʃɛjraк ʃɛjraг ʃase pʉʃаk pʉʃаг ʃindɛɹɛ ʁaʃkаk ʁɛʃkаг ʃəʁvɛ iʃkɛʁаk iʃkɛʁаг ʃəʁmine mаʃɛ iʃtɛdɛг ʃɛdɛa iʃtaг iʃtaг ʃʁаk iʃpɹəmɛк iʃpɹəmɛг əʃtɹizir əʃtɹizir iʃfɹigaг iʃfɹiʁаг ʃtɛrɟɛ aʃʃugare ɛʃugаг ɛʃuʁаг əʃuga pʉʃаг pʉʃаг ʃāte iʃkoʁɛк iʃkurer iʃaг iʃaг kɹɛʃʃɛɹɛ kɹiʃɛɹ kɹɛʃə kɹɛʃte ɛʃu ɛʃu gɹaʃu iʃpɛsu iʃtɹɛjtu ʃo ʃɛʃu ʃɛʃu iʃpʉrku dɛʃtru sɛʃtru sɛʃtru ʁoʃʉ ʁoʃu roʃu doʃʃ duʃʃ tɹɛʃ ʃi

**ʉ** 028A 90

ʁoʃʉ

**Λ** 028E 36

moʁʁɛ muлeк muлɛг muлɛ useʁ pioʁu pioʁu poʁ ʃəʁʁa foʁɛ foʁɛ fuʁə pɛʁ kəbɛʁ ɔɹɛʁɛ ɔɹɛjʁɛ uɹɛʁə oʁu oʁu zuɛʁu zuɛʁu zənoʁ kəʁ əʁpaʁʁə ʁunə ʁak ʁɛŋgʁə taʁʁa:ɹɛ taʁаk tɛʁaг təʁa ʁəbа ʁəbа ʁənsа ʁiʁa ʁoŋ ʁaɹk ʁəno vɛjʁu vɛʁu vɛʁ ʁunta vɛrmiʁʁo vɛkmeʁu virmɛjɫu bərmɛʁ əʁa

**з** 0292 3

zə zə zāb zənu zuɛʁu zuɛʁu zənoʁ pluʒə kalizɛʃ kɛlizɛʃ zɛʁ zɛʁ зук zɔɹn zɔʁna zɔʁna зуʁne māʒɛ mɛʒаk mɛʒаг məŋʒa kuzitaк kuzitaг pʉziк pʉziг zyɟyle naze zɛziк zɛzɛк zɛzɛг zawɹə zikɛ ziraг ziraг zira ziraг əʃtɹizir əʃtɹizir əstəɹzi zəte zɛjtaг zɛjtaг zʁɛ zogаk зуʁаг zuga zuka zəʁɛ zilaг zilaг zəʁa iɲʃindʒɛ lаʒz du:zɛ: vizɛ ʁuz zɔn

**j** 029D 5

jo jɛɹbа kabɛʒo kweʒo ɛstɹɛʒa jubʒa jɛʁo jaθɛɹ jɛbа amariʒo aʒa

**dz** 02A3 70

frɔndʒa dʒɔɹnade

**ɟ** 02A4 10

ɟi kɔʃʁɛ siɲɟɛ ɟivɛ ɟəp ɟinɔkkjo ɟɛnoli ɟɛnunkʲ fɛɟə pʉɔddʒa kalidʒine ɟɛʁo ɟɛɹ ɟu ɟɔɹno ɟu: ɟɔɹnata mandʒəɹ suɟɛ kɔʃʒitaɹ kuɟɛta ɟividʒiк pʉndʒɛɹɛ pʉndʒɛ nɛɟi: mɛɹɟɛɹɛ mɛɹɟɛ ɟʒaʃɛ:ɹɛ ɟɛɹɛ ɟʒiraɹɛ ɟʒira: ɟʒira: strindʒɛɹɛ strindʒɛ tɛɹɟɛɹɛ ʃtɛɹɟɛ tɹadʒɛ iɲpindʒɛɹɛ iɲpindʒɛ ɟɛttare ɟɛtɛ ɟɔkare ɟuʁɛ ɟuʒa: skʉɹɟɛ kʉɹɟɛ ɟɛʁare ɟʒale iʃɛndʒiаг gɹɛɟɟi

## Appendix 4 - Words containing each segment

ḡirejtu nēḡu nēḡu ruḡe ḡen

**ts** 02A6 51

sots skōrtsa skwartse skōartsə tṣəstə pantse tsarə ḡətsə simtsi altsare tsine inḡetsa putsin subtsire retsint

**ʈ** 02A7 44

ifēʈi sɔʈo utʈello utʈel ʈē seḡpēʈi semēʈi semenʈe səminʈə radi:ʈe rəḡəʈinə kortiʈe kəʈʈisi kortetʈa kəʈʈisə ʈeʈʈi ʈar ʈes ʈes nariʈe dēʈi pittʈolo piʈʈor panʈa pintetʈe peʈo ʈṣəʈə ʈelo ʈi:l ʈer ḡjattʈa ḡlatʈe ʈenere ʈinize ʈenuʈə ʈimē mōʈi noʈe sēʈiḡ maʈa: utʈidere utʈide kattʈare ʈesi: caʈa: paḡʈiḡ ʈimine ma:ḡʈi: ḡatʈe:re zəʈṣə alʈa: tɔʈfere tɔartʈe ʈe:r ʈjade ʈira eʈar lanʈare lanʈa: arronʈare kuʈfire ziʈe ʈāte ḡjattʈjare ḡlatʈa: inʈar inʈendjare inʈindze muʈo anʈo pittʈino piʈʈul estreʈo suʈiḡ suʈiḡ ʈō reʈente ʈesēʈi ʈesēʈi reʈe seʈ viʈino viʈin veʈin rɔʈ krotʈeo ʈiḡkwe 'ʈiḡk ʈinʈ ʈine ʈe ʈe ʈemu:t

**β** 03B2 65

arβol kəβelu kaβeθa kəβesə saβru saβru biβer səβe laβar nweβo

**θ** 03B8 55

peθ raiθ korteθa kaβeθa nariθ peθiolo panθa θjelo θeniθa konoθer kaθar jaθer alθar torθer θerar lanθar deθir entumeθer kreθer enθender reθjente beθino θerka θinko

**ē** 1EBD 64

seḡpēʈi siḡpēti sjeḡpē semēʈi simēti simēs vivēda vivēde dēʈi dēti mē ētreḡnə sē vētu vētu pēsar pēsar sēʈiḡ sētir kṣēdḡ fēdḡ fēder istēdḡ iʈtēder sētar sētar ēʈugar ēʈuyar ēfle īsēdjar ʈesēʈi ʈesēʈi plē vizē sēk sēk nē

## Appendix 5 - Word Lists by Language

### Latin

Cognate	IPA	Sounds
I-Primary	ego:	ay-g-O
We-Primary	no:s	n-O-s
YouPlural-Primary	wo:s	w-O-s
YouSingular-Primary	tu:	t-U
Woman-Primary	fe:mina	f-ai-m-e-n-ah
Woman-Mulier	mulierem	m-u-l-e-ay-r-ay-m
Woman-Domina	domina	d-oh-m-e-n-ah
Child-Primary	infantem	e-n-f-ah-n-t-ay-m
Wife-Primary	sponsa	s-p-oh-n-s-ah
Husband-Primary	mari:tus	m-ah-r-E-t-u-s
Husband-Sponsus	sponsus	s-p-oh-n-s-u-s
Husband-Socius	sokius	s-oh-k-e-u-s
Mother-Primary	ma:trem	m-A-t-r-ay-m
Father-Primary	patre	p-ah-t-r-ay
Father-Tata	tata	t-ah-t-ah
Animal-Primary	animalia	ah-n-e-m-ah-l-e-ah
Animal-Bestia	be:stia	b-ai-s-t-e-ah
Fish-Piskem	piskem	p-e-s-k-ay-m
Bird-Avem	awem	ah-w-ay-m
Bird-Avicellum	awikellum	ah-w-e-k-ay-l-l-u-m
Bird-Passerem	passerem	p-ah-s-s-ay-r-ay-m
Dog-Primary	kanem	k-ah-n-ay-m
Louse-Primary	peduklus	p-ay-d-u-k-l-u-s
Snake-Primary	serpentem	s-ay-r-p-ay-n-t-ay-m
Worm-Primary	wermem	w-ay-r-m-ay-m
Tree-Primary	arborem	ah-r-b-oh-r-ay-m
Forest-Primary	silwa	s-e-l-w-ah
Stick-Primary	pa:lus	p-A-l-u-s
Fruit-Primary	fru:ktus	f-r-U-k-t-u-s
Seed-Primary	se:men	s-ai-m-ay-n
Seed-Sementis	sementis	s-ay-m-ay-n-t-e-s
Seed-Gratum	gra:num	g-r-A-n-u-m
Leaf-Primary	folia	f-oh-l-e-ah
Leaf-Frondea	frondea	f-r-oh-n-d-ay-ah
Root-Primary	ra:di:kem	r-A-d-E-k-ay-m
Root-Radix	ra:di:ke	r-A-d-E-k-ay
Root-Radicina	ra:di:ki:na	r-A-d-E-k-E-n-ah
BarkOfATree-Primary	kortikem	k-oh-r-t-e-k-ay-m
BarkOfATree-Corticea	kortikea	k-oh-r-t-e-k-ay-ah
BarkOfATree-Skortea	skortea	s-k-oh-r-t-ay-ah
Flower-Primary	flo:rem	f-l-O-r-ay-m
Grass-Primary	herba	h-ay-r-b-ah
Grass-Gratum	gra:men	g-r-A-m-ay-n
Rope-Primary	fu:nem	f-U-n-ay-m
Rope-Restis	restem	r-ay-s-t-ay-m
Skin-Pellis	pellem	p-ay-l-l-ay-m
Meat-Primary	karnem	k-ah-r-n-ay-m
Meat-Vivenda	wi:wenda	w-E-w-ay-n-d-ah
Blood-Primary	sang*inem	s-ah-n-gw-e-n-ay-m
Bone-Primary	ossum	oh-s-s-u-m
FatNoun-Primary	adepem	ah-d-ay-p-ay-m
Egg-Primary	o:wum	O-w-u-m
Horn-Primary	kornu:	k-oh-r-n-U

## Appendix 5 - Word Lists by Language

Tail-Primary	kaʊda	k-au-d-ah
Feather-Primary	plu:ma	p-l-U-m-ah
Feather-Penna	penna	p-ay-n-n-ah
Hair-Primary	pilus	p-e-l-u-s
Hair-Capillus	kapillus	k-ah-p-e-l-l-u-s
Head-Primary	kapitia	k-ah-p-e-t-e-ah
Head-Testa	testa	t-ay-s-t-ah
Ear-Primary	o:rikla	O-r-e-k-l-ah
Eye-Primary	okulus	oh-k-u-l-u-s
Nose-Primary	na:sus	n-A-s-u-s
Mouth-Primary	bukka	b-u-k-k-ah
Mouth-Gula	gula	g-u-l-ah
Tooth-Primary	dentem	d-ay-n-t-ay-m
Fingernail-Primary	ungula	u-n-g-u-l-ah
Foot-Primary	pedem	p-ay-d-ay-m
Leg-Gamba	gamba	g-ah-m-b-ah
Leg-Perna	perna	p-ay-r-n-ah
Leg-Petiolus	petiolus	p-ay-t-e-oh-l-u-s
Knee-Geniculum	genikulum	g-ay-n-e-k-u-l-u-m
Hand-Primary	manum	m-ah-n-u-m
Wing-Primary	a:la	A-l-ah
Belly-Primary	wentrem	w-ay-n-t-r-ay-m
Belly-Pantex	pantikem	p-ah-n-t-e-k-ay-m
Guts-Primary	intera:nea	e-n-t-ay-r-A-n-ay-ah
Neck-Primary	kollum	k-oh-l-l-u-m
Back-Primary	dorsum	d-oh-r-s-u-m
Back-Spatula	spatula	s-p-ah-t-u-l-ah
Breast-Primary	sinus	s-e-n-u-s
Breast-Pectus	pektus	p-ay-k-t-u-s
Heart-Primary	kor	k-oh-r
Heart-Anima	anima	ah-n-e-m-ah
Liver-Primary	fi:ka:tum	f-E-k-A-t-u-m
Sun-Primary	so:lem	s-O-l-ay-m
Sun-Soliculus	solikulus	s-oh-l-e-k-u-l-u-s
Moon-Primary	lu:na	l-U-n-ah
Star-Primary	ste:lla	s-t-ai-l-l-ah
Water-Primary	ak <sup>w</sup> a	ah-kw-ah
Rain-Primary	pluwia	p-l-u-w-e-ah
River-Primary	flu:men	f-l-U-m-ay-n
River-Rivus	ri:wus	r-E-w-u-s
River-Riparia	ri:pa:ria	r-E-p-A-r-e-ah
Lake-Primary	lakum	l-ah-k-u-m
Sea-Primary	mare	m-ah-r-ay
Salt-Primary	sa:lem	s-A-l-ay-m
Stone-Primary	saksum	s-ah-k-s-u-m
Stone-Petra	petra	p-ay-t-r-ah
Stone-Lapidem	lapidem	l-ah-p-e-d-ay-m
Sand-Primary	hare:na	h-ah-r-ai-n-a
Sand-Sabulum	sabulum	s-ah-b-u-l-u-m
Sand-Sabula	sabula	s-ah-b-u-l-ah
Dust-Primary	pulwerem	p-u-l-w-ay-r-ay-m
Dust-Pulwus	pulwus	p-u-l-w-u-s
Earth-Primary	terra	t-ay-r-r-ah
Cloud-Primary	nu:be:s	n-U-b-ai-s
Cloud-Nubilus	nu:bilus	n-U-b-e-l-u-s
Fog-Primary	ka:li:ginem	k-A-l-E-g-e-n-ay-m
Fog-Nebula	nebula	n-ay-b-u-l-ah

## Appendix 5 - Word Lists by Language

Fog-Tenebrae	tene:braj	t-ay-n-ai-b-r-aj
Fog-Tenebras	tene:bra:s	t-ay-n-ai-b-r-A-s
Fog-Fumata	fu:ma:ta	f-U-m-A-t-ah
Fog-Caecia	kajkia	k-aj-k-e-ah
Sky-Primary	kajlum	k-aj-l-u-m
Wind-Primary	wentum	w-ay-n-t-u-m
Snow-Primary	niwem	n-e-w-ay-m
Ice-Primary	gelu:	g-ay-l-U
Smoke-Primary	fu:mus	f-U-m-u-s
Fire-Focus	fokum	f-oh-k-u-m
Ash-Primary	kinerem	k-e-n-ay-r-ay-m
Road-Primary	wia	w-e-ah
Road-Strata	stra:ta	s-t-r-A-t-ah
Road-Camminus	kammi:num	k-ah-m-m-E-n-u-m
Mountain-Primary	montem	m-oh-n-t-ay-m
Mountain-Montanea	monta:nea	m-oh-n-t-A-n-ay-ah
Night-Primary	noctem	n-oh-tya-t-ay-m
Day-Primary	die:s	d-e-ai-s
Day-Diurnus	diurnum	d-e-u-r-n-u-m
Day-Diurnata	diurna:ta	d-e-u-r-n-A-t-ah
Year-Primary	annum	ah-n-n-u-m
Name-Nomen	no:men	n-O-m-ay-n
Name-Nominem	no:minem	n-O-m-e-n-ay-m
Tongue-Primary	ling <sup>w</sup> a	l-e-n-gw-ah
ToDrink-Primary	bibere	b-e-b-ay-r-ay
ToEat-Primary	komedere	k-oh-m-ay-d-ay-r-ay
ToEat-Manducare	manduka:re	m-ah-n-d-u-k-A-r-ay
ToBite-Primary	morde:re	m-oh-r-d-ai-r-ay
ToBite-Morsicare	morsika:re	m-oh-r-s-e-k-A-r-ay
ToSuck-Primary	su:gere	s-U-g-ay-r-ay
ToSpit-Primary	konspuere	k-oh-n-s-p-u-ay-r-ay
ToSpit-Sputare	sputere	s-p-u-t-ay-r-ay
ToVomit-Primary	womere	w-oh-m-ay-r-ay
ToBlow-Primary	suffla:re	s-u-f-f-l-A-r-ay
ToBreathe-Primary	respi:ra:re	r-ay-s-p-E-r-A-r-ay
ToLaugh-Primary	ri:de:re	r-E-d-ai-r-ay
ToSee-Primary	wide:re	w-e-d-ai-r-ay
ToHear-Primary	audi:re	au-d-E-r-ay
ToKnow-Primary	ski:re	s-k-E-r-ay
ToKnow-Sapere	sapere	s-ah-p-ay-r-ay
ToKnow-Cognoscere	kogno:skere	k-oh-g-n-O-s-k-ay-r-ay
ToThink-Primary	ko:gita:re	k-O-g-e-t-A-r-ay
ToThink-Pensare	pe:nsa:re	p-ai-n-s-A-r-ay
ToSmell-Sentire	senti:re	s-ay-n-t-E-r-ay
ToSmell-Olere	ole:re	oh-l-ai-r-ay
ToSmell-Odorare	odo:ra:re	oh-d-O-r-A-r-ay
ToSmell-Fragrare	fra:gra:re	f-r-A-g-r-A-r-ay
ToFear-Primary	time:re	t-e-m-ai-r-ay
ToFear-Tremere	tremere	t-r-ay-m-ay-r-ay
ToSleep-Primary	dormi:re	d-oh-r-m-E-r-ay
ToLive-Primary	wi:were	w-E-w-ay-r-ay
ToKill-Primary	neka:re	n-ay-k-A-r-ay
ToKill-Tutari	tu:ta:ri	t-U-t-A-r-e
ToKill-Mactare	makta:re	m-ah-k-t-A-r-ay
ToKill-Occidere	okki:dere	oh-k-k-E-d-ay-r-ay
ToFight-Primary	pugna:re	p-u-g-n-A-r-ay
ToFight-Battuere	battuere	b-ah-t-t-u-ay-r-ay

## Appendix 5 - Word Lists by Language

ToHunt-Captiare	kaptia:re	k-ah-p-t-e-A-r-ay
ToHit-Primary	pulsa:re	p-u-l-s-A-r-ay
ToCut-Primary	seka:re	s-ay-k-A-r-ay
ToCut-Curtare	kurta:re	k-u-r-t-A-r-ay
ToCut-Excurtare	ekskurta:re	ay-k-s-k-u-r-t-A-r-ay
ToCut-Taliare	ta:lia:re	t-A-l-e-A-r-ay
ToSplit-Primary	di:widere	d-E-w-e-d-ay-r-ay
ToSplit-Scindere	skindere	s-k-e-n-d-ay-r-ay
ToSplit-Findere	findere	f-e-n-d-ay-r-ay
ToSplit-Partire	parti:re	p-ah-r-t-E-r-ay
ToSplit-Separare	se:para:re	s-ai-p-ah-r-A-r-ay
ToStab-Primary	pungere	p-u-n-g-ay-r-ay
ToStab-Iugulare	jugula:re	jg-u-g-u-l-A-r-ay
ToScratch-Primary	ra:dere	r-A-d-ay-r-ay
ToDig-Primary	fodere	f-oh-d-ay-r-ay
ToDig-Cavare	kawa:re	k-ah-w-A-r-ay
ToDig-Excavare	ekskawa:re	ay-k-s-k-ah-w-A-r-ay
ToSwim-Primary	nata:re	n-ah-t-A-r-ay
ToSwim-Navigare	naviga:re	n-ah-v-e-g-A-r-ay
ToFly-Primary	wola:re	w-oh-l-A-r-ay
ToWalk-Mergere	mergere	m-ay-r-g-ay-r-ay
ToWalk-Ambitare	ambita:re	ah-m-b-e-t-A-r-ay
ToCome-Primary	weni:re	w-ay-n-E-r-ay
ToLieAsInABed-Primary	ekstendere	ay-k-s-t-ay-n-d-ay-r-ay
ToLieAsInABed-Iacere	jake:re	jg-ah-k-ai-r-ay
ToSit-Primary	sede:re	s-ay-d-ai-r-ay
ToSit-Sedentare	sedenta:re	s-ay-d-ay-n-t-A-r-ay
ToStand-Primary	sta:re	s-t-A-r-ay
ToStand-Levare	leva:re	l-ay-v-A-r-ay
ToTurnIntransitive-Primary	torna:re	t-oh-r-n-A-r-ay
ToTurnIntransitive-Gyrate	gyra:re	g-eeh-r-A-r-ay
ToTurnIntransitive-Torquere	tork <sup>w</sup> e:re	t-oh-r-kw-ai-r-ay
ToFall-Primary	kadere	k-ah-d-ay-r-ay
ToGive-Primary	dare	d-ah-r-ay
ToGive-Donare	dona:re	d-oh-n-A-r-ay
ToHold-Primary	tene:re	t-ay-n-ai-r-ay
ToSqueeze-Primary	eksprimere	ay-k-s-p-r-e-m-ay-r-ay
ToSqueeze-Serrere	serrere	s-ay-r-r-ay-r-ay
ToSqueeze-Serare	serare	s-ay-r-ah-r-ay
ToSqueeze-Appetorare	appektora:re	ah-p-p-ay-k-t-oh-r-A-r-ay
ToSqueeze-Stringere	stringere	s-t-r-e-n-g-ay-r-ay
ToRub-Primary	frika:re	f-r-e-k-A-r-ay
ToRub-Frictare	frikta:re	f-r-e-k-t-A-r-ay
ToWash-Primary	lawa:re	l-ah-w-A-r-ay
ToWipe-Primary	tergere	t-ay-r-g-ay-r-ay
ToWipe-Extergere	ekstergere	ay-k-s-t-ay-r-g-ay-r-ay
ToWipe-Exsucare	eksu:ka:re	ay-k-s-U-k-A-r-ay
ToWipe-Limpidare	limpida:re	l-e-m-p-e-d-A-r-ay
ToPull-Primary	tira:re	t-e-r-A-r-ay
ToPull-Pulsare	pulsa:re	p-u-l-s-A-r-ay
ToPull-Trahere	trahere	t-r-ah-h-ay-r-ay
ToPush-Primary	impingere	e-m-p-e-n-g-ay-r-ay
ToThrow-Primary	jakta:re	jg-ah-k-t-A-r-ay
ToThrow-Lanceare	lankea:re	l-ah-n-k-ay-A-r-ay
ToThrow-Eruncare	e:runka:re	ai-r-u-n-k-A-r-ay
ToTie-Primary	liga:re	l-e-g-A-r-ay
ToTie-Aptare	apta:re	ah-p-t-A-r-ay

## Appendix 5 - Word Lists by Language

ToSew-Primary	ko:nsuere	k-O-n-s-u-ay-r-ay
ToCount-Primary	komputa:re	k-oh-m-p-u-t-A-r-ay
ToCount-Numerare	numera:re	n-u-m-ay-r-A-r-ay
ToSay-Primary	di:kere	d-E-k-ay-r-ay
ToSay-Exponere	ekspo:nere	ay-k-s-p-O-n-ay-r-ay
ToSing-Primary	kanta:re	k-ah-n-t-A-r-ay
ToPlay-Ludere	lu:dere	l-U-d-ay-r-ay
ToPlay-Jiocare	joka:re	jg-oh-k-A-r-ay
ToFloat-Primary	flu:ktua:re	f-l-U-k-t-u-A-r-ay
ToFloat-Flutare	fluita:re	f-l-u-e-t-A-r-ay
ToFlow-Primary	fluere	f-l-u-ay-r-ay
ToFlow-Colare	ko:la:re	k-O-l-A-r-ay
ToFlow-Excurrere	ekskurrere	ay-k-s-k-u-r-r-ay-r-ay
ToFlow-Currere	kurrere	k-u-r-r-ay-r-ay
ToFreeze-Primary	gela:re	g-ay-l-A-r-ay
ToFreeze-Glaciare	glakia:re	g-l-ah-k-e-A-r-ay
ToFreeze-Inglaciare	inglakia:re	e-n-g-l-ah-k-e-A-r-ay
ToSwell-Primary	infla:re	e-n-f-l-A-r-ay
ToSwell-Conflare	konfla:re	k-oh-n-f-l-A-r-ay
ToSwell-Intumescere	intume:skere	e-n-t-u-m-ai-s-k-ay-r-ay
ToSwell-Crescere	kre:ske:re	k-r-ai-s-k-ai-r-ay
ToBurn-Cremare	krema:re	k-r-ay-m-A-r-ay
ToBurn-Flammare	flamma:re	f-l-ah-m-m-A-r-ay
ToBurn-Ardere	arde:re	ah-r-d-ai-r-ay
ToBurn-Flagrare	flagra:re	f-l-ah-g-r-A-r-ay
ToBurn-Incendere	inkendere	e-n-k-ay-n-d-ay-r-ay
ToBurn-Ustulare	ustula:re	u-s-t-u-l-A-r-ay
All-Primary	omnis	oh-m-n-e-s
All-Totus	to:tus	t-O-t-u-s
Many-Primary	multus	m-u-l-t-u-s
Many-Tantus	tantus	t-ah-n-t-u-s
Few-Primary	paukus	p-au-k-u-s
Other-Primary	alter	ah-l-t-ay-r
Other-Alius	alius	ah-l-e-u-s
Big-Primary	magnus	m-ah-g-n-u-s
Big-Grandem	grandem	g-r-ah-n-d-ay-m
Big-Majjorem	majjo:rem	m-aj-jg-O-r-ay-m
Long-Longum	longus	l-oh-n-g-u-s
Long-Largum	largus	l-ah-r-g-u-s
Wide-Primary	la:tus	l-A-t-u-s
Wide-Amplum	amplus	ah-m-p-l-u-s
Thick-Primary	krassus	k-r-ah-s-s-u-s
Thick-Spissum	spissus	s-p-e-s-s-u-s
Thick-Gurdum	gurdus	g-u-r-d-u-s
Thick-Grossus	grossus	g-r-oh-s-s-u-s
Heavy-Primary	grawis	g-r-ah-w-e-s
Heavy-Lurdus	lurdus	l-u-r-d-u-s
Small-Primary	pittitus	p-e-t-t-e-t-u-s
Small-Pittinus	'pittinus	p-e-t-t-e-n-u-s
Small-Pitulus	pitulus	p-e-t-u-l-u-s
Short-Primary	kurtus	k-u-r-t-u-s
Short-Brevis	brewis	b-r-ay-w-e-s
Narrow-Primary	angustus	ah-n-g-u-s-t-u-s
Narrow-Strictus	striktus	s-t-r-e-k-t-u-s
Thin-Primary	minu:tus	m-e-n-U-t-u-s
Thin-Delicatus	de:lika:tus	d-ai-l-e-k-A-t-u-s
Thin-Subtilis	subti:lem	s-u-b-t-E-l-ay-m



## Appendix 5 - Word Lists by Language

Warm-Primary	kalidus	k-ah-l-e-d-u-s
Cold-Primary	fri:gidus	f-r-E-g-e-d-u-s
Cold-Recens	rekentem	r-ay-k-ay-n-t-ay-m
Full-Primary	ple:nus	p-l-ai-n-u-s
New-Primary	nowus	n-oh-w-u-s
Old-Primary	wetulus	w-ay-t-u-l-u-s
Good-Primary	bonus	b-oh-n-u-s
Bad-Primary	malus	m-ah-l-u-s
Rotten-Primary	putridus	p-u-t-r-e-d-u-s
Rotten-Putrem	putrem	p-u-t-r-ay-m
Dirty-Primary	sordidus	s-oh-r-d-e-d-u-s
Dirty-Spurcus	spurcus	s-p-u-r-tya-u-s
Straight-Primary	di:re:ktus	d-E-r-ai-k-t-u-s
Round-Primary	rotundus	r-oh-t-u-n-d-u-s
SharpAsAKnife-Primary	aku:tus	ah-k-U-t-u-s
DullAsAKnife-Primary	hebetem	h-ay-b-ay-t-ay-m
DullAsAKnife-Retusus	retu:sus	r-ay-t-U-s-u-s
Smooth-Primary	sua:wem	s-u-A-w-ay-m
Smooth-Nitidus	nitidus	n-e-t-e-d-u-s
Wet-Primary	u:midus	U-m-e-d-u-s
Wet-Udus	u:dus	U-d-u-s
Dry-Primary	sikkus	s-e-k-k-u-s
Correct-Primary	korre:ktus	k-oh-r-r-ai-k-t-u-s
Near-Primary	proksimus	p-r-oh-k-s-e-m-u-s
Near-AdPrope	adpropre	ah-d-p-r-oh-p-r-ay
Near-Pressus	pressus	p-r-ay-s-s-u-s
Near-Vicinus	wi:ki:nus	w-E-k-E-n-u-s
Near-Circa	kirka	k-e-r-k-ah
Right-Dextrum	dekstrum	d-ay-k-s-t-r-u-m
Left-Primary	sinistrum	s-e-n-e-s-t-r-u-m
Red-Primary	russus	r-u-s-s-u-s
Red-Vermiculus	vermikulus	v-ay-r-m-e-k-u-l-u-s
Red-Rubeus	rubeus	r-u-b-ay-u-s
Green-Primary	wiridem	w-e-r-e-d-ay-m
Yellow-Primary	galbinus	g-ah-l-b-e-n-u-s
Yellow-Amarellus	amarellus	ah-m-ah-r-ay-l-l-u-s
Yellow-Croceus	krokeus	k-r-oh-k-ay-u-s
White-Primary	albus	ah-l-b-u-s
One-Primary	u:nus	U-n-u-s
Two-Duos	duo:s	d-u-O-s
Two-Duae	duaj	d-u-aj
Two-Duas	duas	d-u-ah-s
Three-Primary	tre:s	t-r-ai-s
Four-Primary	k <sup>w</sup> attwor	kw-ah-t-t-w-oh-r
Five-Primary	k <sup>w</sup> i:nk <sup>w</sup> e	kw-E-n-kw-ay
Here-Primary	ekkumhi:k	ay-k-k-u-m-h-E-k
There-Primary	illa:k	e-l-l-A-k
There-Ibi	ibi:	e-b-E
Who-Qui	k <sup>w</sup> is	kw-e-s
Who-Quem	k <sup>w</sup> em	kw-ay-m
What-Primary	k <sup>w</sup> id	kw-e-d
When-Quando	k <sup>w</sup> ando:	kw-ah-n-d-O
How-Quomodo	k <sup>w</sup> o:modo	kw-O-m-oh-d-oh
Not-Primary	no:n	n-O-n
Not-Nec	nek	n-ay-k
At-Primary	ad	ah-d
In-In	in	e-n

## Appendix 5 - Word Lists by Language

In-Deintus	deintus	d-ay-e-n-t-u-s
With-Cum	kum	k-u-m
With-Abhoc	abhoc	ah-b-h-oh-tya
And-Et	et	ay-t
And-Si	si:k	s-E-k
Because-Quod	k <sup>w</sup> od	kw-oh-d

## French

Cognate	IPA	Sounds
I-Primary	ʒə	gzah-aah
We-Primary	nu	n-u
YouPlural-Primary	vu	v-u
YouSingular-Primary	ty	t-eeh
Woman-Primary	fam	f-ah-m
Woman-Domina	dam	d-ah-m
Child-Primary	ãfã	NasalA-f-NasalA
Wife-Primary	epuz	ay-p-u-zz
Husband-Primary	maʁi	m-ah-rr-e
Husband-Sponsus	epu	ay-p-u
Mother-Primary	meʁ	m-ay-rr
Father-Primary	peʁ	p-ay-rr
Animal-Primary	omaj	oh-m-ah-jg
Fish-Pescion	pwasô	p-w-ah-s-on
Bird-Avicellum	wazo	w-ah-zz-oh
Dog-Primary	ʃjẽ	shh-jg-ehnn
Louse-Primary	pu	p-u
Snake-Primary	seʁpã	s-ay-rr-p-NasalA
Worm-Primary	veʁ	v-ay-rr
Tree-Primary	aʁbʁ	ah-rr-b-rr
Stick-Primary	pal	p-ah-l
Fruit-Primary	fʁʁi	f-rr-eu-e
Seed-Sementis	səməs	s-aah-m-NasalA-s
Seed-Granum	gʁen	g-rr-eh-n
Leaf-Primary	fœj	f-uuh-jg
Root-Radix	ʁadi	rr-ah-d-e
Root-Radicina	ʁasin	rr-ah-s-e-n
BarkOfATree-Skortea	ekoʁs	ay-k-oh-rr-s
Flower-Primary	flœʁ	f-l-uuh-rr
Grass-Primary	εʁb	eh-rr-b
Grass-Gramen	gʁamen	g-rr-ah-m-eh-n
Skin-Primary	kwan	k-w-ah-n
Skin-Pellis	po	p-oh
Meat-Primary	ʃeʁ	shh-eh-rr
Meat-Vivenda	vjad	v-jg-NasalA-d
Blood-Primary	sã	s-NasalA
Bone-Primary	os	euh-s
FatNoun-Crassia	gʁes	g-rr-eh-s
Egg-Primary	œf	uuh-f
Horn-Primary	kɔʁn	k-euh-rr-n
Tail-Primary	kø	k-uu
Feather-Primary	plym	p-l-eeh-m
Feather-Penna	pen	p-eh-n
Hair-Primary	pwal	p-w-ah-l
Hair-Capillus	ʃəvø	shh-aah-v-uu
Head-Primary	ʃəvɛ	shh-aah-v-eh

## Appendix 5 - Word Lists by Language

Head-Testa	tæt	t-eh-t
Ear-Primary	oʔej	oh-rr-ayj
Eye-Primary	æj	uuh-jg
Nose-Primary	ne	n-ay
Mouth-Primary	buʃ	b-u-shh
Mouth-Gula	gœl	g-uuh-l
Tooth-Primary	dā	d-NasalA
Fingernail-Primary	ōgl	on-g-l
Foot-Primary	pje	p-jg-ay
Leg-Gamba	zāb	gzah-NasalA-b
Knee-Geniculum	zənu	gzah-aah-n-u
Hand-Primary	mē	m-ehn
Wing-Primary	el	ay-l
Belly-Primary	vātʁ	v-NasalA-t-rr
Belly-Pantex	pās	p-NasalA-s
Guts-Primary	atʁaj	NasalA-t-rr-ah-jg
Neck-Primary	ku	k-u
Back-Primary	do	d-oh
Back-Spatula	epol	ay-p-oh-l
Breast-Primary	sē	s-ehn
Breast-Pectus	pi	p-e
Breast-Pectorina	pwatʁin	p-w-ah-t-rr-e-n
Heart-Primary	kœʁ	k-uuh-rr
Heart-Anima	am	a-m
Liver-Primary	fwa	f-w-a
Sun-Solliculus	sœlj	s-euh-l-ehj
Moon-Primary	lyn	l-ech-n
Star-Primary	etwal	ay-t-w-ah-l
Water-Primary	o	oh
Rain-Primary	plʁi	p-l-eu-e
River-Rivus	ʁy	rr-ech
River-Riparia	ʁivjeʁ	rr-e-v-jg-ay-rr
Lake-Primary	lak	l-ah-k
Sea-Primary	mœʁ	m-eh-rr
Salt-Primary	səl	s-eh-l
Stone-Petra	pjeʁ	p-jg-ay-rr
Sand-Sabulum	sabl	s-ah-b-l
Dust-Primary	pudʁ	p-u-d-rr
Earth-Primary	teʁ	t-ay-rr
Cloud-Primary	ny	n-ech
Fog-Tenebras	tenɛbʁ	t-ay-n-eh-b-rr
Fog-Fumata	fyme	f-ech-m-ay
Sky-Primary	sjel	s-jg-eh-l
Wind-Primary	vā	v-NasalA
Ice-Primary	zɛl	gzah-eh-l
Ice-Glacies	glas	g-l-ah-s
Fire-Focus	fø	f-uu
Ash-Primary	sādʁ	s-NasalA-d-rr
Road-Primary	vwa	v-w-ah
Road-Camminus	ʃəmē	shh-aah-m-ehnn
Mountain-Primary	mō	m-oon
Mountain-Montanea	mōtaɲ	m-on-t-ah-VdPalatalNasal
Night-Primary	nʁi	n-eu-e
Day-Diurnus	zuʁ	gzah-u-rr
Day-Diurnata	zuʁne	gzah-u-rr-n-ay
Year-Primary	ā	NasalA
Name-Nomen	nō	n-oon

## Appendix 5 - Word Lists by Language

Tongue-Primary	lāg	l-NasalA-g
ToDrink-Primary	bwaɁ	b-w-a-rr
ToEat-Manducare	māze	m-NasalA-gzah-ay
ToBite-Primary	moɁdɁ	m-oh-rr-d-rr
ToSuck-Primary	syse	s-eeh-s-ay
ToSpit-Primary	kōspyɛ	k-oon-s-p-eeh-ay
ToVomit-Primary	vomiɁ	v-oh-m-e-rr
ToBlow-Primary	sufle	s-u-f-l-ay
ToLaugh-Primary	ɁiɁ	rr-e-rr
ToSee-Primary	vwaɁ	v-w-ah-rr
ToHear-Primary	wiɁ	w-e-rr
ToKnow-Sapere	savwaɁ	s-ah-v-w-ah-rr
ToKnow-Cognoscere	kōnetɁ	k-euh-n-eh-t-rr
ToThink-Primary	kɁide	k-eu-e-d-ay
ToThink-Pensare	pāse	p-NasalA-s-ay
ToSmell-Sentire	sātɁ	s-NasalA-t-e-rr
ToSmell-Fragrare	fleɁe	f-l-eh-rr-ay
ToFear-Tremere	kɁēdɁ	k-rr-ehn-d-rr
ToSleep-Primary	dōmiɁ	d-euh-rr-m-e-rr
ToLive-Primary	vivɁ	v-e-v-rr
ToDie-Primary	muɁiɁ	m-u-rr-e-rr
ToKill-Primary	nwaje	n-w-aj-ay
ToKill-Tutari	tɁe	t-eu-ay
ToKill-Mactare	mate	m-ah-t-ay
ToKill-Occidere	ɁksiɁ	euh-k-s-e-rr
ToFight-Battuere	batɁ	b-ah-t-rr
ToHunt-Captiare	Ɂase	shh-ah-s-ay
ToHit-Primary	puse	p-u-s-ay
ToCut-Primary	sje	s-jg-ay
ToCut-Excutare	ekuɁte	ay-k-u-rr-t-ay
ToCut-Taliare	taje	t-a-jg-ay
ToSplit-Scindere	sēde	s-ehnn-d-ay
ToSplit-Findere	fādɁ	f-NasalA-d-rr
ToSplit-Partire	paktɁ	p-ah-rr-t-e-rr
ToSplit-Separare	səvɁe	s-aah-v-rr-ay
ToStab-Primary	pwēdɁ	p-w-ehnn-d-rr
ToStab-Iugulare	zygyle	gzah-eeh-g-eeh-l-ay
ToScratch-Rasare	Ɂaze	rr-a-zz-ay
ToDig-Primary	fwɁ	f-w-e-rr
ToDig-Cavare	Ɂave	shh-aah-v-ay
ToSwim-Navigare	naze	n-ah-gzah-ay
ToFly-Primary	vole	v-oh-l-ay
ToWalk-Primary	Ɂəmine	shh-aah-m-e-n-ay
ToWalk-Marcher	maɁɁe	m-ah-rr-shh-ay
ToCome-Primary	vəniɁ	v-aah-n-e-rr
ToLieAsInABed-Primary	etādɁ	ay-t-NasalA-d-rr
ToLieAsInABed-Iacere	zeziɁ	gzah-ay-zz-e-rr
ToSit-Primary	swaɁ	s-w-ah-rr
ToStand-Primary	etɁ	eh-t-rr
ToStand-Levare	love	l-aah-v-ay
ToStand-Altiare	ose	oh-s-ay
ToTurnIntransitive-Primary	tuɁne	t-u-rr-n-ay
ToTurnIntransitive-Gyrare	ziɁe	gzah-e-rr-ay
ToTurnIntransitive-AncestralClass3	viɁe	v-e-rr-ay
ToTurnIntransitive-Torquere	tōdɁ	t-euh-rr-d-rr
ToFall-Primary	ɁwaɁ	shh-w-ah-rr
ToFall-Tumbare	tōbe	t-on-b-ay

## Appendix 5 - Word Lists by Language

ToGive-Donare	dōne	d-euh-n-ay
ToHold-Primary	tōnɪk	t-aah-n-e-rr
ToSqueeze-Primary	epkēdɪk	ay-p-rr-ehnn-d-rr
ToSqueeze-Serare	seke	s-ay-rr-ay
ToSqueeze-Stringere	etkēdɪk	ay-t-rr-ehnn-d-rr
ToRub-Primary	fɪeje	f-rr-ehj-ay
ToRub-Frictare	fɪote	f-rr-oh-t-ay
ToWash-Primary	lave	l-ah-v-ay
ToWipe-Exsucare	esqije	ay-s-eu-e-jg-ay
ToPull-Primary	tike	t-e-rr-ay
ToPull-Pulsare	puse	p-u-s-ay
ToPull-Trahere	tɪek	t-rr-eh-rr
ToThrow-Primary	zote	gzah-aah-t-ay
ToThrow-Lanceare	lāse	l-NasalA-s-ay
ToTie-Primary	lie	l-e-ay
ToSew-Primary	kudɪk	k-u-d-rr
ToCount-Primary	kōte	k-on-t-ay
ToCount-Numerare	nōbke	n-oon-b-rr-ay
ToSay-Primary	dɪk	d-e-rr
ToSing-Primary	ʃate	shh-NasalA-t-ay
ToPlay-Jiocare	zwe	gzah-w-ay
ToFloat-Primary	flyktqe	f-l-eeh-k-t-eu-ay
ToFlow-Primary	flye	f-l-eeh-ay
ToFlow-Colare	kule	k-u-l-ay
ToFlow-Currere	kukɪk	k-u-rr-e-rr
ToFreeze-Primary	zole	gzah-aah-l-ay
ToFreeze-Glaciare	glase	g-l-ah-s-ay
ToSwell-Primary	āfle	NasalA-f-l-ay
ToSwell-Conflare	gōfle	g-on-f-l-ay
ToSwell-Crescere	kɪwatɪk	k-rr-w-ah-t-rr
ToBurn-Cremare	kɪame	k-rr-ah-m-ay
ToBurn-Flammare	flame	f-l-ah-m-ay
ToBurn-Ardere	aɪdɪk	ah-rr-d-rr
ToBurn-Flagrare	flagke	f-l-ah-g-rr-ay
ToBurn-Incendere	ēsādje	ehnn-s-NasalA-d-jg-ay
All-Totus	tu	t-u
Many-Primary	mu	m-u
Some-Primary	okæ	oh-k-uuhn
Few-Primary	pø	p-uu
Other-Primary	otɪk	oh-t-rr
Big-Grandem	gɪā	g-rr-NasalA
Long-Longum	lō	l-oon
Long-Largum	laɪʒ	l-ah-rr-gzah
Wide-Primary	le	l-ay
Wide-Amplum	āpl	NasalA-p-l
Thick-Primary	gɪa	g-rr-a
Thick-Spissum	epe	ay-p-ay
Thick-Grossus	gɪo	g-rr-oh
Heavy-Primary	gɪijef	g-rr-e-jg-eh-f
Heavy-Lurdus	luɪk	l-u-rr
Small-Primary	pōti	p-aah-t-e
Short-Primary	kuk	k-u-rr
Short-Brevis	bɪef	b-rr-eh-f
Narrow-Strictus	etɪwa	ay-t-rr-w-ah
Thin-Primary	mōny	m-aah-n-eeh
Thin-Delicatus	du:ʒe:	d-U-gzah-ai
Warm-Primary	ʃo	shh-oh

## Appendix 5 - Word Lists by Language

Cold-Primary	fɿwa	f-rr-w-ah
Full-Primary	plē	p-l-ehnn
New-Primary	nuvo	n-u-v-oh
Old-Primary	vjə	v-jg-uu
Good-Primary	bō	b-on
Bad-Primary	mal	m-ah-l
Straight-Primary	dɿwa	d-rr-w-ah
Round-Primary	ɾō	rr-on
Smooth-Nitidus	net	n-eh-t
Dry-Primary	sek	s-eh-k
Near-Pressus	pɿe	p-rr-ay
Near-Vicinus	vwazē	v-w-ah-zz-ehnn
Near-Circa	θerka	th-ay-er-k-ah
Far-Primary	lwētē	l-w-ehnn-t-ehnn
Left-Primary	sənɛstɿ	s-aah-n-eh-s-t-rr
Red-Primary	ɾu	rr-u
Red-Vermiculus	vɛɾmɛj	v-eh-rr-m-ehj
Red-Rubeus	ɾuʒ	rr-u-gzah
Green-Primary	vɛɾ	v-ay-rr
Yellow-Primary	ʒon	gzah-oh-n
One-Primary	œ	uuhn
Two-Duos	dø	d-uu
Three-Primary	tɿwa	t-rr-w-a
Four-Primary	katɿ	k-ah-t-rr
Five-Primary	sɛk	s-ehn-k
There-Primary	la	l-ah
Who-Qui	ki	k-e
What-Primary	kwa	k-w-ah
When-Quando	kā	k-NasalA
How-Quomodo	kɔmā	k-euh-m-NasalA
Not-Primary	nō	n-oon
Not-Nec	ni	n-e
At-Primary	a	ah
In-Deintus	dā	d-NasalA
With-Abhoc	avek	ah-v-ay-k
And-Et	e	ay
And-Si	si	s-e
Because-Quod	kə	k-aah

## Spanish

Cognate	IPA	Sounds
I-Primary	jo	VdPalatalFricative-oh
We-Primary	nos	n-oh-s
YouPlural-Primary	bos	b-oh-s
YouSingular-Primary	tu	t-u
YouSingular-VostramMercedem	usted	u-s-t-ay-d
Woman-Primary	embra	ay-m-b-er-ah
Woman-Mulier	muxer	m-u-xha-ay-er
Woman-Domina	dɔna	d-oh-VdPalatalNasal-ah
Child-Primary	infante	e-n-f-ah-n-t-ay
Child-Ninnus	nijo	n-e-VdPalatalNasal-oh
Wife-Primary	esposa	ay-s-p-oh-s-ah
Husband-Primary	mariño	m-ah-er-e-dd-oh
Husband-Sponsus	esposo	ay-s-p-oh-s-oh
Mother-Primary	maðre	m-ah-dd-er-ay

## Appendix 5 - Word Lists by Language

Father-Primary	paðre	p-ah-dd-er-ay
Father-Tata	tata	t-ah-t-ah
Animal-Primary	alimapa	ah-l-e-m-ah-VdPalatalNasal-ah
Fish-Piskem	peθ	p-ay-th
Bird-Avem	abe	ah-b-ay
Bird-Passerem	paxaro	p-ah-xha-ah-er-oh
Dog-Primary	kan	k-ah-n
Louse-Primary	pjoxo	p-jg-oh-xha-oh
Snake-Primary	serpjente	s-ay-er-p-jg-ay-n-t-ay
Worm-Primary	berme	b-ay-er-m-ay
Tree-Primary	arβol	ah-er-bb-oh-l
Forest-Primary	selba	s-ay-l-b-ah
Stick-Primary	palo	p-ah-l-oh
Fruit-Primary	fruto	f-er-u-t-oh
Seed-Sementis	simjente	s-e-m-jg-ay-n-t-ay
Seed-Granum	grano	g-er-ah-n-oh
Leaf-Primary	oxa	oh-xha-ah
Root-Primary	raiθ	r-ah-e-th
BarkOfATree-Corticea	korteθa	k-oh-er-t-ay-th-ah
Flower-Primary	flor	f-l-oh-er
Grass-Primary	jerba	VdPalatalFricative-ay-er-b-ah
Grass-Gramen	grama	g-er-ah-m-ah
Rope-Restis	rista	er-e-s-t-ah
Skin-Pellis	pjel	p-jg-ay-l
Meat-Primary	karne	k-ah-er-n-ay
Meat-Vivenda	bibjenda	b-e-b-jg-ay-n-d-ah
Blood-Primary	sangre	s-ah-nya-g-er-ay
Bone-Primary	weso	w-ay-s-oh
FatNoun-Crassia	grasa	g-er-ah-s-ah
Egg-Primary	webo	w-ay-b-oh
Horn-Primary	kwerno	k-w-ay-er-n-oh
Tail-Primary	kola	k-oh-l-ah
Feather-Primary	pluma	p-l-u-m-ah
Feather-Penna	pepa	p-ay-VdPalatalNasal-ah
Hair-Primary	pelo	p-ay-l-oh
Hair-Capillus	kabejo	k-ah-b-ay-VdPalatalFricative-oh
Head-Primary	kaβeθa	k-ah-bb-ay-th-ah
Ear-Primary	orexa	oh-er-ay-xha-ah
Eye-Primary	oxo	oh-xha-oh
Nose-Primary	naso	n-ah-s-oh
Nose-Nares	nariθ	n-ah-er-e-th
Mouth-Primary	boka	b-oh-k-ah
Mouth-Gula	gola	g-oh-l-ah
Tooth-Primary	djente	d-jg-ay-n-t-ay
Fingernail-Primary	upa	u-VdPalatalNasal-ah
Foot-Primary	pje	p-jg-ay
Leg-Gamba	gamba	g-ah-m-b-ah
Leg-Perna	pjerna	p-jg-ay-er-n-ah
Leg-Petiolus	peθiolo	p-ay-th-e-oh-l-oh
Knee-Genuculum	inoxo	e-n-oh-xha-oh
Hand-Primary	mano	m-ah-n-oh
Wing-Primary	ala	ah-l-ah
Belly-Primary	bjentre	b-jg-ay-n-t-er-ay
Belly-Pantex	panθa	p-ah-n-th-ah
Guts-Primary	entraña	ay-n-t-er-ah-VdPalatalNasal-ah
Neck-Primary	kwejo	k-w-ay-VdPalatalFricative-oh
Back-Spatula	espalda	ay-s-p-ah-l-d-ah

## Appendix 5 - Word Lists by Language

Breast-Primary	seno	s-ay-n-oh
Breast-Pectus	peŋʰo	p-ay-ts-oh
Heart-Anima	alma	ah-l-m-ah
Liver-Primary	iyaðo	e-juh-ah-dd-oh
Sun-Primary	sol	s-oh-l
Moon-Primary	luna	l-u-n-ah
Star-Primary	estreja	ay-s-t-er-ay-VdPalatalFricative-ah
Water-Primary	aywa	ah-juh-w-ah
Rain-Primary	jubja	VdPalatalFricative-u-b-jg-ah
River-Rivus	rio	r-e-oh
Lake-Primary	lago	l-ah-g-oh
Sea-Primary	mar	m-ah-er
Salt-Primary	sal	s-ah-l
Stone-Petra	pjeðra	p-jg-ay-dd-er-ah
Stone-Lapidem	laude	l-ah-u-d-ay
Sand-Primary	arena	ah-er-ay-n-ah
Dust-Pulwus	polbo	p-oh-l-b-oh
Earth-Primary	tjera	t-jg-ay-r-ah
Cloud-Primary	nube	n-u-b-ay
Cloud-Nubilus	nublo	n-u-b-l-oh
Fog-Primary	kalina	k-ah-l-e-n-ah
Fog-Nebula	njebla	n-jg-ay-b-l-ah
Fog-Tenebras	tinjeblas	t-e-n-jg-ay-b-l-ah-s
Fog-Fumata	fumata	f-u-m-ah-t-ah
Sky-Primary	θjelo	th-jg-ay-l-oh
Wind-Primary	bjento	b-jg-ay-n-t-oh
Snow-Primary	njebe	n-jg-ay-b-ay
Ice-Primary	jelo	VdPalatalFricative-ay-l-oh
Smoke-Primary	umo	u-m-oh
Fire-Focus	fwego	f-w-ay-g-oh
Ash-Cinisia	θeniθa	th-ay-n-e-th-ah
Road-Primary	bia	b-e-ah
Road-Strata	estrada	ay-s-t-er-ah-d-ah
Road-Camminus	kamino	k-ah-m-e-n-oh
Mountain-Primary	monte	m-oh-n-t-ay
Mountain-Montanea	montapa	m-oh-n-t-ah-VdPalatalNasal-ah
Night-Primary	noŋe	n-oh-ts-ay
Day-Primary	dia	d-e-ah
Day-Diurnus	djurno	d-jg-u-er-n-oh
Day-Diurnata	xornada	xha-oh-er-n-ah-d-ah
Year-Primary	apo	ah-VdPalatalNasal-oh
Name-Nominem	nombre	n-oh-m-b-er-ay
Tongue-Primary	leggwa	l-ay-nya-g-w-ah
ToDrink-Primary	beber	b-ay-b-ay-er
ToEat-Primary	komer	k-oh-m-ay-er
ToEat-Manducare	mandukar	m-ah-n-d-u-k-ah-er
ToBite-Primary	morðer	m-oh-er-dd-ay-er
ToBite-Morsicare	moskar	m-oh-s-k-ah-er
ToSpit-Exconspuere	eskupir	ay-s-k-u-p-e-er
ToSpit-Sputare	esputar	ay-s-p-u-t-ah-er
ToBreathe-Primary	respirar	r-ay-s-p-e-er-ah-er
ToLaugh-Primary	reir	r-ay-e-er
ToSee-Primary	ber	b-ay-er
ToHear-Primary	oir	oh-e-er
ToKnow-Sapere	saber	s-ah-b-ay-er
ToKnow-Cognoscere	konoθer	k-oh-n-oh-th-ay-er
ToThink-Primary	kwidar	k-w-e-d-ah-er



## Appendix 5 - Word Lists by Language

ToThink-Pensare	pensar	p-ay-n-s-ah-er
ToSmell-Sentire	sentir	s-ay-n-t-e-er
ToSmell-Olere	oler	oh-l-ay-er
ToFear-Primary	temer	t-ay-m-ay-er
ToFear-Tremere	tremere	t-er-ay-m-ay-er
ToSleep-Primary	dormir	d-oh-er-m-e-er
ToLive-Primary	bibir	b-e-b-e-er
ToDie-Primary	morir	m-oh-er-e-er
ToKill-Adnecare	anegar	ah-n-ay-g-ah-er
ToKill-Mactare	matar	m-ah-t-ah-er
ToFight-Primary	pupar	p-u-VdPalatalNasal-ah-er
ToFight-Battuere	batir	b-ah-t-e-er
ToHunt-Captiare	kaθar	k-ah-th-ah-er
ToHit-Primary	puxar	p-u-xha-ah-er
ToCut-Primary	segar	s-ay-g-ah-er
ToCut-Curtare	kortar	k-oh-er-t-ah-er
ToCut-Taliare	taxar	t-ah-xha-ah-er
ToSplit-Primary	dibidir	d-e-b-e-d-e-er
ToSplit-Findere	ender	ay-n-d-ay-er
ToSplit-Partire	partir	p-ah-er-t-e-er
ToSplit-Separare	separar	s-ay-p-ah-er-ah-er
ToScratch-Primary	raer	r-ah-ay-er
ToScratch-Rasare	rasar	r-ah-s-ah-er
ToScratch-Rasicare	raskar	r-ah-s-k-ah-er
ToDig-Cavare	kabar	k-ah-b-ah-er
ToDig-Excavare	eskabar	ay-s-k-ah-b-ah-er
ToSwim-Primary	nadar	n-ah-d-ah-er
ToSwim-Navigare	nabegar	n-ah-b-ay-g-ah-er
ToFly-Primary	bolar	b-oh-l-ah-er
ToWalk-Primary	kaminar	k-ah-m-e-n-ah-er
ToWalk-Ambitare	andar	ah-n-d-ah-er
ToCome-Primary	benir	b-ay-n-e-er
ToLieAsInABed-Primary	ekstender	ay-k-s-t-ay-n-d-ay-er
ToLieAsInABed-lacere	jaθer	VdPalatalFricative-ah-th-ay-er
ToSit-Primary	ser	s-ay-er
ToSit-Sedentare	sentar	s-ay-n-t-ah-er
ToStand-Primary	estar	ay-s-t-ah-er
ToStand-Levare	jebar	VdPalatalFricative-ay-b-ah-er
ToStand-Altiare	alθar	ah-l-th-ah-er
ToTurnIntransitive-Primary	tornar	t-oh-er-n-ah-er
ToTurnIntransitive-Gyrate	xirar	xha-e-er-ah-er
ToTurnIntransitive-AncestralClass3	birar	b-e-er-ah-er
ToTurnIntransitive-Torque	torθer	t-oh-er-th-ay-er
ToFall-Primary	kaer	k-ah-ay-er
ToFall-Tumbare	tumbar	t-u-m-b-ah-er
ToGive-Primary	dar	d-ah-er
ToGive-Donare	donar	d-oh-n-ah-er
ToHold-Primary	tener	t-ay-n-ay-er
ToHold-Segurar	segurar	s-ay-g-u-er-ah-er
ToSqueeze-Primary	ekspremir	ay-k-s-p-er-ay-m-e-er
ToSqueeze-Serrere	serar	s-ay-r-ah-er
ToSqueeze-Serare	θerar	th-ay-r-ah-er
ToSqueeze-Appetore	apretar	ah-p-er-ay-t-ah-er
ToSqueeze-Stringere	estrepir	ay-s-t-er-ay-VdPalatalNasal-e-er
ToRub-Primary	fregar	f-er-ay-g-ah-er
ToRub-Frictare	frotar	f-er-oh-t-ah-er
ToRub-Frictiare	frisar	f-r-e-s-ah-er

## Appendix 5 - Word Lists by Language

ToWash-Primary	laþar	l-ah-bb-ah-er
ToWipe-Extergere	estarsir	ay-s-t-ah-er-s-e-er
ToWipe-Limpidare	limpjar	l-e-m-p-jg-ah-er
ToPull-Primary	tirar	t-e-er-ah-er
ToPull-Pulsare	puxar	p-u-xha-ah-er
ToThrow-Primary	eþfar	ay-ts-ah-er
ToThrow-Lanceare	lanθar	l-ah-n-th-ah-er
ToThrow-Eruncare	arankar	ah-r-ah-n-k-ah-er
ToTie-Primary	legar	l-ay-g-ah-er
ToTie-Aptare	atar	ah-t-ah-er
ToSew-Primary	koser	k-oh-s-ay-er
ToCount-Primary	kontar	k-oh-n-t-ah-er
ToSay-Primary	deθir	d-ay-th-e-er
ToSing-Primary	kantar	k-ah-n-t-ah-er
ToPlay-Ludere	ludir	l-u-d-e-er
ToPlay-Jiocare	xugar	xha-u-g-ah-er
ToFloat-Primary	flugtwar	f-l-u-g-t-w-ah-er
ToFlow-Primary	fluir	f-l-u-e-er
ToFlow-Colare	kolar	k-oh-l-ah-er
ToFlow-Excurre	eskurir	ay-s-k-u-r-e-er
ToFlow-Currere	korer	k-oh-r-ay-er
ToFreeze-Primary	elar	ay-l-ah-er
ToSwell-Primary	inþfar	e-n-ts-ah-er
ToSwell-Intumescere	entumeθer	ay-n-t-u-m-ay-th-ay-er
ToSwell-Crescere	kreθer	k-er-ay-th-ay-er
ToBurn-Cremare	kemar	k-ay-m-ah-er
ToBurn-Ardere	arder	ah-er-d-ay-er
ToBurn-Flagrare	flagrar	f-l-ah-g-er-ah-er
ToBurn-Incendere	enθender	ay-n-th-ay-n-d-ay-er
All-Totus	todo	t-oh-d-oh
Many-Primary	muþfo	m-u-ts-oh
Many-Tantus	tanto	t-ah-n-t-oh
Some-Primary	alguno	ah-l-g-u-n-oh
Few-Primary	poko	p-oh-k-oh
Other-Primary	otro	oh-t-er-oh
Big-Primary	mapo	m-ah-VdPalatalNasal-oh
Big-Grandem	grande	g-er-ah-n-d-ay
Long-Longum	longo	l-oh-n-g-oh
Long-Largum	laryo	l-ah-er-juh-oh
Wide-Primary	lato	l-ah-t-oh
Wide-Amplum	anþfo	ah-n-ts-oh
Thick-Primary	graso	g-er-ah-s-oh
Thick-Spissum	espeso	ay-s-p-ay-s-oh
Thick-Gurdum	gordo	g-oh-er-d-oh
Heavy-Primary	grabe	g-er-ah-b-ay
Heavy-Lurdus	lerdo	l-ay-er-d-oh
Small-Pittinus	pekeþo	p-ay-k-ay-VdPalatalNasal-oh
Short-Primary	korto	k-oh-er-t-oh
Short-Brevis	brebe	b-er-ay-b-ay
Narrow-Primary	angosto	ah-n-g-oh-s-t-oh
Narrow-Strictus	estreþfo	ay-s-t-er-ay-ts-oh
Thin-Primary	menudo	m-ay-n-u-d-oh
Thin-Delicatus	delyaðo	d-ay-l-juh-ah-dd-oh
Thin-Subtilis	sutil	s-u-t-e-l
Warm-Primary	kaldo	k-ah-l-d-oh
Cold-Primary	frio	f-er-e-oh
Cold-Recens	reθjente	r-ay-th-jg-ay-n-t-ay

## Appendix 5 - Word Lists by Language

Full-Primary	leno	yuh-ay-n-oh
New-Primary	nweβo	n-w-ay-bb-oh
Old-Primary	bjexo	b-jg-ay-xha-oh
Good-Primary	bweno	b-w-ay-n-oh
Bad-Primary	malo	m-ah-l-oh
Rotten-Primary	poðriðo	p-oh-dd-er-e-dd-oh
Rotten-Putrem	poðre	p-oh-dd-er-ay
Dirty-Primary	sordido	s-oh-er-d-e-d-oh
Round-Primary	redondo	r-ay-d-oh-n-d-oh
SharpAsAKnife-Primary	ayuðo	ah-juh-u-dd-oh
Smooth-Nitidus	niðio	n-e-dd-e-oh
Dry-Primary	seko	s-ay-k-oh
Near-Primary	proximo	p-er-oh-xha-e-m-oh
Near-Vicinus	beθino	b-ay-th-e-n-oh
Right-Dextrem	djestro	d-jg-ay-s-t-er-oh
Left-Primary	sinjestro	s-e-n-jg-ay-s-t-er-oh
Red-Primary	roxo	r-oh-xha-oh
Red-Vermiculus	bermexo	b-ay-er-m-ay-xha-oh
Red-Rubeus	rubjo	r-u-b-jg-oh
Green-Primary	berde	b-ay-er-d-ay
Yellow-Amarellus	amarijo	ah-m-ah-er-e-VdPalatalFricative-oh
White-Primary	albo	ah-l-b-oh
One-Primary	uno	u-n-oh
Two-Duos	dos	d-oh-s
Three-Primary	tres	t-er-ay-s
Four-Primary	kwatro	k-w-ah-t-er-oh
Five-Primary	θinko	th-e-n-k-oh
Here-Primary	aki	ah-k-e
There-Primary	aja	ah-VdPalatalFricative-ah
There-Adlbi	ai	ah-e
Who-Quem	kjen	k-jg-ay-n
What-Primary	ke	k-ay
When-Quando	kwando	k-w-ah-n-d-oh
How-Quomodo	komo	k-oh-m-oh
Not-Primary	no	n-oh
Not-Nec	ni	n-e
At-Primary	a	ah
In-In	en	ay-n
With-Cum	kon	k-oh-n
And-Et	i	e
And-Si	si	s-e
Because-Quod	ke	k-ay

## Italian

Cognate	IPA	Sounds
I-Primary	io	e-oh
We-Primary	no:i	n-O-e
YouPlural-Primary	vo:i	v-O-e
YouSingular-Primary	tu	t-u
Woman-Primary	femmina	f-ay-m-m-e-n-ah
Woman-Mulier	moʎʎe	m-oh-yuh-yuh-ay
Woman-Domina	donna	d-euh-n-n-ah
Child-Primary	fante	f-ah-n-t-ay
Child-Ninnus	nino	n-e-n-oh
Wife-Primary	spoza	s-p-euh-zz-ah

## Appendix 5 - Word Lists by Language

Husband-Primary	marito	m-ah-r-e-t-oh
Husband-Sponsus	spozo	s-p-euh-zz-oh
Husband-Socius	sotfo	s-euh-ts-oh
Mother-Primary	ma:dre	m-A-d-r-ay
Father-Primary	pa:dre	p-A-d-r-ay
Father-Tata	tata	t-ah-t-ah
Animal-Bestia	biſſa	b-e-shh-shh-ah
Fish-Piskem	peſſe	p-ay-shh-shh-ay
Bird-Avicellum	utſello	u-t-ts-eh-l-l-oh
Bird-Passerem	passero	p-ah-s-s-ay-r-oh
Dog-Primary	kane	k-ah-n-ay
Louse-Primary	pidokkjo	p-e-d-euh-k-k-jg-oh
Snake-Primary	serpente	s-ay-r-p-ay-n-t-ay
Worm-Primary	verme	v-ay-r-m-ay
Tree-Primary	albero	ah-l-b-ay-er-oh
Forest-Primary	selva	s-ay-l-v-ah
Stick-Primary	palo	p-ah-l-oh
Fruit-Primary	frutto	f-r-u-t-t-oh
Seed-Primary	seme	s-ay-m-ay
Seed-Sementis	semente	s-ay-m-ay-n-t-ay
Seed-Granum	grano	g-r-ah-n-oh
Leaf-Primary	folia	f-euh-yuh-yuh-ah
Leaf-Frondea	fronda	f-r-oh-n-VdPalatoAlveolarAffricate-ah
Root-Radix	radix	r-ah-d-E-ts-ay
BarkOfATree-Primary	kortix	k-oh-r-t-e-ts-ay
BarkOfATree-Corticea	kortetja	k-oh-r-t-ay-t-ts-ah
BarkOfATree-Skortea	skortsa	s-k-euh-r-VlAlveolarSibilantAffricate-ah
Flower-Primary	flore	f-jg-O-er-ay
Grass-Primary	erba	eh-r-b-ah
Rope-Primary	fune	f-u-n-ay
Rope-Restis	resta	r-eh-s-t-ah
Skin-Primary	kotenna	k-oh-t-ay-n-n-ah
Skin-Pellis	pelle	p-ay-l-l-ay
Meat-Primary	karne	k-ah-r-n-ay
Meat-Vivenda	vivanda	v-e-v-ah-n-d-ah
Blood-Primary	sangwe	s-ah-n-g-w-ay
Bone-Primary	osso	euh-s-s-oh
FatNoun-Primary	adipe	ah-d-e-p-ay
Egg-Primary	ovo	w-euh-v-oh
Horn-Primary	cornu	k-euh-r-n-oh
Tail-Primary	koda	k-oh-d-ah
Feather-Primary	penna	p-jg-u-m-ah
Feather-Penna	penna	p-ay-n-n-ah
Hair-Primary	pelo	p-ay-l-oh
Hair-Capillus	capillus	k-ah-p-ay-l-l-oh
Head-Primary	caput	k-ah-v-ay-t-t-s-ah
Head-Testa	testa	t-eh-s-t-ah
Ear-Primary	orekja	oh-r-ay-k-k-jg-ah
Eye-Primary	okjo	euh-k-k-jg-oh
Nose-Primary	na:so	n-A-s-oh
Nose-Nares	nariſe	n-ah-r-e-ts-ay
Mouth-Primary	bokka	b-oh-k-k-ah
Mouth-Gula	gola	g-oh-l-ah
Tooth-Primary	dente	d-eh-n-t-ay
Fingernail-Primary	ungja	u-n-g-jg-ah
Foot-Primary	piede	p-jg-Eh-d-ay
Leg-Gamba	gamba	g-ah-m-b-ah

## Appendix 5 - Word Lists by Language

Leg-Perna	perno	p-eh-r-n-oh
Leg-Petiolus	pitʃɔlo	p-e-t-ts-euh-l-oh
Knee-Geniculum	dʒinakkjo	VdPalatoAlveolarSibilant-e-n-euh-k-k-jg-oh
Hand-Primary	ma: no	m-A-n-oh
Wing-Primary	ala	ah-l-ah
Belly-Pantex	pantʃa	p-ah-n-ts-ah
Neck-Primary	kollo	k-oh-l-l-oh
Back-Primary	dɔsso	d-euh-s-s-oh
Back-Spatula	spalla	s-p-ah-l-l-ah
Breast-Primary	seno	s-ay-n-oh
Breast-Pectus	petto	p-eh-t-t-oh
Heart-Primary	kwɔre	k-w-euh-r-ay
Heart-Anima	alma	ah-l-m-ah
Liver-Primary	fegato	f-ay-g-ah-t-oh
Sun-Primary	sole	s-oh-l-ay
Moon-Primary	luna	l-u-n-ah
Star-Primary	stella	s-t-ay-l-l-ah
Water-Primary	akkwa	ah-k-k-w-ah
Rain-Primary	pjoddʒa	p-jg-oh-d-VdPalatoAlveolarSibilant-ah
River-Primary	fjume	f-jg-u-m-ay
River-Rivus	rio	r-e-oh
Lake-Primary	laɔo	l-ah-g-oh
Sea-Primary	mare	m-ah-r-ay
Salt-Primary	sale	s-ah-l-ay
Stone-Primary	sasso	s-ah-s-s-oh
Stone-Petra	pje: tra	p-jg-ai-t-r-ah
Stone-Lapidem	lapide	l-ah-p-e-d-ay
Sand-Sabula	sabbja	s-ah-b-b-jg-ah
Dust-Primary	polvere	p-oh-l-v-ay-r-ay
Earth-Primary	terra	t-eh-r-r-ah
Cloud-Primary	nube	n-u-b-ay
Cloud-Nubilus	nuvola	n-u-v-oh-l-ah
Fog-Primary	kalidʒine	k-ah-l-e-VdPalatoAlveolarSibilant-e-n-ay
Fog-Nebula	nebbja	n-ay-b-b-jg-ah
Fog-Tenebrae	tɛ: nebre	t-Eh-n-ay-b-r-ay
Fog-Tenebras	tɛ: nebre	t-Eh-n-ay-b-r-ay
Fog-Fumata	fuma: ta	f-u-m-A-t-ah
Sky-Primary	ʃfelo	ts-eh-l-oh
Wind-Primary	vento	v-eh-n-t-oh
Snow-Primary	neve	n-ay-v-ay
Ice-Primary	dʒelo	VdPalatoAlveolarSibilant-eh-l-oh
Ice-Glacies	gʒatʃa	g-jg-ah-t-ts-ah
Smoke-Primary	fumo	f-u-m-oh
Fire-Focus	fwɔko	f-w-euh-k-oh
Ash-Primary	ʃfɛnere	ts-ay-n-ay-r-ay
Road-Primary	via	v-e-ah
Road-Strata	strada	s-t-r-ah-d-ah
Road-Camminus	kammino	k-ah-m-m-e-n-oh
Mountain-Primary	monte	m-oh-n-t-ay
Mountain-Montanea	montapɲa	m-oh-n-t-ah-VdPalatalNasal-VdPalatalNasal-ah
Night-Primary	notte	n-euh-t-t-ay
Day-Primary	di	d-e
Day-Diurnus	dʒorno	VdPalatoAlveolarSibilant-oh-r-n-oh
Day-Diurnata	dʒornata	VdPalatoAlveolarSibilant-oh-r-n-ah-t-ah
Year-Primary	anno	ah-n-n-oh
Name-Nomen	no: me	n-O-m-ay
Tongue-Primary	lingwa	l-e-n-g-w-ah

## Appendix 5 - Word Lists by Language

ToDrink-Primary	bere	b-ay-er-ay
ToEat-Manducare	mandzare	m-ah-n-VdPalatoAlveolarSibilant-ah-er-ay
ToBite-Primary	mordere	m-euh-r-d-ay-r-ay
ToBite-Morsicare	morsikare	m-oh-r-s-e-k-ah-er-ay
ToSpit-Sputare	sputare	s-p-u-t-ah-er-ay
ToVomit-Primary	vomere	v-euh-m-ay-r-ay
ToBlow-Primary	soffjare	s-oh-f-f-jg-ah-r-ay
ToBreathe-Primary	respirare	r-ay-s-p-e-r-ah-er-ay
ToLaugh-Primary	ridere	r-E-d-ay-er-ay
ToSee-Primary	vedere	v-ay-d-ay-er-ay
ToHear-Primary	udire	u-d-e-er-ay
ToKnow-Sapere	sapere	s-ah-p-ay-r-ay
ToKnow-Cognoscere	konoſſere	k-oh-n-oh-shh-shh-ay-r-ay
ToThink-Primary	kodzitare	k-oh-VdPalatoAlveolarSibilant-e-t-ah-r-ay
ToThink-Pensare	pensare	p-ay-n-s-ah-er-ay
ToSmell-Sentire	sentire	s-ay-n-t-e-r-ay
ToSmell-Olere	olire	oh-l-e-r-ay
ToSmell-Odorare	odorare	oh-d-oh-r-ah-r-ay
ToSmell-Fragrare	fragrare	f-r-ah-g-r-ah-r-ay
ToFear-Primary	temere	t-ay-m-ay-r-ay
ToFear-Tremere	tremare	t-r-ay-m-ah-r-ay
ToSleep-Primary	dormire	d-oh-r-m-e-r-ay
ToLive-Primary	vivere	v-e-v-ay-r-ay
ToDie-Primary	morire	m-oh-r-e-r-ay
ToKill-Adnecare	annegare	ah-n-n-ay-g-ah-r-ay
ToKill-Occidere	utſidere	u-t-ts-e-d-ay-er-ay
ToFight-Primary	pugnare	p-u-VdPalatalNasal-VdPalatalNasal-ah-r-ay
ToFight-Battuere	battere	b-ah-t-t-ay-r-ay
ToHunt-Captiare	kattjare	k-ah-t-ts-ah-r-ay
ToHit-Primary	pulsare	p-u-l-s-ah-r-ay
ToCut-Primary	segare	s-ay-g-ah-r-ay
ToCut-Excurtare	skortare	s-k-oh-r-t-ah-r-ay
ToCut-Taliare	talſa:re	t-ah-yuh-yuh-A-r-ay
ToSplit-Primary	dividere	d-e-v-e-d-ay-r-ay
ToSplit-Scindere	ſindere	shh-e-n-d-ay-r-ay
ToSplit-Findere	fendere	f-eh-n-d-ay-r-ay
ToSplit-Partire	partire	p-ah-r-t-e-r-ay
ToSplit-Separare	separare	s-ay-p-ah-r-ah-r-ay
ToStab-Primary	pundzare	p-u-n-VdPalatoAlveolarSibilant-ay-r-ay
ToStab-Iugulare	jugula:re	jg-u-g-u-l-A-r-ay
ToScratch-Primary	radere	r-ah-d-ay-r-ay
ToScratch-Rasare	rasare	r-ah-s-ah-r-ay
ToDig-Cavare	kavare	k-ah-v-ah-r-ay
ToDig-Excavare	skavare	s-k-ah-v-ah-r-ay
ToSwim-Primary	nwotare	n-w-oh-t-ah-er-ay
ToSwim-Navigare	navigare	n-ah-v-e-g-ah-r-ay
ToFly-Primary	volare	v-oh-l-ah-er-ay
ToFly-Exvolare	zvolare	zz-v-oh-l-ah-er-ay
ToWalk-Primary	kamminare	k-ah-m-m-e-n-ah-er-ay
ToWalk-Mergere	merdzere	m-eh-r-VdPalatoAlveolarSibilant-ay-r-ay
ToWalk-Ambitare	andare	ah-n-d-ah-r-ay
ToCome-Primary	venire	v-ay-n-e-er-ay
ToLieAsInABed-Primary	estendere	ay-s-t-eh-n-d-ay-r-ay
ToLieAsInABed-Iacere	dzatſe:re	VdPalatoAlveolarSibilant-ah-ts-ai-er-ay
ToSit-Primary	sedere	s-ay-d-ay-r-ay
ToStand-Primary	stare	s-t-ah-r-ay
ToStand-Levare	levare	l-ay-v-ah-r-ay

## Appendix 5 - Word Lists by Language

ToStand-Altiare	altsare	ah-l-VIAlveolarSibilantAffricate-ah-r-ay
ToTurnIntransitive-Primary	tornare	t-oh-r-n-ah-r-ay
ToTurnIntransitive-Gyrate	dgirare	VdPalatoAlveolarSibilant-e-r-ah-er-ay
ToTurnIntransitive-AncestralClass3	virare	v-e-r-ah-er-ay
ToTurnIntransitive-Torque	torjfare	t-euh-r-ts-ay-r-ay
ToFall-Primary	kadere	k-ah-d-ay-er-ay
ToGive-Primary	dare	d-ah-r-ay
ToGive-Donare	donare	d-oh-n-ah-r-ay
ToHold-Primary	tenere	t-ay-n-ay-er-ay
ToSqueeze-Primary	spremere	s-p-r-eh-m-ay-r-ay
ToSqueeze-Serare	serrare	s-ay-r-r-ah-r-ay
ToSqueeze-Stringere	strindgere	s-t-r-e-n-VdPalatoAlveolarSibilant-ay-r-ay
ToRub-Primary	fregare	f-r-ay-g-ah-r-ay
ToRub-Frictare	frettare	f-r-ay-t-t-ah-r-ay
ToWash-Primary	lavare	l-ah-v-ah-r-ay
ToWipe-Primary	terdgere	t-eh-r-VdPalatoAlveolarSibilant-ay-r-ay
ToWipe-Exsucare	afjugare	ah-shh-shh-u-g-ah-r-ay
ToPull-Primary	tirare	t-e-r-ah-r-ay
ToPull-Pulsare	pulsare	p-u-l-s-ah-r-ay
ToPull-Trahere	trarre	t-r-ah-r-r-ay
ToPush-Primary	impindgere	e-m-p-e-n-VdPalatoAlveolarSibilant-ay-r-ay
ToThrow-Primary	dgettare	VdPalatoAlveolarSibilant-ay-t-t-ah-r-ay
ToThrow-Lanceare	lanjfare	l-ah-n-ts-ah-r-ay
ToThrow-Eruncare	arrontjfare	ah-r-r-oh-n-ts-ah-r-ay
ToTie-Primary	legare	l-ay-g-ah-r-ay
ToSew-Primary	kufjire	k-u-ts-e-r-ay
ToCount-Primary	kontare	k-oh-n-t-ah-r-ay
ToCount-Numerare	noverare	n-oh-v-ay-r-ah-r-ay
ToSay-Primary	dire	d-e-r-ay
ToSay-Exponere	sporre	s-p-oh-r-r-ay
ToSing-Primary	kantare	k-ah-n-t-ah-r-ay
ToPlay-Jiocare	dzokare	VdPalatoAlveolarSibilant-oh-k-ah-r-ay
ToFloat-Primary	fluttuare	f-l-u-t-t-u-ah-r-ay
ToFloat-Fluitare	fluitare	f-l-u-e-t-ah-r-ay
ToFlow-Primary	fluire	f-l-u-e-r-ay
ToFlow-Colare	kolare	k-oh-l-ah-r-ay
ToFlow-Excurrere	skorrere	s-k-oh-r-r-ay-r-ay
ToFlow-Currere	korrere	k-oh-r-r-ay-r-ay
ToFreeze-Primary	dzelare	VdPalatoAlveolarSibilant-ay-l-ah-r-ay
ToFreeze-Glaciare	gjatjfare	g-jg-ah-t-ts-jg-ah-r-ay
ToSwell-Primary	enfiare	ay-n-f-e-ah-r-ay
ToSwell-Conflare	gonfjare	g-oh-n-f-jg-ah-r-ay
ToSwell-Crescere	krejfare	k-r-ay-shh-shh-ay-r-ay
ToBurn-Cremare	kremare	k-r-ay-m-ah-r-ay
ToBurn-Flammare	fjammare	f-jg-ah-m-m-ah-r-ay
ToBurn-Ardere	ardere	ah-r-d-ay-r-ay
ToBurn-Flagrare	flagrare	f-l-ah-g-r-ah-r-ay
ToBurn-Incendere	infjendjare	e-n-ts-eh-n-d-jg-ah-r-ay
ToBurn-Ustulare	ustolare	u-s-t-oh-l-ah-r-ay
All-Primary	opjri	oh-VdPalatalNasal-VdPalatalNasal-e
All-Totus	tutto	t-u-t-t-oh
Many-Primary	molto	m-oh-l-t-oh
Many-Tantus	tanto	t-ah-n-t-oh
Some-Primary	alkuno	ah-l-k-u-n-oh
Few-Primary	poko	p-euh-k-oh
Other-Primary	altro	ah-l-t-r-oh
Big-Primary	mappo	m-ah-VdPalatalNasal-VdPalatalNasal-oh

## Appendix 5 - Word Lists by Language

Big-Grandem	grande	g-r-ah-n-d-ay
Long-Longum	lungo	l-u-n-g-oh
Long-Largum	largo	l-ah-r-g-oh
Wide-Primary	lato	l-ah-t-oh
Wide-Amplum	ampjo	ah-m-p-jg-oh
Thick-Primary	grasso	g-r-ah-s-s-oh
Thick-Spissum	spesso	s-p-ay-s-s-oh
Thick-Grossus	grasso	g-r-euh-s-s-oh
Heavy-Primary	grave	g-r-eh-v-ay
Heavy-Lurdus	lordo	l-oh-r-d-oh
Small-Pittinus	pittino	p-e-t-ts-e-n-oh
Small-Pitulus	pikkolo	p-e-k-k-oh-l-oh
Short-Primary	korto	k-oh-r-t-oh
Short-Brevis	breve	b-r-eh-v-ay
Narrow-Primary	angusto	ah-n-g-u-s-t-oh
Narrow-Strictus	stretto	s-t-r-ay-t-t-oh
Thin-Primary	minuto	m-e-n-u-t-oh
Thin-Delicatus	delikato	d-ay-l-e-k-ah-t-oh
Thin-Subtilis	sottile	s-oh-t-t-e-l-ay
Warm-Primary	kaldo	k-ah-l-d-oh
Cold-Primary	freddo	f-r-ay-d-d-oh
Cold-Recens	refente	r-ay-ts-eh-n-t-ay
Full-Primary	pieno	p-jg-Eh-n-oh
New-Primary	novo	n-euh-v-oh
Old-Primary	vekkjo	v-eh-k-k-jg-oh
Good-Primary	bueno	b-w-LongOpenMidBackRounded-n-oh
Bad-Primary	malo	m-ah-l-oh
Rotten-Primary	putrido	p-u-t-r-e-d-oh
Dirty-Primary	sordido	s-euh-r-d-e-d-oh
Dirty-Spurcus	sporko	s-p-euh-r-k-oh
Straight-Primary	ditto	d-r-e-t-t-oh
Round-Primary	ritondo	r-e-t-oh-n-d-oh
DullAsAKnife-Primary	ebete	eh-b-ay-t-ay
DullAsAKnife-Retusus	retuzo	r-ay-t-u-zz-oh
Smooth-Primary	soave	s-oh-ah-v-ay
Smooth-Nitidus	netto	n-ay-t-t-oh
Wet-Primary	umido	u-m-e-d-oh
Dry-Primary	sekko	s-ay-k-k-oh
Correct-Primary	korretto	k-oh-r-r-ay-t-t-oh
Near-Primary	prossimo	p-r-euh-s-s-e-m-oh
Near-Pressus	presso	p-r-eh-s-s-oh
Near-Vicinus	vicino	v-e-ts-e-n-oh
Far-Primary	lontano	l-oh-n-t-ah-n-oh
Right-Dextrem	dextro	d-eh-s-t-r-oh
Left-Primary	sinestro	s-e-n-ay-s-t-r-oh
Red-Primary	rosso	r-oh-s-s-oh
Red-Vermiculus	vermicello	v-ay-r-m-e-yuh-yuh-oh
Red-Rubeus	robbjo	r-euh-b-b-jg-oh
Green-Primary	verde	v-ay-r-d-ay
Yellow-Croceus	kroffeo	k-r-oh-ts-ay-oh
White-Primary	albo	ah-l-b-oh
One-Primary	uno	u-n-oh
Two-Duae	due	d-u-ay
Three-Primary	tre	t-r-ay
Four-Primary	kwattro	k-w-ah-t-t-r-oh
Five-Primary	finckwe	ts-e-nya-k-w-ay
Here-Primary	kwi	k-w-e



## Appendix 5 - Word Lists by Language

There-Primary	la	l-ah
There-Ibi	vi	v-e
Who-Qui	ki	k-e
What-Primary	ke	k-ay
When-Quando	kwando	k-w-ah-n-d-oh
How-Quomodo	kome	k-oh-m-ay
Not-Primary	non	n-oh-n
Not-Nec	ne	n-ay
At-Primary	a	ah
In-In	in	e-n
With-Cum	kon	k-oh-n
And-Et	e	ay
And-Si	si	s-e
Because-Quod	ke	k-ay

## Brazilian Portuguese

Cognate	IPA	Sounds
I-Primary	ew	ay-w
We-Primary	nɔjs	n-mid_low_diphthong-s
YouPlural-Primary	vɔjs	v-mid_low_diphthong-s
YouSingular-Primary	tu	t-u
YouSingular-VostramMercedem	vose	v-oh-s-ay
Woman-Primary	femeɐ	f-ay-m-ay-ahh
Woman-Mulier	mulɛɐ	m-u-yuh-ay-rr
Woman-Domina	done	d-oh-n-ahh
Child-Primary	ĩfɛʃĩ	een-f-ahn-ts-e
Child-Ninnus	nenẽj	n-ay-n-ehnj
Wife-Primary	ispoza	e-s-p-oh-zz-ah
Husband-Primary	maridu	m-ah-er-e-d-u
Husband-Sponsus	ispozu	e-s-p-oh-zz-u
Mother-Primary	mɛj	m-ahnjn
Father-Primary	paj	p-aj
Father-Tata	tata	t-ah-t-ah
Animal-Bestia	bɨɛ	b-e-shh-ahh
Fish-Piskem	pejʃĩ	p-ayj-shh-e
Bird-Avem	avi	ah-v-e
Bird-Passerem	pasɛru	p-ah-s-ahh-er-u
Dog-Primary	kẽw̃	k-au_diphthong_nasal
Louse-Primary	pioʎu	p-e-oh-yuh-u
Snake-Primary	sɛɐpɛʃĩ	s-ay-rr-p-ehn-ts-e
Worm-Primary	veɾmi	v-ay-rr-m-e
Tree-Primary	akvori	ah-rr-v-oh-er-e
Forest-Primary	sɛwva	s-eh-w-v-ah
Stick-Primary	paw	p-ah-w
Fruit-Primary	frutɐ	f-er-u-t-ahh
Seed-Sementis	semẽʃĩ	s-ay-m-ehn-ts-e
Seed-Granum	grẽw̃	g-er-au_diphthong_nasal
Leaf-Primary	foʎɐ	f-oh-yuh-ahh
Leaf-Frondea	frõsɐ	f-er-on-s-ahh
Root-Primary	ɾais	rr-ah-e-s
BarkOfATree-Primary	kɔɾʃisi	k-euh-rr-ts-e-s-e
BarkOfATree-Corticea	kɔɾʃisɐ	k-oh-rr-ts-e-s-ahh
Flower-Primary	floɾ	f-l-oh-rr
Grass-Primary	ɛɾvɐ	ay-rr-v-ahh
Grass-Gramen	grẽmɐ	g-er-ahn-m-ahh

## Appendix 5 - Word Lists by Language

Rope-Restis	ʁɛʃʃi	rr-eh-shh-ts-e
Skin-Primary	kodʒiɐ	k-oh-VdPalatoAlveolarSibilant-e-ahh
Skin-Pellis	peli	p-eh-l-e
Meat-Primary	kaɾni	k-ah-rr-n-e
Meat-Vivenda	vivɛda	v-e-v-ehn-d-ah
Blood-Primary	sɛgi	s-ahn-g-e
Bone-Primary	osu	oh-s-u
FatNoun-Crassia	graʃɐ	g-er-ah-shh-ahh
Egg-Primary	ovu	oh-v-u
Horn-Primary	koɾnu	k-oh-rr-n-u
Tail-Primary	kaudɐ	k-au-d-ahh
Feather-Penna	pɛnɐ	p-ay-n-ahh
Hair-Primary	pelu	p-ay-l-u
Hair-Capillus	kabelu	k-ah-b-ay-l-u
Head-Primary	kabɛsɐ	k-ah-b-ay-s-ahh
Head-Testa	tɛstɐ	t-eh-s-t-ahh
Ear-Primary	oreʎɐ	oh-er-ay-yuh-ahh
Eye-Primary	oʎu	oh-yuh-u
Nose-Nares	naris	n-ah-er-e-s
Mouth-Primary	bokɐ	b-oh-k-ahh
Tooth-Primary	dɛʃʃi	d-ehn-ts-e
Fingernail-Primary	uɾɐ	u-VdPalatalNasal-ahh
Foot-Primary	pɐ	p-eh
Leg-Perna	pɛɾnɐ	p-eh-rr-n-ahh
Knee-Genuculum	zueʎu	gzah-u-ay-yuh-u
Hand-Primary	mɛw̃	m-au_diphthong_nasal
Wing-Primary	a	ah
Belly-Pantex	pɛsɐ	p-ahn-s-ahh
Guts-Primary	itɾɛɾɐ	een-t-er-ahn-VdPalatalNasal-ahh
Neck-Primary	kɔlu	k-euh-l-u
Back-Spatula	ifpadwɐ	e-shh-p-ah-d-w-ahh
Breast-Primary	seju	s-ayj-u
Breast-Pectus	pejtu	p-ayj-t-u
Heart-Primary	kɔɾ	k-euh-rr
Heart-Anima	awmɐ	ah-w-m-ahh
Liver-Primary	figɛdu	f-e-g-ahh-d-u
Sun-Primary	sɔw	s-euh-w
Moon-Primary	luɐ	l-u-ahh
Star-Primary	istɾɛɐ	e-s-t-er-ay-l-ahh
Water-Primary	agwɐ	ah-g-w-ahh
Rain-Primary	ʃuvɐ	shh-u-v-ahh
River-Primary	flumi	f-l-u-m-e
River-Rivus	ɾiw	rr-e-w
Lake-Primary	lagu	l-ah-g-u
Sea-Primary	maɾ	m-ah-rr
Salt-Primary	saw	s-ah-w
Stone-Primary	sejʃu	s-ayj-shh-u
Stone-Petra	pedɾɐ	p-ay-d-er-ahh
Sand-Primary	arejɐ	ah-er-ayj-ahh
Sand-Sabulum	sajβɾu	s-aj-bb-er-u
Dust-Pulwus	pɔ	p-euh
Earth-Primary	tɛɾɐ	t-ay-rr-ahh
Cloud-Primary	nuvɛj	n-u-v-ehnj
Fog-Primary	kaliʒɛj	k-ah-l-e-gzah-ehnj
Fog-Nebula	nɛvwɐ	n-eh-v-w-ahh
Fog-Tenebras	tɾɛvɐ	t-er-eh-v-ahh-s
Fog-Fumata	fumɛɐ	f-u-m-ah-s-ahh

## Appendix 5 - Word Lists by Language

Sky-Primary	sew	s-eh-w
Wind-Primary	vētu	v-ehn-t-u
Snow-Primary	nevi	n-eh-v-e
Smoke-Primary	fumu	f-u-m-u
Fire-Focus	fogu	f-oh-g-u
Ash-Cinisia	sīze	s-een-zz-ahh
Road-Primary	viē	v-e-ahh
Road-Strata	istrade	e-s-t-er-ah-d-ahh
Road-Camminus	kamīnu	k-ah-m-een-VdPalatalNasal-u
Mountain-Primary	mōtji	m-on-ts-e
Mountain-Montanea	mōtjē	m-on-t-ahn-VdPalatalNasal-ahh
Night-Primary	nojti	n-oj_diphthong-t-eee
Day-Primary	diē	d-e-ahh
Day-Diurna	zōna	gzah-cuh-rr-n-ah
Year-Primary	enu	ahh-n-u
Name-Nomen	nomi	n-oh-m-e
Tongue-Primary	liqwe	l-een-g-w-ahh
ToDrink-Primary	bebeκ	b-ay-b-ay-rr
ToEat-Primary	kome	k-oh-m-ay
ToEat-Manducare	mēzax	m-ahn-gzah-ah-rr
ToBite-Primary	moxdeκ	m-oh-rr-d-ay-rr
ToBite-Morsicare	musəga	m-u-s-aah-g-ah
ToSuck-Primary	sugax	s-u-g-ah-rr
ToSpit-Primary	kuspik	k-u-s-p-e-rr
ToBreathe-Primary	κespīrar	rr-ay-s-p-e-er-ah-er
ToLaugh-Primary	κik	rr-e-rr
ToSee-Primary	veκ	v-ay-rr
ToHear-Primary	owvik	oh-w-v-e-rr
ToKnow-Sapere	sabeκ	s-ah-b-ay-rr
ToKnow-Cognoscere	κoneceκ	k-oh-VdPalatalNasal-ay-s-ay-rr
ToThink-Primary	kužitax	k-u-gzah-e-t-ah-rr
ToThink-Pensare	pēsax	p-ehn-s-ah-rr
ToSmell-Sentire	sēfjik	s-ehn-ts-e-rr
ToSmell-Fragrare	fejraκ	shh-ayj-er-ah-rr
ToFear-Primary	temeκ	t-ay-m-ay-rr
ToFear-Tremere	tremeκ	t-er-ay-m-ay-rr
ToSleep-Primary	doκmik	d-oh-rr-m-e-rr
ToLive-Primary	viveκ	v-e-v-ay-rr
ToDie-Primary	moxeκ	m-oh-rr-ay-rr
ToKill-Mactare	mataκ	m-ah-t-ah-rr
ToFight-Battuere	bateκ	b-ah-t-ay-rr
ToHunt-Captiare	kasax	k-ah-s-ah-rr
ToHit-Primary	puɟax	p-u-shh-ah-rr
ToCut-Primary	segaκ	s-ay-g-ah-rr
ToCut-Curtare	koκtax	k-oh-rr-t-ah-rr
ToCut-Taliare	taɬax	t-ah-yuh-ah-rr
ToSplit-Primary	ɟʒivɟʒik	VdPalatoAlveolarSibilant-e-v-e-VdPalatoAlveolarSibilant-e-rr
ToSplit-Findere	fēdeκ	f-ehn-d-ay-rr
ToSplit-Partire	paκfjik	p-ah-rr-ts-e-rr
ToSplit-Separare	separaκ	s-ay-p-ah-er-ah-rr
ToStab-Primary	pūzik	p-ooo-gzah-e-rr
ToScratch-Primary	κaceκ	rr-ah-ay-rr
ToScratch-Rasare	κazax	rr-ah-zz-ah-rr
ToScratch-Rasicare	κaɟkaκ	rr-ah-shh-k-ah-rr
ToScratch-Coctiare	kosaɭ	k-oh-s-ah-VdRetroflexApproximant
ToDig-Cavare	kevaκ	k-ahh-v-ah-rr
ToDig-Excavare	ijkevaκ	e-shh-k-ahh-v-ah-rr

## Appendix 5 - Word Lists by Language

ToSwim-Primary	nadaɤ	n-ah-d-ah-rr
ToSwim-Navigare	naviɣaɤ	n-ah-v-eee-juh-ah-rr
ToFly-Primary	voaɤ	v-oh-ah-rr
ToWalk-Primary	kəmiɲaɤ	k-ahh-m-e-VdPalatalNasal-ah-rr
ToWalk-Ambitare	ẽdaɤ	ahn-d-ah-rr
ToCome-Primary	viɤ	v-e-rr
ToLieAsInABed-Primary	istẽdeɤ	e-s-t-ehn-d-ay-rr
ToLieAsInABed-lacere	zəzeɤ	gzah-ahh-zz-ay-rr
ToSit-Primary	seɤ	s-ay-rr
ToSit-Sedentare	sẽtar	s-ehn-t-ah-er
ToStand-Primary	iftar	eee-shh-t-ah-er
ToStand-Levare	levaɤ	l-ay-v-ah-rr
ToStand-Altiare	aɭsa	ah-ssha-s-ah
ToTurnIntransitive-Primary	toɲnaɤ	t-oh-rr-n-ah-rr
ToTurnIntransitive-Gyrare	ziɾaɾ	gzah-e-er-ah-er
ToTurnIntransitive-AncestralClass3	viɾaɾ	v-e-er-ah-er
ToTurnIntransitive-Torque	turser	t-u-r-s-ay-r
ToFall-Primary	kəiɾ	k-ahh-e-er
ToFall-Tumbare	tõbaɤ	t-on-b-ah-rr
ToGive-Primary	daɤ	d-ah-rr
ToGive-Donare	doa	d-oh-ah
ToHold-Primary	teɤ	t-ay-rr
ToHold-Segurar	siguraɤ	s-eee-g-u-er-ah-rr
ToSqueeze-Primary	ifprəmeɤ	e-shh-p-r-aah-m-ay-rr
ToSqueeze-Serrere	seɤa	s-ay-rr-ah
ToSqueeze-Serare	sivara	s-eee-rr-ah-er
ToSqueeze-Appetore	əpiɾtar	ahh-p-eee-er-t-ah-er
ToSqueeze-Stringere	əfɾiɾziɾ	aah-shh-t-r-eeen-gzah-e-r
ToRub-Exfricare	iffrigaɾ	eee-shh-f-er-eee-g-ah-er
ToWash-Primary	lɛvaɾ	l-ahh-v-ah-er
ToWipe-Exsucare	ẽfugaɾ	ehn-shh-u-g-ah-er
ToWipe-Limpidare	liɲaɾ	l-eeen-p-ah-er
ToPull-Primary	ɟiɾa	ts-e-er-ah
ToPull-Pulsare	puɟaɾ	p-u-shh-ah-er
ToPull-Trahere	traze	t-er-ah-zz-ay
ToThrow-Primary	zeɟtar	gzah-ayj-t-ah-er
ToThrow-Lanceare	lɛsa	l-ahn-s-ah
ToTie-Aptare	ɛtar	ahh-t-ah-er
ToSew-Primary	kuzer	k-u-zz-ay-er
ToCount-Primary	kõtar	k-on-t-ah-er
ToSay-Primary	dizer	d-e-zz-ay-er
ToSing-Primary	kẽtar	k-ahn-t-ah-er
ToPlay-Jiocare	zogaɤ	gzah-oh-g-ah-rr
ToFloat-Primary	flutuɤ	f-l-u-t-u-ah-rr
ToFlow-Primary	flwiɤ	f-l-w-e-rr
ToFlow-Colare	koɤ	k-oh-ah-rr
ToFlow-Excurrere	ifkoveɤ	e-shh-k-oh-rr-ay-rr
ToFlow-Currere	koɤeɤ	k-oh-rr-ay-rr
ToFreeze-Primary	zilar	gzah-eee-l-ah-er
ToSwell-Primary	ifara	eeen-shh-ah-er
ToSwell-Intumescere	itumeser	een-t-u-m-ay-s-ay-er
ToSwell-Crescere	kreseɤ	k-er-ay-s-ay-rr
ToBurn-Cremare	kɛjmare	k-ahhj-m-ah-er-ay
ToBurn-Ardere	aɤdeɤ	ah-rr-d-ay-rr
ToBurn-Flagrare	flagɤaɤ	f-l-ah-g-rr-ah-rr
ToBurn-Incendere	isendɟiɾaɾ	een-s-ay-n-VdPalatoAlveolarSibilant-l-ah-er
All-Totus	todu	t-oh-d-u

## Appendix 5 - Word Lists by Language

Many-Primary	mũjtu	m-ooo-jn-t-u
Many-Tantus	tētu	t-ahn-t-u
Some-Primary	awgũ	ah-w-g-ooo
Few-Primary	powku	p-oh-w-k-u
Other-Primary	owtru	oh-w-t-er-u
Other-Alius	aw	ah-w
Big-Grandem	grēdʒi	g-er-ahn-VdPalatoAlveolarSibilant-e
Long-Longum	lōgu	l-on-g-u
Long-Largum	laŋgu	l-ah-rr-g-u
Wide-Primary	latu	l-ah-t-u
Wide-Amplum	ēfu	ahn-shh-u
Thick-Spissum	ispesu	e-s-p-eh-s-u
Thick-Grossus	grosu	g-er-oh-s-u
Heavy-Primary	gravi	g-er-ah-v-e
Heavy-Lurdus	lerdo	l-ay-er-d-oh
Small-Pittinus	pekenu	p-ay-k-ay-n-u
Short-Primary	kugtu	k-u-rr-t-u
Short-Brevis	brēvi	b-er-eh-v-e
Narrow-Strictus	istrejtū	e-s-t-er-ayj-t-u
Thin-Primary	miudu	m-e-u-d-u
Thin-Delicatus	dewgadu	d-ay-w-g-ah-d-u
Thin-Subtilis	suŋiŋw	s-u-ts-e-w
Warm-Primary	kawdu	k-ah-w-d-u
Cold-Primary	friu	f-er-e-u
Cold-Recens	æesēŋi	rr-ay-s-ehn-ts-e
Full-Primary	ŋeju	shh-ahhj-u
New-Primary	novu	n-oh-v-u
Old-Primary	vējʌu	v-ahhj-yuh-u
Good-Primary	bō	b-on
Bad-Primary	maw	m-ah-w
Rotten-Putrem	podri	p-oh-d-er-e
Dirty-Primary	sordidu	s-euh-er-d-e-d-u
Dirty-Spurcus	ispurku	e-s-p-u-er-k-u
Straight-Primary	dʒirejtū	VdPalatoAlveolarSibilant-e-er-ayj-t-u
Round-Primary	æedōdu	rr-ay-d-on-d-u
Smooth-Nitidus	nedʒu	n-eh-VdPalatoAlveolarSibilant-u
Dry-Primary	seku	s-ay-k-u
Near-Primary	prosimu	p-er-oh-s-e-m-u
Near-Vicinus	viziŋu	v-e-zz-e-VdPalatalNasal-u
Right-Dextrem	destru	d-eh-s-t-er-u
Left-Primary	seŋtru	s-eh-shh-t-er-u
Red-Primary	ʁoʃu	rr-oh-shh-NearCloseBackRounded
Red-Vermiculus	veŋmeʌu	v-ay-rr-m-ay-yuh-u
Red-Rubeus	rubeo	r-u-b-ay-oh
Green-Primary	verdi	v-ay-er-d-eee
Yellow-Amarellus	ẽmareʌu	ahh-m-ah-er-eh-l-u
White-Primary	awvu	ah-w-v-u
One-Primary	ũ	ooo
Two-Duos	dojs	d-oj_diphthong-s
Two-Duas	dues	d-u-ahh-s
Three-Primary	tres	t-er-ay-s
Four-Primary	kwatru	k-w-ah-t-er-u
Five-Primary	siku	s-een-k-u
Here-Primary	aki	ah-k-e
There-Primary	la	l-ah
There-Adlbi	ai	ah-e
Who-Quem	kēj	k-ehnj

## Appendix 5 - Word Lists by Language

What-Primary	ki	k-e
When-Quando	kwẽdu	k-w-ahn-d-u
How-Quomodo	komu	k-oh-m-u
Not-Primary	nẽw	n-au_diphthong_nasal
Not-Nec	nẽj	n-ehnj
At-Primary	a	ah
In-In	ẽj	ehnj
With-Cum	kõ	k-on
And-Et	i	e
And-Si	sĩ	s-een
Because-Quod	ki	k-e

## Portuguese

Cognate	IPA	Sounds
I-Primary	ew	ay-w
We-Primary	noʃ	n-euh-shh
YouPlural-Primary	voʃ	v-oh-shh
YouSingular-Primary	tu	t-u
YouSingular-VostramMercedem	vose	v-euh-s-ay
Woman-Primary	femjẽ	f-ay-m-jg-ahh
Woman-Mulier	mulɐr	m-u-yuh-ay-er
Woman-Domina	donẽ	d-oh-n-ahh
Child-Primary	ĩfeti	een-f-ahn-t-eee
Child-Ninnus	nenẽj	n-ay-n-ehnj
Wife-Primary	ĩʃpozẽ	eee-shh-p-oh-zz-ahh
Husband-Primary	meriðu	m-ahh-er-e-dd-u
Husband-Sponsus	ĩʃpozu	eee-shh-p-oh-zz-u
Mother-Primary	mẽj	m-ahnjn
Father-Primary	paj	p-aj
Father-Tata	tata	t-ah-t-ah
Animal-Bestia	bifẽ	b-e-shh-ahh
Fish-Piskem	pẽijĩ	p-ahhj-shh-eee
Bird-Avem	avi	ah-v-eee
Bird-Passerem	pasɐru	p-ah-s-ahh-er-u
Dog-Primary	kẽw	k-au_diphthong_nasal
Louse-Primary	pioʎu	p-e-oh-yuh-u
Snake-Primary	sirpẽti	s-eee-er-p-ehn-t-eee
Worm-Primary	vermi	v-ay-er-m-eee
Tree-Primary	arvuri	ah-er-v-u-er-eee
Forest-Primary	sẽlve	s-eh-ssha-v-ahh
Stick-Primary	paw	p-ah-w
Fruit-Primary	frutẽ	f-er-u-t-ahh
Seed-Sementis	simẽti	s-eee-m-ehn-t-eee
Seed-Granum	grẽw	g-er-au_diphthong_nasal
Leaf-Primary	foʎẽ	f-oh-yuh-ahh
Leaf-Frondea	frõsẽ	f-er-on-s-ahh
Root-Primary	kẽif	rr-ahh-e-shh
BarkOfATree-Primary	kõrtisi	k-euh-er-t-e-s-eee
BarkOfATree-Corticea	kurtisẽ	k-u-er-t-e-s-ahh
Flower-Primary	flor	f-l-oh-er
Grass-Primary	ɛrvẽ	eh-er-v-ahh
Grass-Gramen	grẽmẽ	g-er-ahh-m-ahh
Rope-Restis	kẽʃti	rr-ay-shh-t-eee
Skin-Primary	kodiẽ	k-oh-d-e-ahh
Skin-Pellis	peli	p-ay-l-eee

## Appendix 5 - Word Lists by Language

Meat-Primary	karni	k-ah-er-n-eee
Meat-Vivenda	vivēde	v-e-v-ehn-d-ahh
Blood-Primary	sēgi	s-ahn-g-eee
Bone-Primary	osu	oh-s-u
FatNoun-Crassia	grafe	g-er-ah-shh-ahh
Egg-Primary	ovu	oh-v-u
Horn-Primary	kornu	k-oh-er-n-u
Tail-Primary	kaude	k-au-d-ahh
Feather-Penna	pene	p-ay-n-ahh
Hair-Primary	pilu	p-eee-l-u
Hair-Capillus	kēβelu	k-ahh-bb-ay-l-u
Head-Primary	kēβese	k-ahh-bb-ay-s-ahh
Head-Testa	tēfte	t-eh-shh-t-ahh
Ear-Primary	orejʎe	oh-er-ahhj-yuh-ahh
Eye-Primary	olu	oh-yuh-u
Nose-Nares	nērif	n-ahh-er-e-shh
Mouth-Primary	bokē	b-oh-k-ahh
Tooth-Primary	dēti	d-ehn-t-eee
Fingernail-Primary	upe	u-VdPalatalNasal-ahh
Foot-Primary	pē	p-eh
Leg-Perna	pēmē	p-eh-er-n-ahh
Knee-Geniculum	zweʎu	gzah-w-ahh-yuh-u
Hand-Primary	mēw	m-au_diphthong_nasal
Wing-Primary	a	ah
Belly-Pantex	pēsē	p-ahn-s-ahh
Guts-Primary	ētrepe	ehn-t-er-ahh-VdPalatalNasal-ahh
Neck-Primary	kolu	k-euh-l-u
Back-Spatula	ifpadwē	e-shh-p-ah-d-w-ahh
Breast-Primary	seju	s-ahhj-u
Breast-Pectus	pejtu	p-ahhj-t-u
Heart-Primary	kor	k-oh-er
Heart-Anima	almē	ah-l-m-ahh
Liver-Primary	fiyeðu	f-e-juh-ahh-dd-u
Sun-Primary	soʎ	s-euh-ssha
Moon-Primary	luē	l-u-ahh
Star-Primary	iftrele	eee-shh-t-er-ay-l-ahh
Water-Primary	agwe	ah-g-w-ahh
Rain-Primary	fuve	shh-u-v-ahh
River-Primary	flumi	f-l-u-m-eee
River-Rivus	riu	rr-e-u
Lake-Primary	layu	l-ah-juh-u
Sea-Primary	mar	m-ah-er
Salt-Primary	sal	s-ah-l
Stone-Primary	sejfu	s-ahhj-shh-u
Stone-Petra	peðre	p-eh-dd-er-ahh
Sand-Primary	ereje	ahh-er-ahhj-ahh
Sand-Sabulum	sajbru	s-aj-bb-er-u
Dust-Pulwus	pō	p-euh
Earth-Primary	teke	t-eh-rr-ahh
Cloud-Primary	nuvēj	n-u-v-ahnjn
Fog-Primary	keliʒēj	k-ahh-l-e-gzah-ahnjn
Fog-Nebula	nevwe	n-eh-v-w-ahh
Fog-Tenebras	trevef	t-er-eh-v-ahh-shh
Fog-Fumata	fumase	f-u-m-ah-s-ahh
Sky-Primary	sew	s-eh-w
Wind-Primary	vētu	v-ehn-t-u
Snow-Primary	nevi	n-eh-v-eee

## Appendix 5 - Word Lists by Language

Smoke-Primary	fumu	f-u-m-u
Fire-Focus	foyu	f-oh-juh-u
Ash-Cinisia	sizɛ	s-eeen-zz-ahh
Road-Primary	viɛ	v-e-ahh
Road-Strata	ɪʃtraðɛ	e-shh-t-er-ah-dd-ahh
Road-Camminus	kɛmɪnu	k-ahh-m-e-VdPalatalNasal-u
Mountain-Primary	mōti	m-on-t-eee
Mountain-Montanea	mōtɛɲɛ	m-on-t-ahh-VdPalatalNasal-ahh
Night-Primary	nojtɪ	n-oj_diphthong-t-eee
Day-Primary	diɛ	d-e-ahh
Day-Diurna	zɔɲna	gzah-cuh-rr-n-ah
Year-Primary	ɛnu	ahh-n-u
Name-Nomen	nomi	n-oh-m-eee
Tongue-Primary	liɲwɛ	l-eeen-g-w-ahh
ToDrink-Primary	biʃɛr	b-eee-bb-ay-er
ToEat-Primary	kumer	k-u-m-ay-er
ToEat-Manducare	mɛ̃zar	m-ahn-gzah-ah-er
ToBite-Primary	murðɛr	m-u-er-dd-ay-er
ToBite-Morsicare	musəɟar	m-u-s-aah-g-ah-r
ToSuck-Primary	sugar	s-u-g-ah-er
ToSpit-Primary	kuʃpɪr	k-u-shh-p-e-er
ToBreathe-Primary	ɤiʃpɪrar	rr-eee-shh-p-e-er-ah-er
ToLaugh-Primary	ɤɪr	rr-e-er
ToSee-Primary	ver	v-ay-er
ToHear-Primary	owvir	oh-w-v-e-er
ToKnow-Sapere	sɛber	s-ahh-b-ay-er
ToKnow-Cognoscere	kupniser	k-u-VdPalatalNasal-eee-s-ay-er
ToThink-Primary	kuzitar	k-u-gzah-e-t-ah-er
ToThink-Pensare	pɛsar	p-ehn-s-ah-er
ToSmell-Sentire	sɛtir	s-ehn-t-e-er
ToSmell-Fragrare	ʃɛjrar	shh-ahhj-er-ah-er
ToFear-Primary	timer	t-eee-m-ay-er
ToFear-Tremere	trimer	t-er-eee-m-ay-er
ToSleep-Primary	durmir	d-u-er-m-e-er
ToLive-Primary	viver	v-e-v-ay-er
ToDie-Primary	muɛr	m-u-rr-ay-er
ToKill-Mactare	mɛtar	m-ahh-t-ah-er
ToFight-Battuere	bɛtɛr	b-ahh-t-ay-er
ToHunt-Captiare	kɛsar	k-ahh-s-ah-er
ToHit-Primary	pufar	p-u-shh-ah-er
ToCut-Primary	siɲar	s-eee-juh-ah-er
ToCut-Curtare	kurtar	k-u-er-t-ah-er
ToCut-Taliare	tɛɭar	t-ahh-yuh-ah-er
ToSplit-Primary	dividiɪr	d-e-v-e-dd-e-er
ToSplit-Findere	fɛder	f-ehn-d-ay-er
ToSplit-Partire	pɛtir	p-ahh-er-t-e-er
ToSplit-Separare	sipɛrar	s-eee-p-ahh-er-ah-er
ToStab-Primary	pũzɪr	p-ooo-gzah-e-er
ToScratch-Primary	ɤɛr	rr-ahh-ay-er
ToScratch-Rasare	ɤɛzar	rr-ahh-zz-ah-er
ToScratch-Rasicare	ɤɛʃkar	rr-ahh-shh-k-ah-er
ToScratch-Coctiare	kusar	k-u-s-ah-er
ToDig-Cavare	kɛvar	k-ahh-v-ah-er
ToDig-Excavare	ɪʃkɛvar	e-shh-k-ahh-v-ah-er
ToSwim-Primary	nɛðar	n-ahh-dd-ah-er
ToSwim-Navigare	nevɪɲar	n-ahh-v-eee-juh-ah-er
ToFly-Primary	vwar	v-w-ah-er



## Appendix 5 - Word Lists by Language

ToWalk-Primary	kəmiɲar	k-ahh-m-e-VdPalatalNasal-ah-er
ToWalk-Ambitare	ɛdar	ahn-d-ah-er
ToCome-Primary	vic	v-e-er
ToLieAsInABed-Primary	iftēder	e-shh-t-ehn-d-ay-er
ToLieAsInABed-lacere	zəzer	gzah-ahh-zz-ay-er
ToSit-Primary	ser	s-ay-er
ToSit-Sedentare	sētar	s-ehn-t-ah-er
ToStand-Primary	iftar	eee-shh-t-ah-er
ToStand-Levare	livar	l-eee-v-ah-er
ToStand-Altiare	alsar	ah-ssha-s-ah-er
ToTurnIntransitive-Primary	turnar	t-u-er-n-ah-er
ToTurnIntransitive-Gyrate	zirar	gzah-e-er-ah-er
ToTurnIntransitive-AncestralClass3	zirar	gzah-e-er-ah-er
ToTurnIntransitive-Torque	turser	t-u-r-s-ay-r
ToFall-Primary	keir	k-ahh-e-er
ToFall-Tumbare	tōbar	t-on-b-ah-er
ToGive-Primary	dar	d-ah-er
ToGive-Donare	duar	d-u-ah-er
ToHold-Primary	ter	t-ay-er
ToHold-Segurar	siyurar	s-eee-juh-u-er-ah-er
ToSqueeze-Primary	ifprəmer	e-shh-p-r-aah-m-ay-r
ToSqueeze-Serrere	sərar	s-aah-VIUvularTrill-ah-er
ToSqueeze-Serare	sixar	s-eee-rr-ah-er
ToSqueeze-Appetorare	ɛpirtar	ahh-p-eee-er-t-ah-er
ToSqueeze-Stringere	əftrɪzɪr	aah-shh-t-r-een-gzah-e-r
ToRub-Exfricare	iffriyar	eee-shh-f-er-eee-juh-ah-er
ToWash-Primary	lɛvar	l-ahh-v-ah-er
ToWipe-Exsucare	ɛʃuɣar	ehn-shh-u-juh-ah-er
ToWipe-Limpidare	lipar	l-een-p-ah-er
ToPull-Primary	tɪrar	t-e-er-ah-er
ToPull-Pulsare	pufar	p-u-shh-ah-er
ToPull-Trahere	trɛzer	t-er-ahh-zz-ay-er
ToThrow-Primary	zejtər	gzah-ayj-t-ah-er
ToThrow-Lanceare	lɛsar	l-ahn-s-ah-er
ToTie-Aptare	ɛtar	ahh-t-ah-er
ToSew-Primary	kuzer	k-u-zz-ay-er
ToCount-Primary	kōtar	k-on-t-ah-er
ToSay-Primary	dizer	d-e-zz-ay-er
ToSing-Primary	kɛtar	k-ahn-t-ah-er
ToPlay-Jiocare	zuɣar	gzah-u-juh-ah-er
ToFloat-Primary	flutuar	f-l-u-t-u-ah-er
ToFlow-Primary	flwir	f-l-w-e-er
ToFlow-Colare	kuar	k-u-ah-er
ToFlow-Excurrere	ifkurer	e-shh-k-u-VIUvularTrill-ay-er
ToFlow-Currere	kuxer	k-u-rr-ay-er
ToFreeze-Primary	zɪlar	gzah-eee-l-ah-er
ToSwell-Primary	ɪʃar	een-shh-ah-er
ToSwell-Intumescere	itumeser	een-t-u-m-ay-s-ay-er
ToSwell-Crescere	kriʃser	k-er-eee-shh-s-ay-er
ToBurn-Cremare	kejmaɛ	k-ayj-m-ah-rr-ay
ToBurn-Ardere	ɛrder	ahh-er-d-ay-er
ToBurn-Flagrare	flagrar	f-l-ah-g-er-ah-er
ToBurn-Incendere	isɛdjar	een-s-ehn-d-jg-ah-er
All-Totus	toðu	t-oh-dd-u
Many-Primary	mũjtu	m-ooo-jn-t-u
Many-Tantus	tɛtu	t-ahn-t-u
Some-Primary	atqũ	ah-ssha-g-ooo

## Appendix 5 - Word Lists by Language

Few-Primary	powku	p-oh-w-k-u
Other-Primary	owtru	oh-w-t-er-u
Other-Alius	ał	ah-ssha
Big-Grandem	grēdi	g-er-ahn-d-eee
Long-Longum	lōgu	l-on-g-u
Long-Largum	largu	l-ah-er-g-u
Wide-Primary	latu	l-ah-t-u
Wide-Amplum	ēfu	ahn-shh-u
Thick-Primary	grafu	g-er-ah-shh-u
Thick-Spissum	ifpesu	e-shh-p-ay-s-u
Thick-Grossus	grosu	g-er-oh-s-u
Heavy-Primary	gravi	g-er-ah-v-eee
Heavy-Lurdus	lerdo	l-ay-er-d-oh
Small-Pittinus	pikenu	p-eee-k-ay-n-u
Short-Primary	kurtu	k-u-er-t-u
Short-Brevis	brevi	b-er-eh-v-eee
Narrow-Strictus	iftrējtū	eee-shh-t-er-ahhj-t-u
Thin-Primary	miuōdu	m-e-u-dd-u
Thin-Delicatus	deŷaōdu	d-eh-ssha-juh-ah-dd-u
Thin-Subtilis	suŷtīw	s-u-ts-e-w
Warm-Primary	kaldū	k-ah-l-d-u
Cold-Primary	friu	f-er-e-u
Cold-Recens	kesēŷfi	rr-ay-s-ehn-ts-e
Full-Primary	ŷtju	shh-ahhj-u
New-Primary	novu	n-oh-v-u
Old-Primary	veŷu	v-ay-yuh-u
Good-Primary	bō	b-on
Bad-Primary	maw	m-ah-w
Rotten-Putrem	poōri	p-oh-dd-er-eee
Dirty-Primary	sōridū	s-euh-er-d-e-d-u
Dirty-Spurcus	ifpurku	e-shh-p-u-er-k-u
Straight-Primary	dirējtū	d-e-er-ahhj-t-u
Round-Primary	kidōdu	rr-eee-d-on-d-u
SharpAsAKnife-Primary	ēyūōdu	ahh-juh-u-dd-u
Smooth-Nitidus	neđzu	n-eh-VdPalatoAlveolarSibilant-u
Dry-Primary	seku	s-ay-k-u
Near-Primary	prosimu	p-er-oh-s-e-m-u
Near-Vicinus	viziju	v-e-zz-e-VdPalatalNasal-u
Right-Dextrem	deŷtru	d-eh-shh-t-er-u
Left-Primary	seŷtru	s-eh-shh-t-er-u
Red-Primary	koŷu	rr-oh-shh-u
Red-Vermiculus	virmeŷŷu	v-eee-er-m-ahhj-yuh-u
Red-Rubeus	rubeo	r-u-b-ay-oh
Green-Primary	verdi	v-ay-er-d-eee
Yellow-Amarellus	emeŷelu	ahh-m-ahh-er-eh-l-u
White-Primary	alvu	ah-l-v-u
One-Primary	ū	ooo
Two-Duos	dojŷ	d-oj_diphthong-shh
Two-Duas	duŷŷ	d-u-ahh-shh
Three-Primary	treŷ	t-er-ay-shh
Four-Primary	kwatru	k-w-ah-t-er-u
Five-Primary	siku	s-een-k-u
Here-Primary	eki	ahh-k-e
There-Primary	la	l-ah
There-Adlbi	ei	ahh-e
Who-Quem	keŷ	k-ahnjn
What-Primary	ki	k-eee

## Appendix 5 - Word Lists by Language

When-Quando	kwẽdu	k-w-ahn-d-u
How-Quomodo	komu	k-oh-m-u
Not-Primary	nẽw	n-au_diphthong_nasal
Not-Nec	nẽj	n-ahnjn
At-Primary	ẽ	ahh
In-In	ẽj	ahnjn
With-Cum	kõ	k-on
And-Et	i	e
And-Si	sĩ	s-een
Because-Quod	ki	k-eee

## Catalan

Cognate	IPA	Sounds
I-Primary	ʒo	gzah-euh
YouPlural-Primary	bus	b-u-s
YouSingular-Primary	tu	t-u
YouSingular-VostramMercedem	voste	v-oh-s-t-ay
Woman-Primary	fembra	f-ay-m-b-er-ah
Woman-Mulier	muʎe	m-u-yuh-ay
Woman-Domina	dõnõ	d-euh-n-aah
Child-Ninnus	nen	n-ay-n
Wife-Primary	əspõzõ	aah-s-p-euh-zz-aah
Husband-Primary	marit	m-ah-er-e-t
Husband-Sponsus	əspõs	aah-s-p-euh-s
Mother-Primary	marõ	m-ah-er-aah
Father-Primary	parõ	p-ah-er-aah
Fish-Piskem	peʃ	p-ay-shh
Bird-Avem	aw	ah-w
Bird-Avicellum	useʎ	u-s-ay-yuh
Dog-Primary	ka	k-ah
Louse-Primary	poʎ	p-oh-yuh
Snake-Primary	sərpen	s-aah-r-p-ay-n
Worm-Primary	vərɪm	v-eh-er-m
Tree-Primary	abrõ	ah-b-er-aah
Forest-Primary	selba	s-ay-l-b-ah
Stick-Primary	pəl	p-ah-l
Fruit-Primary	frujt	f-er-u-jg-t
Seed-Sementis	səmen	s-aah-m-ay-n
Seed-Granum	gra	g-er-ah
Leaf-Primary	fuʎõ	f-u-yuh-aah
Root-Primary	ərɛl	aah-r-eh-l
BarkOfATree-Skortea	əskõrsõ	aah-s-k-euh-r-s-aah
Flower-Primary	flõ	f-l-euh
Grass-Primary	erbõ	ay-r-b-aah
Grass-Gramen	gram	g-er-ah-m
Skin-Primary	konnõ	k-oh-n-n-aah
Skin-Pellis	peʎ	p-ay-yuh
Meat-Primary	karn	k-ah-r-n
Blood-Primary	saŋ	s-ah-nya
Bone-Primary	õs	euh-s
FatNoun-Crassia	grɛʃ	g-er-ay-shh
Egg-Primary	õw	euh-w
Horn-Primary	kõrn	k-euh-r-n
Tail-Primary	kua	k-u-ah
Feather-Primary	plomõ	p-l-oh-m-aah

## Appendix 5 - Word Lists by Language

Feather-Penna	pɛɲə	p-eh-VdPalatalNasal-aah
Hair-Primary	pɛl	p-eh-l
Hair-Capillus	kəbɛʌ	k-aah-b-eh-yuh
Head-Primary	kap	k-ah-p
Head-Testa	testə	t-ay-s-t-aah
Ear-Primary	urɛʌə	u-er-eh-yuh-aah
Nose-Primary	nas	n-ah-s
Nose-Nares	na:ris	n-A-r-I-s
Mouth-Primary	bokə	b-oh-k-aah
Mouth-Gula	golə	g-oh-l-aah
Foot-Primary	pɛw	p-eh-w
Leg-Gamba	kambə	k-ah-m-b-aah
Leg-Perna	pɛrnə	p-eh-r-n-aah
Knee-Geniculum	ʒənoʌ	gzah-aah-n-oh-yuh
Wing-Primary	alə	ah-l-aah
Belly-Primary	bentrə	b-ay-n-t-er-aah
Belly-Pantex	paɲʃə	p-ah-VdPalatalNasal-shh-aah
Guts-Primary	əntrəɲə	aah-n-t-er-ah-VdPalatalNasal-aah
Neck-Primary	kɔʌ	k-euh-yuh
Back-Primary	dos	d-oh-s
Back-Spatula	əspaʌʌə	aah-s-p-ah-yuh-yuh-aah
Breast-Primary	si	s-e
Breast-Pectus	pit	p-e-t
Heart-Primary	kɔr	k-euh-r
Liver-Primary	fɛdʒə	f-ay-VdPalatoAlveolarSibilant-aah
Sun-Primary	səl	s-euh-l
Moon-Primary	ʌunə	yuh-u-n-aah
Star-Primary	əstɛl	aah-s-t-eh-l
Water-Primary	ajɥwə	aj-juh-w-aah
Rain-Primary	pluzə	p-l-u-gzah-aah
River-Rivus	riw	r-e-w
Lake-Primary	ʌak	yuh-ah-k
Sea-Primary	mar	m-ah-r
Salt-Primary	sal	s-ah-l
Stone-Petra	pɛðrə	p-ay-dd-er-aah
Sand-Primary	ənɛnə	aah-er-ay-n-aah
Sand-Sabulum	sorə	s-oh-r-aah
Dust-Pulwus	pols	p-oh-l-s
Earth-Primary	tɛrə	t-eh-r-aah
Cloud-Nubilus	nuvɔl	n-u-v-oh-l
Fog-Nebula	newʌə	n-ay-w-l-aah
Fog-Tenebras	tənebrəs	t-aah-n-ay-b-er-aah-s
Sky-Primary	sɛl	s-eh-l
Wind-Primary	ben	b-ay-n
Snow-Primary	new	n-ay-w
Ice-Primary	ʒɛl	gzah-eh-ssha
Ice-Glacies	glas	g-l-ah-s
Smoke-Primary	fum	f-u-m
Fire-Focus	fɔk	f-euh-k
Ash-Primary	sɛndrə	s-eh-n-d-r-aah
Road-Primary	biə	b-e-aah
Road-Camminus	kəmi	k-aah-m-e
Mountain-Primary	mun	m-u-n
Mountain-Montanea	muntəɲə	m-u-n-t-ah-VdPalatalNasal-aah
Night-Primary	nɪt	n-e-t
Day-Primary	diə	d-e-aah
Day-Diurnus	ʒɔrn	gzah-oh-er-n

## Appendix 5 - Word Lists by Language

Year-Primary	ap	ah-VdPalatalNasal
Name-Nomen	nom	n-euh-m
Tongue-Primary	ʎɛŋgwə	yuh-eh-nya-g-w-aah
ToDrink-Primary	bɛwrə	b-eh-w-er-aah
ToEat-Manducare	məɲza	m-aah-VdPalatalNasal-gzah-ah
ToBite-Morsicare	musəɣa	m-u-s-aah-juh-ah
ToSpit-Exconspuere	əskupi	aah-s-k-u-p-e
ToBreathe-Primary	rəspira	r-aah-s-p-e-er-ah
ToLaugh-Primary	riwrə	r-e-w-er-aah
ToSee-Primary	bɛwrə	b-eh-w-er-aah
ToHear-Primary	ui	u-e
ToKnow-Sapere	səβɛ	s-aah-bb-eh
ToKnow-Cognoscere	kunɛfə	k-u-n-eh-shh-aah
ToThink-Primary	kujda	k-u-jg-d-ah
ToThink-Pensare	pənsa	p-aah-n-s-ah
ToSmell-Sentire	sənti	s-aah-n-t-e
ToSmell-Olere	ulura	u-l-u-er-ah
ToSmell-Fragrare	fləjra	f-l-aah-jg-er-ah
ToFear-Primary	temə	t-ay-m-aah
ToSleep-Primary	durmi	d-u-r-m-e
ToLive-Primary	biwrə	b-e-w-er-aah
ToDie-Primary	muri	m-u-er-e
ToKill-Primary	nəga	n-aah-g-ah
ToKill-Mactare	məta	m-aah-t-ah
ToKill-Occidere	uksi	u-k-s-e
ToFight-Primary	pupa	p-u-VdPalatalNasal-ah
ToFight-Battuere	batrə	b-ah-t-er-aah
ToHunt-Captiare	kəsa	k-aah-s-ah
ToCut-Primary	səɣa	s-aah-juh-ah
ToCut-Taliare	təʎa	t-aah-yuh-ah
ToSplit-Primary	dibidi	d-e-b-e-d-e
ToSplit-Findere	fəndrə	f-eh-n-d-er-aah
ToSplit-Partire	pərti	p-aah-r-t-e
ToSplit-Separare	səpəra	s-aah-p-aah-er-ah
ToStab-Primary	pupi	p-u-VdPalatalNasal-e
ToScratch-Primary	rawrə	r-ah-w-er-aah
ToScratch-Rasare	rəza	r-aah-zz-ah
ToScratch-Rasicare	rəska	r-aah-s-k-ah
ToDig-Cavare	kəba	k-aah-b-ah
ToSwim-Primary	nəda	n-aah-d-ah
ToSwim-Navigare	nəbəga	n-aah-b-aah-g-ah
ToFly-Primary	bula	b-u-l-ah
ToWalk-Primary	kəmina	k-aah-m-e-n-ah
ToCome-Primary	bəni	b-aah-n-e
ToLieAsInABed-Primary	əstendrə	aah-s-t-ay-n-d-er-aah
ToLieAsInABed-Iacere	zawrə	gzah-ah-w-er-aah
ToStand-Primary	əsta	aah-s-t-ah
ToStand-Levare	ʎəba	yuh-aah-b-ah
ToStand-Altiare	əlsa	aah-l-s-ah
ToTurnIntransitive-Primary	turna	t-u-r-n-ah
ToTurnIntransitive-Gyrare	zira	gzah-e-er-ah
ToTurnIntransitive-AncestralClass3	bira	b-e-er-ah
ToTurnIntransitive-Torquere	tərsə	t-euh-r-s-aah
ToFall-Primary	kawrə	k-ah-w-r-aah
ToFall-Tumbare	tumba	t-u-m-b-ah
ToGive-Primary	dar	d-ah-r
ToGive-Donare	duna	d-u-n-ah

## Appendix 5 - Word Lists by Language

ToHold-Primary	təni	t-aah-n-e
ToSqueeze-Primary	əspremə	aah-s-p-er-ay-m-aah
ToSqueeze-Serrere	səra	s-aah-r-ah
ToSqueeze-Stringere	əstreɲə	aah-s-t-er-eh-VdPalatalNasal-aah
ToRub-Primary	frəga	f-er-aah-g-ah
ToRub-Frictiare	frəsa	f-er-aah-s-ah
ToWash-Primary	ʎəba	yuh-aah-b-ah
ToWipe-Extergere	əstərzi	aah-s-t-aah-r-gzah-e
ToWipe-Exsucare	əfuga	aah-shh-u-g-ah
ToPull-Primary	tira	t-e-er-ah
ToPull-Trahere	trəwrə	t-er-eh-w-er-aah
ToPush-Primary	əmpɛɲə	aah-m-p-eh-VdPalatalNasal-aah
ToThrow-Primary	xita	xha-e-t-ah
ToThrow-Lanceare	ʎənsa	yuh-aah-n-s-ah
ToTie-Primary	ʎiɣa	yuh-e-juh-ah
ToSew-Primary	kuzi	k-u-zz-e
ToCount-Primary	kumta	k-u-m-t-ah
ToCount-Numerare	numera	n-u-m-ay-er-ah
ToSay-Primary	di	d-e
ToSing-Primary	kənta	k-aah-n-t-ah
ToPlay-Jiocare	zuga	gzah-u-g-ah
ToFloat-Primary	fluktua	f-l-u-k-t-u-ah
ToFlow-Primary	flui	f-l-u-e
ToFlow-Colare	kula	k-u-ssha-ah
ToFlow-Excurrere	əskorə	aah-s-k-oh-r-aah
ToFlow-Currere	korə	k-oh-r-aah
ToFreeze-Primary	zəla	gzah-aah-l-ah
ToFreeze-Glaciare	gləsa	g-l-aah-s-ah
ToSwell-Primary	imfla	e-m-f-l-ah
ToSwell-Crescere	kreɟə	k-er-ay-shh-aah
ToBurn-Cremare	krəma	k-r-aah-m-ah
ToBurn-Flammare	flama	f-ssha-ah-m-ah
ToBurn-Incendere	ənsendrə	aah-n-s-ay-n-d-er-aah
All-Totus	tot	t-oh-t
Many-Primary	mol	m-oh-l
Many-Tantus	tant	t-ah-n-t
Some-Primary	əɬgu	aah-l-g-u
Few-Primary	pək	p-euh-k
Other-Primary	altɹə	ah-l-t-er-aah
Big-Grandem	gran	g-r-ah-n
Long-Longum	ʎoŋ	yuh-oh-nya
Long-Largum	ʎark	yuh-ah-er-k
Wide-Amplum	amplə	ah-m-p-l-aah
Thick-Primary	gras	g-er-ah-s
Thick-Spissum	əspɛs	aah-s-p-eh-s
Thick-Grossus	grəs	g-er-euh-s
Heavy-Primary	grew	g-er-ay-w
Small-Primary	pətit	p-aah-t-e-t
Short-Primary	kurt	k-u-er-t
Short-Brevis	brew	b-er-ay-w
Narrow-Strictus	əstɹɛt	aah-s-t-er-eh-t
Thin-Primary	mənɹut	m-aah-n-u-t
Thin-Delicatus	dəlikat	d-aah-l-e-k-ah-t
Thin-Subtilis	suptil	s-u-p-t-e-l
Warm-Primary	kaɫ	k-ah-ssha
Cold-Primary	fɹɛt	f-er-eh-t
Full-Primary	pɫɛ	p-ssha-ch

## Appendix 5 - Word Lists by Language

New-Primary	nəw	n-euh-w
Old-Primary	veʌ	v-ay-yuh
Good-Primary	bən	b-euh-n
Bad-Primary	mal	m-ah-l
Rotten-Primary	puðrit	p-u-dd-er-e-t
Straight-Primary	dret	d-er-eh-t
Round-Primary	rədo	r-aah-d-oh
SharpAsAKnife-Primary	əgut	aah-g-u-t
Smooth-Primary	suaw	s-u-ah-w
Smooth-Nitidus	net	n-eh-t
Dry-Primary	sek	s-eh-k
Near-Primary	proizme	p-er-oh-e-zz-m-ay
Near-AdPrope	əprəp	aah-p-er-euh-p
Near-Vicinus	bəi	b-aah-e
Far-Primary	ʎunta	yuh-u-n-t-ah
Right-Dextrem	destrə	d-ay-s-t-er-aah
Red-Primary	rəs	r-oh-s
Red-Vermiculus	bərmɛʌ	b-aah-r-m-eh-yuh
Red-Rubeus	rudʒe	r-u-VdPalatoAlveolarSibilant-ay
Green-Primary	vert	v-eh-er-t
Yellow-Croceus	grək	g-er-euh-k
White-Primary	alb	ah-l-b
One-Primary	un	u-n
Two-Duos	dos	d-oh-s
Three-Primary	trəs	t-r-eh-s
Four-Primary	kwatrə	k-w-ah-t-er-aah
Five-Primary	siŋk	s-e-nya-k
Here-Primary	aki	ah-k-e
There-Primary	əʎa	aah-yuh-ah
Who-Qui	ki	k-e
What-Primary	kɛ	k-eh
When-Quando	kwan	k-w-ah-n
How-Quomodo	kəm	k-euh-m
Not-Primary	no	n-oh
Not-Nec	ni	n-e
At-Primary	a	ah
In-In	ən	aah-n
In-Deintus	dins	d-e-n-s
And-Et	i	e
And-Si	si	s-e
Because-Quod	kə	k-aah

## Walloon

Cognate	IPA	Sounds
I-Primary	dʒɪ	VdPalatoAlveolarSibilant-l
We-Primary	no	n-oh
YouPlural-Primary	vos	v-oh-s
YouSingular-Primary	ty	t-eeh
Woman-Primary	fœm	f-uuh-m
Woman-Domina	dɑm	d-ah-m
Child-Primary	ɛfɑ̃	eh-f-Nasala
Mother-Primary	mer	m-ay-r
Father-Primary	pɛr	p-eh-r
Animal-Bestia	bies	b-e-eh-s
Fish-Pescion	pɛhð	p-eh-h-on

## Appendix 5 - Word Lists by Language

Bird-Avicellum	uħe	u-h-eh
Dog-Primary	ʈʂe	ts-ehnn
Louse-Primary	pju	p-jg-u
Snake-Primary	sɣɛpɛ	s-jg-eh-r-p-ehnn
Worm-Primary	vjer	v-jg-ay-r
Tree-Primary	ɔp	euh-p
Stick-Primary	pa	p-a
Fruit-Primary	fryt	f-r-eeh-t
Seed-Sementis	simɛs	s-e-m-ehnn-s
Seed-Granum	grin	g-r-e-n
Leaf-Primary	fɔj	f-mid_low_diphthong
Root-Radicina	resɛn	r-eh-s-eh-n
BarkOfATree-Skortea	hwɛs	h-w-eh-s
Flower-Primary	flɔɛr	f-l-uuh-r
Grass-Primary	jɛp	jg-eh-p
Skin-Primary	kojin	k-oj_diphthong-e-n
Skin-Pellis	pɛ	p-eh
Meat-Primary	ʈʂar	ts-a-r
Blood-Primary	sɔŋ	s-oon-g
Bone-Primary	ɔħe	euh-h-eh
FatNoun-Crassia	krɔħ	k-r-euh-h
Egg-Primary	u	u
Horn-Primary	kwɛn	k-w-eh-n
Tail-Primary	kɔw	k-euh-w
Feather-Primary	plɔm	p-l-euh-m
Feather-Penna	pɛn	p-eh-n
Hair-Primary	pwɛl	p-w-eh-l
Hair-Capillus	dʒive	VdPalatoAlveolarSibilant-e-v-eh
Head-Primary	ʈʂɛs	ts-eh-s
Head-Testa	ʈʂɛs	ts-eh-s
Ear-Primary	ɔɾɛj	euh-VIUvularTrill-ehj
Eye-Primary	uj	u-jg
Nose-Primary	ne	n-ay
Mouth-Primary	bɔk	b-euh-k
Mouth-Gula	gɔɛj	g-uuh-jg
Tooth-Primary	dɛ	d-ehnn
Fingernail-Primary	ɔŋ	oon-g
Foot-Primary	pi	p-e
Leg-Gamba	dʒɔp	VdPalatoAlveolarSibilant-NasalA-p
Knee-Geniculum	ŋɔɔ	VdPalatalNasal-VdPalatalNasal-euh
Hand-Primary	mɛ	m-ehnn
Wing-Primary	ɛl	ay-l
Belly-Primary	vɛt	v-ehnn-t
Belly-Pantex	pɔs	p-NasalA-s
Neck-Primary	ko	k-oh
Back-Primary	do	d-oh
Back-Spatula	spal	s-p-ah-l
Breast-Pectorina	pwɛtrin	p-w-eh-t-r-e-n
Heart-Primary	kuk	k-u-rr
Heart-Anima	am	a-m
Liver-Primary	fɔɛt	f-uuh-t
Sun-Soliculus	solo	s-euh-l-euh
Moon-Primary	lɔn	l-uuh-n
Star-Primary	stɔɛl	s-t-uuh-l
Water-Primary	ɛw	eh-w
Rain-Primary	plɛf	p-l-eh-f
River-Rivus	re	r-eh



## Appendix 5 - Word Lists by Language

River-Riparia	rivi:r	r-e-v-E-r
Lake-Primary	lak	l-ah-k
Sea-Primary	mer	m-ay-r
Salt-Primary	se	s-ay
Stone-Petra	piɤ	p-e-rr
Sand-Primary	aren	ah-r-eh-n
Sand-Sabulum	savjɔ̃	s-a-v-jg-oon
Earth-Primary	teɤ	t-ay-rr
Fog-Nebula	njyl	n-jg-eeh-l
Sky-Primary	sir	s-e-r
Wind-Primary	vɛ	v-ehnn
Snow-Primary	nivaj	n-e-v-aj
Ice-Glacies	glɛs	g-l-eh-s
Fire-Focus	fœ	f-uuh
Ash-Primary	set	s-ehnn-t
Road-Primary	voj	v-oj_diphthong
Road-Camminus	ʃimɛ	ts-e-m-ehnn
Mountain-Primary	mɔ̃	m-oon
Mountain-Montanea	mɔ̃tap	m-oon-t-ah-VdPalatalNasal
Night-Primary	nyt	n-eeh-t
Day-Primary	dʒu	VdPalatoAlveolarSibilant-u
Day-Diurnus	dʒu:	VdPalatoAlveolarSibilant-U
Year-Primary	ã	NasalA
Name-Nomen	nɔ̃	n-oon
Tongue-Primary	lɛv	l-ehnn-v
ToDrink-Primary	bø:ɤ	b-o-rr
ToEat-Manducare	mapi:	m-ah-VdPalatalNasal-E
ToSuck-Primary	sysi:	s-eeh-s-E
ToVomit-Primary	vo:mi	v-O-m-e
ToBlow-Primary	sufle	s-u-f-l-ay
ToLaugh-Primary	ki:ɤ	rr-E-rr
ToSee-Primary	vi:r	v-E-VIUvularTrill
ToHear-Primary	õr	on-VIUvularTrill
ToKnow-Sapere	savø:r	s-ah-v-o-VIUvularTrill
ToKnow-Cognoscere	kinɔh	k-e-n-euh-h
ToThink-Pensare	pɛse	p-ehnn-s-ay
ToSmell-Sentire	seti	s-ehnn-t-e
ToSleep-Primary	dwaɤmi	d-w-ah-rr-m-e
ToDie-Primary	mɔri	m-euh-VIUvularTrill-e
ToKill-Tutari	tuwe	t-u-w-ay
ToFight-Battuere	bate	b-ah-t-ay
ToHunt-Captiare	ʃesi:	ts-eh-s-E
ToCut-Taliare	teji:	t-eh-jg-E
ToSplit-Findere	fɛt	f-ehnn-t
ToSplit-Partire	pɔ:rti	p-LongOpenMidBackRounded-VIUvularTrill-t-e
ToSwim-Navigare	nedʒi:	n-eh-VdPalatoAlveolarSibilant-E
ToFly-Primary	vole	v-euh-l-ay
ToWalk-Primary	ʃimine	ts-e-m-e-n-ay
ToWalk-Marcher	ma:rʃi:	m-A-VIUvularTrill-ts-E
ToCome-Primary	vini	v-e-n-e
ToLieAsInABed-lacere	dʒere	VdPalatoAlveolarSibilant-ay-r-ay
ToStand-Primary	es	eh-s
ToStand-Levare	løve	l-aah-v-ay
ToStand-Altiare	hɔ:si:	h-LongOpenMidBackRounded-s-E
ToTurnIntransitive-Primary	tu:rne	t-U-r-n-ay
ToTurnIntransitive-AncestralClass3	vike	v-e-rr-ay
ToFall-Primary	ʃɛ:r	ts-Eh-VIUvularTrill

## Appendix 5 - Word Lists by Language

ToFall-Tumbare	tume	t-u-m-ay
ToGive-Donare	dine	d-e-n-ay
ToHold-Primary	tini	t-e-n-e
ToSqueeze-Serare	sere	s-eh-VIUvularTrill-ay
ToSqueeze-Stringere	stringe	s-t-r-e-n-g-ay
ToRub-Primary	froj	f-r-oj_diphthong
ToRub-Frictare	fröte	f-rr-oh-t-ay
ToWash-Primary	lave	l-ah-v-ay
ToWipe-Exsucare	suwe	s-u-w-ay
ToPull-Primary	tire	t-e-r-ay
ToPull-Pulsare	pu:si:	p-U-s-E
ToThrow-Primary	dʒete	VdPalatoAlveolarSibilant-eh-t-ay
ToThrow-Lanceare	lanci:	l-ah-n-tya-E
ToTie-Primary	lɔji:	l-mid_low_diphthong-E
ToSew-Primary	kø:z	k-o-zz
ToCount-Primary	köte	k-on-t-ay
ToSay-Primary	di:ʁ	d-E-rr
ToSing-Primary	ʃäte	ts-NasalA-t-ay
ToPlay-Jiocare	dʒuwe	VdPalatoAlveolarSibilant-u-w-ay
ToFlow-Colare	köle	k-euh-l-ay
ToFlow-Currere	köri	k-euh-VIUvularTrill-e
ToFreeze-Primary	dʒale	VdPalatoAlveolarSibilant-ah-l-ay
ToSwell-Primary	ēfle	ehn-f-l-ay
ToSwell-Conflare	gōfle	g-on-f-l-ay
All-Totus	tə	t-euh
Few-Primary	pō	p-on
Other-Primary	öt	on-t
Big-Grandem	gʁã	g-rr-NasalA
Long-Longum	lō	l-on
Thick-Spissum	spe	s-p-eh
Heavy-Primary	grav	g-r-ah-v
Small-Primary	piti	p-e-t-e
Short-Primary	ku:ʁ	k-U-rr
Short-Brevis	bʁef	b-rr-ay-f
Narrow-Strictus	stʁø:	s-t-rr-o
Thin-Primary	minu	m-e-n-u
Thin-Subtilis	su:ti	s-U-t-e
Warm-Primary	ʃō	ts-on
Cold-Primary	frwe	f-VIUvularTrill-w-eh
Full-Primary	plē	p-l-ehn
New-Primary	nove	n-euh-v-eh
Old-Primary	vi:	v-E
Good-Primary	bō	b-on
Bad-Primary	mə:	m-LongOpenMidBackRounded
Straight-Primary	drø:	d-r-o
Round-Primary	rō	r-on
Dry-Primary	seʃ	s-eh-ts
Near-Pressus	pre	p-r-eh
Near-Vicinus	viʒē	v-e-gzah-ehn
Red-Rubeus	rəʃ	r-euh-ts
Green-Primary	veʁ	v-eh-rr
Yellow-Primary	dʒen	VdPalatoAlveolarSibilant-eh-n
One-Primary	ō	on
Two-Duos	dø:	d-o
Three-Primary	trø:	t-r-o
Four-Primary	kwat	k-w-ah-t
Five-Primary	sēk	s-ehn-k

## Appendix 5 - Word Lists by Language

There-Primary	la	l-ah
Who-Qui	ki:	k-E
What-Primary	kwe:	k-w-Eh
When-Quando	kwand	k-w-ah-n-d
How-Quomodo	kɔmẽ	k-euh-m-ehnn
Not-Primary	nɔ̃	n-oon
Not-Nec	nẽ	n-ehn
At-Primary	a	ah
With-Abhoc	avu	ah-v-u
And-Et	ε	eh
And-Si	si	s-e
Because-Quod	ki:	k-E

## Friulian

Cognate	IPA	Sounds
I-Primary	jo	jg-oh
We-Primary	no:	n-O
YouPlural-Primary	vo:	v-O
YouSingular-Primary	tu	t-u
Woman-Primary	femine	f-eh-m-e-n-eh
Woman-Mulier	mui:r	m-u-E-r
Woman-Domina	dɔne	d-euh-n-ay
Husband-Primary	mari:t	m-ah-r-E-t
Husband-Sponsus	spo:s	s-p-O-s
Mother-Primary	mari	m-ah-r-e
Father-Primary	pari	p-ah-r-e
Animal-Primary	nema:l	n-ay-m-A-l
Animal-Bestia	bis	b-e-s
Fish-Piskem	pɛs	p-eh-s
Bird-Avicellum	ufjel	u-ts-jg-eh-l
Dog-Primary	can	tya-ah-n
Louse-Primary	pedoli	p-ay-d-oh-l-e
Snake-Primary	sarpint	s-ah-r-p-e-n-t
Worm-Primary	vjer	v-jg-eh-r
Tree-Primary	arbul	ah-r-b-u-l
Forest-Primary	selve	s-eh-l-v-ay
Stick-Primary	pa:l	p-A-l
Fruit-Primary	frut	f-r-u-t
Seed-Sementis	semenʃe	s-ay-m-eh-n-ts-eh
Seed-Granum	gran	g-r-ah-n
Leaf-Primary	fwee	f-w-ay-ay
BarkOfATree-Skorteia	skwartse	s-k-w-ah-r-VIAIveolarSibilantAffricate-ay
Flower-Primary	flo:r	f-l-O-r
Grass-Primary	jarbe	jg-ah-r-b-ay
Skin-Pellis	pjel	p-jg-eh-l
Meat-Primary	ca:r	tya-A-r
Blood-Primary	saŋk	s-ah-nya-k
Bone-Primary	vwes	v-w-eh-s
Egg-Primary	u:f	U-f
Horn-Primary	kwa:r	k-w-A-r
Tail-Primary	kɔde	k-euh-d-eh
Feather-Primary	plume	p-l-u-m-eh
Feather-Penna	pene	p-eh-n-ay
Hair-Primary	pe:l	p-ai-l
Hair-Capillus	cavej	tya-ah-v-ayj

## Appendix 5 - Word Lists by Language

Head-Primary	ca:f	tya-A-f
Head-Testa	teste	t-eh-s-t-ay
Ear-Primary	orele	oh-r-ay-l-ay
Eye-Primary	voli	v-oh-l-e
Nose-Primary	na:s	n-A-s
Mouth-Primary	bœœ	b-euh-tya-eh
Mouth-Gula	gœle	g-euh-l-ay
Tooth-Primary	dint	d-e-n-t
Fingernail-Primary	œngule	euh-nya-g-u-l-eh
Foot-Primary	pi:t	p-E-t
Leg-Gamba	jambe	VdPalatalStop-ah-m-b-ay
Leg-Petiolus	pekol	p-eh-k-oh-l
Knee-Genuculum	dœenoli	VdPalatoAlveolarSibilant-ay-n-oh-l-e
Hand-Primary	maŋ	m-ah-nya
Wing-Primary	ale	ah-l-ay
Belly-Primary	vintri	v-e-n-t-r-e
Belly-Pantex	pantse	p-ah-n-VlAlveolarSibilantAffricate-ay
Neck-Primary	kwœl	k-w-eh-l
Back-Primary	dwes	d-w-ay-s
Back-Spatula	spale	s-p-ah-l-eh
Breast-Primary	sen	s-ay-n
Breast-Pectus	pet	p-eh-t
Heart-Primary	ku:r	k-U-r
Heart-Anima	anime	ah-n-e-m-ay
Liver-Primary	fija:t	f-e-jg-A-t
Sun-Soliculus	soreli	s-oh-r-ay-l-e
Moon-Primary	lune	l-u-n-ay
Star-Primary	stele	s-t-eh-l-ay
Water-Primary	age	ah-g-ay
Rain-Primary	ploje	p-l-oh-jg-ay
River-Primary	flum	f-l-u-m
Lake-Primary	la:t	l-A-t
Sea-Primary	ma:r	m-A-r
Salt-Primary	sa:l	s-A-l
Stone-Petra	pje:re	p-jg-ai-r-ay
Sand-Sabulum	savalœn	s-ah-v-ah-l-euh-n
Dust-Primary	pœlvar	p-euh-l-v-ah-r
Earth-Primary	tjere	t-jg-eh-r-ay
Cloud-Nubilus	nu:l	n-U-l
Fog-Fumata	fumate	f-u-m-ah-t-ay
Sky-Primary	ŋi:l	ts-E-l
Wind-Primary	'vint	v-e-n-t
Snow-Primary	ne:f	n-ai-f
Ice-Glacies	glatŋe	g-l-ah-ts-ay
Smoke-Primary	fum	f-u-m
Fire-Focus	fu:k	f-U-k
Ash-Cinisia	ŋinize	ts-e-n-e-zz-eh
Mountain-Primary	mœnt	m-euh-n-t
Mountain-Montanea	mœntape	m-euh-n-t-ah-VdPalatalNasal-ay
Night-Primary	ŋœt	VdPalatalNasal-euh-t
Day-Primary	di	d-e
Day-Diurnata	œzornade	VdPalatoAlveolarAffricate-oh-r-n-ah-d-ay
Year-Primary	aŋ	ah-nya
Name-Nomen	nœŋ	n-euh-nya
Tongue-Primary	'lœnge	l-eh-n-g-eh
ToDrink-Primary	bevi	b-ay-v-e
ToEat-Manducare	manja:	m-ah-nya-VdPalatalStop-A

## Appendix 5 - Word Lists by Language

ToBite-Primary	mwardi	m-w-ah-r-d-e
ToSuck-Primary	cuca:	tya-u-tya-A
ToSpit-Sputare	spuda:	s-p-u-d-A
ToBlow-Primary	sofla:	s-oh-f-l-A
ToBreathe-Primary	respira:	r-ay-s-p-e-r-A
ToLaugh-Primary	ridi	r-e-d-e
ToSee-Primary	vjodi	v-jg-oh-d-e
ToHear-Primary	uldi:	u-l-d-E
ToKnow-Sapere	save:	s-ah-v-ai
ToKnow-Cognoscere	koposi	k-oh-VdPalatalNasal-oh-s-e
ToThink-Pensare	penša:	p-ay-nya-s-A
ToSmell-Sentire	sinti:	s-e-n-t-E
ToFear-Primary	temi	t-ay-m-e
ToFear-Tremere	trima:	t-r-e-m-A
ToSleep-Primary	durmi:	d-u-r-m-E
ToLive-Primary	vivi	v-e-v-e
ToDie-Primary	muri:	m-u-r-E
ToKill-Mactare	maŋa:	m-ah-ts-A
ToFight-Battuere	bati	b-ah-t-e
ToHunt-Captiare	caŋa:	tya-ah-ts-A
ToHit-Primary	pulsa:	p-u-l-s-A
ToCut-Primary	sea:	s-ay-A
ToCut-Excurtare	skurta:	s-k-u-r-t-A
ToCut-Taliare	taja:	t-ah-jg-A
ToSplit-Primary	dividi	d-e-v-e-d-e
ToSplit-Partire	parti:	p-ah-r-t-E
ToSplit-Separare	separa:	s-ay-p-ah-r-A
ToScratch-Primary	rada:	r-ah-d-A
ToScratch-Rasare	rasa:	r-ah-s-A
ToDig-Cavare	java:	VdPalatalStop-ah-v-A
ToDig-Excavare	zjava:	zz-VdPalatalStop-ah-v-A
ToSwim-Primary	nada:	n-ah-d-A
ToSwim-Navigare	naviga:	n-ah-v-e-g-A
ToFly-Exvolare	zvola:	zz-v-oh-l-A
ToWalk-Primary	camina:	tya-ah-m-e-n-A
ToCome-Primary	vjni:	v-e-VdPalatalNasal-E
ToLieAsInABed-lacere	jesi	jg-ay-s-e
ToSit-Sedentare	senta:	s-ay-n-t-A
ToStand-Primary	sta:	s-t-A
ToStand-Levare	leva:	l-ay-v-A
ToStand-Altiare	alŋa:	ah-l-ts-A
ToTurnIntransitive-Primary	torna:	t-oh-r-n-A
ToTurnIntransitive-Gyrate	ɖgira:	VdPalatoAlveolarSibilant-e-r-A
ToTurnIntransitive-AncestralClass3	ɖgira:	VdPalatoAlveolarSibilant-e-r-A
ToFall-Primary	ŋjade	ts-jg-ah-d-ay
ToGive-Primary	da:	d-A
ToGive-Donare	dona:	d-oh-n-A
ToHold-Primary	tinji	t-e-n-jg-e
ToSqueeze-Primary	esprimi	ay-s-p-r-e-m-e
ToSqueeze-Stringere	strengi:	s-t-r-ch-n-g-E
ToRub-Primary	frea	f-r-ay-ah
ToWash-Primary	lava:	l-ah-v-A
ToWipe-Exsucare	suja:	s-u-jg-A
ToPull-Primary	tira:	t-e-r-A
ToPull-Pulsare	pulsa:	p-u-l-s-A
ToPull-Trahere	traj	t-r-aj
ToThrow-Lanceare	lanŋa:	l-ah-n-ts-A

## Appendix 5 - Word Lists by Language

ToTie-Primary	lea:	l-ay-A
ToSew-Primary	kuzi	k-u-zz-e
ToCount-Primary	konta:	k-oh-n-t-A
ToCount-Numerare	numera:	n-u-m-ay-r-A
ToSay-Primary	di:	d-E
ToSing-Primary	canta:	tya-ah-n-t-A
ToPlay-Jiocare	dzuja:	VdPalatoAlveolarSibilant-u-jg-A
ToFlow-Excurrere	skori:	s-k-oh-r-E
ToFlow-Currere	kori	k-oh-r-e
ToFreeze-Glaciare	glafja:	g-l-ah-ts-A
ToSwell-Primary	enfla:	ay-n-f-l-A
ToSwell-Conflare	zglonfa:	zz-g-l-oh-nya-f-A
ToBurn-Flammare	flama:	f-l-ah-m-A
All-Totus	dut	d-u-t
Many-Primary	molc	m-oh-l-tya
Many-Tantus	tanc	t-ah-n-tya
Few-Primary	po:k	p-O-k
Other-Primary	altri	ah-l-t-r-e
Big-Grandem	grant	g-r-ah-n-t
Long-Longum	lunk	l-u-n-k
Long-Largum	lark	l-ah-r-k
Thick-Primary	gras	g-r-ah-s
Thick-Grossus	grwes	g-r-w-eh-s
Heavy-Primary	grevi	g-r-eh-v-e
Small-Pitulus	pitful	p-e-ts-u-l
Short-Primary	kurt	k-u-r-t
Narrow-Strictus	stret	s-t-r-eh-t
Thin-Primary	minu:t	m-e-n-U-t
Thin-Subtilis	suti:l	s-u-t-E-l
Warm-Primary	calt	tya-ah-l-t
Cold-Primary	fre:t	f-r-ai-t
Cold-Recens	retsint	r-ay-VlAlveolarSibilantAffricate-e-n-t
Full-Primary	plen	p-l-eh-n
New-Primary	nu:f	VdPalatalNasal-U-f
Old-Primary	vjei	v-jg-ay-e
Good-Primary	bon	b-euh-n
Bad-Primary	ma:l	m-A-l
Dirty-Spurcus	spork	s-p-euh-r-k
Straight-Primary	dret	d-r-eh-t
Round-Primary	taront	t-ah-r-euh-n-t
Smooth-Nitidus	net	n-eh-t
Wet-Primary	umid	u-m-e-d
Dry-Primary	sek	s-eh-k
Near-Primary	prosim	p-r-oh-s-e-m
Near-Vicinus	viŋin	v-e-ts-e-n
Far-Primary	lontan	l-oh-n-t-ah-n
Right-Dextrem	djestri	d-jg-ay-s-t-r-e
Left-Primary	sinestri	s-e-VdPalatalNasal-ay-s-t-r-e
Red-Primary	ros	r-euh-s
Green-Primary	vert	v-eh-r-t
One-Primary	uŋ	u-nya
Two-Duos	doj	d-oj_diphthong
Three-Primary	'tre:	t-r-ai
Four-Primary	kwatri	k-w-ah-t-r-e
Five-Primary	'ŋiŋk	ts-e-nya-k
Here-Primary	aki	ah-k-e
Who-Qui	kwi	k-w-e

## Appendix 5 - Word Lists by Language

What-Primary	ʃe	ts-ay
When-Quando	kwant	k-w-ah-n-t
How-Quomodo	ʃemu:t	ts-ay-m-U-t
Not-Primary	no	n-oh
At-Primary	a	ah
And-Et	e	ay
And-Si	si	s-e
Because-Quod	ke	k-ay

## Romanian

Cognate	IPA	Sounds
I-Primary	jew	jg-ay-w
We-Primary	noj	n-øj_diphthong
YouPlural-Primary	voj	v-øj_diphthong
YouSingular-Primary	tu	t-u
Woman-Primary	femeje	f-ay-m-ay-jg-ay
Woman-Mulier	mujere	m-u-jg-ay-r-ay
Woman-Domina	doamnə	d-oaa-m-n-aah
Husband-Primary	mərit	m-aah-r-e-t
Husband-Socius	sots	s-oh-VlAlveolarSibilantAffricate
Father-Tata	tatə	t-ah-t-aah
Animal-Primary	nəmaje	n-aah-m-ah-jg-ay
Fish-Piskem	peʃte	p-ay-shh-t-ay
Bird-Passerem	pasəre	p-ah-s-aah-er-ay
Dog-Primary	kijne	k-eeej-n-ay
Louse-Primary	pədukje	p-aah-d-u-k-jg-ay
Snake-Primary	ʃarpe	shh-ah-er-p-ay
Worm-Primary	vjerme	v-jg-ay-r-m-ay
Tree-Primary	arbore	ah-r-b-oh-r-ay
Stick-Primary	par	p-ah-er
Fruit-Primary	frukt	f-r-u-k-t
Seed-Sementis	səminʃə	s-aah-m-eee-n-ts-aah
Seed-Gratum	griv	g-r-iw
Leaf-Primary	foaje	f-oaa-jg-ay
Leaf-Frondea	frunzə	f-er-u-n-zz-aah
Root-Radicina	rədəʃʃinə	r-aah-d-aah-ts-e-n-aah
BarkOfATree-Skortea	skoartə	s-k-oaa-er-VlAlveolarSibilantAffricate-aah
Flower-Primary	floare	f-l-oaa-er-ay
Grass-Primary	jarbə	jg-ah-er-b-aah
Rope-Primary	funje	f-u-n-jg-ay
Skin-Pellis	pjele	p-jg-ay-l-ay
Meat-Primary	karne	k-ah-er-n-ay
Blood-Primary	sindze	s-eee-n-VdPalatoAlveolarSibilant-ay
Bone-Primary	os	oh-s
Egg-Primary	ow	oh-w
Horn-Primary	korn	k-oh-r-n
Tail-Primary	coada	tya-oaa-d-aah
Feather-Penna	panə	p-ah-n-aah
Hair-Primary	pər	p-aah-er
Head-Primary	kap	k-ah-p
Head-Testa	tseastə	VlAlveolarSibilantAffricate-eaha-s-t-aah
Ear-Primary	ureke	u-r-ay-k-ay
Eye-Primary	okj	oh-kpalatal
Nose-Primary	nas	n-ah-s
Mouth-Primary	bukə	b-u-k-aah

## Appendix 5 - Word Lists by Language

Mouth-Gula	gura	g-u-er-aah
Tooth-Primary	dinte	d-e-n-t-ay
Fingernail-Primary	ungje	u-n-g-jg-ay
Foot-Primary	piez	p-e-ay-zz
Leg-Gamba	gambə	g-ah-m-b-aah
Leg-Petiolus	piŋjor	p-e-ts-jg-oh-r
Knee-Geniculum	dʒenunki	VdPalatoAlveolarSibilant-ay-n-u-n-kpalatal
Hand-Primary	minə	m-eee-n-aah
Belly-Primary	vintre	v-e-n-t-r-ay
Belly-Pantex	pintetʃe	p-eee-n-t-ay-ts-ay
Back-Primary	do	d-oh
Back-Spatula	spate	s-p-ah-t-ay
Breast-Primary	san	s-ah-n
Breast-Pectus	pjept	p-jg-ay-p-t
Heart-Anima	inimə	e-n-e-m-aah
Liver-Primary	fikat	f-e-k-ah-t
Sun-Primary	soare	s-oaa-er-ay
Moon-Primary	lunə	l-u-n-aah
Star-Primary	stea	s-t-eaha
Water-Primary	apə	ah-p-aah
Rain-Primary	ploaje	p-l-oaa-jg-ay
River-Rivus	riw	r-eee-w
Lake-Primary	lak	l-ah-k
Sea-Primary	mare	m-ah-r-ay
Salt-Primary	sare	s-ah-r-ay
Stone-Petra	pjatrə	p-jg-ah-t-er-aah
Sand-Primary	arinə	ah-r-e-n-aah
Dust-Primary	pulbere	p-u-l-b-ay-r-ay
Earth-Primary	tsarə	VlAlveolarSibilantAffricate-ah-r-aah
Cloud-Nubilus	nor	n-oh-r
Fog-Nebula	negura	n-ay-g-u-r-aah
Fog-Caecia	ʃeafə	ts-eaha-ts-aah
Sky-Primary	ʃer	ts-ay-er
Wind-Primary	vint	v-eee-n-t
Snow-Primary	neɹ	n-eaha
Ice-Primary	dʒer	VdPalatoAlveolarSibilant-ay-r
Ice-Glacies	geatsə	g-eaha-VlAlveolarSibilantAffricate-aah
Smoke-Primary	fum	f-u-m
Fire-Focus	fok	f-oh-k
Ash-Cinisia	ʃenuʃə	ts-ay-n-u-shh-aah
Mountain-Primary	munte	m-u-n-t-eh
Night-Primary	noapte	n-oaa-p-t-ay
Day-Primary	zi	zz-e
Year-Primary	an	ah-n
Name-Nomen	nume	n-u-m-ay
Tongue-Primary	limbə	l-e-m-b-aah
ToDrink-Primary	bea	b-eaha
ToEat-Manducare	minka	m-eee-n-k-ah
ToBite-Morsicare	murseka	m-u-r-s-ay-k-ah
ToSuck-Primary	sudʒe	s-u-VdPalatoAlveolarSibilant-ay
ToSpit-Exconspuere	skujpa	s-k-u-jg-p-ah
ToVomit-Primary	voame	v-oaa-m-ay
ToBlow-Primary	sufla	s-u-f-l-ah
ToLaugh-Primary	ride	er-eee-d-ay
ToSee-Primary	vedea	v-ay-d-eaha
ToHear-Primary	auzi	au-zz-e
ToKnow-Primary	ʃti	shh-t-e



## Appendix 5 - Word Lists by Language

ToKnow-Cognoscere	kunoʃte	k-u-n-oaa-shh-t-ay
ToThink-Primary	kudʒeta	k-u-VdPalatoAlveolarSibilant-ay-t-ah
ToThink-Pensare	pəsa	p-aah-s-ah
ToSmell-Sentire	simtsi	s-e-m-VlAlveolarSibilantAffricate-e
ToFear-Primary	teme	t-ay-m-ay
ToSleep-Primary	dormi	d-oh-r-m-e
ToLive-Primary	via	v-e-ah
ToDie-Primary	muri	m-u-r-e
ToKill-Primary	neka	n-ay-k-ah
ToKill-Occidere	uʃide	u-ts-e-d-ay
ToFight-Battuere	bate	b-ah-t-ay
ToHit-Primary	pulsa	p-u-l-s-ah
ToCut-Excurtare	skurta	s-k-u-r-t-ah
ToCut-Taliare	taja	t-aah-jg-ah
ToSplit-Primary	divide	d-e-v-e-d-ay
ToSplit-Separare	separa	s-ay-p-ah-r-ah
ToStab-Primary	pundʒe	p-u-n-VdPalatoAlveolarSibilant-ay
ToScratch-Primary	rade	r-ah-d-ay
ToSwim-Navigare	naviga	n-ah-v-e-g-ah
ToFly-Exvolare	zbura	zz-b-u-cr-ah
ToWalk-Mergere	merdʒe	m-ay-r-VdPalatoAlveolarSibilant-ay
ToCome-Primary	veni	v-ay-n-e
ToLieAsInABed-Primary	ekstinde	ay-k-s-t-e-n-d-ay
ToLieAsInABed-lacere	zəʃʃe	zz-aah-ts-eaha
ToSit-Primary	ʃede	shh-ay-d-eaha
ToStand-Primary	sta	s-t-ah
ToStand-Levare	lua	l-u-ah
ToTurnIntransitive-Primary	turna	t-u-r-n-ah
ToTurnIntransitive-Torquere	toarʃe	t-oaa-r-ts-ay
ToFall-Primary	kəde	k-aah-d-eaha
ToGive-Primary	da	d-ah
ToHold-Primary	tsine	VlAlveolarSibilantAffricate-e-n-ay
ToSqueeze-Primary	skreme	s-k-r-ay-m-ay
ToSqueeze-Stringere	strindʒe	s-t-r-eee-n-VdPalatoAlveolarSibilant-ay
ToRub-Primary	freka	f-r-ay-k-ah
ToWash-Primary	la	l-ah
ToWipe-Extergere	ʃterdʒe	shh-t-ay-r-VdPalatoAlveolarSibilant-ay
ToWipe-Exsucare	uska	u-s-k-ah
ToPull-Pulsare	pulsa	p-u-l-s-ah
ToPull-Trahere	tradʒe	t-r-ah-VdPalatoAlveolarSibilant-ay
ToPush-Primary	impindʒe	eee-m-p-e-n-VdPalatoAlveolarSibilant-ay
ToThrow-Eruncare	aruŋka	ah-er-u-nya-k-ah
ToTie-Primary	lega	l-ay-g-ah
ToSew-Primary	coase	t-ya-oaa-s-ay
ToCount-Numerare	numara	n-u-m-ah-r-ah
ToSay-Primary	ziʃe	zz-e-ts-ay
ToSay-Exponere	spune	s-p-u-n-ay
ToSing-Primary	kinta	k-eee-n-t-ah
ToPlay-Jiocare	zuka	gzah-u-k-ah
ToFloat-Primary	fluctua	f-l-u-t-ya-t-u-ah
ToFlow-Excurrere	skurdʒe	s-k-u-er-VdPalatoAlveolarSibilant-ay
ToFlow-Currere	kurdʒe	k-u-er-VdPalatoAlveolarSibilant-ay
ToFreeze-Inglaciare	ingetsa	eee-n-g-ay-VlAlveolarSibilantAffricate-ah
ToSwell-Primary	umfla	u-m-f-l-ah
ToSwell-Crescere	krefte	k-er-ay-shh-t-ay
ToBurn-Ardere	arde	ah-er-d-ay
ToBurn-Incendere	inʃindʒe	eee-n-ts-e-n-d-gzah-ay

## Appendix 5 - Word Lists by Language

ToBurn-Ustulare	ustura	u-s-t-u-r-ah
All-Totus	tot	t-oh-t
Many-Primary	mult	m-u-l-t
Other-Primary	alt	ah-l-t
Big-Majjorem	mare	m-ah-er-ay
Long-Longum	lung	l-u-n-g
Long-Largum	larg	l-ah-r-g
Wide-Primary	lat	l-ah-t
Thick-Primary	gras	g-r-ah-s
Thick-Grossus	gros	g-r-oh-s
Heavy-Primary	grew	g-er-ay-w
Small-Pittinus	putsin	p-u-VIAlveolarSibilantAffricate-e-n
Narrow-Primary	ingust	eee-nya-g-u-s-t
Narrow-Strictus	strimt	s-t-r-eee-m-t
Thin-Primary	mərunt	m-aah-r-u-n-t
Thin-Subtilis	subtsire	s-u-b-VIAlveolarSibilantAffricate-e-r-ay
Warm-Primary	kald	k-ah-l-d
Cold-Recens	reffe	r-ay-ts-ay
Full-Primary	plin	p-l-e-n
New-Primary	now	n-oh-w
Old-Primary	vekʲ	v-ay-kpalatal
Good-Primary	bun	b-u-n
Rotten-Primary	putred	p-u-t-r-ay-d
Dirty-Spurcus	spurk	s-p-u-r-k
Straight-Primary	drept	d-r-ay-p-t
Round-Primary	rətund	r-aah-t-u-n-d
Smooth-Nitidus	neted	n-ay-t-ay-d
Wet-Primary	umed	u-m-ay-d
Wet-Udus	ud	u-d
Dry-Primary	sek	s-ay-k
Near-AdPrope	aproape	ah-p-r-oaa-p-ay
Near-Vicinus	veʃʲin	v-ay-ts-e-n
Red-Primary	roʃu	er-oh-shh-u
Red-Rubeus	rojb	r-oj_diphthong-b
Green-Primary	verde	v-ay-er-d-ay
Yellow-Primary	galben	g-ah-l-b-ay-n
White-Primary	alb	ah-l-b
One-Primary	unu	u-n-u
Two-Duos	doj	d-oj_diphthong
Two-Duae	dowə	d-oh-w-aah
Three-Primary	trej	t-r-ayj
Four-Primary	patru	p-ah-t-r-u
Five-Primary	ʃʲinʃʲ	ts-e-n-ts
There-Primary	la	l-ah
Who-Quem	ʃʲine	ts-e-n-ay
What-Primary	ʃʲe	ts-ay
When-Quando	kind	k-eee-n-d
How-Quomodo	kum	k-u-m
Not-Primary	nu	n-u
At-Primary	a	ah
In-In	in	eee-n
With-Cum	ku	k-u
And-Et	e	ay
And-Si	ʃʲi	shh-e
Because-Quod	kə	k-aah

## Appendix 6 - Segment Groups

Where symbols appear in pairs, the one to the right represents a rounded vowel.

### Vowel

	Front	Near-Front	Central	Near-Back	Back
Close	i • y		ɨ		u
Near-close		ɪ		ʊ	
Close-mid	e • ø		ə		o
Mid					
Open-mid		œ • ε			ɔ
Near-open			ɐ		
Open		a			ɑ

### Long-Vowel

	Front	Near-Front	Central	Near-Back	Back
Close	iː				uː
Near-close					
Close-mid					
Mid	eː				oː
Open-mid		ɛː			ɔː
Near-open					
Open	øː		aː		

### Nasal-Vowel

	Front	Near-Front	Central	Near-Back	Back
Close	ĩ				ẽ
Near-close					ã
Close-mid					õ
Mid					
Open-mid		ẽ			õ
Near-open			ẽ		
Open					ũ

## Appendix 6 - Segment Groups

### Long-Nasal-Vowel

	Front	Near-Front	Central	Near-Back	Back
Close					
Near-close					
Close-mid					
Mid					
Open-mid					
Near-open					
Open					

### Vowel-Diphthong

	Front	Near-Front	Central	Near-Back	Back
Close			ɪj • iʷ		
Near-close					
Close-mid					oj
Mid	ej				
Open-mid		ɛj			ɔj
Near-open		aj	əj		
Open			aʊ		

### Nasal-Vowel-Diphthong

	Front	Near-Front	Central	Near-Back	Back
Close					
Near-close					
Close-mid					
Mid	ẽj				
Open-mid		œ̃			
Near-open			ẽj		
Open			ẽw̃		

### Vowel-Non-Sylabic

	Front	Near-Front	Central	Near-Back	Back
Close					
Near-close					

## Appendix 6 - Segment Groups

Close-mid					
Mid					
Open-mid					
Near-open					
Open					

## Vowel-Diphthong-Non-Sylabic

	Front	Near-Front	Central	Near-Back	Back
Close					
Near-close					
Close-mid	ea				oa
Mid					
Open-mid					
Near-open					
Open					

## Pulmonic Consonants

Manner	Bilabial	Labial-Velar	Labio-Dental	Dental	Alveolar	Post-Alveolar	Retroflex	Palatal	Velar	Uvular	Glottal
Nasal, Stop											
Nasal	m				n			ɲ	ŋ		
Stop	p b	k <sup>w</sup> g <sup>w</sup>			t d			c ɟ	k g		
Sibilant, Fricative					s z	ʃ ʒ					
Fricative	β		f v	θ ð				j	x ɣ	ʁ	h
Approximant							ɻ	j			
Tap/Flap					r						
Trill					r					R	
Lateral, Fricative											
Lateral, Approximant					l			ʎ			
Lateral, Tap/Flap											

Shaded areas denote articulations judged to be impossible. Where symbols appear in pairs, the one to the right represents a modally voiced consonant.

## Non-Pulmonic Consonants

Manner	Palatal
Stop	k <sup>j</sup>
Ejective, Stop	
Ejective, Fricative	
Ejective, Lateral, Fricative	
Tenuis, Click	

## Appendix 6 - Segment Groups

Nasal, Click	
Tenuis, Lateral, Click	
Implosive	
Lateral, Approximant	

Shaded areas denote articulations judged to be impossible. Where symbols appear in pairs, the one to the right represents a modally voiced consonant.

### Pulmonic Affricates

Manner	Alveolar	Palato-Alveolar
Sibilant	ts	tʃ
Lateral		
Voiced		
Non-Sibilant		

Shaded areas denote articulations judged to be impossible.

### Ejective Affricates

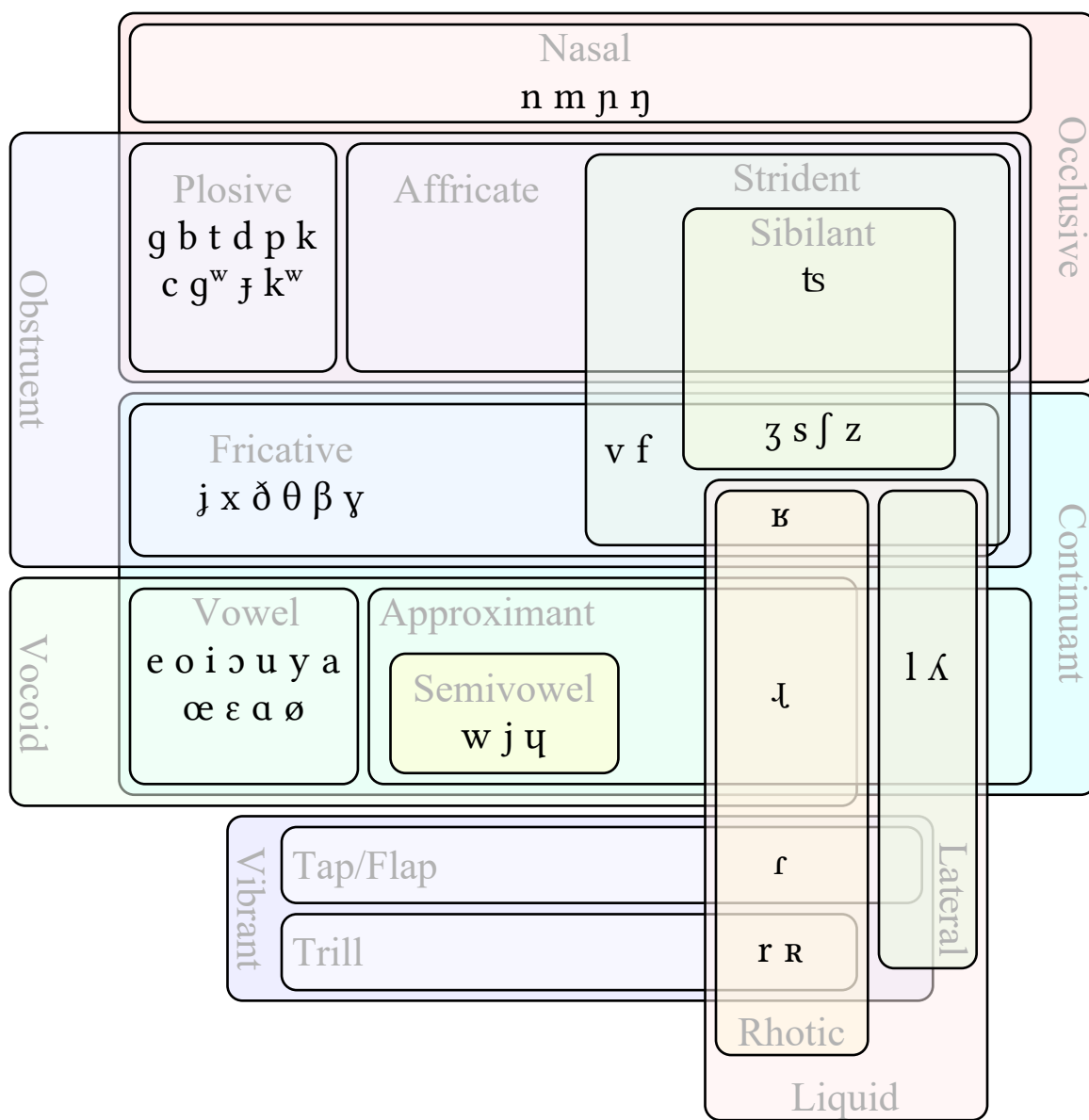
Manner
Central
Lateral

Shaded areas denote articulations judged to be impossible.

### Other Segments

W	Labial-Velar Vocoid Semivowel Voiced Approximant	ɖʒ	Palato-Alveolar Voiced Sibilant Affricate
	Continuant Labial Velar		
ɭ	Alveolar Voiced Velarized Pulmonic Lateral Approximant	ɥ	Labial-Palatal Vocoid Semivowel Voiced Approximant
			Continuant Palatalized Labial
ɖʒ	Alveolar Voiced Sibilant Affricate	ɰ̞	Palatal Nasal Approximant

## Appendix 7 - Euler Feature Diagram



## Appendix 8 - International Phonetic Alphabet

### IPA Segments

ẽj 0250, 0303, 006A, 0303 Near-open Central Nasal Vowel Diphthong	ẽw̃ 0250, 0303, 0077, 0303 Open Central Nasal Vowel Diphthong	au̯ 0061, 0075, 032F Open Central Vowel Diphthong	ẽa 0065, 032F, 0061 Close-mid Front Vowel Diphthong Non-Syllabic
ɔa 006F, 032F, 0061 Close-mid Back Vowel Diphthong Non-Syllabic	ẽj̃ 1EBD, 006A, 0303 Mid Front Nasal Vowel Diphthong	aj 0061, 006A Near-open Near-Front Vowel Diphthong	a: 0061, 02D0 Open Central Vowel Long Vowel Continuant
ej 0065, 006A Mid Front Vowel Diphthong	e: 0065, 02D0 Mid Front Vowel Long Vowel Continuant	i: 0069, 02D0 Close Front Vowel Long Vowel Continuant	ĩ 006A, 0303 Palatal Nasal Approximant
kʲ 006B, 02B2 Palatal Stop Palatalized	kʷ 006B, 02B7 Labial-Velar Pulmonic Stop Occlusive Labial Velar	oj 006F, 006A Close-mid Back Vowel Diphthong	o: 006F, 02D0 Mid Back Rounded Vowel Long Vowel Continuant
u: 0075, 02D0 Close Back Rounded Long Vowel	ø: 00F8, 02D0 Open Front Rounded Vowel Long Vowel	œ̃ 0153, 0303 Open-mid Near-Front Rounded Nasal Vowel Diphthong	ɛj 0250, 006A Near-open Central Vowel Diphthong
ẽ 0250, 0303 Near-open Central Rounded Nasal Vowel	ã 0251, 0303 Near-close Back Nasal Vowel	ɔj 0254, 006A Open-mid Back Vowel Diphthong	ɔ: 0254, 02D0 Open-mid Back Rounded Vowel Long Vowel Continuant
õ 0254, 0303 Open-mid Back Rounded Nasal Vowel	ɛj 025B, 006A Open-mid Near-Front Vowel Diphthong	ɛ: 025B, 02D0 Open-mid Near-Front Vowel Long Vowel Continuant	ẽ 025B, 0303 Open-mid Near-Front Nasal Vowel



## Appendix 8 - International Phonetic Alphabet

<b>g<sup>w</sup></b>	<b>ij</b>	<b>iw</b>	<b>a</b>
0261, 02B7 Labial-Velar Voiced Pulmonic Stop Occlusive Labial Velar	0268, 006A Close Central Vowel Diphthong	0268, 0077 Close Central Vowel Diphthong	0061 Open Near-Front Vocoid Vowel Continuant Parent Vowel
<b>b</b>	<b>c</b>	<b>d</b>	<b>e</b>
0062 Bilabial Voiced Pulmonic Stop Occlusive	0063 Palatal Pulmonic Stop Occlusive	0064 Alveolar Voiced Pulmonic Stop Occlusive	0065 Close-mid Front Vocoid Vowel Continuant Parent Vowel
<b>f</b>	<b>h</b>	<b>i</b>	<b>j</b>
0066 Labio-Dental Pulmonic Fricative Strident Obstruent Continuant Labial Dental	0068 Glottal Pulmonic Fricative	0069 Close Front Vocoid Vowel Continuant Parent Vowel	006A Palatal Vocoid Semivowel Voiced Pulmonic Approximant Continuant
<b>k</b>	<b>l</b>	<b>m</b>	<b>n</b>
006B Velar Pulmonic Stop Occlusive	006C Alveolar Vocoid Voiced Pulmonic Lateral Approximant Rhotic Liquid	006D Bilabial Voiced Pulmonic Nasal Occlusive	006E Alveolar Voiced Pulmonic Nasal Occlusive
<b>o</b>	<b>p</b>	<b>r</b>	<b>s</b>
006F Close-mid Back Rounded Vocoid Vowel Continuant Parent Vowel	0070 Bilabial Pulmonic Stop Occlusive	0072 Alveolar Voiced Pulmonic Trill Rhotic Vibrant Liquid	0073 Alveolar Pulmonic Sibilant Fricative Strident Obstruent Continuant
<b>t</b>	<b>u</b>	<b>v</b>	<b>w</b>
0074 Alveolar Pulmonic Stop Occlusive	0075 Close Back Rounded Vocoid Vowel Continuant Parent Vowel	0076 Labio-Dental Voiced Pulmonic Fricative Strident Obstruent Continuant Labial Dental	0077 Labial-Velar Vocoid Semivowel Voiced Approximant Continuant Labial Velar
<b>x</b>	<b>y</b>	<b>z</b>	<b>ð</b>
0078 Velar Pulmonic Fricative Obstruent Continuant	0079 Close Front Rounded Vocoid Vowel Continuant Parent Vowel	007A Alveolar Voiced Pulmonic Sibilant Fricative Strident Obstruent Continuant	00F0 Dental Voiced Pulmonic Fricative Obstruent Continuant Dental

## Appendix 8 - International Phonetic Alphabet

<p style="text-align: center;">õ</p> <p style="text-align: center;">00F5</p> <p style="text-align: center;">Close-mid Back Rounded Nasal Vowel</p>	<p style="text-align: center;">ø</p> <p style="text-align: center;">00F8</p> <p style="text-align: center;">Close-mid Front Rounded Vocoid Vowel Continuant Parent Vowel</p>	<p style="text-align: center;">ĩ</p> <p style="text-align: center;">0129</p> <p style="text-align: center;">Close Front Nasal Vowel</p>	<p style="text-align: center;">ŋ</p> <p style="text-align: center;">014B</p> <p style="text-align: center;">Velar Voiced Pulmonic Nasal Occlusive</p>
<p style="text-align: center;">œ</p> <p style="text-align: center;">0153</p> <p style="text-align: center;">Open-mid Near-Front Rounded Vocoid Vowel Continuant</p>	<p style="text-align: center;">ũ</p> <p style="text-align: center;">0169</p> <p style="text-align: center;">Open Back Nasal Vowel</p>	<p style="text-align: center;">ɐ</p> <p style="text-align: center;">0250</p> <p style="text-align: center;">Near-open Central Rounded Vowel Parent Vowel</p>	<p style="text-align: center;">ɑ</p> <p style="text-align: center;">0251</p> <p style="text-align: center;">Open Back Vocoid Vowel Continuant Parent Vowel</p>
<p style="text-align: center;">ɔ</p> <p style="text-align: center;">0254</p> <p style="text-align: center;">Open-mid Back Rounded Vocoid Vowel Continuant Parent Vowel</p>	<p style="text-align: center;">ə</p> <p style="text-align: center;">0259</p> <p style="text-align: center;">Close-mid Central Vowel Parent Vowel</p>	<p style="text-align: center;">ɛ</p> <p style="text-align: center;">025B</p> <p style="text-align: center;">Open-mid Near-Front Vocoid Vowel Continuant Parent Vowel</p>	<p style="text-align: center;">ɟ</p> <p style="text-align: center;">025F</p> <p style="text-align: center;">Palatal Voiced Pulmonic Stop Occlusive</p>
<p style="text-align: center;">g</p> <p style="text-align: center;">0261</p> <p style="text-align: center;">Velar Voiced Pulmonic Stop Occlusive</p>	<p style="text-align: center;">ɣ</p> <p style="text-align: center;">0263</p> <p style="text-align: center;">Velar Voiced Pulmonic Fricative Obstruent Continuant</p>	<p style="text-align: center;">ɸ</p> <p style="text-align: center;">0265</p> <p style="text-align: center;">Labial-Palatal Vocoid Semivowel Voiced Approximant Continuant Palatalized Labial</p>	<p style="text-align: center;">ɪ</p> <p style="text-align: center;">0268</p> <p style="text-align: center;">Close Central Vowel Parent Vowel</p>
<p style="text-align: center;">ɪ</p> <p style="text-align: center;">026A</p> <p style="text-align: center;">Near-close Near-Front Vowel Parent Vowel</p>	<p style="text-align: center;">ɭ</p> <p style="text-align: center;">026B</p> <p style="text-align: center;">Alveolar Voiced Velarized Pulmonic Lateral Approximant</p>	<p style="text-align: center;">ɲ</p> <p style="text-align: center;">0272</p> <p style="text-align: center;">Palatal Voiced Pulmonic Nasal Occlusive</p>	<p style="text-align: center;">ɻ</p> <p style="text-align: center;">027B</p> <p style="text-align: center;">Retroflex Vocoid Voiced Pulmonic Approximant Rhotic Liquid</p>
<p style="text-align: center;">ɾ</p> <p style="text-align: center;">027E</p> <p style="text-align: center;">Alveolar Voiced Pulmonic Tap/Flap Rhotic Vibrant Liquid</p>	<p style="text-align: center;">ʀ</p> <p style="text-align: center;">0280</p> <p style="text-align: center;">Uvular Pulmonic Trill Rhotic Vibrant Liquid</p>	<p style="text-align: center;">ʁ</p> <p style="text-align: center;">0281</p> <p style="text-align: center;">Uvular Voiced Pulmonic Fricative Rhotic Strident Obstruent Continuant Liquid</p>	<p style="text-align: center;">ʂ</p> <p style="text-align: center;">0283</p> <p style="text-align: center;">Post-Alveolar Pulmonic Sibilant Fricative Strident Obstruent Continuant</p>

## Appendix 8 - International Phonetic Alphabet

ʊ	ʎ	ɜ	j
028A	028E	0292	029D
Near-close Near-Back Rounded Vowel	Palatal Vowoid Voiced Pulmonic Lateral Approximant Rhotic Liquid	Post-Alveolar Voiced Pulmonic Sibilant Fricative Strident Obstruent Continuant	Palatal Voiced Pulmonic Fricative Obstruent Continuant
dz	dʒ	ts	tʃ
02A3	02A4	02A6	02A7
Alveolar Voiced Sibilant Affricate	Palato-Alveolar Voiced Sibilant Affricate	Alveolar Pulmonic Sibilant Affricate Occlusive Strident	Palato-Alveolar Pulmonic Sibilant Affricate
β	θ	ẽ	
03B2	03B8	1EBD	
Bilabial Voiced Pulmonic Fricative Obstruent Continuant	Dental Pulmonic Fricative Obstruent Continuant Dental	Close Back Nasal Vowel	

## Appendix 9 - Feature Tree

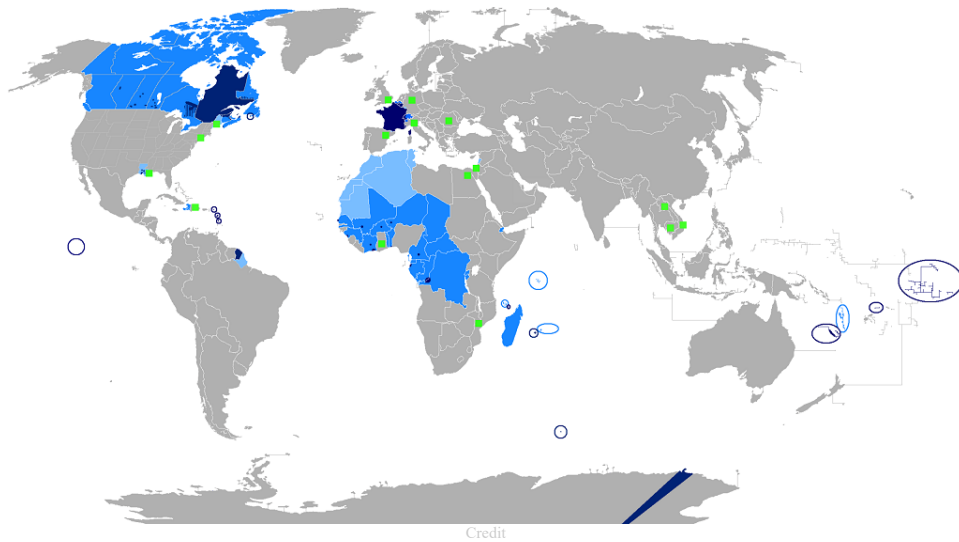
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## Diacritics

141



### French

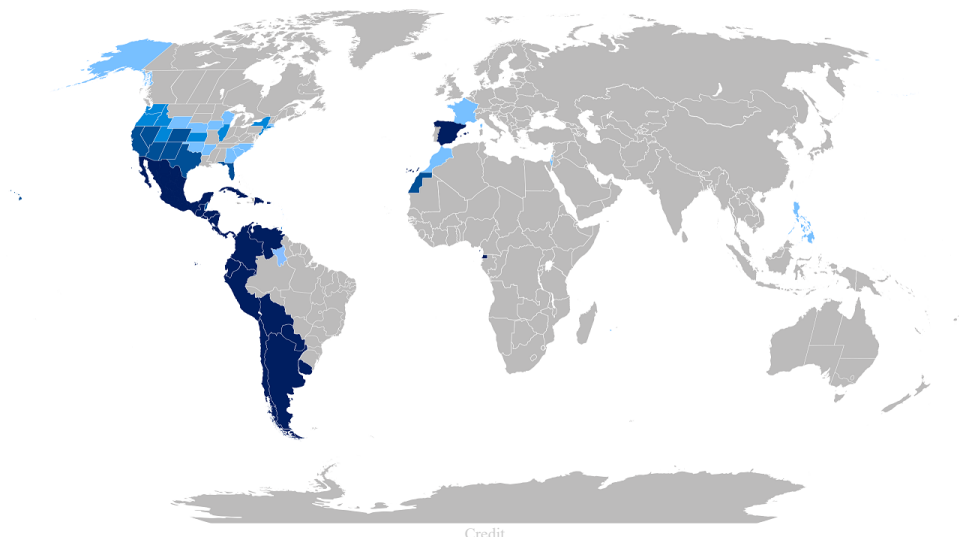


A Romance language of the Indo-European family. It descended from the Vulgar Latin of the Roman Empire, as did all Romance languages. French evolved from Gallo-Romance, the Latin spoken in Gaul, and more specifically in Northern Gaul. Its closest relatives are the other langues d'oïl—languages historically spoken in northern France and in southern Belgium, which French (Francien) largely supplanted.

French was also influenced by native Celtic languages of Northern Roman Gaul like Gallia Belgica and by the (Germanic) Frankish language of the post-Roman Frankish invaders. Today, owing to France's past overseas expansion, there are numerous French-based creole languages, most notably Haitian Creole. A French-speaking person or nation may be referred to as Francophone in both English and French.

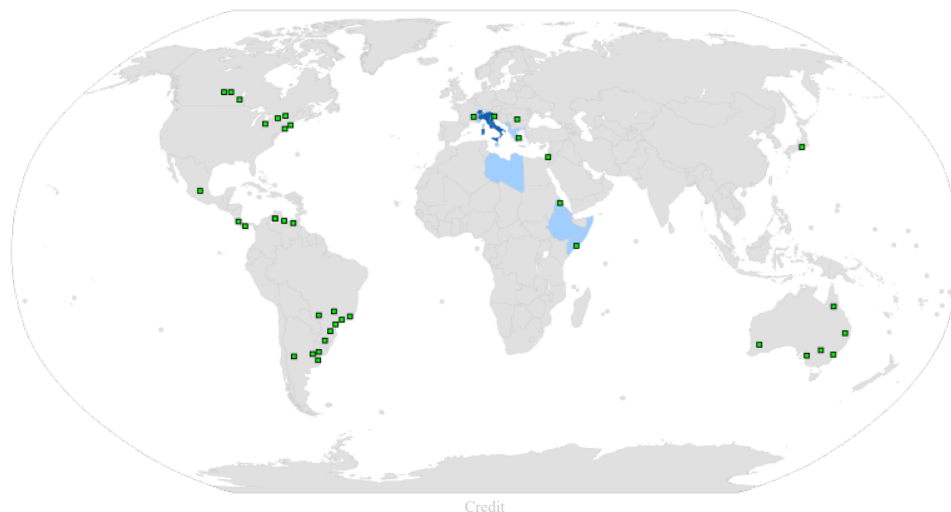
French is an official language in 29 countries across multiple continents, most of which are members of the Organisation internationale de la Francophonie (OIF), the community of 84 countries which share the official use or teaching of French. French is also one of six official languages used in the United Nations. It is spoken as a first language (in descending order of the number of speakers) in France; the Democratic Republic of Congo; Algeria; Morocco; Canada (provinces of Quebec, Ontario and New Brunswick as well as other Francophone regions); Cameroon; Belgium (Wallonia and the Brussels-Capital Region); Ivory Coast; Tunisia; western Switzerland (Romandy—all or part of the cantons of Bern, Fribourg, Geneva, Jura, Neuchâtel, Vaud, Valais); Monaco; parts of Luxembourg; parts of the United States (the states of Louisiana, Maine, New Hampshire and Vermont); northwestern Italy (autonomous region of Aosta Valley); and various communities elsewhere.

### Spanish



A Romance language that originated in the Iberian Peninsula of Europe. Today, it is a global language with nearly 500 million native speakers, mainly in Spain and the Americas. It is the world's second-most spoken native language after Mandarin Chinese, and the world's fourth-most spoken language overall after English, Mandarin Chinese, and Hindi.

### Italian



A Romance language of the Indo-European language family. Italian is the closest national language to Latin, from which it descends via vulgar Latin of the Roman Empire. Taking into account both national and regional languages, it is seen that Italian and Sardinian are together the least differentiated from Latin. Italian is an official language in Italy, Switzerland (Ticino and the Grisons), San Marino, and Vatican City. It has an official minority status in western Istria (Croatia and Slovenia).

It formerly had official status in Albania, Malta, Monaco, Montenegro (Kotor), Greece (Ionian Islands and Dodecanese), and is generally understood in Corsica by Corsican speakers (many linguists classify Corsican as an Italian dialect). It used to be an official language in the former colonial areas of Italian East Africa and Italian North Africa, where it still has a significant role in various sectors.

Italian is also spoken by large immigrant and expatriate communities in the Americas and Australia. Italian is included under the



## Appendix 11 - Languages

languages covered by the European Charter for Regional or Minority languages in Bosnia and Herzegovina and in Romania, although Italian is neither a co-official nor a protected language in these countries. Many speakers of Italian are native bilinguals of both Italian (either in its standard form or regional varieties) and another regional language of Italy.

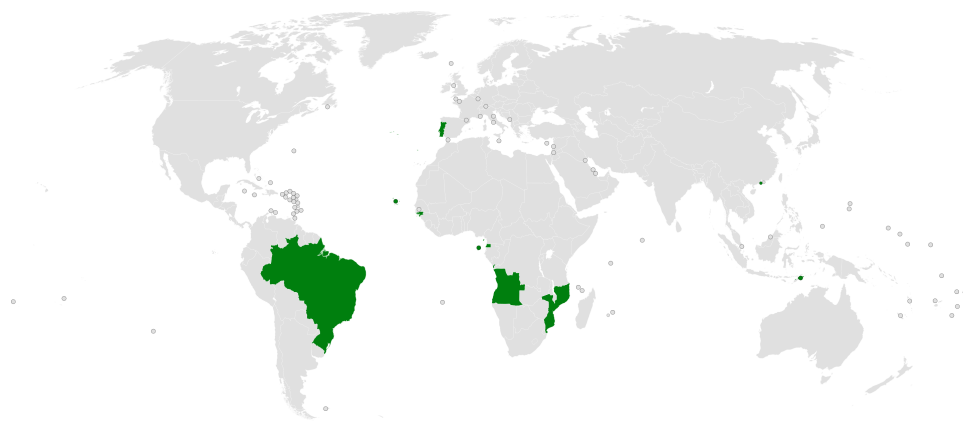
### Brazilian Portuguese



Credit

The set of dialects of the Portuguese language native to Brazil and the most influential form of Portuguese worldwide. It is spoken by almost all of the 200 million inhabitants of Brazil and spoken widely across the Brazilian diaspora, today consisting of about two million Brazilians who have emigrated to other countries. With a population of over 205 million, Brazil is by far the world's largest Portuguese-speaking nation and the only one in the Americas.

### Portuguese



Credit

A Romance language originating in the Iberian Peninsula of Europe. It is the sole official language of Portugal, Angola, Mozambique, Guinea-Bissau, Cape Verde, São Tomé and Príncipe, and Brazil, while having co-official language status in East Timor, Equatorial Guinea, and Macau. A Portuguese-speaking person or nation is referred to as "Lusophone" (lusófono). As the result of expansion during colonial times, a cultural presence of Portuguese and Portuguese creole speakers are also found around the world. Portuguese is part of the Ibero-Romance group that evolved from several dialects of Vulgar Latin in the medieval Kingdom of Galicia and the County of Portugal, and has kept some Celtic phonology and its lexicon.

### Catalan



Credit

Catalan (/ˈkætələn, -æn, ˌkætəˈlæn/; autonym: *català* or *llengua catalana*; Eastern Catalan: [kətəˈla]), known in the Valencian Community and Carche as Valencian, is a Western Romance language derived from Vulgar Latin. It is the official language of Andorra, and a co-official language of three autonomous communities in eastern Spain: Catalonia, the Valencian Community and the Balearic Islands. It also has semi-official status in the Italian comune of Alghero. It is also spoken in the Pyrénées-Orientales department of France and in two further areas in eastern Spain: the eastern strip of Aragon and the Carche area in the Region of Murcia. The Catalan-speaking territories are often called the *Països Catalans* or "Catalan Countries".

The language evolved from Vulgar Latin in the Middle Ages around the eastern Pyrenees. Nineteenth-century Spain saw a Catalan literary revival, culminating in the early 1900s.

### Walloon



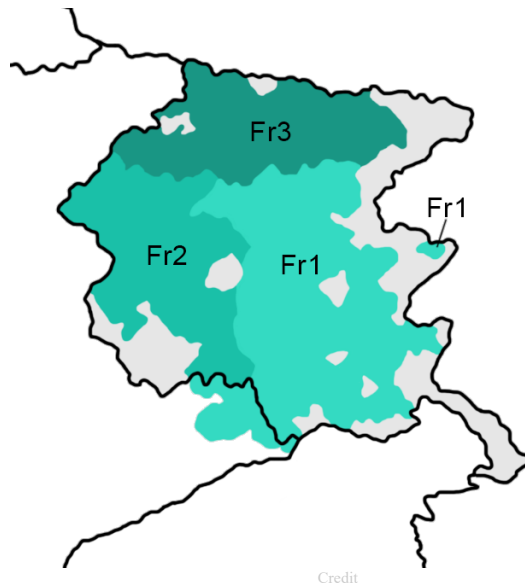
Credit

## Appendix 11 - Languages

A Romance language that is spoken in much of Wallonia and (to small extent) in Brussels, Belgium; some villages near Givet, northern France; a clutch of communities in northeastern Wisconsin, U.S.; and in some parts of Canada. It belongs to the langue d'oïl language family, the most prominent member of which is the French language. The historical background of its formation was the territorial extension since 980 of the Principality of Liège to the south and west.

Despite its rich literature, beginning anonymously in the 16th century and with well-known authors since 1756, the use of Walloon has decreased markedly since France's annexation of Wallonia in 1795. This period definitively established French as the language of social promotion, far more than it was before. After World War I, public schools provided French-speaking education to all children, inducing a denigration of Walloon, especially when accompanied by official orders in 1952 to punish its use in schools. Subsequently, since the middle of the 20th century, generational transmission of the language has decreased, resulting in Walloon almost becoming a dead language. Today it is scarcely spoken among younger people, with vast majority of its native speakers being the elderly (aged 65 and over). In 2007, the number of people with knowledge of the language was estimated at 600,000.

### Friulian



Friulian (/friˈuːliən/ free-OO-lee-ən) or Friulan (natively About this soundfurlan or marilenghe; Italian: friulano; German: Furlanisch; Slovene: furlanščina) is a Romance language belonging to the Rhaeto-Romance family, spoken in the Friuli region of northeastern Italy. Friulian has around 600,000 speakers, the vast majority of whom also speak Italian.

It is sometimes called Eastern Ladin since it shares the same roots as Ladin, but over the centuries, it has diverged under the influence of surrounding languages, including German, Italian, Venetian, and Slovene. Documents in Friulian are attested from the 11th century and poetry and literature date as far back as 1300. By the 20th century, there was a revival of interest in the language.

### Romanian



Romanian (obsolete spellings: Rumanian or Roumanian; autonym: *limba română* ['limba ro'minə] (About this soundlisten), or *românește*, lit. 'in Romanian') is a Balkan Romance language spoken by approximately 24–26 million people as a native language, primarily in Romania and Moldova, and by another 4 million people as a second language. According to another estimate, there are about 34 million people worldwide who can speak Romanian, of whom 30 million speak it as a native language. It is an official and national language of both Romania and Moldova and is one of the official languages of the European Union.

Romanian is a part of the Eastern Romance sub-branch of Romance languages, a linguistic group that evolved from several dialects of Vulgar Latin which separated from the Western Romance languages in the course of the period from the 5th to the 8th centuries. To distinguish it within the Eastern Romance languages, in comparative linguistics it is called Daco-Romanian as opposed to its closest relatives, Aromanian, Megleno-Romanian and Istro-Romanian. Romanian is also known as Moldovan in Moldova, although the Constitutional Court of Moldova ruled in 2013 that "the official language of the republic is Romanian".