

[illegible]

## 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	

r → h

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

ẽj → e:

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

r → ɭ

Ice.Primary			
ɕj	e	r	-
ʒ	ɛ	ɭ	-

l → o

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

w → ã

ToStab.Primary					
p	w	ẽ	-	d	- ɣ -
p	ã	-	d	-	- - -

w → oj

Road.Primary			
v	w	-	a
v	oj	-	-

w → ɔj

ToHear.Primary				
w	-	-	i	ɣ -
ɔj	-	i	-	- -

ẽj → ɛ

In.In	
ẽj	-
ɛ	n

w → ʒ

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

j → o

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

## Appendix 2 - Prior Frequencies

$\tilde{o} \rightarrow w$

ToStab.Primary							
p	$\tilde{o}$	-	d	-	-	-	-
p	w	$\tilde{e}$	-	d	-	ʁ	-

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

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

$s \rightarrow r$

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

$s \rightarrow ʒ$

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

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

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

$\tilde{o} \rightarrow u:$

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

$w \rightarrow h$

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

$\tilde{o} \rightarrow i$

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

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

In.In	
$\tilde{e}j$	-
$\tilde{a}$	-

$\tilde{e}j \rightarrow i$

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

$ə \rightarrow \tilde{e}j$

In.In	
ə	n
$\tilde{e}j$	-

## Appendix 2 - Prior Frequencies

ə → ẽj

In.In	
ə	n
ẽj	-

m → ɲ

All.Primary				
o	m	n	i	s
o	ɲ	ɲ	i	-

ɲ → m

All.Primary				
o	ɲ	ɲ	i	-
o	m	n	i	s

ə → ε:

Fog.Tenebras									
t	-	ə	n	-	e	b	r	ə	s
t	-	ε:	n	-	e	b	r	e	-

ɲ → d

ToStab.Primary					
p	-	u	ɲ	-	i
p	ɔ̃	-	d	-	-

ə → u:

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

ẽj → ə

In.In	
ẽj	-
ə	n

r → s

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

œ̃ → ɔ̃

Some.Primary				
o	-	k	œ̃	-
a	l	k	ɔ̃	n

œ̃ → u:

One.Primary			
œ̃	-	-	-
u:	n	u	s

ẽj → i

In.In	
ẽj	-
i	n

## Appendix 2 - Prior Frequencies

ẽj̃ → ə

In.In	
ẽj̃	-
ə	n

ẽj̃ → ă

In.In	
ẽj̃	-
ă	-

ẽj̃ → ε

In.In	
ẽj̃	-
ε	n

ẽj̃ → e:

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

œ̃ → ȓ

One.Primary			
œ̃	-	-	-
ȓ	-	-	-

m → e

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

t → i

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

t → y

Lake.Primary				
l	a:	t	-	-
l	a	y	u	-

ø: → ej

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

ø: → vj

Narrow.Strictus									
-	s	t	r	-	ø:	-	-	-	-
i	ʃ	t	r	-	vj	-	-	t	u

ø: → i

Narrow.Strictus									
-	s	t	r	-	ø:	-	-	-	-
-	s	t	r	-	i	m	-	t	-

## Appendix 2 - Prior Frequencies

d → ɲ

ToStab.Primary							
p	ɖ	-	d	-	-	-	-
p	-	u	ɲ	-	i	-	-

ø: → o:

Two.Duos			
d	-	ø:	s
d	u	o:	s

ø: → a

Narrow.Strictus							
-	s	t	r	-	ø:	-	-
e	-	t	ɸ	w	a	-	-

ø: → i

Narrow.Strictus							
-	s	t	r	-	ø:	-	-
-	s	t	r	-	i	-	k

ã → e:

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

d → θ

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

ø → ɕa

ToDrink.Primary					
b	-	ø	-	-	ɸ
b	-	ɕa	-	-	-

d → k<sup>w</sup>

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

ø → œ

Fire.Focus			
f	-	ø	-
f	-	œ	-

ø → y

Moon.Primary			
l	ø	n	-
l	y	n	-

ø → i

ToDrink.Primary					
b	-	ø	-	-	ɸ
b	-	i	β	e	r

## Appendix 2 - Prior Frequencies

$\emptyset \rightarrow \emptyset$ :

Two.Duos				
d	-	$\emptyset$	-	
d	-	$\emptyset$ :	s	

$\emptyset \rightarrow i$ :

Cold.Primary							
f	$\mathbb{R}$	-	$\emptyset$	-	-	-	-
f	r	-	i:	g	i	d	u s

$d \rightarrow x$

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

$t \rightarrow z$

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

$p \rightarrow c$

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

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

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

$t \rightarrow x$

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

$t \rightarrow k^j$

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

$r \rightarrow l$

Sun.Primary				
s	qa	r	e	-
s	o	l	-	-

$r \rightarrow \mathfrak{L}$

ToScratch.Coctiare				
k	u	s	a	r
k	o	s	a	$\mathfrak{L}$

$\tilde{e} \rightarrow a$ :

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



## Appendix 2 - Prior Frequencies

õ → i

Round.Primary							
κ	õ	-	-	-	-	-	-
κ	i	d	õ	-	d	u	-

õ → a

Round.Primary							
κ	õ	-	-	-	-	-	-
t	a	r	ɔ	n	t	-	-

ã → u:

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

õ → i

Round.Primary							
κ	õ	-	-	-	-	-	-
r	i	t	o	n	d	o	-

ẽ → ej

Breast.Primary				
s	ẽ	-	-	-
s	ej	-	u	-

k → n

Knee.Genuculum										
ɖʒ	-	i	n	ɔ	k	k	-	j	o	-
ɖʒ	-	e	n	u	n	kʲ	-	-	-	-

ẽ → a:

Hand.Primary				
m	ẽ	-	-	-
m	a:	n	o	-

ẽ → i:

Five.Primary					
s	ẽ	-	k	-	-
k <sup>w</sup>	i:	n	k <sup>w</sup>	-	e

k → g<sup>w</sup>

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

ã → ẽj

In.In	
ã	-
ẽj	-

ã → ẽj

In.In	
ã	-
ẽj	-

## Appendix 2 - Prior Frequencies

$\tilde{e} \rightarrow ej$

**Breast.Primary**

s	$\tilde{e}$	-	-	-
s	ej	-	u	-

$g \rightarrow x$

**ToTurnIntransitive.Gyrare**

g	y	r	a:	r	e
x	i	r	a	r	-

$n \rightarrow b$

**Name.Nominem**

n	o:	m	i	n	-	e	m
n	o	m	-	b	r	e	-

$\mathfrak{a} \rightarrow \mathfrak{c}j$

**ToRub.Primary**

f	r	$\mathfrak{a}$	g	a	-	-
f	r	$\mathfrak{c}j$	i	-	-	-

$ej \rightarrow \alpha$

**Three.Primary**

t	r	-	ej	-
t	ʁ	w	$\alpha$	-

$ej \rightarrow i$

**Narrow.Strictus**

i	s	t	r	-	ej	-	-	t	u	-
-	s	t	r	-	i	m	-	t	-	-

$ej \rightarrow \tilde{e}$

**Breast.Primary**

s	ej	-	u	-
s	$\tilde{e}$	-	-	-

$ej \rightarrow \emptyset:$

**Narrow.Strictus**

i	s	t	r	-	ej	-	-	t	u	-
-	s	t	r	-	$\emptyset:$	-	-	-	-	-

$\mathfrak{c}j \rightarrow \mathfrak{a}$

**ToRub.Primary**

f	r	$\mathfrak{c}j$	i	-	-	-
f	r	$\mathfrak{a}$	g	a	-	-

$ej \rightarrow a:$

**ToSmell.Fragrare**

f	-	ej	-	r	a	ʁ	-
f	r	a:	g	r	a:	r	e

$\mathfrak{c}j \rightarrow qa$

**Leaf.Primary**

f	-	$\mathfrak{c}j$	-	-	-
f	-	qa	-	j	e

## Appendix 2 - Prior Frequencies

ej → εj

Ear.Primary						
o	ʁ	ej	-	-	-	-
ɔ	R	εj	-	-	-	-

ɔj → œ

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

dz → x

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

ɐj → ě

Breast.Primary				
s	ɐj	-	u	-
s	ě	-	-	-

ɐj → ø:

Narrow.Strictus									
i	ɲ	t	r	-	ɐj	-	-	t	u -
-	s	t	r	-	ø:	-	-	-	- -

ɔj → εj

ToRub.Primary						
f	r	ɔj	i	-	-	-
f	ʁ	εj	e	-	-	-

ɐj → a:

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

ɔj → w

ToHear.Primary				
ɔj	-	i	-	-
w	-	i	ʁ	-

ɑ → ɛa

ToDrink.Primary						
b	w	ɑ	-	-	ʁ	-
b	-	ɛa	-	-	-	-

ɐj → i

Narrow.Strictus									
i	ɲ	t	r	-	ɐj	-	-	t	u -
-	s	t	r	-	i	m	-	t	- -

au → o:

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

## Appendix 2 - Prior Frequencies

---

ɛa → aj

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

ɛa → a

ToDrink.Primary					
b	-	ɛa	-	-	-
b	w	a	-	ɪ	-

œ → ɔj

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

œ → ɛa

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

aj → ɐ

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

œ → a

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

aj → i

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

œ → ø

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

aj → ɛa

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

ɛa → œ

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

oj → a

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

## Appendix 2 - Prior Frequencies

qa → ũ

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

qa → ɔj

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

oj → w

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

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	-	n	i	s	- e r -

ea → ø

ToDrink.Primary						
b	-	ea	-	-	-	-
b	-	ø	-	-	ʁ	-

ea → i

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

æ → i:

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

n → k

Knee.Genuculum						
ɖʒ	-	e	n	u	n kʲ	- - -
ɖʒ	-	i	n	ɔ	k k	- j o -

ɑ → œ

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

ɑ → i

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

## Appendix 2 - Prior Frequencies

ej → ej

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

ej → ɔj

ToRub.Primary						
f	ʁ	ej	e	-	-	-
f	r	ɔj	i	-	-	-

ɪ → ʒ

ToBurn.Incendere									
ĩ	-	s	e	n	dʒ	ɪ	a	r	-
i	n	ʃ	i	n	d	ʒ	e	-	-

i → ɔ̃

Round.Primary						
ʁ	i	d	ɔ̃	-	d	u
ʁ	ɔ̃	-	-	-	-	-

i → ø:

Narrow.Strictus									
-	s	t	r	-	i	m	-	t	-
-	s	t	r	-	ø:	-	-	-	-

i → ø

ToDrink.Primary						
b	-	i	β	e	r	-
b	-	ø	-	-	ʁ	-

i → ɔ

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

i → ẽj

In.In	
i	n
ẽj	-

i → o:

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

i → a:

Hand.Primary				
m	i	n	ə	-
m	a:	n	o	-

e → aj

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

## Appendix 2 - Prior Frequencies

---

iw → i

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

ɐ → ɔ

ToSwim.Navigare						
n	ɐ	v	i	y	a	r
n	ɔ	-	-	j	i	-

iw → a:

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

iw → ε

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

ə → εj

ToRub.Primary						
f	r	ə	g	a	-	-
f	ɤ	εj	e	-	-	-

i → u

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

α → ej

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

i → ěj

In.In						
i	n	-	-	-	-	-
ěj	-	-	-	-	-	-

i → α

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

α → o

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

α → i:

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

## Appendix 2 - Prior Frequencies

y → ɥ

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

ɛj → a

ToSee.Primary						
v	-	ɛj	-	-	-	-
v	w	a	-	-	ʁ	-

ɛj → o

ToSee.Primary						
v	-	ɛj	-	-	-	-
v	j	o	d	i	-	-

y → ɔa

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

y → i

River.Rivus				
ʁ	y	-	-	-
r	i	-	w	-

i → y

River.Rivus				
r	i	-	w	-
ʁ	y	-	-	-

y → ø

Moon.Primary				
l	y	n	-	-
l	ø	n	-	-

ɛj → ə

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

y → i:

River.Rivus				
ʁ	y	-	-	-
r	i:	w	u	s

i → ɛa

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

i → aj

Snow.Primary				
n	-	ɛ	v	i
n	-	i	v	aj



## Appendix 2 - Prior Frequencies

i → ɔa

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

i → ej

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

i → ɐj

Narrow.Strictus									
-	s	t	r	-	i	m	-	t	-
i	f	t	r	-	ɐj	-	-	t	u

ej → ɔ

Sun.Soliculus									
s	ɔ	l	ej	-	-	-	-	-	-
s	ɔ	l	ɔ	-	-	-	-	-	-

ɛ: → ə

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

ø: → ø

Two.Duos				
d	-	ø:	s	
d	-	ø	-	

ɛ: → i:

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

a: → ě

Hand.Primary				
m	a:	n	o	-
m	ě	-	-	-

x → t

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

x → d

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

a: → e:

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

## Appendix 2 - Prior Frequencies

$x \rightarrow g$

**ToTurnIntransitive.Gyrare**

x	i	r	a	r	-
g	y	r	a:	r	e

$a \rightarrow \varepsilon j$

**ToSee.Primary**

v	w	a	-	-	ʁ	-
v	-	ɛj	-	-	-	-

$a \rightarrow oj$

**Skin.Primary**

k	w	a	-	-	-	n	-
k	-	oj	i	-	n	-	-

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

**Hand.Primary**

m	a:	n	o	-
m	$\tilde{\varepsilon}$	-	-	-

$x \rightarrow dz$

**Day.Diurnata**

x	-	o	r	n	a	d	a
dz	-	o	r	n	a	d	e

$a \rightarrow \tilde{o}$

**Round.Primary**

t	a	r	ɔ	n	t	-	-
ʁ	$\tilde{o}$	-	-	-	-	-	-

$a \rightarrow \emptyset:$

**Narrow.Strictus**

e	-	t	ʁ	w	a	-	-	-	-
-	s	t	r	-	$\emptyset:$	-	-	-	-

$h \rightarrow r$

**ToPull.Trahere**

t	r	a	h	e	r	e
t	r	a	r	-	r	e

$h \rightarrow w$

**ToPull.Trahere**

t	r	a	h	e	r	e
t	r	ɛ	w	-	r	ə

$i: \rightarrow x$

**ToPull.Pulsare**

p	u:	s	i:	-	-	-
p	u	-	x	a	r	-

$h \rightarrow dʒ$

**ToPull.Trahere**

t	r	a	h	e	r	e
t	r	a	dʒ	e	-	-

## Appendix 2 - Prior Frequencies

i: → aj

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

ts → ʃ

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

x → i:

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

c → p

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

a: → i

Hand.Primary				
m	a:	n	o	-
m	i	n	ə	-

u: → ʃ

One.Primary			
u:	n	u	s
ʃ	-	-	-

u: → ã

How.Quomodo				
ʃ	e	m	u:	t
k	ɔ	m	ã	-

ʌ → ɫ

Full.Primary				
-	ʌ	e	n	o
p	ɫ	ɛ	-	-

u: → ɛ

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

u: → o:

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

z → i

ToHear.Primary				
aʊ	-	z	i	-
ɔj	-	i	-	-

## Appendix 2 - Prior Frequencies

u: → e:

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

z → t

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

z → j

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

z → dz

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

u → i

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

g → j

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

ɣ → i

ToTie.Primary				
ʌ	i	ɣ	a	-
l	ɔj	i	-	-

ɣ → t

Lake.Primary			
l	a	ɣ	u
l	a:	t	-

a: → iw

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

a: → ej

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

a: → ej

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

## Appendix 2 - Prior Frequencies

i: → œ

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

i: → a

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

i: → y

River.Rivus				
r	i:	w	u	s
ʁ	y	-	-	-

ɫ → r

Ice.Primary			
ʒ	ɛ	ɫ	-
ʒ	e	r	-

ʃ → ʃ

ToDig.Cavare				
ʃ	a	v	a:	-
ʃ	ə	v	e	-

ʃ → ʃ̃

ToDig.Cavare				
ʃ	a	v	a:	-
ʃ̃	a	v	e	-

e: → ē̃

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

e: → ē̃

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

e: → ã

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

e: → ɛ:

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

e: → u:

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

## Appendix 2 - Prior Frequencies

$k^l \rightarrow t$

Old.Primary									
v	-	e	$k^l$	-	-	-	-	-	-
w	-	e	t	u	l	u	s	-	-

$e: \rightarrow a:$

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

$e: \rightarrow i:$

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

$g^w \rightarrow k$

Blood.Primary									
s	a	n	$g^w$	-	i	n	e	m	-
s	a	ŋ	k	-	-	-	-	-	-

$g^w \rightarrow b$

Tongue.Primary									
l	i	n	$g^w$	-	a	-	-	-	-
l	i	m	b	-	ə	-	-	-	-

$g^w \rightarrow dʒ$

Blood.Primary									
s	a	n	$g^w$	-	i	n	e	m	-
s	i	n	dʒ	-	e	-	-	-	-

$e \rightarrow m$

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

$dz \rightarrow dʒ$

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

$dz \rightarrow ʒ$

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

$dz \rightarrow z$

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

$ɥ \rightarrow ɔa$

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

## Appendix 2 - Prior Frequencies

u: → œ̃

One.Primary				
u:	n	u	s	
œ̃	-	-	-	

ʊ → y

Fruit.Primary						
f	ɾ	ʊ	i	-	-	-
f	r	y	-	t	-	-

i → ø:

Narrow.Strictus									
-	s	t	r	-	i	-	k	t	u s
-	s	t	r	-	ø:	-	-	-	-

i: → ě

Five.Primary				
k <sup>w</sup>	i:	n	k <sup>w</sup>	e
s	ě	-	k	-

i: → ø

Cold.Primary									
f	r	-	i:	g	i	d	u	s	
f	ɾ	-	ø	-	-	-	-	-	

i: → ε:

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

i: → e:

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

i → y

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

i → z

ToHear.Primary					
ɔj	-	i	-	-	-
aʊ	-	z	i	-	-

i → dʒ

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

ɫ → r

Sun.Primary				
s	ɔ	ɫ	-	-
s	ɔa	r	e	-

## Appendix 2 - Prior Frequencies

ɫ → ʌ

Full.Primary						
p	ɫ	ɛ	-	-	-	-
-	ʌ	e	n	o	-	-

j → g

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

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	-	-

j → z

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

k<sup>w</sup> → d

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

ɥ → u:

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

i → ɔ̃

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

i → ȯ

Round.Primary						
r	i	t	o	n	d	o
ɸ	ȯ	-	-	-	-	-

ɥ → ɛ

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

u: → ə

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



## Appendix 2 - Prior Frequencies

$\theta \rightarrow d$

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

$aj \rightarrow i:$

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

$o \rightarrow \varepsilon j$

ToSee.Primary						
v	j	o	d	i	-	-
v	-	$\varepsilon j$	-	-	-	-

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

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

$b \rightarrow g^w$

Tongue.Primary					
l	i	m	b	-	ə
l	i	n	$g^w$	-	a

$o \rightarrow l$

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

$\mathfrak{c} \rightarrow i$

ToKnow.Cognoscere							
k	i	-	n	$\mathfrak{c}$	h	-	-
k	u	-	ɲ	i	s	-	e

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

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

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

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

$o \rightarrow j$

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

$\mathfrak{d}_3 \rightarrow h$

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

## Appendix 2 - Prior Frequencies

f → dʒ

Hair.Capillus							
f	ə	v	ø	-	-	-	-
dʒ	i	v	ε	-	-	-	-

dʒ → tʃ

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

f → ts

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

b → n

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

o: → u:

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

dʒ → f

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

o: → ø:

Two.Duos			
d	u	o:	s
d	-	ø:	s

o: → i

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

o: → aʊ

Few.Primary				
p	o:	k	-	-
p	aʊ	k	u	s

ε → u:

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

dʒ → i

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

## Appendix 2 - Prior Frequencies

ʃ → ʒ

ToDig.Cavare					
ʃ	a	v	e	-	-
ʒ	a	v	a:	-	-

ʃ → ʒ

Red.Rubeus					
r	ɔ	-	ʃ	-	-
ʀ	u	-	ʒ	-	-

ɔ → εj

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

ɔ → œ

Some.Primary					
a	l	k	ɔ	n	-
o	-	k	œ	-	-

ʃ → dʒ

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

ɔ → ɐ

ToSwim.Navigare					
n	ɔ	-	-	j	i
n	ɐ	v	i	ɣ	a

dʒ → ʃ

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

dʒ → dz

Day.Diurnata					
dʒ	-	o	r	n	a
dz	-	o	r	n	a

ʃ → ʒ

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

f → ʒ

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

o → ɑ

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

## Appendix 2 - Prior Frequencies

ʒ → f

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

ʒ → s

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

ʒ → ʃ

Red.Rubeus						
ʁ	u	-	ʒ	-	-	-
r	ɔ	-	ʃ	-	-	-

u: → ʉ

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

ɛ: → e:

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

ʒ → dz

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

ʒ → w

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

ʒ → ɹ

ToBurn.Incendere						
i	n	ʃ	i	n	d	ʒ
ī	-	s	e	n	dʒ	ɹ

ɛ → iw

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

f → dʒ

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

ɛ → ʉ

Rain.Primary						
p	l	ɛ	-	f	-	-
p	l	ʉ	-	-	i	-

## Appendix 2 - Prior Frequencies

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

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 -

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

v → z

ToHear.Primary	ToHear.Primary
o w v i ɤ -	o w v i r -
au - z i - -	au - z i - -

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

dz → s

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

aj → ɑ

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

j → ʃ

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

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

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

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

## Appendix 2 - Prior Frequencies

ɔj → au

ToHear.Primary	ToHear.Primary
ɔj - i - - -	ɔj - i - - -
au - d i: r e	au - z i - - -

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

ɔj → oj

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

kʲ → j

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

b → t

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

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 ŋ ʃ - - a: - -	m a ŋ ʃ - - 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

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 -

ɔj → ɔ

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

ʀ → dʒ

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

ʃ → j

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

## Appendix 2 - Prior Frequencies

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 - -

v → i

ToHear.Primary	ToHear.Primary
o w v i ʁ - -	o w v i r - -
ɔj - i - - -	ɔj - i - - -

d → ʈ

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

ɥ → o

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

oj → ɔa

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

b → u

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

oj → y

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

aj → ə

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

oj → ɔj

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

ʃ → i:

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

k → h

Bird.Avicellum	Near.Vicinus
- a w i - k - e l l u m	w - i: k i: n u s
- - u - - h - ε - - -	v - ε h ẽ - - -

## Appendix 2 - Prior Frequencies

au → ɔj

ToHear.Primary						ToHear.Primary					
au	-	d	i:	r	e	au	-	z	i	-	-
ɔj	-	i	-	-	-	ɔj	-	i	-	-	-

y → p

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

j → kʲ

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

n → l

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

θ → kʷ

ToTurnIntransitive.Torquere						Five.Primary					
t	o	r	θ	e	r	θ	i	n	k	-	o
t	o	r	kʷ	e:	r	e	kʷ	i:	n	kʷ	-

θ → h

ToKnow.Cognoscere						Near.Vicinus					
k	o	-	n	o	θ	b	-	e	θ	i	n
k	i	-	n	ɔ	h	v	-	ε	h	ẽ	-

j → ʈ

ToBurn.Flammare						Full.Primary					
f	j	a	m	m	a	p	j	ε:	n	o	-
f	ʈ	a	-	m	a	p	ʈ	ε	-	-	-

r → j

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

j → z

ToLieAsInABed.Iacere						ToLieAsInABed.Iacere					
j	a	-	k	e:	r	j	e	-	s	i	-
z	ə	-	ʈ	ɛa	-	z	ə	-	ʈ	ɛa	-

j → r

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

y → kʷ

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



## Appendix 2 - Prior Frequencies

z → v

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

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 - r ə

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 - r e

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 ɐ z e r -

j → i:

Meat.Vivenda	River.Riparia
v j - - ã - d -	ɤ i v j e ɤ - -
w i: w - e n d a	r i v i: - r - -

w → z

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

w → ɖʒ

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

w → aʊ

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

ʎ → t

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

ʎ → o

Eye.Primary	Eye.Primary
- o - - ʎ u -	- o - - ʎ u -
- o - x - o - -	- o - x - o - -

z → j

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

## Appendix 2 - Prior Frequencies

iw → ẽw̃

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

s → dz

Leaf.Frondea						Leaf.Frondea					
f	r	ō	-	s	-	f	r	ō	-	s	-
f	r	o	n	dz	-	f	r	o	n	dz	-

p → ɣ

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

au → w

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

p → u

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

ɫ → j

ToBurn.Flammare						Full.Primary					
f	ɫ	a	-	m	a	p	ɫ	ε	-	-	-
f	j	a	m	m	a	p	j	ε:	n	o	-

ej → ɐj

Ear.Primary						Red.Vermiculus					
ɔ	ɣ	ej	-	-	-	v	ε	ɣ	m	ej	-
o	r	ɐj	-	-	Λ	v	i	r	m	ɐj	-

w → y

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

h → θ

ToKnow.Cognoscere						Near.Vicinus					
k	i	-	n	ɔ	h	v	-	ε	h	ẽ	-
k	o	-	n	o	θ	b	-	e	θ	i	n

## Appendix 2 - Prior Frequencies

ɔ̃ → w

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

h → k

Bird.Avicellum						Near.Vicinus					
-	-	u	-	h	-	v	-	ε	h	ẽ	-
-	a	w	i	k	-	w	-	i:	k	i:	-
				e	l				n	u	s

k → u

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

k → i

ToRub.Primary					ToRub.Primary				
f	r	i	k	a:	f	r	e	k	a
f	r	ɔ̃	i	-	f	r	ɔ̃	i	-

k → e

ToRub.Primary					ToRub.Primary				
f	r	i	k	a:	f	r	e	k	a
f	ɸ	ɛ	j	e	f	ɸ	ɛ	j	e

ɔ̃ → c

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

ɔ̃ → ʀ

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

ɔ̃ → ʃ

Leg.Gamba					ToEat.Manducare				
ɔ̃	ã	-	p	-	m	a	n	ɔ̃	-
ʃ	a	m	b	e	m	a	ɲ	ʃ	-

t → ʎ

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

ij → ẽ

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

ij → ẽw̃

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

## 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 -

ʊ → o

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

t → u

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

ʈʂ → d

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

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

ɤj → ə

ToSmell.Fragrare	ToBurn.Cremare
ʃ - ɤj - r a r -	k - ɤj 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 -

ʃ̃ → i

Blood.Primary	Round.Primary
s ʃ̃ - g - - - -	r ʃ̃ - - - - -
s i n ɕ̥ - e - - -	ʁ i d ɔ̃ - d u -

ẽw̃ → i

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

o → ẽ

Far.Primary	Far.Primary
l - o n t a n o	l - o n t a n -
l w ẽ - t ẽ - -	l w ẽ - t ẽ - -

## 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	-	-

o → ø:

Two.Duos				Two.Duos			
d	-	o	s	d	-	o	s
d	-	ø:	s	d	-	ø:	s

ẽw̃ → u

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

ẽw̃ → o:

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

ẽw̃ → ε

Seed.Granum						Seed.Granum					
g	r	ẽ	-	-	-	g	r	ẽ	-	-	-
g	ɾ	w̃	-	-	-	g	ɾ	w̃	-	-	-
g	ɾ	ε	n	-	-	g	ɾ	ε	n	-	-

ẽw̃ → ě

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

u: → ũ

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

u: → ø

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

ẽw̃ → i

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

o → ʊ

Red.Primary					Red.Primary				
r	o	-	x	o	r	o	s	s	o
ɾ	o	-	ʊ	-	ɾ	o	-	ʊ	-

## Appendix 2 - Prior Frequencies

ẽw̃ → ij

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

ũ → u:

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

ũ → ɔ

Some.Primary					Some.Primary				
a	w	g	ũ	-	a	ɬ	g	ũ	-
a	l	k	ɔ	n	a	l	k	ɔ	n

u: → i

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

u → b

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

ø → ɔa

Tail.Primary				ToSew.Primary							
k	ø	-	-	k	ø	-	-	z	-	-	-
c	ɔa	d	ə	c	ɔa	-	-	s	-	e	-

u → k

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

u → t

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

ũ → ẽ

ToStab.Primary						ToStab.Primary					
p	-	ũ	-	ʒ	i	p	-	ũ	-	ʒ	i
p	w	ẽ	-	d	ɣ	p	w	ẽ	-	d	ɣ

ũ → ɔ̃

One.Primary				One.Primary			
ũ	-	-	-	ũ	-	-	-
ɔ̃	-	-	-	ɔ̃	-	-	-

## Appendix 2 - Prior Frequencies

u → ẽw̃

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

u → ĩ

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

u → e:

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

ẽw̃ → iw

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

o → ʌ

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

ĩ → ã

One.Primary				One.Primary			
ĩ	-	-	-	ĩ	-	-	-
ã	-	-	-	ã	-	-	-

o → ɥ

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

ø → a

ToDrink.Primary					Three.Primary				
b	-	ø	-	ɤ	t	r	-	ø	s
b	w	a	-	ɤ	t	ɤ	w	a	-

ø: → e

Narrow.Strictus										Narrow.Strictus									
-	s	t	r	-	ø:	-	-	-	-	-	s	t	r	-	ø:	-	-	-	-
e	s	t	r	-	e	-	-	-	-	-	e	s	t	r	-	e	-	t	t

ø: → o

Two.Duos				Two.Duos			
d	-	ø:	s	d	-	ø:	s
d	-	o	s	d	-	o	s

## Appendix 2 - Prior Frequencies

ø → u:

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

aj → a:

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

ø: → ε

Narrow.Strictus					Narrow.Strictus				
-	s	t	r	-	ø:	-	-	-	-
ə	s	t	r	-	ε	-	t	-	-

ã → o

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

ε: → ej

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

ε: → ẽ

Full.Primary					Full.Primary				
p	j	ε:	n	o	p	j	ε:	n	o
p	l	ẽ	-	-	p	l	ẽ	-	-

ẽ → e:

ToThink.Pensare					ToThink.Pensare				
p	ẽ	-	s	a	p	ẽ	-	s	a
p	e:	n	s	a:	p	e:	n	s	a:

ẽ → ẽw̃

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

õ → ə

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

ẽ → o

Far.Primary					Far.Primary				
l	w	ẽ	-	t	l	w	ẽ	-	t
l	-	o	n	t	l	-	o	n	t

ẽ → ε:

Full.Primary					Full.Primary				
p	l	ẽ	-	-	p	l	ẽ	-	-
p	j	ε:	n	o	p	j	ε:	n	o



## Appendix 2 - Prior Frequencies

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

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

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

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

$\tilde{e} \rightarrow ij$

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

$\varepsilon \rightarrow \emptyset$ :

Narrow.Strictus												Narrow.Strictus											
ə	s	t	r	-	$\varepsilon$	-	-	t	-	-	-	-	s	t	r	-	$\varepsilon$	-	-	t	-	-	-
-	s	t	r	-	$\emptyset$ :	-	-	-	-	-	-	-	-	s	t	r	-	$\emptyset$ :	-	-	-	-	-

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

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

$\varepsilon \rightarrow o$ :

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

$\tilde{i} \rightarrow u$

ToSwell.Primary						ToSwell.Primary					
$\tilde{i}$	-	f	-	a	r	$\tilde{i}$	-	f	-	a	r
u	m	f	l	a	-	u	m	f	l	a	-

$\mathfrak{c} \rightarrow \mathfrak{c}j$

Leaf.Primary					We.Primary				
f	-	$\mathfrak{c}$	ʌ	ʌ	a	n	$\mathfrak{c}$	-	f
f	-	$\mathfrak{c}j$	-	-	-	n	$\mathfrak{c}j$	-	s

$\mathfrak{c} \rightarrow \mathfrak{ə}$

Sand.Sabulum						ToSwim.Navigare					
s	a	v	a	l	$\mathfrak{c}$	n	n	$\mathfrak{c}$	-	j	i
s	o	-	-	r	$\mathfrak{ə}$	-	n	$\mathfrak{ə}$	b	$\mathfrak{ə}$	g

$\mathfrak{c} \rightarrow \tilde{u}$

Some.Primary						Some.Primary					
a	l	k	$\mathfrak{c}$	n	-	a	l	k	$\mathfrak{c}$	n	-
a	w	g	$\tilde{u}$	-	-	a	l	g	$\tilde{u}$	-	-

## Appendix 2 - Prior Frequencies

o: → ẽw̃

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

õ → ẽ

Blood.Primary					Blood.Primary				
s	õ	-	g	-	s	õ	-	g	-
s	ẽ	-	g	-	s	ẽ	-	g	-
			i	-				i	-

o: → ε

ToKnow.Cognoscere					ToKnow.Cognoscere				
k	o	g	n	o:	k	o	g	n	o:
k	ɔ	-	n	ε	k	u	-	n	ε
			t	-		f	-	ə	-

ə → ɔ

Sand.Sabulum					ToSwim.Navigare				
s	o	-	r	ə	n	ə	b	ə	g
s	a	v	a	ɔ	n	ɔ	-	j	i

ə → õ

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

ø → ej

Old.Primary					Straight.Primary				
v	j	ø	-	-	d	r	-	ø	-
v	-	ej	-	ʌ	d	i	r	-	ej
				u					t

e: → œ

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

i → ẽw̃

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

e: → ɐ

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

œ → e:

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

## Appendix 2 - Prior Frequencies

i → ɔa

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

i → ẽw̃

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

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	ɤ	-	f	l	w	i	r	-

ɑ → e:

Three.Primary						Three.Primary					
t	ɤ	w	ɑ	-	-	t	ɤ	w	ɑ	-	-
t	r	-	e:	s		t	r	-	e:	-	

ɑ → ø

ToDrink.Primary						Three.Primary					
b	w	ɑ	-	ɤ	-	t	ɤ	w	ɑ	-	-
b	-	ø	-	ɤ	-	t	r	-	ø	s	

i → u:

YouSingular.Primary						ToWipe.Exsucare					
t	i					e	-	s	ɥ	i	-
t	u:					e	k	s	-	u:	k

ɑ → aj

Sand.Sabulum						Sand.Sabulum					
s	ɑ	v	-	j	õ	s	ɑ	v	-	j	õ
s	aj	β	-	r	u	s	aj	β	-	r	u

ɔa → oj

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

a: → aj

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

ɔa → ø

Tail.Primary						ToSew.Primary					
c	ɔa	d	ə			c	ɔa	-	-	s	-
k	ø	-	-			k	ø	-	-	z	-

## Appendix 2 - Prior Frequencies

ɘj → ε:

Full.Primary					Full.Primary						
f	-	ɘj	-	u	-	f	-	ɘj	-	u	-
p	j	ɛ:	n	o	-	p	j	ɛ:	n	o	-

ɘj → ø

Old.Primary						Straight.Primary										
v	-	ej	-	-	Λ	u	-	d	i	r	-	ej	-	t	u	-
v	j	ø	-	-	-	-	-	d	-	r	-	ø	-	-	-	-

e: → u

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

ɘj → εj

Ear.Primary						Red.Vermiculus										
o	r	əj	-	-	ʌ	e	v	i	r	m	əj	-	-	ʌ	u	-
ɔ	R	ɛj	-	-	-	-	v	ɛ	ʁ	m	ɛj	-	-	-	-	-

e: → ě

ToThink.Pensare					ToThink.Pensare				
p	e:	n	s	a: r e	p	e:	n	s	a: r e
p	ě	-	s	a ʁ -	p	ě	-	s	a r -

e: → ɑ

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

ɔa → i

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

i → ʃ

Blood.Primary					Round.Primary				
s	i	n	dʒ	- e - - -	ʁ	i	d	õ	- d u -
s	ʃ	-	g	- - - - -	r	ʃ	-	-	- - - -

e → ʁ

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

i → aj

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

i → k

ToRub.Primary					ToRub.Primary				
f	r	ɔj	i	- - -	f	r	ɔj	i	- - -
f	r	i	k	a: r e	f	r	e	k	a - -

## Appendix 2 - Prior Frequencies

aj → i

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

ə → ej

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

e → ø:

Narrow.Strictus						Narrow.Strictus					
e	s	t	r	-	e	-	s	t	r	-	e
-	s	t	r	-	ø:	-	-	s	t	r	-

a → œ

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

e → qa

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

e → k

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

ə → aj

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

ɐ → e:

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

qa → e

Leaf.Primary						ToKnow.Cognoscere					
f	-	qa	-	j	e	k	u	-	ɲ	qa	ɟ
f	w	e	-	-	e	k	o	-	ɲ	e	s
										-	ɣ

a → i:

Cold.Primary						Near.Vicinus					
f	ɣ	w	a	-	-	v	w	a	z	ẽ	-
f	r	-	i:	g	i	w	-	i:	k	i:	n
										u	s

i → v

ToHear.Primary						ToHear.Primary					
ɔj	-	i	-	-	-	ɔj	-	i	-	-	-
o	w	v	i	ɣ	-	o	w	v	i	r	-

## Appendix 2 - Prior Frequencies

i: → a

Cold.Primary	Near.Vicinus
f r - i: g i d u s	w - i: k i: n u s
f ʁ w a - - - -	v w a z ẽ - - -

œ → a

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

i: → ʃ

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

i: → j

Meat.Vivenda	River.Riparia
w i: w - e n d a	r i v i: - r - -
v j - - ã - d -	ʁ i v j e ʁ - -

g → ɲ

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

ʁ → t

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

g → k<sup>w</sup>

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

ɛ: → i

Foot.Primary	Fog.Tenebras	Full.Primary
p j ɛ: - d e -	t - ɛ: n - e b r e -	p j ɛ: n o -
p - i - - - -	t - i n j e b l a s	p l i n - -

e → g

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

ɛ → y

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

ɛ → œ

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

## Appendix 2 - Prior Frequencies

$\varepsilon \rightarrow \varepsilon j$

Ear.Primary	ToSee.Primary	Red.Vermiculus
u r $\varepsilon$ - - $\Lambda$ $\partial$	b - $\varepsilon$ w - r $\partial$	b $\partial$ r m $\varepsilon$ - - $\Lambda$ - -
$\partial$ R $\varepsilon j$ - - - -	v - $\varepsilon j$ - - - -	v $\varepsilon$ $\mathfrak{B}$ m $\varepsilon j$ - - - -

$\varepsilon \rightarrow s$

Left.Primary	Left.Primary	Left.Primary
s $\partial$ n - $\varepsilon$ s t $\mathfrak{B}$ - -	s - - - $\varepsilon$ f t r u -	s - - - $\varepsilon$ f t r u -
s $\varepsilon$ n $\varepsilon$ s - - - -	s $\varepsilon$ n $\varepsilon$ s - - - -	s $\varepsilon$ n $\varepsilon$ s - - - -

$\emptyset \rightarrow o:$

ToSew.Primary	Few.Primary	Two.Duos
k $\emptyset$ - - z - - - -	p $\emptyset$ - - - -	d - $\emptyset$ -
k o: n - s u e r e	p o: k - -	d u o: s

$f \rightarrow p$

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 i - - - - -	k a p i - - - - -

$\emptyset \rightarrow a$

ToKnow.Sapere	Cold.Primary	Straight.Primary
s a v - $\emptyset$ R -	f R - $\emptyset$ - - - -	d - r - $\emptyset$ - - - -
s a v w a $\mathfrak{B}$ -	f $\mathfrak{B}$ w a - - - - -	d - $\mathfrak{B}$ w a - - - -

$e \rightarrow s$

Left.Primary	Left.Primary	Left.Primary
s i n j e s t r o -	s i n - e s t r o -	s i n - e s t r i -
s $\varepsilon$ n $\varepsilon$ s - - - -	s $\varepsilon$ n $\varepsilon$ s - - - -	s $\varepsilon$ n $\varepsilon$ s - - - -

$k^j \rightarrow x$

Eye.Primary	Knee.Genuculum	Old.Primary
- o - $k^j$ - - - -	$\mathfrak{d}j$ - e n u n $k^j$ - - - -	v - e $k^j$ - - - -
- o - x - o - - -	- - i n o - x o - - - -	b j e x o - - - -

$f \rightarrow \beta$

Head.Primary	Head.Primary	New.Primary
c a: f - - - - -	c a: f - - - - -	n - u: f - - -
k a $\beta$ e - $\theta$ - a	k $\mathfrak{e}$ $\beta$ e - s - $\mathfrak{e}$	n w e $\beta$ o -

$e \rightarrow r$

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

$g \rightarrow p$

Water.Primary	Water.Primary	Water.Primary
a - g w $\mathfrak{e}$	a - g w $\mathfrak{e}$	a - g - e
a - p - $\partial$	a - p - $\partial$	a - p - $\partial$

$e \rightarrow \tilde{o}$

Good.Primary	Round.Primary	Round.Primary
b w e n o -	r e d o n d o -	$\mathfrak{B}$ e d $\tilde{o}$ - d u -
b - $\tilde{o}$ - - -	r $\tilde{o}$ - - - - -	r $\tilde{o}$ - - - - -

## Appendix 2 - Prior Frequencies

g → e

ToRub.Primary	ToRub.Primary	ToRub.Primary
f r e <b>g</b> a r -	f r e <b>g</b> a r e	f r ə <b>g</b> a - -
f ʁ ɛj <b>e</b> - - -	f ʁ ɛj <b>e</b> - - -	f ʁ ɛj <b>e</b> - - -

a: → ẽ

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 ẽ m ɐ -	ĩ - t - r ẽ ɲ - ɐ	m õ - t ẽ - ɲ - ɐ

e: → i

Hair.Primary	ToSplit.Separare	ToSwell.Crescere
p - e: l - -	s e: p a r a: r e	k r - e: s k e: r e
p - i l u -	s i p ɐ r a r -	k r - i f s e r -

a: → ɔ

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

ɣ → dʒ

Liver.Primary	Liver.Primary	Long.Largum
- - i <b>ɣ</b> a ɔ̃ o -	f - i <b>ɣ</b> ɐ ɔ̃ u -	l a r <b>ɣ</b> o -
f - e <b>dʒ</b> ɔ̃ - - -	f - e <b>dʒ</b> ɔ̃ - - -	l a - <b>dʒ</b> - -

u → ã

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

u → ẽ

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

x → kʲ

Eye.Primary	Knee.Genuculum	Old.Primary
- o - <b>x</b> - o - -	- - i n o - <b>x</b> o - - -	b j e <b>x</b> o - - -
- o - <b>kʲ</b> - - - -	dʒ - e n u n <b>kʲ</b> - - - -	v - e <b>kʲ</b> - - - -

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 <b>ts</b> - - e -	a l <b>ts</b> a r e	r e <b>ts</b> - 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 <b>dʒ</b> i ʁ -	n ɛ <b>dʒ</b> u - - -	n ɛ <b>dʒ</b> u - - -

u → ʊ

Red.Primary	Red.Primary	Red.Primary
r u s s <b>u</b> s	ʁ o - ʃ u -	r o - ʃ u -
ʁ o - ʃ <b>ʊ</b> -	ʁ o - ʃ <b>ʊ</b> -	ʁ o - ʃ <b>ʊ</b> -



## Appendix 2 - Prior Frequencies

u → l

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

a → qa

Woman.Domina	Woman.Domina	BarkOfATree.Skortea
d a m - - - d qa m - n ə	d a m - - - d qa m - n ə	- s k w a r t s - e - s k - qa r t s - ə

ts → θ

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

a → ∅

ToKnow.Sapere	Cold.Primary	Straight.Primary
s a v w a ɸ - s a v - θ R -	f ɸ w a - - - - f R - θ - - - -	d - ɸ w a - - - - d - r - θ - - - -

i: → i

River.Rivus	ToLaugh.Primary	ToLaugh.Primary
r i: w u s r i - w -	r i: - d e: r e r i - d e - -	r i: - d e r e r i - d e - -

i → s

Head.Primary	YouPlural.Primary	Left.Primary
k a p i - t i a k a v e t t s a	v o: i - v ɔj s -	s i n - i s t r u m s ε ɲ ε s - - - -

e: → ẽ

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

ʌ → d

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

u: → œ

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

β → f

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

o → y

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

## Appendix 2 - Prior Frequencies

o → aj

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

i → ε:

Foot.Primary	Fog.Tenebras	Full.Primary
p - i - - -	t - i n j e b l a s	p l i n - -
p j ε: - d e -	t - ε: n - e b r e -	p j ε: n o -

ɔ̃ → ʏ

Liver.Primary	Liver.Primary	Long.Largum
f - e ɔ̃ ə - - -	f - e ɔ̃ ə - - -	l a - ɔ̃ - -
- - i ʏ a ð o -	f - i ʏ ɐ ð u -	l a r ʏ o -

ɔ̃ → ð

ToSplit.Primary	Smooth.Nitidus	Smooth.Nitidus
ɔ̃ i v i ɔ̃ i ʁ -	n ε ɔ̃ u - - -	n ε ɔ̃ u - - -
d i v i ð i r -	n i ð i - o -	n i ð i - o -

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 -	ʔ e m u: t -

o: → ø

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

ɔ̃ → ɲ

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

o: → w

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

ɔ̃ → a:

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

ʏ → w

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

ɔ̃ → y

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

## Appendix 2 - Prior Frequencies

$k^w \rightarrow g$

Water.Primary	Water.Primary	Water.Primary
a - $k^w$ - a	a - $k^w$ - a	a - $k^w$ - a
a - g w e	a - g w e	a - g - e

$aj \rightarrow o$

Water.Primary	Sand.Sabulum	Sand.Sabulum
aj - $\gamma$ w ə	s aj $\beta$ - r u -	s aj $\beta$ - r u -
o - - - -	s o - - r ə -	s o - - r ə -

$e \rightarrow o$ :

Egg.Primary	ToKnow.Cognoscere	How.Quomodo
w e b o -	k o - n e s - e $\mathfrak{x}$ -	$\mathfrak{t}$ e m u: t -
- o: w u m	k o g n o: s k e r e	$k^w$ o: m o d o

$\epsilon j \rightarrow \epsilon$

Ear.Primary	ToSee.Primary	Red.Vermiculus
$\mathfrak{c}$ R $\epsilon j$ - - -	v - $\epsilon j$ - - -	v $\epsilon$ $\mathfrak{x}$ m $\epsilon j$ - - -
u r $\epsilon$ - - - $\lambda$ ə	b - $\epsilon$ w - r ə	b ə r m $\epsilon$ - - - $\lambda$ - -

$i \rightarrow e$ :

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

$t \rightarrow r$

ToSqueeze.Appectore	ToSqueeze.Appectore	ToSqueeze.Appectore
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 -	e - p i - r - t a r -	e - p i - r - t a r -

$\mathfrak{a} \rightarrow \mathfrak{ae}$

Thin.Primary	Thin.Primary	Thin.Primary
m $\mathfrak{a}$ n y - - -	m $\mathfrak{a}$ n u - t - -	m $\mathfrak{a}$ r u n t - -
m $\mathfrak{ae}$ n u - - -	m $\mathfrak{ae}$ n u - - -	m $\mathfrak{ae}$ n u - - -

$n \rightarrow w$

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

$\tilde{i} \rightarrow \mathfrak{a}$

Guts.Primary	ToBurn.Incendere	ToBurn.Incendere
$\tilde{i}$ - t - r $\tilde{e}$ n - e	$\tilde{i}$ - s e n $\mathfrak{d}$ r a r -	$\tilde{i}$ - s $\tilde{e}$ - d j a r -
$\mathfrak{a}$ n t - r a n - ə	$\mathfrak{a}$ n s e n d - - r ə	$\mathfrak{a}$ n s e n d - - r ə

$l \rightarrow u$

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 - $\lambda$ u - -	p - i - o - $\lambda$ u - -	- o - k u l u s

$\tilde{\mathfrak{a}} \rightarrow e$

Good.Primary	Round.Primary	Round.Primary
b - $\tilde{\mathfrak{a}}$ - - -	r $\tilde{\mathfrak{a}}$ - - - - -	r $\tilde{\mathfrak{a}}$ - - - - -
b w e n o -	r e d o n d o -	$\mathfrak{x}$ e d $\tilde{o}$ - d u -

## Appendix 2 - Prior Frequencies

ø → ej

Hair.Capillus	Straight.Primary	Three.Primary
f ə v ø - - - -	d - r - ø - - - -	t r - ø s
c a v ej - - - -	ɖʒ i r - ej - t u -	t r - ej -

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

y → ε

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

s → ε

Left.Primary	Left.Primary	Left.Primary
s ε ɲ ε s - - - -	s ε ɲ ε s - - - -	s ε ɲ ε s - - - -
s ə n - ε s t ʁ - -	s - - - ε f t r u -	s - - - ε f t r u -

ə → ĩ

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
ĩ - t - r ẽ ɲ - ɐ	ĩ - s e n ɖʒ i a r -	ĩ - s ẽ - d j a r -

s → i

Head.Primary	YouPlural.Primary	Left.Primary
k a v e t t s a	v ɔj s -	s ε ɲ ε s - - - -
k a p i - t i a	v ɔ: i -	s i n - i s t r u m

s → e

Left.Primary	Left.Primary	Left.Primary
s ε ɲ ε s - - - -	s ε ɲ ε s - - - -	s ε ɲ ε s - - - -
s i n j e s t r o -	s i n - e s t r o -	s i ɲ - e s t r i -

ʃ → ə

Sand.Sabulum	Round.Primary	Round.Primary
s ɑ v - j ʃ -	r ʃ - - - - -	r ʃ - - - - -
s o - - r ə -	r ə d o - - - -	r ə t u n d - -

y → ɔ

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

y → o

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

j → r

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

## Appendix 2 - Prior Frequencies

e → ẽ

Grass.Gramen	Guts.Primary	Mountain.Montanea
g r ẽ m ẽ - g r ẽ m ẽ -	ẽ - t - r ẽ ɲ - ẽ ĩ - t - r ẽ ɲ - ẽ	m õ - t ẽ - ɲ - ẽ m õ - t ẽ - ɲ - ẽ

j → ɪ

ToBurn.Incendere	ToBurn.Incendere	ToBurn.Incendere
ẽ - s ã - d j e - - ĩ - s e n dʒ ɪ a r -	ĩ n ʃ ɛ n d j a r e ĩ - s e n dʒ ɪ a r -	ĩ - s ẽ - d j a r - ĩ - s e n dʒ ɪ a r -

ʊ → u

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

ɪ → j

ToBurn.Incendere	ToBurn.Incendere	ToBurn.Incendere
ĩ - s e n dʒ ɪ a r - ẽ - s ã - d j e - -	ĩ - s e n dʒ ɪ a r - ĩ n ʃ ɛ n d j a r e	ĩ - s e n dʒ ɪ a r - ĩ - s ẽ - d j a r -

w → o:

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

w → ʉ

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

i → i:

River.Rivus	ToLaugh.Primary	ToLaugh.Primary
r i - w - r i: w u s	r i - d e - - r i: - d e: r e	r i - d e - - r i: - d e r e

n → d

ToStab.Primary	ToStab.Primary	ToStab.Primary
p - u n g e r e p ð - d - - -	p - u n dʒ e r e p ð - d - - -	p - u n dʒ e - - p ð - d - - -

ẽ → ẽ

Grass.Gramen	Guts.Primary	Mountain.Montanea
g r ẽ m ẽ - g r ẽ m ẽ -	ĩ - t - r ẽ ɲ - ẽ ẽ - t - r ẽ ɲ - ẽ	m õ - t ẽ - ɲ - ẽ m õ - t ẽ - ɲ - ẽ

t → ʁ

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

ɔa → au

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

## Appendix 2 - Prior Frequencies

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 → ə

Thin.Primary	Thin.Primary	Thin.Primary
m œ n u - - -	m œ n u - - -	m œ n u - - -
m ə n y - - -	m ə n u - t - -	m ə r u n t - -

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

d → λ

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

œ → u:

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

d → n

ToStab.Primary	ToStab.Primary	ToStab.Primary
p ð - d - - - -	p ð - d - - - -	p ð - d - - - -
p - u n g e r e	p - u n dʒ e r e	p - u n dʒ e - -

n → g

Knee.Genuculum	ToFight.Primary	Big.Primary
n - - n ɔ - - - -	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

n → dʒ

Knee.Genuculum	Knee.Genuculum	Knee.Genuculum
n - - n ɔ - - - -	n - - n ɔ - - - -	n - - n ɔ - - - -
dʒ - i n ɔ k k - j o -	dʒ - e n o - - - l i -	dʒ - e n u n kʲ - - -

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 - - -

ẽ → a:

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

p → 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 - - - -

## Appendix 2 - Prior Frequencies

p → g

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

w → n

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

ẽ → e:

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

ẽ → u

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

qa → a

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

r → e

ToSpit.Primary	ToSpit.Primary	Big.Majjorem
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 ð - s p y e - -	m a j j o: r e m

ə → ð

Sand.Sabulum	Round.Primary	Round.Primary
s o - - r ə -	r ə d o - - -	r ə t u n d - -
s a v - j ð -	r ð - - - - -	r ð - - - - -

ej → ø

Hair.Capillus	Straight.Primary	Three.Primary
c a v ej - - - -	ɕ i r - ej - t u -	t r - ej -
ʃ ə v ø - - - -	d - r - ø - - - -	t r - ø s

qa → œ

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

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 ð -	s a v - j ð -

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

## Appendix 2 - Prior Frequencies

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 - - -

i: → ə

Root.Radicina	ToSqueeze.Stringere	ToFlow.Excurrere	Near.Vicinus
r a: d i: k i: n a	- s t r ε n g i: - -	- - s k o - r i: - -	w - i: k i: n u s
r ə d ə ʃ i n ə	ə s t r ε n - ə - -	ə - s k o - r ə - -	b - ə - i - - -

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

e → ð

Year.Primary	Year.Primary	Year.Primary	Year.Primary
e - n u -	e - n u -	e - n u -	e - n u -
ð - - - -	ð - - - -	ð - - - -	ð - - - -

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 - -

e → u

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

m → v

ToCount.Numerare	ToCount.Numerare	ToCount.Numerare	ToCount.Numerare
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 - -
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

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 ʁ n u	k - o r n u	k - o r n -

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 ʁ -	ʒ ej - t a r -	ʒ ej - t a r -	k - ej m a ʁ e

ø → oj

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

i → ĩ

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



## Appendix 2 - Prior Frequencies

oj → i

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

oj → ø

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

oj → ø:

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

qa → ε

BarkOfATree.Skorteá	Rain.Primary	ToKnow.Cognoscere	ToKnow.Cognoscere
- 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 - -
- h - w ε - s - -	p l ε - f - - -	k ɔ - n ε - t - ɤ - -	k u - n ε f - ə - -

ɔj → i

ToRub.Primary	ToTie.Primary	ToTie.Primary	ToTie.Primary
f r ɔj i - - -	l ɔj i - - -	l ɔj i - - -	l ɔj i - - -
f r i k a: r e	l i g a: r e	l i - e - - -	l i y a - - -

ej → ə

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

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

ej → e:

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

i → d

Skin.Primary	ToHear.Primary	ToHear.Primary	ToHear.Primary
k - oj i - n - -	ɔj - i - - -	ɔj - i - - -	ɔj - i - - -
k - o d i - - -	au - d i: r e	u - d i r e	u l d i: - -

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
- ɐ r ej - ɐ	f - ej - u -	f - 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 - ɐ	ɖʒ i r - ej - t u -	t r - ej -	t r - ej -

## Appendix 2 - Prior Frequencies

ej → e:

Sand.Primary	Full.Primary	Full.Primary	Straight.Primary
- e r ej - e	f - ej - u -	f - ej - u -	d i r - ej - t u -
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

au → ø

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

i → i

Nose.Nares	Nose.Nares	Nose.Nares	Nose.Nares
n a: r i s -	n a: r i s -	n a: r i s -	n a: r i s -
n a r i θ -	n a r i t f e	n a r i s -	n e r i f -

i → oj

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

i → oj

ToRub.Primary	ToTie.Primary	ToTie.Primary	ToTie.Primary
f r i k a: r e	l i g a: r e	l i - e - -	l i y a - -
f r oj i - - -	l oj i - - -	l oj i - - -	l oj i - - -

i → i

Nose.Nares	Nose.Nares	Nose.Nares	Nose.Nares
n a r i θ -	n a r i t f e	n a r i s -	n e r i f -
n a: r i s -	n a: r i s -	n a: r i s -	n a: r i s -

j → ʌ

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 e - ʌ - -	k - ɔ - ʌ - -	ʌ ə b a - -	ə - ʌ a -

ej → ẽ

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

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 - - -	g r ẽ - - -	m ẽ - - -	m ẽ - - -
wĩ	wĩ	wĩ	wĩ

z → ʒ

ToLieAsInABed.Iacere	ToLieAsInABed.Iacere	ToLieAsInABed.Iacere	ToLieAsInABed.Iacere
z ə - t f ɛ a - -	z ə - t f ɛ a - -	z ə - t f ɛ a - -	z ə - t f ɛ a - -
ʒ e - z i ɤ -	ʒ e - z e ɤ -	ʒ e - z e r -	ʒ a w - - r ə

## Appendix 2 - Prior Frequencies

a: → ẽj

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 ẽj - - -	m ẽj - - -	m ẽj - - -	m ẽj - - -

õ → ẽw

Not.Primary	Not.Primary	Not.Primary	Not.Primary
n õ -	n õ -	n õ -	n õ -
n ẽ -	n ẽ -	n ẽ -	n ẽ -
w -	w -	w -	w -

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: r e	p u l s a: r e

ɕ → ɤ

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

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 ɕ i a r -	ĩ - s ẽ - d j a r -
- s t r i n ɕ e - -	- s t r i n ɕ e - -	i n ʃ i n d ʒ e - -	i n ʃ i n d ʒ e - -

t → o

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

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	- s p a l - l a	e s p a l - d a	- s p a l - l a

t → 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 -

ẽ → ej

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

ε → qa

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

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 ɤ -	ẽ - d - - a r -

## Appendix 2 - Prior Frequencies

$\varepsilon \rightarrow j$

Skin.Pellis	Skin.Pellis	Skin.Pellis	Left.Primary
p ε - - - -	p ε - - - -	p ε - - - -	s ε j ε s - - -
p j e - l - -	p j ε - l - -	p j e - l e -	s i n j e s t r o -

$k \rightarrow o$

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 o k o -	p o k o -	p o k o -

$k \rightarrow l$

Louse.Primary	Louse.Primary	Louse.Primary	Old.Primary
p - e d u - k l u s	p - i d o 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

$g \rightarrow j$

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

$\tilde{a} \rightarrow e$

Year.Primary	Year.Primary	Year.Primary	Year.Primary
$\tilde{a}$ - - - -	$\tilde{a}$ - - - -	$\tilde{a}$ - - - -	$\tilde{a}$ - - - -
e - n u -	e - n u -	e - n u -	e - n u -

$g \rightarrow c$

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 - -

$\emptyset: \rightarrow oj$

Two.Duos	Two.Duos	Two.Duos	Two.Duos
d - $\emptyset:$ s	d - $\emptyset:$ s	d - $\emptyset:$ s	d - $\emptyset:$ s
d - oj s	d - oj f	d - oj -	d - oj -

$g \rightarrow t$

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

$d \rightarrow i$

Skin.Primary	ToHear.Primary	ToHear.Primary	ToHear.Primary
k - o d i - - e	au - d i: r e	u - d i r e	u l d i: - -
k - oj i - n - -	oj - i - - -	oj - i - - -	oj - i - - -

$d \rightarrow b$

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

$v \rightarrow m$

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 - -

## Appendix 2 - Prior Frequencies

ø → au

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

ɤ → dʒ

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

s → u

Many.Primary	Many.Primary	Few.Primary	Few.Primary
m u l t u s m ũ ʃ - t u	m u l t u s m ũ ʃ - t u	p au k u s p o w k u	p au k u s p o w k u

o → k

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

o → t

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

j → ʏ

Liver.Primary	Liver.Primary	ToSwim.Navigare	ToSwim.Navigare
f - i j a: t - - - i ʏ a ð o -	f - i j a: t - - f - i ʏ e ð u -	n ɔ - - j i - - n a v i ʏ a ɤ -	n ɔ - - j i - - n e v i ʏ a r -

ɲ → ʒ

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

ʏ → j

Liver.Primary	Liver.Primary	ToSwim.Navigare	ToSwim.Navigare
- - i ʏ a ð o - f - i j a: t - -	f - i ʏ e ð u - f - i j a: t - -	n a v i ʏ a ɤ - n ɔ - - j i - -	n e v i ʏ a r - n ɔ - - j i - -

ə → i:

Root.Radicina	ToSqueeze.Stringere	ToFlow.Excurrere	Near.Vicinus
r ə d ə ʃ i n ə r a: d i: k i: n a	ə s t r ε ɲ - ə - - - s t r ε n g i: - -	ə - s k o - r ə - - - - s k o - r i: - -	b - ə - i - - - w - i: k i: n u s

œ → ù

Some.Primary	Some.Primary	One.Primary	One.Primary
o - k œ - - a w g ù - -	o - k œ - - a ʎ g ù - -	œ - - - ù - - -	œ - - - ù - - -

r → d

Round.Primary	Round.Primary	Round.Primary	Round.Primary
t a r ɔ n t - - r e d o n d o -	t a r ɔ n t - - ɤ e d ð - d u -	t a r ɔ n t - - ɤ i d ð - d u -	t a r ɔ n t - - r ə d o - - -

## Appendix 2 - Prior Frequencies

ẽj → o

Child.Ninnus	Child.Ninnus	Child.Ninnus	Child.Ninnus
n e n ẽj n i n o	n e n ẽj n i n o	n e n ẽj n i n o	n e n ẽj n i n o

u → ɐ

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

ẽj → a:

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

ũ → œ

Some.Primary	Some.Primary	One.Primary	One.Primary
a w g ũ - - o - k œ - -	a ɭ g ũ - - o - k œ - -	ũ - - - œ - - -	ũ - - - œ - - -

u → s

Many.Primary	Many.Primary	Few.Primary	Few.Primary
m ũ ʃ - t u m u l t u s	m ũ ʃ - t u m u l t u s	p o w k u p a u k u s	p o w k u p a u k u s

l → s

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

c → g

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

l → t

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

l → x

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

ɰ → j

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

w → j

ToSee.Primary	ToFall.Primary	ToPlay.Jiocare	ToPlay.Jiocare
v w a - - ɤ - - v j o d i - -	ʃ w a - - ɤ - - ʃ j a d e - -	ʒ - w - e - - ɖɟ u j - a: - -	ɖɟ u w - e - - ɖɟ u j - a: - -

## Appendix 2 - Prior Frequencies

ẽw̃ → ð

Not.Primary	Not.Primary	Not.Primary	Not.Primary
n ẽ -	n ẽ -	n ẽ -	n ẽ -
n w̃ -	n w̃ -	n w̃ -	n w̃ -
n ð -	n ð -	n ð -	n ð -

o → a:

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

ʒ → z

ToLieAsInABed.Iacere	ToLieAsInABed.Iacere	ToLieAsInABed.Iacere	ToLieAsInABed.Iacere
ʒ e - z i ɤ -	ʒ ɐ - z e ɤ -	ʒ ɐ - z e r -	ʒ a w - - r ə
z ə - ʃ ɛa - -	z ə - ʃ ɛa - -	z ə - ʃ ɛa - -	z ə - ʃ ɛa - -

ẽw̃ → a:

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

j → ε

Skin.Pellis	Skin.Pellis	Skin.Pellis	Left.Primary
p j e - l - -	p j ε - l - -	p j e - l e -	s i n j e s t r o -
p ε - - - -	p ε - - - -	p ε - - - -	s ε ɲ ε s - - - -

o → ěj

Child.Ninnus	Child.Ninnus	Child.Ninnus	Child.Ninnus
n i ɲ o	n i ɲ 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

ʒ → ɲ

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

j → w

ToSee.Primary	ToFall.Primary	ToPlay.Jiocare	ToPlay.Jiocare
v j o d i - -	ʃ j a d e - -	ɕ u j - a: - -	ɕ u j - a: - -
v w a - - ɤ -	ʃ w a - - ɤ -	ʒ - w - e - -	ɕ u w - 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

d → r

Round.Primary	Round.Primary	Round.Primary	Round.Primary
r e d o n d o -	ɤ e d ɔ - d u -	ɤ i d ɔ - 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 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	42
mẽj mẽj nuvej̃ kelizẽj̃ kẽj nẽj ẽj̃		
<b>ẽw̃</b>	0250, 0303, 0077, 0303	52
kẽw̃ kẽw̃ grẽw̃ grẽw̃ mẽw̃ mẽw̃ nẽw̃ nẽw̃		
<b>au</b>	0061, 0075, 032F	72
kaũda kaũde kaũde aũdi:re aũzi paũkus		
<b>ea</b>	0065, 032F, 0061	74
ṭeaṣṭə sṭeə ṭʃeaf̣ṭə ṇeə g̣eatṣə ḅeə veḍeə ẓəṭʃeə feḍeə ḳəḍeə		
<b>oa</b>	006F, 032F, 0061	25
ḍoaṃṇə f̣oaje sḳoartṣə f̣loare c̣oaḍə ṣoare pḷoaje ṇoapte ṿoame kuṇoaf̣te ṭoarṭʃe c̣oase apṛoape		
<b>ẽj̃</b>	1EBD, 006A, 0303	32
nenẽj̃ nenẽj̃ nuvej̃ kalizẽj̃ kẽj̃ nẽj̃ ẽj̃		
<b>aj</b>	0061, 006A	43
paj paj ajɣwə saɟbru saɟbru tene:braj kajkia kajlum nivaj nwaje traj majjo:rem duaj		
<b>a:</b>	0061, 02D0	41
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:nsa:re peṇsa: odo:ra:re fra:gra:re trima: neka:re tu:ta:ri makta:re maṭʃa: pugna:re kaptia:re caṭʃa: pulsa:re pulsa: seka:re sea: kurta:re ekskurta:re skurta: ta:lia:re ta: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: ambita:re sedenta:re senta: sta:re sta: leva:re leva: aḷʃa: torna:re torna: gyra:re ḍjira: ḍjira: da: dona:re dona: appekto:re frika:re frikta:re lawa:re lava: eksu:ka:re suja: limpida:re tira:re tira: pulsa:re pulsa: jakta:re lankea:re laṇʃa: e:runka:re liga:re lea: apta:re komputa:re konta: numera:re numera: kanta:re canta: joka:re ḍjuja: flu:ktua:re fluita:re ko:la:re gela:re glakia:re glaṭʃa: inglakia:re infla:re enfla: konfla:re zgloŋfa: 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	45
pej̃ʃi cavej̃ okej̃ seju pejtu sej̃ʃu areje ʃejraʁ zejtar zejtar kejm̄æ istrejtu d̄zej̃rejt̄u trej̃		
<b>e:</b>	0065, 02D0	1
fe:mina be:stia se:men pe:l ste:l̄la 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:nsa:re ole:re time:re se:para:re jake:re d̄ʒaṭʃe:re sede:re tork̄e:re tene:re e:runka:re intume:skere kre:ske:re arde:re de:lika:tus du:ze: fret̄ plen̄us direkt̄us korrekt̄us tre:s 'tre:		
<b>i:</b>	0069, 02D0	20
mui:r mari:tus mari:t ra:di:kem ra:di:ke radi:ṭʃe 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 respi:ra:re ri:de:re ri:dere aũdi:re uldi: ski:re senti:re sinti: dormi:re wi:were muri: okki:dere di:widere parti:re parti: weni:re vi:ni: strengi: pu:si: di:kere di: skori: subti:lem sut̄il frigidus dire:ktus wi:ki:nus k̄w̄ink̄e ekkumhi:k ibi: sik		
<b>ĩ</b>	006A, 0303	86
mũjtu mũjtu		

## Appendix 4 - Words containing each segment

<b>k<sup>j</sup></b>	006B, 02B2	77
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	68
kojin voj nojtɪ nojtɪ noj voj rojb dojs doʃf doj doj		
<b>O:</b>	006F, 02D0	38
spo:s flo:rem fjo:re flo:r o:wum o:rikla so:lem no:men no:me no:minem ego: no:s no:i no: wo:s voi vo: 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	59
fruktus fu:nem uf 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: tu: su:gere tu:tari eksu:ka:re pu:si: lu:dere flu:ktua:re minu:tus minu:t du:ʒe: ɲu:f aku:tus retu:sus u:midus u:dus u:nus ʃfemu:t		
<b>Ø:</b>	00F8, 02D0	88
strø: dø:s		
<b>œ</b>	0153, 0303	87
okaœ œ		
<b>ej</b>	0250, 006A	46
pejʃi orejɫe seju pejtu sejʃu ereje fejcar kejmare iʃtrejtu feju feju vejɫu direjtu virmejɫu		
<b>ẽ</b>	0250, 0303	29
ifẽʃi ifẽti grẽme sẽgi sẽgi pẽse pẽse ɪtrẽjne môtẽjne mẽʒaʁ mẽʒar ẽdaʁ ẽdar lẽsa lẽsar kẽtar kẽtar tẽtu tẽtu grẽdʒi grẽdi ẽʃu ẽʃu kwẽdu kwẽdu		
<b>ã</b>	0251, 0303	27
ãfã efã seʁpã sãmãs vjãd sã dã ʒãb dʒãp vãtʁ pãs pãs ătʁaj vã sãdʁ ă ă lăg măʒe pãse sătɪʁ fãdʁ etãdʁ lãse lãsi ʃãte ʃãte ăfle ẽsãdje gʁã grã ăpl ăp kã kômã ă dã		
<b>ɔj</b>	0254, 006A	64
fɔj nojs vojs ɔji frɔji loji		
<b>õ</b>	0254, 0303	71
sõg õg savjõ mõ mõ mõtɔɲ nõ nõ kõspyẽ põd nõbʁe gõfle lõ lõ bõ rõ õ nõ nõ		
<b>ɛj</b>	025B, 006A	76
ɔɾej solej vej fʁɛje vɛʁmɛj		
<b>ɛ:</b>	025B, 02D0	79
pjɛ:de tɛ:nebre tɛ:nebre pjɛ:no		

## Appendix 4 - Words containing each segment

<b>ē</b>	025B, 0303	51
fjē t̃ē dē mē vēt vē sēt f̃amē t̃imē lēv pēse sēti sēde fēd pwēd̃k ep̃wēd̃k et̃wēd̃k strēnd ēsād̃je plē plē vwazē vehē lwētē sēk		
<b>g<sup>w</sup></b>	0261, 02B7	69
sang <sup>w</sup> inem ling <sup>w</sup> a		
<b>ij</b>	0268, 006A	54
kijne		
<b>iw</b>	0268, 0077	63
griw		
<b>a</b>	0061	5
fe:mina fam embra femmina fembra domina dam doṇa dōnna dam infantem infante fante sponsa esposa spōza ispoza mari:tus māxi mariḏo marito maridu marit mari:t maḏre marə mari patre paḏre parə pari tata tata tata tata tata tata animalia omaj alimaṇa nōmaje be:stia biḡḡa pwasō awem abe avi aw awikellum wazo passerem paxaro passero paseru paseru pasere kanem kan kane ka can sarpint ʃarpe arborem aḡb̃k arḡol albero aḡvori arvuri abrə arbul arbore silwa selba selva sēwva selba pal palo palo paw paw pal par grano grano gra gran folia oxa fōl̃l̃a frondea frondza raiḡ kais ʁadi radi:tfe radi:ki:na ʁasin kortikea korteḡa kortetḡa skortea skōrtsa skwartse herba jerba erba jarbe jarbə ḡʁamen grama gram rista resta kwan kotenna karnem karne karne kaḡni karni karn karne wi:wenda bibjenda vivanda vivēda sang <sup>w</sup> inem sangre sangwe saṇ saṇk adepem adipe grasa graḡe graḡe kaṇda kola koda kua plu:ma pluma pjuma penna peṇa penna panə pwal kapillus kabejo kapello kabelu cavej kapitia kaḡeḡa kavettsa kabese kap kap testa testa o:rikla orexa orekkja naso nas nas nariḡ nariḡfe naris bukka boka bokka gula gola gola ungula uṇa ungja gamba gamba gamba kambə ʃambe gambə perna pjerna manum mano maṇ a:l̃a ala ala a a alə ale pantikem panḡa panḡa paṇḡa pantse intera:nea ūṭṭaj entraṇa enṭraṇə spatula espalda spalla iḡpadwē iḡpadwē əspa:l̃l̃ə spal spale spate san pwat̃i:n anima alma alma awmē almē anime iyaḡo fegato fik̃at lu:na luna luna stella etwal estreja stella ak <sup>w</sup> a aywa akkwa agwē agwē age apə pluwia jubja pjoddḡa ri:pa:ria lakum lak lago lago lagu layu ʁak lak lak mare mar mare maḡ mar mar mare sal sale saw sal sal sare saksum sasso petra pjeḡra pje:tra pjatrə lapidem laude lapide hare:na arena areḡe areṇ arinə sabulum sabl savalon sabula sabbja pōlvar terra t̃jera terra tsarə nuvola kalina kalidḡine kalizēḡ nebula njebla nebbja tinjeblas fu:ma:ta fumata fuma:ta fumase fumase fumate kajkia glas g̃jatḡa glas glaḡfe ḡeniḡa wia vva bia via stra:ta estrada strada istrade iḡtraḡe kammi:num kamino kammino kam̃ju monta:nea mōṭaṇ montajna montajṇa muntajṇə mōṭaṇ montajne dia zōṇa zōṇa diurna:ta xornada ḡornata dzornade annum aṇo anno aṇ aṇ an ling <sup>w</sup> a lenggwa lingwa manduka:re mandukar mandḡare mēḡaḡ mēḡar mēṇḡa maṇi maṇḡa: minka mwardi moskar morsikare musəḡa musəḡar musəḡa murseka sugaḡ sugaḡ skujpa esputar sputare soffjare sufla respirar respirare ʁespirar ʁiḡspirar rəs̃pira vwaḡ sapere savwaḡ saber sapere sabēḡ savōḡ save: kwidar koḡḡitare kuḡitaḡ kuḡitar kujda kuḡeta pensar pensare pēsḡ pēsar pōnsa pōsa ulura odorare fragrare feḡraḡ feḡrar flējra tremare via nəḡa neka anegar annegare makta:re mate matar mataḡ metar mōṭa maḡa: puṇar puṇṇare puṇa battuere bat̃ batir battere batēḡ batrə bat bati bate kapti:re ʃase kaḡar kaṭṭfare kasḡ kesar kəsa caḡa: puxar pulsare puḡaḡ puḡar pulsa segar segare segaḡ siḡar səḡa kortar koṭtaḡ kurtar skortare skurta taxar ta:l̃l̃a:re ta:l̃aḡ tēlar tēla taja: taja parti:re paṭtiḡ partir partire paṭḡiḡ parti: se:para:re separar separare separaḡ siperaḡ sēpəra separa: separa raer radere ʁaēḡ rawrə rada: rade rasar rasare ʁazaḡ ʁezar rəza rasa: raskar ʁaḡkaḡ ʁeḡkar rəska kosaḡ kusar kawa:re kabar kavare kēvaḡ kēvar kəba t̃ʃave ʃava: ekskawa:re eskabar skavare iḡkēvaḡ iḡkēvar z̃java: nata:re nadar nwtare nadaḡ neḡar nēda nada: naviga:re naḡe nabegar navigare naviḡaḡ neviḡar nēbəḡa naviga: naviga bolar volare voaḡ vwar bula zvolare zbur̃a kaminar kamminare kēmiṇaḡ kēmiṇar kēmina camina: ambita:re andar andare ēḡaḡ ēḡar jake:re jaḡer ḡaṭḡe:re zawrə swaḡ sentar sētar sētar estar stare iḡtar iḡtar əsta sta jebar l evare levar livar lēba lua alḡar altsare aḡsa aḡsar əlsa alḡa: tornar tornare toṇaḡ turnar turna turna xirar ḡirare z̃irar z̃irar zira birar virare virar z̃irar bira kadere ʃwaḡ kaer kadere kawrə t̃ʃjade tumber tōbaḡ tōbar tumba dare dar dare daḡ dar dar da donar donare doa duar duna segurar siguraḡ siḡurar serar seḡa sērar sēra serare ḡerar serrare siḡar siḡar appetora:re apretar ep̃irtar ep̃irtar fregar fregar frəḡa frea freka iḡfriḡar iḡfriḡar frotar frettare frisar fr̃sa lawa:re lave laḡar lavare levar levar lēba lave lava: la estarsir affugare ēḡugar ēḡuḡar əḡuga uska limpjar lipar lipar tirar tirare t̃ira tirar tira puxar pulsare puḡar puḡar pulsa trahere trarre traze traḡe jakta:re eḡar ḡettare zejtar zejtar xita lankea:re lanḡar lanḡare lēsa lēsar lēnsa lanḡa: arankar arronḡare aruṇka legar legare liḡa lega apta:re atar etar etar kontar kontare kōtar kōtar kumta noverare numera numara kanta:re kantar kantare kētar kētar kēnta canta: kinta xugar ḡokare zogḡaḡ zuyar zuga zuka flugṭwar fluttuare flutuḡ flutuḡ fluktua fluitua fluitare kolar kolare koaḡ kuar kuḡelare ḡelar ḡelar zilar zilar zēla ḡale glakia:re glase g̃jatḡare gl̃sa glaḡa: inglakia:re ingetsa inḡar enfiare iḡar iḡar imfla umfla gonḡare k̃waṭk̃ k̃rame		

## Appendix 4 - Words containing each segment

kemar kremare kɛjmare kejmæ kɾəma flamma:re flame fjammarɛ flama flama: arde:re aɾdɤ arder ardere aɾdɛɤ arde  
flagra:re flagɤe flagrar flagrɛ flagræ flagrar inʃendjare isendʒiar isēdjar ustolare ustura tantus tanto tanto tant tanc  
alguno alkuno awgū ałgū alkon alter altro altrə altri alt alius aw ał magnus mapo mapjo grandem grande grande gran  
grant mare largus larʒ laryo largo larʒu largu ʎark laɟ lark larg lato lato latu latu lat amplus anʃo ampjo amplə  
krassus graso grasso grafu gras gras gras grawis grabe gravi gravi angustus angosto angusto etɤwa delyaðo delikato  
dewgadu dɛɭyaðu dəlikat kalidus kaldo kaldo kawdu kaldu kał calt kald fɤwa malus mal malo malo maw maw mal  
mava dɤwa tarənt aku:tus aɣuðo agy soave suaw adpropre aprəape vwazē kirka ɵerka lontano ʎunta lontən galbinus  
galben amarellus amarijo ɛmarelu albus albo albo awvu alvu alb alb duas kʷattwor katɤ kwatro kwattro kwatru kwatru  
kwatrə kwat kwatri patru aki aki aki aki la aja la la la əʎa la la ai ai kwa kʷando: kwando kwando kwan kwand  
kwant ad a a a a a a abhoc avek avu

**b** 0062 7  
embra fembra be:stia biffa bife bife bies bis abe berme arborem aɾbɤ albero abrə arbul arbore selba selba herba ɛɾb  
jerba ɛrba erbə jarbe jarbə bibjenda webo kabejo kabelu kəbɛʎ kabesə bukka buf boka bokka bokɤ bokɤ bokə bək bəcɛ  
bukə gamba ʒəb 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 tɛ:nebre tene:bra:s tenebɤ tinjeblas tɛ:nebre tənebrəs bjento  
ben njebe bia biə nombre limbə bos bus bibere bwəɤ beber bere beɛɤ biʃer bɛwɾə bəɤ bevi ɓɛa ber bɛwɾə saber sabɛɤ  
səber bibir biwɾə battuere batɤ batir battere batɛɤ bɛtɛr batrə bat bati bate dibidir dibidi kabar kəba eskabar nabegar  
nəbəga bolar bula zburə ambita:re benir bəni jebar ʎəba bɪar bira tōbe tumbə tōbɤ tōbar tumba ʎəba nɔbɛe grabe  
brewis bɛɛf brebe brɛve brɛvi brɛvi brew brɛf subti:lem subtsire bjexo bonus bō bweno bwəno bō bō bən bō bən bun  
hebetem ɛbete beθino bəi bermexo bərmɛʎ rubeus rubjo rəbbjo rubeo rubeo rojb berde galbinus galben albus albo albo  
alb alb ibi: abhoc

**c** 0063 53  
can ca:r cɔadə cavej ca:f bəcɛ noctem cuca: caʃa: camina: cɔase canta: fluctua molc tanc calt spurcus abhoc

**d** 0064 21  
domina dam doja dənna donɛ donɛ dənə dam dɔne dɔamɤ maridu ma:dre pa:dre peduklus pidəkkjo pedoli pədukje  
frondea ra:di:kem ra:di:ke ɤadi radi:ʃɛ ra:di:ki:nə rədəʃinə kodiv wi:wenda vjəd bibjenda vivanda vivəda vivəɛə adepem  
adipe kaɣda koda kaɣɛ kaɣɛ kəɛ cɔadə dentem dā djente dente dɛʃi dɛti dɛ dint dinte pedem pjɛ:de dorsum do  
daso dos do dwes do espalda ifpadwɛ ifpadwɛ figedɔ pjodɟa pedrɛ lapidem laude lapide pudɤ sādɤ sɛndrə estrada  
strada istradɛ die:s dia di diɛ diɛ diə di diurnum djurno diurna:ta xornada dɔornade usted komedere manduka:re  
mandukar morde:re moɾdɤ mɔrdere moɾdɛɤ mwardi spuda: ri:de:re ridere ridi ride wide:re vedere vjodi vedɛa aɣi:re  
udire uldi: kɣide kwidar kujda odo:ra:re odorare kɛɛɤ dormi:re dəɤmiɤ dormir dormire dəɤmiɤ durmir durmi dwɛmi  
durmi: dormi okki:dere utʃidere utʃide di:widere dibidir dividere diviðir dibidi dividi divide skindere sɛde jindere findere  
fādɤ ender fendere fɛdɤ fɛder fendrə fɛd pwɛɤ pɔd ra:dere radere rada: rade fodere nadar nadaɤ nəda nada: andar  
andare ɛdaɤ ɛdar ekstendere etādɤ ekstender estendere istɛdɛɤ iftɛdɛr əstendrə ekstinde sede:re sedere fedɛa sedenta:re  
təɾdɤ kadere kadere ʃjadɛ kəɟa dare dar dare dɤɤ dar da: da dona:re dɔne donar donare doa duar duna dine dona:  
ɛpɛɛɤ etɛɛɤ strɛnd limpida:re kudɤ di:kere diɤ dɛθir dire dizer dizer di dir di: lu:dere ludir arde:re aɾdɤ arder ardere  
aɾdɛɤ ɛrder arde inkendere ɛsādje enθender inʃendjare isēdjar ənsendrə inʃindʒe todo todɔ dut grandem grande grande  
grɛdi gurdus gordo lurdus lerdo lordo lerdo menudo miudu de:lika:tus du:ʒe: delyaðo delikato dewgadu dɛɭyaðu  
dəlikat kalidus kaldo kaldo kawdu kald fri:gidus freddo putridus putrido putred podri sordidus sordido sordido  
sɔrdidu sɔrdidu di:re:ktus dɤwa dritto direjtu dɾɛt drɔ dɾɛt drept rotundus redondo ritondo ɛədɔdu ɛidɔdu rədo rətund  
nitidus neted u:midus umido umid umed u:dus ud adpropre dekstrum djestro destro destrɔ dɛʃtru destrə dʒɛstr dʒestri  
wiridem berde verde verdi verde duo:s dɔ dos dojs dojʃ dos dɔ:s doj doj duaj due dowə duas duɛs duɛf kʷid  
kʷando: kwando kwando kwɛdu kwɛdu kwand kind kʷo:modo ad deintus dā dins kʷod

**e** 0065 6  
embra femmina femeɤ femjɛ fembra femeje mulierem muxer moʎʎe muʎɛɤ muʎɛr muʎe mujere dɔne infantem infante  
fante nenɛj nenɛj nen epuz esposa epu esposo ma:trem mɛɤ mādɛre ma:dre mer patre pɛɤ paðɛre pa:dre nema:ʎ nəmaje  
piskem peθ peʃʃɛ pɛʃ peʃte awem abe awikellum useʎ passerem passero pasəre kanem kane kijne peduklus pedoli  
pədukje serpentem sɛɾpə serpente serpente sɛɾpɛʃi sɛɾpen ʃarpe wermem vɛɤ berme verme vɛɤmi vermɔ vjer vjerme  
arborem albero arbore selba selva selba selve se:men seme sementis simjente semente semɛʃi səmen sementʃɛ fwee fɔaje  
frondea ra:di:kem ra:di:ke radi:ʃɛ kortikem kortiʃɛ kortikea korteθa kortetʃa skorteə ekoɤs skwartse flo:rem fjo:re floare  
herba jerba ɛɾvɛ erbə jarbe gramen funem fune funje restem ɤɛʃti kotenna pellem pjel pelle peli peʎ pjele karnem

## Appendix 4 - Words containing each segment

karne karne karne wi:wenda bibjenda sang<sup>w</sup>inem sangre sangwe sinḡe weso adepem adipe gref webō kwerno penna peṇa penna penē penē penē pelo pelo pelu kapello kapello kabeḡa kavettṣa kabesē keḡesē testa testā teste orexa orekkja oreḡe orele ureke ne ne nariḡe ḡale dentem ḡjente dente dinte ungje pedem pje pje pje:de piez jambe perna pjerna petiolus peḡiolo genikulum zueḡu ḡzenoli ḡzenunk<sup>l</sup> el el ale wentrem bjentre bentṛa vintre pantikem pantse pintefje intera:nea entrapa kwejo dwes epol espalda spate seno seno sen pektus peḡfo pjept kwōre anime fegato fedḡa so:lem sole sqare soreli lune etwal estreja stella istreḡe iftreḡe stele age ploje plḡaje flu:men fjume kṽjvex mare mare mer mare sa:lem sale se sare petra pjeḡ pjeḡra pedrē pedrā pje:re lapidem laude lapide arena ṛenā pulwerem polvere pulbere terra teḡ tjera teḡe teḡ tjere nube nube ka:li:ginem kalidḡine nebula njebla nebbja newlā negurā tene:braj tē:nebre tene:bra:s tenēbḡ tinjeblas tē:nebre tēnebrās fyne fumate ḡjelo tfer wentum bjento ben niwem njebe neve new gelu: jelo ḡer glaḡe fwego kinerem tferene ḡeniḡa tferuḡa estrada montem monte monte monta:nea montape noctem noḡe notte nḡapte zuḡne ḡornade no:men no:me nume no:minem nombre lenḡwa ego: ew ew jew usted vose vṣe voste bibere beber bere beḡeḡ biḡer bevi komedere komer kome kumer manduka:re mḡze mandḡare morde:re morḡer mḡrdere moḡdeḡ murḡer morsika:re morsikare murseka su:gere syse suḡe konspuere kṣpye eskupir sputere esputar sputare womere vḡmere vḡame suffla:re sufle soffjare soḡle respira:re respirar respirare kspirar respira: ri:de:re reir ri:de:re ride wide:re ber vedere veḡ ver vedḡa auḡire udire ski:re sapere saber sapere sabēḡ seber kogno:skere konḡer konoffere kopeseḡ kupiser kunḡaste ko:ḡita:re kuḡide koḡḡitare kuḡḡeta peṇsa:re pāse pensar pensare pēse peṇsa: senti:re sentir sentire ole:re oler olire odo:ra:re odorare fra:gra:re flēḡe fragrare time:re temer temere temēḡ timer temā temi teme tremere tremḡer tremare tremēḡ trimer dormi:re dormire wi:were vivere vives viver morire moḡeḡ muḡer neka:re nwaje neka anegar annegare tḡe tuwe makta:re mate okki:de:re utḡidere utḡide pugna:re puṇpare battuere battere bateḡ beter bate kaptia:re fase kattfare pulsare puse pulsare seka:re sje segar segare segaḡ sea: kurta:re ekskurta:re ekuḡte skortare talia:re taje taḡḡa:re di:widere dividere divide skindere sēde jindere findere ender fendere fēdeḡ fēder parti:re partire se:para:re sḡvḡe separar separare separaḡ separa: separa pungere punḡere punḡe jugula:re zyḡyle jugula:re ra:de:re raer radere kaḡeḡ kḡer rade kaḡe rasare fodere kawa:re fḡve kavare tḡave ekskawa:re eskabar skavare nata:re nwotare naviga:re naḡe nabegar navigare wola:re vole volare vḡle zvolare fḡmine kamminare mergere merḡere merḡe ambita:re a

ndare weni:re benir venire veni ekstendere etāḡ ekstender estendere istēdeḡ iftēder ṛstendrā ekstinde jake:re zezḡ jaḡer ḡaḡe:re zḡezḡ zḡer jesi sede:re ser sedere sek ser sedḡa sedenta:re sentar senta: stare estar lave leva:re leve levare levāḡ leve leva: ose altsare torna:re tuḡne tornare turne gyra:re zḡe ḡirare viḡe virare vire tork<sup>w</sup>:re torḡer torḡere turser turser tḡarḡe kadere kaer kadere tḡjade tḡbe tume dare dare dona:re dḡne donare dine tene:re tener tenere teḡ ter tsine segurar eksprimere epḡēḡ ekspremir spremerē iḡprameḡ iḡpramer ṛspremā esprimi skreme serrere serar seḡa serare seḡe ḡerar serrare sere appetora:re apretar stringere etḡēḡ estrepir strindḡere strindḡe frika:re fḡeḡe fregar fregare frea freka frikta:re fḡote frettare frḡte lawa:re lave lavare lave tergere tḡrḡere ekstergere estarsir fterḡe eksu:ka:re esḡije affugare sye limpida:re tira:re tiḡe tirare tire pulsa:re puse pulsare trahere trarre traze trezer tradḡe impingere impindḡere impindḡe jakta:re zḡte eḡar ḡettare ḡete lankea:re lāse lantḡare e:runka:re arrontḡare liga:re lie legar legare lea: lega apta:re ko:nsuere koser kufjere kuzer kuzer ḡḡase komputa:re kḡte kontare kote numera:re nḡbḡe noverare numera numera: dikere deḡir dire dizer dizer ziḡe eksponere sporre spune kanta:re jāte kantare tḡāte lu:dere jḡka:re zḡe ḡḡokare ḡuwe flu:ktua:re flyktḡe fluttuare fluita:re fluitare fluere flye fluire kola:re kule kolare kḡle ekskurrere eskurir skorrere iḡkoḡeḡ iḡkurer skurḡe kurrere korer korrere koḡeḡ kuḡer kurḡe gela:re zḡle elar ḡelare ḡale glakia:re glase ḡjattḡare inglakia:re ingetsa infla:re āfle enfiare ēfle enfla: konfla:re ḡḡfle gonḡare ḡḡfle intume:skere entumeḡer itumeser itumeser kre:skere kreḡer kreḡere kreseḡ kriḡser kreḡa kreḡte krema:re kḡame kemar kremare kḡjmare keḡmaḡe flamma:re flame fjammarde arde:re arder ardere aḡdeḡ ṛder arde flagra:re flagḡe fragrare inkendere ēsḡḡe enḡender inḡendḡare isendḡar ṛsendrā inḡindḡe ustula:re ustolare alter grandem grande grande majjo:rem mare le epe espeso spesso iḡpesu grabe greve grew grew lerdo lerdo lerdo pekeṇo pekenu pikenu brewis brebe breve brew etḡwa estretḡo stretto menudo delyaḡo delikato dewḡadu subti:lem sottile subtsire freddo rekentem reḡjente reḡente reḡēḡi reḡēḡi retsint reḡe ḡeno nweḡo wetulus bjexo veḡu veḡ vjei vek<sup>l</sup> bweno putred putrem poḡre drept redondo reḡḡdu hebetem ebete retu:sus retuzo sua:wem soave netto neted umed seko sekko seku seku sek korretto proizme adpropre aproape pressus pḡe beḡino veḡin ḡerka dekstrum djestro destrā djestri sinjestro sinestro sijestri vermikulus bermexo vermiḡḡo veḡmeḡu rubeus rubeo rubeo ruḡe wiridem veḡ berde verde verdi verdi ver verde galben amarellus krokeus kroḡeo due tres tre tres tref k<sup>w</sup>:ink<sup>w</sup>e tḡjḡkwe ekkumhi:k k<sup>w</sup>em kjen tḡine ke ke tḡe tḡe kome tḡemut nek ne en deintus avek et e e e e ke ke ke

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0066

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fe:mina fam femmina femēḡ femjḡ fembra fḡem femine femeje infantem āfā infante fante ifēḡi ifēti efā fru:ktus fḡyḡi fruto frutto frutḡe frutḡe frujt fryt frut frukt folia fḡej fḡḡḡa foḡe foḡe fuḡa fḡj fwee fḡaje frondea frondza frḡse frḡse frunza flo:rem flḡeḡ flor fjo:re flḡeḡ flor flḡ flḡer flḡor flḡare fu:nem fune funje ḡef uḡ ca:f fi:ka:tum fwa fegato figeḡu fiḡeḡu fedḡa foet fija:t fikat plēf flu:men fjume flumi flumi flum fu:ma:ta fyne fumata fuma:ta fumaḡe fumaḡe fumate ne:f fu:mus fumo fumu fumu fum fum fokum fḡo fwego fwḡko fḡgu fḡy fḡk fḡe fḡk fḡk suffla:re sufle soffjare soḡle sofia: sufla fra:gra:re flēḡe fragrare flḡra findere fḡḡeḡ fendere fēdeḡ fēder fendḡa fēd fodere fwḡeḡ frika:re fḡeḡe fregar fregare fraḡa froji frea freka iffriḡar iffriḡar frikta:re fḡote frotar frettare frḡte frisar frḡsa flu:ktua:re flyktḡe flugtwar fluttuare flutuḡe

## Appendix 4 - Words containing each segment

flutuar fluktua fluctua fluita:re fluitare fluere flye fluir fluire flwix flwir flui infla:re āfle enfiare imfla ēfle enfla: umfla konfla:re gōfle gonfjare gōfle zgloŋfa: flamma:re flame fjammarē flama flama: flagra:re flagxē flagrar flagrare flagxax flagrar gxiĵef b̄xēf b̄xēf fri:gīdus f̄kwa frio freddo friu friu frēt fr̄o frēt juf

**h**

0068

**49**

pehō uhe hwes herba ohe krōh hare:nā kinōh trahere hebetem vehē ekkumhi:k abhoc

**i**

0069

**3**

fe:mina femmina femine mulierem domina infantem infante ifēŋfi nipo nino ispoza maŋi mariĉo marito maridu meriĉu marit m̄arit ispozu sokius mari pari animalia alimajna be:stia biffa bife bife bies bis piskem pejfi avi awikellum pidōkkjo pioĻu pioĻu pedoli seŋpēŋfi sarpint v̄xmi aŋvori silwa f̄xpi sementis simjente semēŋfi simēs grin folia raiθ kais x̄eif x̄adi x̄asin r̄adēŋina kortikem kortiŋe k̄ox̄fisi k̄ortisi kortikea k̄ox̄fise kurtisē rista x̄eŋfi kōd̄jie kodie kojn peli kaŋni bibjenda vivanda vivēda vivēde sang\*w̄inem sēgi adipe pilus kapillus d̄jive kapitia o:rikla voli nariθ nariŋe naris n̄erif dēŋfi dint dinte pi piez petiolus peθiolo pitf̄olo pitf̄or genikulum inoxo d̄zinōkkjo d̄genoli vintri vintre pantikem intera:nea iŋpadwē iŋpadwē sinus si pi pit pwatx̄in pwetrin anima anime inimō iyaĉo fiġeĉu fiġeĉu fija:t fikat solikulus soreli istrele pluwia pl̄qi flumi rio rio x̄iw x̄iu riw ri:pa:ria x̄ivjex̄ rivi:r piw lapidem lapide arinā nu:bilus ka:li:ginem kalina kalid̄jine kalizēj̄ kelizēj̄ tinjeb̄las kajkia sir 'vint niwem n̄evi nivaj kinerem θeniθa ŋ̄inize wia bia via vie v̄ie biā istradē iŋtraĉe kamino kammino kem̄jnu k̄ami ŋ̄imē mōŋfi n̄qi nit die:s dia di die die diā di zi diurnum diurna:ta nomi no:minem ling\*wa lingwa limbā io d̄gi noi: voi: ti bibere bevi maŋi mwardi morsika:re morsikare sysi kuspiw kusp̄ir eskupi aŋkupi vomix̄ vom̄i respirar respirare x̄espirar x̄ispirar r̄espira respira: x̄ix̄ reir x̄ix̄ x̄ir riwrā rir ridi wide:re vjodi wix̄ oir udire owvix̄ owvir ui d̄ji auzi ŋ̄ti kinōh koposi ko:gita:re k̄uide kwidar kōd̄jitare kuzitax̄ kuzitar s̄atix̄ sentir sentire sēŋfi s̄etir s̄anti s̄eti sinti: simtsi olire time:re temi trima: d̄ox̄m̄ix̄ dormir dormire d̄ox̄m̄ix̄ durmir durmi dw̄x̄mi dormi viv̄x̄ bibir vivere vivex̄ viver biwrā vivi via muwix̄ morir morire muri m̄ori muri tu:ta:ri oksiw utf̄idere uksi utf̄ide batir bati kaptia:re ŋ̄esi ta:lia:re teji di:widere dibidir dividere d̄jivid̄jix̄ diviĉir dibidi dividi divide skindere findere findere p̄xt̄ix̄ partir partire p̄xt̄ix̄ p̄xt̄ir p̄rti p̄rti p̄zix̄ p̄z̄ir pupi fwix̄ iŋk̄evax̄ iŋk̄ev̄ar naviga:re navigare n̄oji naviga: naviga ŋ̄amine kaminar kamminare kem̄jnas kem̄jnar k̄amina camina: ambita:re v̄onix̄ benir venire vix̄ vir b̄oni vini v̄ipi: veni istēdex̄ iŋtēder ekstinde zezix̄ d̄jir jesi zix̄e x̄irar d̄jirare z̄irar z̄irar zira d̄jira: vix̄e birar virare virar z̄irar bira vire d̄jira: k̄eir k̄eir dine t̄onix̄ t̄oni tini tinji tsine eksprimere ekspremir iŋpr̄m̄ex̄ iŋpr̄m̄er esprimi stringere estreŋir stringere aŋtr̄izir aŋtr̄izir frika:re fr̄oji frika:re frisar estarsir aŋt̄erzi esūje limpidare limpjar tira:re tix̄e t̄irar t̄irare ŋ̄ira t̄irar tira tire tira: impingere impind̄ere impind̄e xita l̄āsi liga:re lie liya l̄oji kuŋfire kuzi kuzi diw deθir dire d̄izer d̄izer di dir ziŋfe ludir fluita:re fluitare fluir fluire flwix̄ flwir flui eskurir iŋk̄ox̄ex̄ iŋk̄urer kuwix̄ k̄ori kori glakia:re inglakia:re infla:re int̄jar enfiare imfla intume:skere inkendere int̄end̄jare int̄ind̄ze omnis oŋni altri alius gr̄ēd̄gi spissus ispesu iŋpesu grawis gxiĵef gravi gravi pittitus p̄oti p̄etit piti 'pittinus pittino putsin pitulus pikkolo pitful brewis brevi striktus istrejt̄u minu:tus minuto miudu miuĉu minu:t de:lika:tus delikato d̄alikat sutil sottile suŋfiw suŋfiw subtil subsire kalidus fri:gīdus frio friu friu x̄esēŋfi x̄esēŋfi retsint plin vi v̄jei putridus poĉriĉo putrido puĉrit podri sordidus sordido s̄ordido s̄ordidu s̄ordidu ispurku iŋpurku dritto d̄jirejt̄u direjt̄u ritondo nitidus niĉio u:midus umido umid sikkus proksimus proximo pr̄ssimo prosimu prosimu proizme prosim beθino vizino vizipu vizipu b̄ai viŋfin v̄etfin kirka d̄jestri sinistrum sinjestro sinistro sijestri vermikululus vermiāĻo wiridem galbinus amarijo kwatri

θ̄inko ŋ̄in̄kwe sink 'ŋ̄in̄k ŋ̄in̄f̄ aki kwi aki x̄ki aki illa:k ibi: vi ai ai ei k\*is ki ki ki ki kwi ŋ̄fine k\*id ki ni ni ni ni in in deintus dins i i i i si si si si si si fi ki

**j**

006A

**10**

femj̄e femeje mujere omaj n̄amaje uŋfel ŋ̄jē p̄joxo pidōkkjo p̄ju p̄dukje serpjente s̄jerpē v̄jer v̄jer v̄jerme fruĵt simjente f̄ox̄e f̄ox̄e f̄jo:re j̄ep jarbe jarbā funje p̄jel p̄jel p̄jele v̄jād bibjenda p̄juma orekkja ōj̄ ōkkjo ūj̄ ḡox̄e d̄jente ungja ungje p̄je p̄je p̄je:de p̄jerna pitf̄or d̄zinōkkjo bjentre āt̄x̄aj p̄jept f̄ij̄at jubja pjod̄d̄ja ploje pl̄ox̄e f̄jume x̄ivjex̄ p̄jex̄ p̄jeĉra p̄je:tra p̄je:re p̄jatrā savj̄ō sabbja tjera tjere n̄jeb̄la nebbja n̄jyl tinjeb̄las ŋ̄jel θ̄jelo bjento n̄jebe ḡjatt̄ja d̄jurno jo jew skuĵpa soffjare v̄jodi kujda fl̄ajra s̄je t̄ox̄e teji t̄aja: t̄aja jugula:re jugula:re n̄oji jake:re jesi ŋ̄j̄ade tinji esūje suja: limpjar jakta:re joka:re d̄juja: ḡjatt̄jare gonfjare fjammarē ēs̄ōd̄je int̄end̄jare iŋs̄ēd̄jar majjo:rem ampjo gxiĵef reθjente p̄je:no v̄jō bjexo vekkjo v̄jei d̄jestro d̄jestr d̄jestri sinjestro rubjo r̄ōbbjo k̄jen

**k**

006B

**39**

sokius piskem awikellum kanem kan kane k̄w̄ k̄w̄ ka kijne peduklus pidōkkjo p̄dukje fru:ktus frukt ra:di:kem ra:di:ke ra:di:ki:na kortikem kortiŋe k̄ox̄fisi k̄ortisi kortikea kortēθa kortett̄fa k̄ox̄fise kurtisē skortea ekox̄s sk̄ortsa aŋk̄ors̄a skwartse sk̄oarts̄a kwan kotenna kōd̄jie kodie konnā kojn karnem karne karne kaŋni karni karn karne saŋk kr̄ōh kornu: k̄ōn kwerno k̄orno k̄ōnu kornu k̄ōn kwen kwa:r korn kaūda k̄ō kola koda kaūde kaūde kua k̄ōw kōde kapillus kabejo

## Appendix 4 - Words containing each segment

kapello kabelu kəβelu kəβeʎ kapitia kaβeθa kavettsa kabesə kəβesə kap kap o:rikla orekkja ureke okulus ɔkkjo bukka boka bokka bokə bokə bokə bukə bukə kambə pəkol genikulum ɖinɔkkjo pantikem kollum ku kwejo kollo kolu kolu kɔʎ ko kwəl pektus kor kœw kwœr kœw kor kor kuw kur fika:tum fikat solikulus akkwa lakum lak lak lak saksum ka:li:ginem kalina kalidžine kalizēj kəlizēj kajkia kajlum fokum fwɔko fɔk 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 kɔspye kuspiz kuspiz eskupir askupi skujpa ski:re kogno:skere kɔnɛtɪ konoθer konoffere kɔnesə kupiser kunɛʃ kinɔh kɔposi kungafte kɔ:ɡita:re kɔide kwidar kodžitare kuzitaɪ kuzitar kujda kudžeta kʷēdɪ neka:re neka makta:re okki:dere ɔksiɪ uksi kaptia:re kaθar kattfare kasas kəsar kəsə seka:re kurta:re kortar kɔtɔɪ kurtar ekskurta:re ekurte skortare skurta: skurta skindere raskar ɤʎkɔɪ ɤʎkar rəska kosaɪ kusar kawa:re kabar kavare kəvɔ kəvɔr kəba ekskawa:re eskabar skavare iʎkəvɔ iʎkəvɔr kaminar kaminare kəminɔɪ kəminɔɪr kəmina ekstendere ekstender ekstinde jake:re kadere kaer kadere kəir kəir kawrə kəɖə eksprimere ekspremir skreme appektora:re frika:re freka frikta:re ekstergere eksu:ka:re uska jakta:re lankea:re e:runka:re arankar arunja kɔ:nsuere kudɪ koser kufire kuzer kuzer kuzi kɔz kuzi komputa:re kɔte kontar kontare kɔtar kɔtar kumta kote konta: di:kere ekspɔ:nere kanta:re kantar kantare kɛtar kɛtar kɔnta kinta joka:re ɖokare zuka flu:ktua:re flyktɥe fluktua kɔ:la:re kule kolar kolare koɔ kuar kuʎa kɔle ekskurrere eskurir skorrere iʎkœv iʎkuer ɔskorə skori: skurɖe kurrere kuɔɪ korer korrere kœv kɔvɔr korə kɔri kori kurɖe glakia:re inglakia:re konfla:re intume:skere kre:ske:re kɔwatɪ kreθer kreffere kreseɪ kriʃser krefɔ krefte krema:re kɔame kemar kremare kejmare kejmə keɪma inkendere okœ alkuno alkɔn paɪkus poko pɔko powku powku pɔk pɔ:k lunk ʎark lark krassus kra pekeno pekeno pɛkenu pikkolo kurtus kuɪ korto kortu kurtu kurt kur kurt striktus de:lika:tus delikato dɛlikat kalidus kaldo kaldo kawdu kaldu kaʎ kald rekentem vɛkkjo spɔrko ispurku ispurku spɔrk spurk di:rektus aku:tus sikkus sɛk seko sekko seku seku sɛk sɛk sɛk korre:ktus korretto proksimus wi:ki:nus kirka θerka dekstrum vermikulus krokeus kroʃeo grɔk katɪ kwatro kwattro kwatru kwatru kwatrə kwat kwatri sɛk θinko ʃɪŋkwe siku siku sɪŋk sɛk ʃɪŋk ekkumhi:k aki kwi aki ɔki aki aki illa:k ki ki ki ki kwi kjen kɛj kɛj kwa ke ke ki ki kɛ kwe kɔ kwando kwando kʷēdu kʷēdu kwan kwand kwant kind kɔmɔ komo kome komu komu kɔm kom kum nek kum kon kon kɔ kɔ ku avek si:k ke ke ki ki kə ke kə

**l** 006C **14**  
mulierem animalia alimaja nema:l awikellum uttfello utfjel peduklus pedoli arɔol albero arbul silwa selba selva selba selve pa:lus pal palo palo pal pa:l folia ɔrɛl flo:rem floɪ flor floɪ flor flɔ floɪ flor flɔare pellem pjel pelle peli peli pjel pjele kola plu:ma plym pluma plomə plɔm plumɛ pilus pwal pelo pelo pelu pilu pel pwel pe:l kapillus kapello kabelu kəβelu o:rikla orele okulus voli gula goel gola gola golə gole ungula ɔgl ɔngule petiolus peθiolo pittɔlo pəkol genikulum ɖenoli a:la el ala ala alə el ale kollum kollo kolu kolu kwel spatula epol espalda spalla spal spale alma alma almə so:lem sol sole sɔl solikulus sɔlej sɔlɔ soreli lu:na lyn luna luna lue lue lɔn lune lunə ste:lla etwal stella istrele ɪstrele stɔl stɔl stele pluwia plɥi pluzə plef ploje plɔaje flu:men flumi flumi flum lakum lak lago lago lagu layu lak la:t lak sa:lem sel sal sale sal sal sa:l lapidem laude lapide sabulum sabl savalɔn sabula pulwerem polvere pɔlvar 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 ʃelo sel ʃi:l gelu: zel jelo ɖelo glas glas glɛs glaʃe lingʷa lɔg lɛŋgwa lingwa ligwɛ ligwɛ lɛv ʎenge limbə suffla:re sufle sɔfle sofla: suflla uldi: ole:re oler olire ulura flɛv flɔjra pulsa:re pulsare pulsa: pulsa: pulsa talia:re jugula:re zygyale jugula:re wola:re vole bolar volare bula vɔle zvolare zvola: leva:re lɔve levare levɔ livar leve leva: lua alθar altsare əlsa alʃa: lawa:re lave laɔar lavare lɔvar lɔvar lave lava: la limpida:re limpiar lipar lipar pulsa:re pulsare pulsa: pulsa: pulsa lankea:re lɔse lanθar lanʃare lɛsa lɛsar lɔsi lanʃa: liga:re lie legar legare lɔji lea: lega lu:dere ludir flu:ktua:re flyktɥe flugtwar fluttuare flutuɔɪ flutuar fluktua fluctua fluita:re fluitare fluere flye fluir fluire flwɪ flwir flui kɔ:la:re kule kolar kolare kɔle gela:re zɔle elar ɖelare zilar zilar zɔla ɖɔle glakia:re glase glɔsa glaʃa: inglakia:re infla:re ɔfle imfla ɛfle enfla: umfla konfla:re gɔfle gɔfle zgloŋfa: flamma:re flame flama: flagra:re flagvɛ flagrar flagrare flagvɔɪ flagrar ustula:re ustolare multus molto mol molc mult alguno alkuno əlgu alkɔn alter altro altrə altri alt alius longus lɔ longo lungo lɔgu lɔgu lɔ lunk lung largus larɔ laryo largo larɔgu largu laɖ lark larg la:tus le lato lato latu latu lat amplus ɔpl amplə lurdus luɪ lerdo lordo lerdo lerdo lur pitulus pikkolo piʃul de:lika:tus dɛɔaɔo delikato dɛlikat subti:lem sutil sottile suptil suti:l kalidus kaldo kaldo kaldu calt kald ple:nus plɛ plɛ plɛn plin wetulus malus mal malo malo mal ma:l lwɛtɛ lontano lontan vermikulus galbinus galben amarellus ɛmarelu ɛmɛrelu albus albo albo alvu alb alb illa:k la la la la la la

**m** 006D **2**  
fe:mina fam embra femmina femev femvə fembra fœm femine femeje mulierem muxer moʎle muʎv muʎer muʎe muir mujere domina dam dam ɖəmnə infantem mari:tus maki mariθo marito maridu mɛriθu marit mari:t mɛrit ma:trem mɛv mædre mædre mɛj mære mæri mari animalia omaj alimaja nemal nəmaje piskem awem awikellum passerem kanem serpentem wermem berme verme vɛrmi vermi vɛrm vjerne arborem semen sementis sɔmɔs simjente semente semɛʃi simɛti sɔmen simɛs sementʃe sɔmintʃə gra:num ra:di:kem kortikem flo:rem gra:men gɔamen grama grɛmɛ grɛmɛ gram fu:nem restem pellem karnem sangʷinem ossum adepem o:wum plu:ma plym pluma pjuma plomə plɔm plumɛ



## Appendix 4 - Words containing each segment

dentem pedem gamba gamba gamba kambə ʃambe 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 fi: ka: tum so: lem flu: men ʃume flumi flumi flum lakum mare mēx mar mare maʃ mar mer ma:r mare sa: lem saksum lapidem sabulum pulverem 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 ʃəmē kamino kammino kamiŋu kəmiŋu kəmi ʃimē montem mō monte monte mōʃi mōti mun mō mont munte monta: nea mōtaŋ montapa montapa mōtəŋ mōtəŋ muntapa mōtaŋ montape noctem diurnum annum no: men no: me nomi nomi nōm nume no: minem nombre limbə komedere komer kome kumer manduka: re mōze mandukar mandzare mēzax mēzar məŋza maŋi maŋja: minka morde: re moxəx moxəx mōrdere moxəx murəx mwardi morsika: re moskar morsikare musəga musəgar musəya murseka womere vomix vōmere vom i vqame sintsi time: re temer temere temex timer temə temi teme tremere tremex tremex trimer trima: dormi: re dōxmix dormir dormire dōxmix durmir durmi dwəxmi durmi: dormi muxix morir morire moxəx muxer muri mori muri: muri maktə: re mate matar matax metar mēta maʃa: ʃəmine kaminar kamminare kəmiŋax kəmiŋar kəmina camina: mergere mērdzere mērdze ambita: re tumber tumba tume eksprimere ekspremir spremere iʃprəmə iʃprəmer əspremə esprimi skreme limpida: re limpjar impingere impindzere əmpəŋə impindze komputa: re kumta numera: re numera numera: numara imfla umfla intume: skere entumeθer itumeser itumeser krema: re kəame kemar kremare kəjmare kəjmax krəma flamma: re flame ʃjammare flama flama: omnis multus mu muʃo molto mūjtu mūjtu mol molc mult magnus maŋo maŋjo grandem majjo: rem mare amplus ampjo amplə strimt minu: tus mənɣ menudo minuto miudu miudu mənut mœnu minu: t mərunt subti: lem rekentem malus mal malo malo maw maw mal mava ma: l putrem hebetem sua: wem umido ym umid umed proksimus proximo prōssimo prosimu prosimu proizime prom prosim dekstrum sinistrum vermikulus vəxmēj bermexo vermīllo vəxməlu virməjlu bərməx wiridem amarellus amarijo əmarəlu əmərəlu ekkumhi: k k\*wem k\*o: modo kōmā komo kome komu komu kəm kom ʃjemu: t kum kum

**n**

006E

**4**

fe: mina femmina ʃəmine domina dōnna donə donə dōnə dōne dōamna infantem infante fante nipo nino nenē nenē nen sponsa sponsus animalia nema: l nəmaje kanem kan kane can kijne serpentem serpjente serpente sərpen sarpint se: men sementis simjente semente səmen sementʃe səmintʃə gra: num gʁen grano grano grin gran frondea frondə frunzə ra: di: ki: na ʁasin resen rədəʃinə gra: men gʁamen fu: nem fune funje kwan kotenna konnə kojn karnem karne karne kəni karni karn karne wi: wenda bibjenda vivanda sang\*winem sangwe sinde kornu: kəxn kwerno kōrno kōxnu kornu kərn kwen korn penna pen penna penə penə pən penə panə na: sus ne naso na: so nas ne na: s nas nariθ nariʃe naris nərif na: ris dentem djente dente dint dinte ungula ungja ungje perna pjerna perno pəxnə pərnə pərnə genikulum zənu inoxo dʒinəkkjo zənoʌ dʒenoli dʒenunkʌ manum mano ma: no minə wentrem bjentre bentrə vintri vintre pantikem panθa panʃa pantse pintəʃe intera: nea entrəpə əntrəpə sinus seno seno sen san pwatʃin pwetrin anima anime inimə lu: na lyn luna luna lūnə lōn lune lunə flu: men hare: na arena ərenə arən arinə savalon nu: be: s ny nube nube nuvēj nuvēj nu: bilus nublo nuvola nuvol nu: l nor ka: li: ginem kalina kalidʒine nebula njebla nebbja nəvwə nəvwə newlə njyl negurə tene: braj tē: nebre tene: bra: s tenebʁ tinjeblas tē: nebre tanebrəs wentum bjento vento ben 'vint vint niwem njebe neve nevi nevi new nivaj ne: f nə kinerem ʃenere sendrə θeniθa ʃinize ʃjenuʃə kammi: num kamino kammino montem monte monte mun mont munte monta: nea montapa montapa muntapa mōntape noctem nʃi nʃʃe nōtte nojt i nojt i nit nyt nqapte diurnum djurno dʒorno zorn zəŋna zəŋna diurna: ta zʁnə xornada dʒornata dʒornade annum anno ənu ənu an no: men nō no: me nomi nomi nōm nō nōŋ nume no: minem nombre ling\*a lingwa 'lengə no: s nu nos no: i nɔjs nɔʃ no no: noj manduka: re mandukar mandzare minka konspuere kogno: skere kōnəʁ konoθer konoffere kunəʃ kinəʃ kunqaste pe: nsə: re pensar pensare pənsa senti: re sentir sentire sənti sinti: neka: re nwaje nəga neka anegar annegare pugna: re skindere ʃindere findere ender fendere fendrə pungere pundzere pundze nata: re nadar nwotare nadax nəðar nəda nada: naviga: re naze nabegar navigare naviyax nəviyax nəbəga nəji naviga: naviga ʃəmine kaminar kamminare kəmina camina: andar andare weni: re vənix benir venire bəni vini veni ekstendere ekstender estendere əstendrə ekstinde sedenta: re sentar senta: torna: re tʁnə tornar tornare toznax turnar turna turne torna: turna dona: re dōne donar donare duna dine dona: tene: re tənix tener tenere təni tini tinji tsine stringere strindzere strēnd strēngi: strindze impingere impindzere impindze lankea: re lanθar lanʃare lənsa lanʃa: e: runka: re arankar arrontʃare ko: nsuere kontar kontare konta: numera: re nōbʁe noverare numera numera: numara ekspo: nere spune kanta: re kantar kantare kənta canta: kinta inglakia: re ingetsa infla: re inʃar enfiare enfla: konfla: re gonʃare intume: skere entumeθer inkendere enθender inʃendjare isendʒar ənsendrə inʃindze omnis tantus tanto tanto tant tanc alguno alkuno alkən magnus grandem grande grande gran grant longus longo lungo lunk lung anʃo 'pittinus pittino pekenu pikenu putsin angustus angosto angusto minu: tus mənɣ menudo minuto mənut mœnu minu: t mərunt rekentem reθjente reʃjente retsint ple: nus ləno pjə: no plen plin nowus nuvo nweʃo nəvo novu novu nɔw nu now bonus bwenə bwəno bən bən bun rotundus redondo ritondo tarənt rətund nitidus net niθio netto nədʒu nədʒu net net net neted wi: ki: nus beθino vitino vitin vətʃin lontano lunta lontan sinistrum sənəstəx sinjestro sinestro galbinus zon dʒen galben u: nus uno un un unu

k\*w: ink\*wə θinko ʃinʃ kjen ʃine k\*ando: kwando kwando kwan kwand kwant kind no: n nō no non nəw nəw no nō no nu nek ni ni ne nəj nəj ni ni in en in ən en in deintus dins kon kon

## Appendix 4 - Words containing each segment

O 006F

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mołłe domina dojna done done nipo nino sponsa esposa ispoza ifpoze mariđo marito sponsus esposo spozo ispozu ifpozu sokius sołfo sots omaj wazo utfello paxaro passero pjoxo pidakkjo piołu piołu poł pedoli arborem arbol albero akvori arbore palo palo fruto frutto grano grano folia oxa fołe fołe frondea frondza kortikem kortiŕe kortikea korteŕa kortetŕa kortŕise skortea ekoks flor floł flor kotenna kođŕie kodie konnə po ossum weso osso osu osu os webo wəvo ovu ovu ow kornu: kwerno kərno kənu kornu korn kola koda plomə pelo pelo kabejo kapello ovej orexa orekkja orełe orejłe orele okulus oxo əkkjo ołu ołu voli ok' naso na:so boka bokka bokə bokə bokə gola gola golə perno petiolus peŕiolo pittŕolo pekol piŕŕor inoxo đzinəkkjo zənoł đzenoli mano ma:no kollum kwejo kollo ko dorsum do dosso dos do do epol seno seno peŕfo petto kor kor iyađo fegato sol sole solikulus soreli o pjodđza ploje rio rio lago lago sasso sorə polvere polbo pols nublo nuvola nuvol nor ʒjelo ʒfelo bjento vento jelo đželo umo fumo fokum fwego fwəko fogu foyu fok kamino kammino montem monte monte monta:nea montajna montajna noctem noŕe djurno đžorno zorn xornada đžornata đžornade apo anno nomi nomi nombre jo io jo nos no bos vof vo vose voste komedere komer kome morde:re morđe morđer mođde morsika:re moskar morsikare konspuere womere vomis vomi soffjare sofła: vjodi oir owvix owvir kogno:skere konoder konoffere kopeseł koposi kođŕitare ole:re oler olire odo:ra:re odorare dormi:re dormir dormire dołmiz dormi morir morire mołeł okki:dere kortar kortar skortare kosał fodere nwtare wola:re vole bolar volare voał zvolare zvolə: ose torna:re tornar tornare tołnał torna: tork'e:re torŕer donare donar donare doa dona: appektora:re ftoe frotar arronŕare koser komputa:re kontar kontare kote konta: noverare sporre joka:re đžokare zogax kolar kolare koax skorrere iŕkoveł əskorə skori: korer korrere koveł korə kori konfla:re gonŕare zgloŕa: ustolare omnis oŕŕi todo tutto todə todə tot tot muŕfo molto mol molc tanto tanto okəł alguno alkuno poko pəko powku powku po otr otro altro owtru owtru ot mapo mapno longus longo lungo loŕj larŕo largo lato lato anŕfo ampjo graso grasso espeso spesso gordo grossus gŕo grasso grosu grosu gros lerdo lordo lerdo lerdo pekepo pittfino pikkolo korto korto angosto angusto estreŕo stretto menudo minuto delyađo delikato sottile ʒo kaldo kaldo ʒfo frio freddo leno pje:no nowus nuvo nweŕo nəvo novu novu now bjexo vekkjo bonus bweno bwəno malo malo pođriđo putrido pođre podri pođri sordidus sordido sərđido spərko dritto rotundus redondo ritondo rədo ayuđo retuzo soave niđio netto umido seko sekko korre:ktus korretto proksimus proximo prəssimo prosimu prosimu proizme prom prosim adpropre presso beŕino viŕfino lontano lontan djestro destro sinjestro sinistro roxo rosso wofu wofu ros rofu bermexo vermiłło rubjo rəbbjo rubeo rubeo zon amarijo krokeus kroŕeo albo albo uno uno dos dos dowə k'attwor kwatro kwattro ʒinko kwando kwando k'o:modo komo kome komu komu kom no non no no kon kon abhoc k'od

p 0070

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sponsa epuz esposa spozə ispoza ifpoze əspəzə sponsus epu esposo spozo ispozu ifpozu əspəzə spo:s patre peł padre pa:dre paj paj parə per pari piskem peŕ peŕŕe peŕŕi peŕŕi peŕ peŕ peŕte pwasə pehə passerem paxaro passero paseru paseru pasere peduklus pu pjoxo pidakkjo piołu piołu poł pju pedoli pədukje serpentem sełpə sełpjente serpente sełpəŕŕi sełpəŕi sełpen sełpə sełpint ʒarpe əp pa:lus pal palo palo paw paw pal pa pał par jep pellem po pjel pelle peli peli peł pe pjel pjele adepem adipe plu:ma plym pluma pjuma plomə pləm plumə penna pen peja penna penə penə peja pen pene panə pilus pwal pelo pelo pelu pilu pel pwel peł pər kapillus kapello kapitia kap kap pedem pje pje pje:de pe pe pəw pi pit piez đžəp perna pjerna perno pərne pərne perna petiolus peŕiolo pittŕolo pekol piŕŕor pantikem pəs panŕa panŕa pəse pəse panŕa pəs pante pinteŕe spatula epol espalda spalla iŕpadwe iŕpadwe əspałłə spal spale spate pektus pi peŕfo petto pejtə pejtə pit pet pjept pwatxin pwətrin apə pluwia plūi pjodđza plužə pləf ploje pləaje ri:paria petra pjeł pjeđra pje:tra pedre peđre peđrə pił pje:re pjatrə lapidem lapide pulwerem pudə polvere polvar pulbere pulwus polbo pə pə pols nqapte konspuere kəspye kuspiz kufpir eskupir əskupi skujpa sputere esputar sputare spuda: respi:ra:re respirar respirare wəspirar wəspirar rəspira respira: sapere sapere pe:nsa:re pəse pensar pensare pəsax pəsar pənsa pəse peŕsa: pəsa pugna:re pujał pujałare pujał kaptia:re pulsa:re puse puxar pulsare puŕax puŕar pulsa: pulsa parti:re paktiz partir partire paktiz partir pərti parti parti: se:para:re separar separare separax sełperax sełpəra separa: separa pungere pwėđeł pundgere pūziz pūzir puji pōd pundže eksprimere epwėđeł ekspremir spremer iŕprəmeł iŕprəmer əspremə esprimi appektora:re apretar epirtar epirtar limpida:re limpjar lipar lipar pulsa:re puse puxar pulsare puŕar puŕar pu:si: pulsa: pulsa impingere impindgere əmpəja impindže apta:re komputa:re ekspo:nere sporre spune pałkus pə poko pəko powku powku pək po po:k amplus əpl ampjo amplə əp spissus epe espeso spesso ispesu ifpesu əspes spe pittitus pəti pətił piti 'pittinus pekepo pittfino pekenu pikenu putsin pitulus pikkolo piŕŕul suptil ple:nus plė pje:no pte plė plen plin putridus pođriđo putrido pođrit putred putrem pođre podri pođri spurcus spərko ispurku iŕpurku spərku spurk drept proksimus proximo prəssimo prosimu prosimu proizme prom prosim adpropre əpɾəp əpɾəpe pressus pte presso pre patru

r 0072

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mulierem mui:ř mujere mari:tus marito mari:t mərıt mətrem mət:re mer mari patre pa:dre per pari passerem passero serpentem serpente sełpen sełpə sełpint wermem verme vjer vjer vjerme arborem arbul arbore fru:ktus frutto fryt frut

## Appendix 4 - Words containing each segment

frukt gra:num grano grin gran griw frondea frondza ra:di:kem raiθ ærl ra:di:ke radi:fe ra:di:ki:na resen rədəʃfina kortikem kortiʃe kortikea kortetʃa skortea skortsa əskorsə skwartse flo:rem floer flo: herba erba jarbe gra:men restem resta karnem karne karn ʃar car krəh kornu: korno korn kwar korn o:rikla orekkja orele ureke nariʃe nari:s perna perno perna piʃfor wentrem vintri vintre intera:nea dorsum pwetrin kor kwore kor ku:r soreli ri:wus rio rio riw re riw ri:paria rivi:r mare mare mar mer ma:r mare sare petra pje:tra pje:re hare:na aren arina sorə pulwerem polvere polvar pulbere terra tjera terra tərə tjere tsarə nor negurə tene:braj tene:bre tene:bra:s tene:bre sir dʒer kinerem ʃenere sendrə stra:ta strada diurnum dʒorno diurna:ta dʒornata dʒornade bibere komedere manduka:re morde:re mordre mwardi morsika:re morsikare musəgar murseka su:gere konspuere sputere womere vɔmere suffla:re soffjare respi:ra:re respirar respirare rəspara respi:ra: ri:de:re reir ri:de:re riwrə rir ridi wide:re aʊdi:re ski:re sapere sapere kogno:skere konoffere ko:gita:re kodʒitare pɛnsa:re senti:re sentire olɛ: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 mɔri muri: muri neka:re annegare tu:ta:ri makta:re okki:dere pugna:re puɲɲare battuere battere kaptia:re katʃare pulsa:re pulsare seka:re segare kurta:re ekskurta:re skortare skurta: skurta ta:lia:re ta:la:la:re di:widere dividere skindere findere findere fɛndere parti:re partire pərti parti parti: se:para:re separare separa: separa pungere pundʒere jugula:re jugula:re ra:dere raer radere rawrə rada: rade rasar rasare rəza rasa: raskar rəska fodere kawa:re kavare ekskawa:re skavare nata:re naviga:re navigare wolə:re mergere mɛrdʒere mɛrdʒe ambita:re andare weni:re ekstendere estendere jake:re dʒir sedɛ:re sedere sedenta:re sta:re stare leva:re levare altsare torna:re tornare turna turne torna: turna gyra:re dʒirare dʒira: virare vire dʒira: torkʷe:re tɔrtʃere turser turser tɔrsə tɔartʃe kadere kawrə ʃer dare dare dar dona:re donare tene:re eksprimere sprɛmere iʃprɛmɛs iʃprɛmɛr esprimi skreme serrere serar sɛra serare ʃerar serrare sere appekto:re stringere strindʒere əʃtri:zɪr əʃtri:zɪr strɛnd strɛngi: strindʒe frika:re fregare frɔʒi frea freka frikta:re frettare frɔte frisar lawa:re lavare tergere tɛrdʒere ekstergere əstərʒi ʃterdʒe eksu:ka:re affugare limpida:re tira:re tirare tire tira: pulsa:re pulsare trahere trarre traj tradʒe impingere impindʒere jakta:re dʒettare lankea:re lanʃare e:runka:re arankar arrontʃare ligare legare apta:re ko:nsuere kutʃire komputa:re kontare numera:re noverare numera: numara di:kere dire dir ekspo:nere sporre kanta:re kantare lu:dere joka:re dʒokare flu:ktua:re fluttuare fluita:re fluitare fluere fluire ko:la:re kolare ekskurrere eskurir skorrere əskorə skori: kurrere korer korrere korə kori gela:re dʒelare glakia:re gjattʃjare inglakia:re infla:re enfiare konfla:re gonʃjare intume:skere kre:ske:re kreffjere krema:re kremare krəma flamma:re fjammarde arde:re ardere flagra:re flagrare inkendere infɛndjare ustula:re ustolare ustura alter altro altri grandem grande gran grū grant majjo:rem largus largo lark larg krassus grasso kra gras gras gurdus grossus grasso grwes gros grawis greve grav grevi lurdus lordo lur kurtus korto kur kurt brewis brɛve bref striktus stretto strɔ: stret s trimt mərunt subsire fri:gidus freddo frɛt rekentem reθjente reʃɛnte retsint reʃɛ putridus putrido putred putrem sordidus sordido spurcus spɔrko spɔrk spurk di:re:ktus dritto drɔ dret drept rotundus redondo ritondo rɔdo rɔ tarɔnt rɔtund retu:sus retuzo korre:ktus korretto proksimus prossimo prom prosim adpropre aprɔape pressus presso prɛ kirka dekstrum destro djestr djestri sinistrum sinistro sinestri russus roxo rosso ros rɔdʒ rɔs vermikulus vermila:lo bərme:la rubeus rubjo rɔbbjo rubeo rubeo rudʒe rɔʃf rojb wiridem verde ver vɛrt amarellus krokeus krotʃeo tre:s tre tres trɔs 'tre: trej kʷattwor kwattro kwatri patru

S 0073

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sponsa esposa spɔza ispoza əspɔzə maritus sponsus esposo spɔzo ispozu əspɔs spo:s sokius sɔʃfo sots be:stia bies bis piskem pɛs pwasɔ use:la passerem passero pasɛru pasɛru pasɛre peduklus serpentem sɛrpɔ sɛrpjente serpente sɛrpɛʃi sirpɛti sərpen sɛrpɛ sarpint silwa selba selva sɛwva sɛlve selba selve pa:lus fru:ktus se:men seme sementis sɛmɔs simjente semente semɛʃi simɛti sɛmen simɛs semenʃe sɛminʃə frɔsɛ frɔsɛ ʷais ʷasin resen kɔʃʃisi kortisi kɔʃʃisɛ kurtisɛ skortea ekɔs skortsa əskorsə hwɛs skwartse skɔartsə restem rista resta sangʷinem sɔ sangre sangwe sɛgi sɛgi sanj sɔg sanj sinʒe ossum ɔs weso ɔsso osu osu ɔs vwɛs os gʷɛs grasa pilus kapillus kavettsa kabɛsɛ kɛʃɛsɛ ʃɛs testa testa tɛstɛ testə ʃɛs tɛstɛ tɛʒastə okulus na:sus naso na:so nas na:s nas naris na:ris petiolus pɔs pɛsɛ pɛsɛ pɔs dorsum dɔsso dos dwɛs spatula espalda spalla əspa:la:la spal spale spate sinus sɛ seno seno seju seju si sen san pektus so:lem sol sole sɔw sɔl sɔl sɔare solikulus sɔlɛj sɔlɔ soreli ste:lla estreja stella istrelɛ əstɛl stɔɛl stele stɛa ri:wus sa:lem sel sal sale saw sal sal se sa:l sare saksum sasso sejʃu sejʃu sabulum sabl sajʃru sajʃru sorə savjɔ savaln sabula sabbja pulwus pols nu:be:s nu:bilus tene:bra:s tinjeblas trevɛs tɛnebrəs fuməsɛ fuməsɛ sjɛl sɛw sɛw sel sir glas glas gles fu:mus sɔdɔ sendrə sɛt sɛzɛ sɛzɛ size stra:ta estrada strada istradɛ die:s no:s nos nojs wo:s bos vojs bus usted vɔse vɔse voste morsika:re moskar morsikare musəga musəgar musəya murseka su:gere syse sugaɁ sugar sysi suʒɛ konspuere kɔspye kuspɪx eskupir əskupi skujpa sputere esputar sputare spuda: suffla:re sufle soffjare sɔfle sofla: sufla respi:ra:re respirar respirare ɛsrespirar rəspara respi:ra: ski:re sapere savwaɁ saber sapere sabɛx sɛber sɔʃɛ savɔr save: kogno:skere kɔnesɛx kɔniser kɔnosi pɛnsa:re pɔsɛ pensar pensare pɛsɔx pɛsar pɛnsa pɛsɛ pɛɲsa: pɔsa senti:re sɔtiɁ sentir sentire sɛʃʃiɁ sɛtir santi sɛti sinti: simtsi ɔksɪx uksi fase kasɔx kɛsar kɛsa ʃɛsi pulsa:re puse pulsare pulsa: pulsa seka:re sje segar segare segaɁ siyar sɛya sea: ekskurta:re skortare skurta: skurta skindere sɛde se:para:re sɔvɛ separar separare separaɁ sipɛrar sɔpəra separa: separa rasar rasare rasa: raskar rəska kosaɁ kusar ekskawa:re eskabar skavare ekstendere ekstender estɛndere istɛdɛx əstɛndrə ekstinde jesi sedere swaɁ ser sedere sɛx ser sedenta:re sentar sɛtar sɛtar senta: sta:re estar stare əsta sta: sta ose aɁsa aɁsar aɁsa turser turser tɔrsə segurar siguraɁ siyurar eksprimere ekspremir sprɛmere əsprɛmɔ esprimi skreme serrere serar sɛra sɛrar

## Appendix 4 - Words containing each segment

səra serare səxə serrare sɪxar sɪxar sere stringere estrepɪr strɪndʒere əstɹɛpə strɛnd strɛngi: strɪndʒe frɪsar frasa ekstergere estarsɪr əstərʒi eksu:kare esɹijje sye suja: uska pulsa:re puse pulsare pu:si: pulsa: pulsa ləse ləsa ləsar lənsa ləsi kɔ:nsuere koser ɔ:ase eksɔ:nere sporre spune ekskurrere eskurɪr skorrere əskorə skori: skurdʒe glase glasa intume:skere itumeser itumeser kre:ske:re kresex kɹɪfser ɛsədʒe ɪsɛndʒar ɪsɛdʒar ənsendrə ustula:re ustolare ustura omnis to:tus multus tantus paɹkʊs alius magnus longus largus la:tus amplus krassus graso grasso gras gras gras spissus espeso spesso ispesu ifpesu əspes spɛ gurdus grossus grɔsso grosu grosu grɔs grwɛs gros grawis lurdus pittitus 'pittinus pitulus kurtus brewis angustus angosto angusto ɪngust striktus estrefjo stretto istrejtu əstɹɛt strɔ: strɛt strɪmt minu:tus de:lika:tus subti:lem sutil sottile suʃiʊw suʃiʊw suptil suti:l subtsire kalidus frigidus kəsɛʃi kəsɛʃi ple:nus nowus wetulus bonus malus putridus sordidus sordido sɔrdido sɔrdidu sɔrd

idu spurcus spɔrko ispurku spɔrk spurk di:re:ktus rotundus aku:tus retu:sus sua:wem soave suaw nitidus u:midus u:duš sikkus sek seko sekko seku seku sɛk sɛʃ sɛk sɛk korre:ktus proksimus prɔssimo prosimu prosimu prosim pressus presso wi:ki:nus dekstrum djestro dɛstro destru destrə dʒestr dʒestri sinistrum sənɛstɹ sinjestro sinestro sɛʃtru sɛʃtru sɛpɛs sɪpɛstri russus rosso ros rɔs vermikulus rubeus galbinus amarellus krokeus albus u:nus duo:s dos dojs dos dɔ:s duas dues tres tres tres trəs sɛk siku siku sɪnk sɛk kʷis deintus dins si:k si si si sɪ sɪ si si si

**t** 0074 26

infantem infante fante ɪfɛti mari:tus marito marit mari:t mɔrit ma:trem patre tata tata tata tata tata tata tatə be:stia pɛfte utʃello serpentem serpjente serpente sɪrpɛti sarpint fru:ktus fruto frutto frutɛ frutɛ fruʃt fryt frut frukt sementis simjente semente simɛti kortikem kortiʃe kɔrtisi kortikea korteθa kortetʃa kurtisɛ skortea restem rista rɛsta ɹɛsti kotenna kapitia kavettɪsa testa tɛt testa tɛstɛ tɛʃtɛ testə teste tɛstə dentem djente dente dɛti dint dinte pi:t petiolus pitʃɔlo wentrem vɔtɹ bʒentre bentrə vɛt vintri vintre pantikem pinteʃe intera:nea ɔtɹaj entrəpə ɪtɹɛpə ɛtɹɛpə əntrəpə spatula spate pektus petto pejtu pejtu pit pɛt pjept pwatɹɪn pɹɛtrɪn fɪka:tum fegato fɛt fɪja:t fikət ste:lla etwal estreja stella istrelɛ ɪʃtrelɛ əstɛl stɔɛl stele stɛa la:t petra pje:tra pjatrə terra tɛɹ tjera terra tɛɹɛ tɛɹɛ tɛrə tɛɹ tjere tene:braj tɛ:nebre tene:bra:s tenebɹ tinjeblas tɛ:nebre trɛvɛs trɛvɛʃ tənɛbrəs fuma:ta fumata fuma:ta fumate wentum bʒento vento vɛtu vɛtu 'vint vint gjatʃa sɛt stra:ta estrada strada istradɛ ɪʃtradɛ montem monte monte mɔti mɔnt muntɛ monta:nea mɔtəpə montəpə montəpə mɔtɹɛpə mɔtɹɛpə muntəpə mɔtəpə montəpə noctem nɔtte nojti nojti nit nyt nɔt nɔapte diurna:ta dʒornata tu: ty tu tu tu tu tu ti tu tu usted voste sputere esputar sputare ʃti kɔnɛtɹ kunʒafte ko:gita:re koʒɪtare kuʒitaɹ kuʒitar kuʒɛta senti:re sɔtiɹ sentir sentire sɛtiɹ sɔnti sɛti sinti: time:re temɛr temere temɛɹ timer temə temi teme tremere tremɛr tremare tremɛɹ trimer trima: tu:tari tʃɛ tuwe makta:re mate matar matəɹ mətə utʃɪdere battuere batɹ batir battere batɛɹ bɛtɹ batrə bat bati bate kaptia:re katʃare kurta:re kortar kɔtəɹ kurtar ekskurta:re ekuste skortare skurta: skurta ta:lia:re tɹje taxar taʃla:re taʃaɹ tɛlar tɛla teji taja: taja parti:re pɹɔtiɹ partɪr partire pɛtiɹ pɔrti parti parti: nata:re nɹɔtare ambita:re ekstendere etɔdɹ ekstender estendere ɪstɛdɹ ɪʃtɛdɹ əstɛndrə ekstinde sedentare sentar sɛtar sɛtar senta: sta:re etɹ estar stare ɪʃtar ɪʃtar əsta sta: sta torna:re tɔɹne tornar tornare tɔɹnəɹ turnar turna turne torna: turna torkʷ:re tɔɹdɹ tɔɹθɛr tɔɹʃɛre turser turser tɔɹsə tɔɹarʃe tɔbe tumbat tɔbəɹ tɔbar tumba tume tene:re tɔniɹ tener tenere tɛɹ tɛr tɔni tini tinji appektora:re apɹetar ɛpiɹtar ɛpiɹtar stringere etɹɛdɹ estrepɪr strɪndʒere əʃtɹɪʒɪr əʃtɹɪʒɪr əstɹɛpə strɛnd strɛngi: strɪndʒe friktare frɔte frotar frettare frɔte tergere tɛɹdʒere ekstergere estarsɪr əstərʒi ʃtɛrdʒe tira:re tɹɛ tirar tirare tirar tira tire tira: trahere tɹəɹ trarre traze trɛzɛr tɹɛwɹə traj tradʒe jaktare ʒɔte dʒettare ʒejtar ʒejtar xita dʒete apta:re atar ɛtar ɛtar komputa:re kɔte kontar kontare kɔtar kɔtar kumta kote konta: kanta:re ʃɔte kantar kantare kɛtar kɛtar kɔnta ʃɔte canta: kinta flu:ktua:re flyktʃe flugtwar fluttuare flutuəɹ flutuar fluktua fluctua fluita:re fluitare gjatʃʃare intume:skere entumeθɛr itumeser itumeser kɹwatɹ kreʃte ustula:re ustolare ustura to:tus tu todo tutto todɹ todɹ tot tɔ dut tot multus molto mɹʃtu mɹʃtu mult tantus tanto tanto tɛtu tɛtu tant tanc alter ɔtɹ ɔtro altro owtru owtru altrə ɔt altri alt grant la:tus lato lato latu latu lat pittitus pɔti pɔti piti 'pittinus pitʃino pitulus kurtus korto korto kuɹtu kurtu kurt kurt angustus angosto angusto ɪngust striktus etɹwa estrefjo stretto istrejtu ɪʃtɹɛjtu əstɹɛt strɔ: strɛt strɪmt minu:tus minuto mɔnut minu:t mɔrunt de:lika:tus delikatɔ dɛlikat subti:lem sutil sottile suptil suti:l calt frɛt frɛt rekentem rɛθjente rɛʃtente rɛtsint wetulus putridus putrido puθɹit putred putrem di:re:ktus dritto dʒɹejtu dɹɛjtu dɹɛt dɹɛt drept rotundus ritondo tarɔnt rɔtund aku:tus əgʊt hebetem ɛbete retu:sus retuzo nitidus nɛt netto net net net neted korre:ktus korretto lwɛtɛ lontano lɔnta lontan dekstrum djestro dɛstro destru dɛʃtru destrə dʒestr dʒestri sinistrum sənɛstɹ sinjestro sinestro sɛʃtru sɛʃtru sɪpɛstri vɛrt vɛrt tres tɹwa tres tre tres tref tres trəs 'tre: trej kʷattwor katɹ kwatro kwattro kwatru kwatru kwatrə kwat kwatri patru kwant ʃfemu:t deintus et

**u** 0075 13

mulierem muxer muʃɛɹ muʃɛr muʃe muɪ:r mujere epuz mari:tus maridu mɛriðu sponsus epu ispozu ɪʃpozu sokius awikellum utʃello useʃ uhe utʃɛl pasɛru pasɛru peduklus pu pioʃu pioʃu pju pɔdukje arvuri arbul paʃus fru:ktus fruto frutto frutɛ frutɛ fruʃt frut frukt gra:nɹum fuʃə fruɹzə kurtisɛ fune funje ossum osu osu o:wum ovu ovu u kɔɹnu kɔrnu kua pluma pjuma plume pilus pelu pilu kapillus kabelu kɛʃɛlu ureʃə ureke okulus oʃu oʃu uʃ na:sus bukka buʃ bukə gula gurə ungula uɹə unʒja uɹɛ uɹɛ ɔɹgule unʒje petiolus genikulum ʒənu ʒueʃu ʒwɛʃu dʒɛnunk' manum kollum ku

## Appendix 4 - Words containing each segment

kolu kolu dorsum spatula sinus seju seju pektus pejtu pejtu kuṣ fi:ka:tum figedu fiyeḏu solikulus luna luna lue lue ḥuna lune lunə pluwia jubja juve juve pluḡa fjume flumi flumi flum ri:wus xiu lakum lagu layu saksum sejfu sejfu laude sabulum sajbru sajbru sabula pulwerem pudḡ pulbere pulwus nube nube nuwēj nuwēj nu:bilus nublo nuvola nuvol nebula negurə fumata fuma:ta fumase fumase fumate kajlum wentum vētu vētu fu:mus umo fumo fumu fumu fum fum fum fokum fogu foyu fjenufə kammi:num kamjnu kemjnu mun munte muntanə dʒu diurnum zuḡ djurno diurna:ta zuḡne annum enu enu nume nu vu bus tu tu tu tu tu tu tu tu ustd kumer manduka:re mandukar murḏer musəga musəgar musəya murseka sugaḡ sugar cuca: suḡe konspuere kuspis kuspis eskupis askupi skujpa sputere esputar sputare spuda: suffla:re sufle sufla udire ui uldi: kupiser kunefə kunqaste kuzitaḡ kuzitar kujda kuḡeta ulura durmir durmi durmi: muḡis muḡer muri muri: muri tuwe utfidere uksi ufide pugna:re puḡar puḡpare puḡa battuere pulsa:re puse puxar pulsare puḡaḡ pufar pulsa: pulsa kurtare kurtar ekskurta:re ekuste skurta: skurta pungere pundḡere puḡi pundḡe jugula:re jugula:re kusar bula zbura lua tuḡne turnar turna turne turna turser turser tumbatumba tume duar duna segurar siguraḡ siḡurar affugare efugar efuyar əfuga suja: uska pulsa:re puse puxar pulsare puḡar puḡar pulsa: pulsa e:runka:re aruḡka ko:nsuere kudḡ kuḡfire kuzer kuzer kuzi kuzi komputa:re kumta numera:re numera numera: numara spune ludir xugaḡ zuyar zuga dʒuwe dʒuja: zuka flu:ktua:re flugtwar fluttuare flutuəḡ flutuar fluktua fluctua fluita:re fluitare fluere fluir fluire flui kule kuar kuḡa ekskurrere eskurir ifkurer skurḡe kurrere kuḡis kuḡer kurḡe umfla intume:skere entumeḡer itumeser itumeser ustula:re ustolare ustura to:tus tu tutto todū toḡu dut multus mu muḡo mūjtu mūjtu mult tantus tētu tētu alguno alkuno əlgu paḡkus powku powku owtru owtru alius magnus longus lungu lōḡu lōḡu lunk lung largus laḡu largu la:tus latu latu amplu eḡu eḡu krassus graḡu spissus ispesu ifpesu gurdus grossus grosu grosu lurdus luḡ lur pittitus 'pittitus pekenū pikenu putsin pitulus piḡul kurtus kuḡ kuḡtu kurtu kurt kur kurt angustus angusto iḡgust striktus istrejtū iḡtrejtū minu:tus menudo minuto miudu miuḡu mənūt mənū mənūt de:lika:tus dewgaḡu deḡyaḡu subti:lem sutil sufiw sufiw suptil suti:l subtsire kalidus kawdu kaldu fri:gidus friu friu ple:nus seju seju nowus nuvo novu novu nu wetulus vējlu veḡu bonus bun malus putridus putrido puḡrit putred putrem sordidus soḡridu soḡridu spurcus ispurku ifpurku spurk di:rektus dʒirejtū direjtū rotundus rəḡoḡu rəḡoḡu rəḡund aku:tus əyūḡo əyūḡu əḡut retu:sus retuzo sua:wem suaw nitidus neḡu neḡu u:midus umido umid umed u:ḡus ud sikkus seku seku korre:ktus proksimus prosimu prosimu pressus wi:ki:nus vizipnu vizipnu ḡunta dekstrum destru deḡtru sinistrum seḡtru seḡtru russus xū xofu roḡu vermikulus vēḡmeḡu vimejlu rubeus ruḡ ruḡo rubeo rubeo ruḡe galbinus amarellus emarelu emereḡu krokeus albus awvu a lvu u:nus uno uno un uḡ unu duo:s duaj due duas dues duḡ kwatru kwatru patru siku siku ekkumhi:k kwēdu kwēdu komu komu kum nu deintus kum ku avu

V 0076

50

avi avi vēḡ verme vēḡmi vermi verm vjer vjer vjerme aḡvori arvuri selva seḡwa seḡve selve eḡve eḡve vjād vivanda vivēda vivēde vwes wəvo ovu ovu fəvə dʒive cavej fəve kavettsa voli vātḡ vēt vintri vintre juve juve xivjeḡ rivir savjḡ savalən polvere polvar nuwēj nuwēj nuvola nuvol neḡwe neḡwe treves treveḡ vā vento vētu vētu vē 'vint vint neve nevi nevi nivaj vwa via vie vie voj lēv vu voi vḡjs vḡf vo vo: voj vose vḡse veste bevi vomis vḡmere vomi vḡame vwaḡ vedere vēḡ ver vej vjodi vedeḡ owviḡ owvir savwaḡ savḡr save: vivḡ vivere viveḡ viver vivi via dividere dʒividḡis diviḡir dividi divide səḡve fəve kavare keḡaḡ keḡar tʒave ḡava: skavare ifkeḡaḡ ifkeḡar zḡava: naviga:re navigare naviḡaḡ neviḡar naviga: naviga vole volare voaḡ vwar vḡle zvolare zvola: vənis venire viḡ vir vini viji: veni leva:re ləve levare leḡaḡ livar leve leva: viḡe virare virar vire lave lavare leḡar leḡar lave lava: noverare greve gravi gravi grav gravi breve brevi brevi nuvo nḡvo novu novu vjḡ vekḡjo vējlu veḡu veḡ vi vjei vek' mava soave vwazē viḡfino vizipnu vizipnu vēḡe viḡfin vēḡfin vermikulus vēḡmej vermiḡḡo vēḡmeḡu vimejlu vēḡ verde verdī verdī vērt ver vērt verde awvu alvu vi avek avu

W 0077

47

pwasḡ awem aw awikellum wazo wermem silwa seḡwa paw paw fwee hwes skwartse kwan wi:wenda sangwe weso vwes o:wum webo wəvo ɔw ow kwerno kwen kwar kḡw pwal pwel pḡw zḡeḡu wentrem kwejo kwel dwes ifpadwe ifpadwe pwatḡin pwetrin kwḡre awmḡ fwa sḡw etwal aywa akkwa agwḡ agwḡ ajḡwḡ ew pluwia ri:wus xiw riw riw saw pulwerem pulwus neḡwe neḡwe newlḡ seḡ seḡ wentum niwem new fwego fwḡko wia vwa lengwa lingwa ligwe ligwe leḡḡwḡ ew ew jew wo:s bwaḡ beḡwḡ mwardi womere riwḡ wide:re vwaḡ beḡwḡ wiḡ owviḡ owvir savwaḡ kwidar dwḡmi wi:were biwḡ nwaje tuwe di:widere pwēḡḡ rawḡ fwis kawa:re ekskawa:re nwotare wola:re vwar weni:re zawḡ swaḡ fwaḡ kawḡ lawa:re treḡwḡ zḡe dʒuwe flugtwar flwiḡ flwir kḡwatḡ awḡū powku powku owtru owtru aw grwes grawis grew grew brewis brew etḡwa dewgaḡu sufiw sufiw kawdu fḡwa nowus nweḡo nḡw now wetulus bweno bwono maw maw dḡwa sua:wem suaw wi:ki:nus vwazē lwēḡe wiridem awvu dowḡ tḡwa k"attwor kwatru kwattro kwatru kwatru kwatḡ kwat kwatri tʒiḡkwe kwi kwi kwa kwe kwando kwando kwēdu kwēdu kwan kwand kwant

X 0078

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

## Appendix 4 - Words containing each segment

<b>y</b>	0079	61
fryt plym lyn ky ny njyl fyne nyt ty syse sysi kōspyē zygylye gyra:re sye flyktqē flye māny agy ym		
<b>Z</b>	007A	35
epuz spōza ispoza iſpoze əspōzə spōzo ispozu iſpozu wazo frunzə piez sīze sīze ſfinize zi auzi kaze kazar kazar rəza zjava: zvolare zvola: zbura zeziz zezek zezet zəſſe traze trezer kuzer kuzer kuzi kōz kuzi dizer dizer zifſe zgloſfa: retuzo proizme vwazē viziju viziju		
<b>Ǿ</b>	00F0	37
mariǾ mēriǾ mādre paǾre iyaǾo fiyeǾu pjeǾra peǾre peǾrə iſtraǾe morǾer murǾer diviǾir neǾar toǾu miuǾu delyaǾo deſyaǾu poǾriǾo puǾrit poǾre poǾri ayuǾo eyuǾu niǾio		
<b>ō</b>	00F5	48
pwasō pehō frōse frōse ōgl mōſfi mōti mōtan mōtēne mōtēne tōbe tōbak tōbar kōte kōtar kōtar gōfle lōgu lōgu bō bō bō kō kō kōdōdu kōdōdu kō kō		
<b>ø</b>	00F8	73
kø fəvø løn fə bøk savør kōz pø frø vjø drø dø trøs		
<b>ĩ</b>	0129	28
ifēſi ifēti itreſne sīze sīze kamīnu ligwe ligwe əſtriſir əſtriſir lipar lipar iſar iſar itumeser itumeser isendſiar isēdſiar siku siku sī sī		
<b>ŋ</b>	014B	70
sarſgre sarj sarſk ɔſgule marj aſ nɔſ lengwa ʌeſgwa marja: peſsa: aruſka zgloſfa: ʌoſ iſgust uſ ſſiſkwe ſiſk 'ſſiſk		
<b>œ</b>	0153	11
foem fœj floek floer œf œj goel goej kœk foet stoel fœ moenu		
<b>ũ</b>	0169	84
pũziz pũzir mũjtu mũjtu awgũ ałgũ ũ ũ		
<b>Ɔ</b>	0250	9
femeƆ femje done done iſpoze mēriǾu biſe biſe paſeru paſeru ſeſve frute frute foſe foſe frōse frōse keiſ koſſiſe kurtiſe eƿne eƿne grēme grēme kodſie kodie vivēde graſe graſe kaude kaude penē penē keſelu kabese keſese teſte teſte oreſe oreſe nerif boke boke uſe uſe peƿne peƿne zweſu pēse pēse itreſne etreſne iſpadwe iſpadwe awme alme figedu fiyeǾu lue lue iſtrele iſtrele agwe agwe ſuve ſuve pedre peǾre areje ereje teƿe teƿe kelizēj nevwē nevwē treves treveſ fumase fumase sīze sīze vie vie iſtrade iſtraǾe kemīnu mōtēne mōtēne die die enu enu ligwe ligwe ſeber metar betar keſar teſar pērtir ſipēgar ƿeƿe kazar ƿeſkar keƿar keƿar iſkeƿar neǾar neviyar kemīnar kemīnar zezek zezet keir keir epirtar epirtar leƿar leƿar trezer etar etar ƿder eyuǾu emarelu emarelu dues dueſ eki ei e		
<b>ɑ</b>	0251	58
pa ſar am am fwa hare:na ſavjō bwaƿ taje parti kaze gwa kra grav mava tawa		
<b>ɔ</b>	0254	23
donna dōnə dōne spōza əspōzə spōzo əspōs sōſo pidəkkjo ɔp fəſſa koſſiſi kōrtiſi skōrtsa əskōrsə flə ɔs ɔsso ɔs ɔhe krɔh wɔvɔ ɔw kɔn kɔno kɔn kɔw kɔde plɔm ɔrej əkkjo bɔk bɔce gɔle ɔſgule pitſolo ɔſinəkkjo ɔɔ kɔlu kɔlu kɔl dɔsso kwore kɔk kɔr sɔw sɔl sɔlej sɔlo ſavalɔn pɔlvar pɔ pɔ fwɔko fɔk mɔnt mɔntane nɔtte nɔt zɔna zɔna nɔm nɔſ ɔp nɔf vɔse mɔrdere vɔmere sɔfle kɔnetk kinɔh dɔmɔk mɔri ɔksɔk nɔji vɔle tɔkɔk tɔrfere tɔrsə dɔne frɔte kɔle kɔri tɔ ɔlɔn		

## Appendix 4 - Words containing each segment

pako pak grasso grās grā nāvo nāw bwāno bān bān sardido sardidu sardidu spārko spārķ taront præssimo āprāp rāđ rās rābbjo rāđ grāk kāmā kām

**ə** 0259 24

dānā dāqamnā āspōzā mārīt āspās marā parā tatā nāmaje pasāre pādukje sārpen abrā sāmās sāmen sāmīnfā fulā frunzā ārel rādātfīnā āskōrsā skōartsā erbā jarbā konnā cōadā plomā pēnā panā pār jāvō kābēl jāvē testā tseastā urēlā bokā bukā golā gurā kambā gambā pērnā zānu zānol minā alā bentrā pānjfā āntrānā āspālālā inīmā fedđā lūnā lunā āstel ājywā apā pluzā pedrā pjatrā ārenā arīnā sorā terā tsarā newlā negurā tēnebrās tēatfā gēatsā sendrā tēnujā biā sāmē kāmī muntānā diā lēngwā limbā zā bewrā mājza musāga musāgar musāya āskupi rāspira riwrā bewrā sāβε kunefā pānsa pāsa sānti flājra temā biwrā nāga mēta batrā kāsā sāya tālā tāja fendrā pārti sāvķe sāpāra rawrā rāza rāska jāvē kāba nāda nābāga sāmīne kāmīna vānīk bānī āstendrā zāwrā zātfēa āsta lāve lāba ālsā tōrsā kawrā kādēa tānīk tānī īsprāmēk īsprāmer āsprēmā sārār sārā āftrīzīr āftrīzīr āstērēnā frāga frāsa lāba āstārgī āfuga trēwrā āmpērā zāte lānsa kāntā āskorā korā zāle zāla glāsa krēfā krāma ānsendrā ālgu altrā āmplā āspes pāti pātīt āstret māny mānut mārunt dālikat rādo rātund āgut āprāp bāi destrā sānestķ bārmēl dōwā kwatrā ālā ān kā kā

**ē** 025B 12

fēmīne ēfā per bies pes pēhō uttfello uhe uttfjel sjerpē verm vjer sēwva sēlvē selvē semenfē gvēn ārel resen hwes ēķb erba ērvē jep gvēamen resta vēffī peli pē pjel fēķ chē vwes gvēs kwen kōdē plumē pen pēnā pen pēne pel pvel kābēl đvīve jāvē tēs tet testa testē tēstē tēs teste urēlā bōce dente āngulē pē pē pēw pēno pēķnē pērnē pērnā pēkol kwel spālē petto pet pwettrin āstel stele ēw plēf rē mēķ sel pēdōrē āren terra tēķē terā tjere nēvwē nēvwē tēneķk trēvēs trēvēf sjel tēlo sēw sēw sel vento nēvi nēvi zēl đgelo zēl gles sendrā tīnīze munte lēngwā 'lēngē bewrā bewrā sāβε kōnetķ kunefā flēķe dwēķmī tēsī tēji fendere fendrā mērdžere estendere ētķ leve tjer spremere sere āstērēnā strēngī: tērdžere tēķ trēwrā āmpērā đžete īntfēndjare īspesu āspes spē grvēs gvījef grēve grēvi bēf brēve brēvi brēvi brēf āstret stret dēķyāđu frēt rēfēnte plē plen vēkkjō dret dret ēbete net nēđķu nēđķu net net net sek sek sēf sek presso prē vehē destro destru đfstru đjestr sānestķ sēftru sēftru sēpes vēķmēj bārmēl vert vert đžen ēmarelu ēmērelu trēs ķē kwe ēn ē

**ĵ** 025F 81

ĵambe māņja: ĵava: zĵava:

**g** 0261 62

grā: num gvēn grano grano grēw grēw gra grin gran griw grā: men gvāmen grama grēmē grēmē gram sangre sangwe sēgi sēgi sōg gvēs grasa grafē grafē gref gula goel gola gola gōej gōle gurā ungula ōgl ungja đg āngulē ungje gamba gamba gamba genikulum fegato figēdu agwē agwē age lago lago lagu kālī: ginem negurā gelu: glas gĵatfā glas gles glātfe gēatsā fwego fogu lāg lēngwa lingwa līgwe līgwe lēngwā 'lēngē ego: musāga musāgar su: gere sugāķ sugar kogno: skere kō: gita: re fra: gra: re fragrare nāga anegar annegare pugna: re segar segare segāķ pungere jugula: re zygye jugula: re naviga: re nabegar navigare nābāga naviga: naviga mergere gyra: re segurar sigurāķ stringere strēngī: fregar fregare frāga īffrigar tergere ekstergere affugare ēfugar āfuga īmpingere liga: re legar legare lega xugar zogāķ zuga flugtwārela: re glakia: re glase gĵatfjare glāsa glātfa: īnglakia: re īngetsā gōfle gonfjare gōfle zgloņfa: flagra: re flagķe flagrar flagrare flagvāķ flagrar alguno awgū ātģū ālgu magnus grandem gvā grande grande grēđģī grēđģī gran grā grant longus longo lungo lōgu lōgu lung largus largo lāķģu largu larg gvā graso grasso grafu gras gras gras gurdus gordo grossus gvō grasso grosu grosu grās grā grvēs gros grawīs gvījef grabe grēve gravi gravi grew grav gravi grew angustus angosto angusto īngust dewgadū fri: gidus āgut agy galbinus galben grāk

**ŷ** 0263 82

īyāđo fīyēđu āywa ājywā layu foyu musāya sīyar sāya naviyāķ neviyāķ siyurar īffriyār ēfuyār līya zuyār laryo delyāđo dēķyāđu āyūđo ēyūđu

**q** 0265 60

fūqī plūqī nūqī kūqide tūqē esūqije flyktūqē

**ī** 0268 31

īfēti īfpoze īfpozu pējģī āvī sīrpēti vermī arvurī sīmēti sāmīnfā kōrtīsī ķēftī peli karnī sēģī sīndģē pilu dēti minā pintēfģē

## Appendix 4 - Words containing each segment

iftrele flumi riw vint nevi mōti nojti nojti nomi bißer minka wißpirar ride kupiser timer trimer siyar siperar naviyar neviyar iftar iftar livar sigurax siyurar siyar siyar epirtar epirtar strindge iffrigar iffriyar impindge kinta zilar zilar ingetsa krißser inßindge grēdi gravi pikenu brevi ingust iftrejtu strimt poðri wiðödu virmejlu verdi verdi ki kind in ki

**I** 026A 78

na:ris isendgjar

**l** 026B 57

selvæ söl zel alsæ alsar kuła flama atgū at deļyaðu kał pļe

**n** 0272 22

doņa niņo alimaņa peņa peņā uņa uņē uņe nja paņšā entraņa itreņe ētreņe əntranə kamiņu kemiņu mōtaņ montāņa montāņa mōtēņe mōteņe muntāņe mōtaņ montāņe nāt aņo aņ mājza maņi kopeseķ kupiser koņosi puņar puņjare puņa puņi kemiņax keminar viņi: estreņir əstreņə əmpēņə oņņi maņo maņņo peķeņo ju:f viziju viziju seņes siņestri

**Ḷ** 027B 85

kosaḷ

**Ḷ** 027E 8

embra fembra muxer muļer mariðo maridu mēriðu marit maðre marə paðre parə paxaro pasəru pasəru pasəre serpiente sirpēti jarpe berme vermi verm arbol albero aŗvori arvuri abrə par fruto frute frute frujt grano grēw grēw gra frōse frōse frunzə kōrtisi korteθa kurtisə skqartsə flor fjo:re flor flqare jerba erve jarbə grama grēmē grēmē gram rista karne karni karne sangre grasa grafs grafs gref kwerno kornu pər orexa oreļv oreļv ureļv nariθ naris neriş gurə pjerna pərne bjentre bentrə entraņa itreņe ētreņe əntranə kor sqare estreja istrele iftrele mar mar pjeðra pedre peðre peðrə pjatrə arena areje ərēje ərenə sajbŗu sajbŗu treves treveş tanebrəs ʃer estrada istrade iftrade djurno zorn xornada nombre beber bere bißer bewrə komer kumer mandukar mandgare mēzar morðer murðer moskar morsikare sugar kufpir eskupir esputar sputare respirar respirare wspirar wißpirar rəspira reir ri:dere kīr riwrə ride ber vedere ver bewrə oir udire owvir saber səber konøθer kupiser kwidar kuzitar pensar pensare pēsar sentir sētir oler ulura fejraķ fejrar flajra temer timer tremir tremek trimer dormir durmir bibir viver biwrə morir muxer muri anegar matar mētar uttfidere puņar batir bēter batrə kaθar kəsar puxar puřar segar siyar kortar kurtar taxar tēlar dibidir diviðir ender fēder fēndrə partir pørtir separar separax siperar səpəra pūzir raer ərē rawrə rasar wəzar raskar wēřkar kusar kabar kəvar eskabar iřkəvar nadar nwotare neðar nabegar neviyar bolar volare vwar zvolare zbura kaminar kamminare keminar andar ēdar benir venire vir ekstender iřtēder əstendrə jaθer dʒaʃe:re zəzer zawrə ser ser sentar sētar sētar estar iftar iftar jebar livar alθar alsar tornar turnar xirar dʒirare zīrar zīrar zīra bīrar virare virar zīrar bira torθer kaer kadere kēir kēir tumber tōbar dar dar donar duar tener tenere ter segurar sigurax siyurar ekspremir əspremə serar sərar θerar siyar siyar apretar epirtar epirtar estreņir əstreņə fregar frəga iffrigar iffriyar frotar frisar frəsa lařar levar levar estarsir ēřugar ēřuyar limpjar lipar lipar tirar tīra tīrar tira puxar puřar puřar traze trezer trəwrə eřar zeřtar zeřtar lanθar lēsar arankar aruņka legar atar ətər ətər koser kuzer kuzer kontar kōtar kōtar numera deθir dizer dizer kantar kētar kētar ludir xugar zuřar flugtwar flutuar fluir flwir kolar kuar eskurir iřkurer skurðe korer kuķer kurðe elar zilar zilar inřar iřar iřar entumeθer itumeser itumeser kreθer kreseķ kriřser kreřə kreřte kēmar kējmare arder vrdar arde flagrar flagrar enθender isendgjar isēdjar ənsendrə otro owtru owtru altrə grande grēdʒi grēdi mare larʒo largu ʌark graso grafu gras gordo grosu grosu grəs grə grabe gravi gravi grew grew lerdo lerdo lerdo korto kurtu kurt brebe brevi brevi brew estreřfo istrejtə iftrejtə əstret frio friu friu fret poðriðo puðrit poðre poðri poðri sordido sərduidu sərduidu ispurku iřpurku dʒirejtə direjtə dret proximo prosimu prosimu proizme əpɾəp θerka djestro destrə dēřtru destrə sinjestro seřtru rořu bermexo virmejlu berde verdi verdi vert verde amarijo əmarelu əmərēlu grək tres tres tref kwatro kwatru kwatru kwatrə

**R** 0280 75

ərəj savør sərar iřkurer kōri frø

**Ṛ** 0281 19

muļev maķi meķ peķ seķrā seķrēři veķ vekmi aŗvŗ aŗvori fŗqī gŗēn wais wēř wadi wasin kōwřisi kōwřise ekovs flōv flov evb evne gŗamen wēřři wēřti řev kawni gŗes kōwŗ kōwŗnu oŗej řevne vātŗ āŗwaj řwatŗin kōv kōv kuŗ wŗ kiw kiū



## Appendix 4 - Words containing each segment

vīvjeķ meķ maķ pjeķ piķ pudķ tek teķe teķe teķ tenebķ sādķ zūķ zōķna zōķna zūķne bwaķ bebeķ bōķ mēzāķ moķdķ  
 moķdeķ sugāķ kuspiķ vomīķ vespīrāķ vīspīrāķ vīķ vīķ vīķ vwaķ veķ wīķ owvīķ savwaķ sabēķ kōnetķ kopeseķ kuzitāķ  
 pēsāķ sātīķ sēfjīķ flēķe fejraķ temeķ kēdēķ tremeķ dōķmīķ dōķmīķ dwēķmi vīvķ vīveķ muķīķ moķeķ muķer mataķ ōksīķ  
 batķ bateķ kasāķ puķaķ segāķ kōķtaķ ekuķte taķaķ dķivīdķīķ fādķ fēdeķ partīķ paķfjīķ sēvķe separāķ pwēdķ pūzīķ vaēķ  
 vēer kaze kazaķ vēzar vaķkaķ vēķkaķ fwīķ ķevāķ iķķevāķ nadaķ navīyaķ voaķ ķemīraķ ēdaķ vānīķ vīķ etādķ istēdeķ zezīķ  
 zezēķ swaķ seķ etķ levaķ tuķne toķnaķ zīķe vīķe tōdķ fwaķ tōbaķ daķ tānīķ tek siguraķ epēdķ iķprāmeķ seķa seķe sīķaķ  
 sīķaķ etvēdķ fķeķe fķote tīķe tvēķ kudķ nōbķe dīķ zogaķ flutuāķ flwīķ koaķ iķkoķeķ kuķīķ koķeķ kuķer kķwatķ kreķeķ  
 kvame ķejmaķe aķdķ aķdeķ flaķķe flaķķaķ otk gķā laķz laķgu gķa gķo gķīķef luķ kuķ kuķtu bķef etķwa fķwa vēsēfjī  
 vēsēfjī dķwa vō vēdōdu vīdōdu pķe sēnestķ ku ķoķs ķoķu vēķmeķ vēķmeķu ķuķ veķ tķwa katķ

**J** 0283 36

iķpoze iķpozu biķķa biķe biķe peķķe peķķi pēķķi peķ peķte fķē farpe ķeif ķeķfjī ķeķti fēķ graķe graķe greķ fāvō fāve teķķe nerīķ  
 buķ paķķā iķpadwe iķpadwe iķtreķe fuvē fuvē seķķu seķķu tķevēķ fķenuķā iķtrađe fāmē naķ voķ kuķķīr vīspīrāķ fti konoffere  
 kunēķā kunqāķte fejraķ fejraķ fāķe puķaķ puķaķ fīndere vaķkaķ vēķkaķ fāve iķķevāķ iķķevāķ fāmine iķtēder ķedķa iķķar iķķar  
 fwaķ iķprāmeķ iķprāmer āķķīzīr āķķīzīr iķķīgaķ iķķīyaķ ķterđe affugare ēķugaķ ēķuķaķ āķuga puķaķ puķaķ fāķe iķkoķeķ iķķurer  
 iķar iķar kreķķere ķīķķer kreķķe ēķu ēķu graķu iķķesu iķķēķtu ķo fēķu fēķu iķķurķu đeķķru seķķru seķķru ķoķs ķoķu roķu  
 doķķ đueķ tķeķ fī

**U** 028A 89

koķs

**Λ** 028E 18

moķķe muķeķ muķer muķe useķ pioķu pioķu poķ fāķķa foķe foķe fuķā peķ ķābeķ oreķeķ oreķķeķ ureķā oķu oķu zueķu  
 zueķu zōnoķ ķāķ āķpaķķāķ lūnā ķaķ ķeķķgwaķ taķķķa:re taķaķ tēķaķ tēķaķ ķāba ķāba ķānsa ķīķa ķoķ ķaķ ķeno vēķķu vēķu  
 veķ lūnta vermīķķo vēķmeķu vīķmeķķu bēķmeķ āķa

**3** 0292 80

zāb zānu zueķu zueķu zōnoķ pluķā ķaķīzēķ ķeķīzēķ zel zēķ zūķ zōrn zōķna zōķna zūķne zā zā māķe mēzāķ mēzāķ mēķaķ  
 kuķitāķ kuķitāķ pūzīķ pūzīķ zyķyle naķe zezīķ zezēķ zēķer zāwāķ zīķe zīraķ zīraķ zīra zīraķ āķķīzīr āķķīzīr āķķēķī zēķe zēķķar  
 zēķķar zve zogaķ zūķaķ zuga zūķa zāķe zīķaķ zīķaķ zāķa iķķīndķe laķz đū:ķe: ķuķ zōn

**j** 029D 66

ķerba ķabeķo ķweķo estreķa ķubķa ķelo ķo ķaķer ķebar amariķo āķa

**dz** 02A3 65

frondķa đzornade

**đ** 02A4 67

kođķīķ sīndķe đķīve đķōp đķīnāķķķo đķenōli đķenunķ<sup>l</sup> fedķā pķodđķa ķaķīđķīne đķelo đķer đķu đķorno đķu: đķornata đķī mandķare  
 suđķe kođķitare kuđķeta đķīvīdķīķ pūndķere pūndķe mēķđķere mēķđķe đķaķķe:re đķīr đķīrāķe đķīra: đķīra: strīndķere strīndķe ķerđķere  
 ķterđķe ķradķe īmpīndķere īmpīndķe đķettare đķete đķokare đķuwe đķuķa: ķķurđķe ķurđķe đķelare đķale īsēndķīar grēđķī lađķ  
 đķīreķķtu nēđķu nēđķu rōđķ rūđķe đķen

**ts** 02A6 40

sōķs skōķķsa skwāķķe skqāķķā tķēķstā pāntķe ķsāķ tķēķsā sīmķs āķķsāķe ķsīne īnķeķķa pūķķīn sūķķķīre ķeķķīn

**fj** 02A7 30

īķēķī sōķķo utķķello utķķel ķķē ķeķķēķī ķemēķī ķemēķķe ķēmīnķķe rāķī:ķķe rāđāķķīnā ķōķķīķe ķāķķķī sōķķēķķe ķeķķī ķķar ķķes  
 ķķes nāķķķe đēķī pīķķōlo pīķķor pāntķa pīntēķķe pēķķo ķķeķāķķe ķķelo ķķī: ķķer ķķāķķķe ķķaķķe ķķenere ķķīnīķe ķķenuķā ķķīmē mōķķī nōķķe  
 sēķķīķ māķķa: utķķīdere utķķīķe ķāķķķe pāķķķīķ ķķave đķaķķe:re zāķķķe āķķķa: ķōķķķere ķōāķķe ķķer ķķīķe ķķīra ēķķar ķāķķķe  
 ķāķķķa: āķķōķķķe ķūķķīķe zīķķe ķķāķe ķķāķķķķe ķķāķķa: īnķķar īnķķēndķķe īnķķīndķe mūķķō āķķķō pīķķķīno pīķķūl ēķķēķķō sūķķīw sūķķīw

## Appendix 4 - Words containing each segment

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ʃo reʃente ʁesēʃi ʁesēʃi reʃe seʃ viʃino viʃin veʃin roʃ kroʃeo ʃiŋkwe 'ʃiŋk ʃiŋʃ ʃine ʃe ʃe ʃemu:t

**β**

03B2

**56**

arβol kəβelu kaβeθa kəβesə saβru saβru biβer səβe laβar nweβo

**θ**

03B8

**44**

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

**ẽ**

1EBD

**55**

seɤpēʃi siɤpēti sɤɤpē semēʃi simēti simēs vivēda vivēde dēʃi dēti mē ētrɤɤ sē vētu vētu pēsak pēsar sēʃiɤ sētir kɤēdɤ  
fēdeɤ fēder istēdeɤ iʃtēder sētar sētar ēʃuɤar ēʃuɤar ēfle iʃēdɤar ʁesēʃi ʁesēʃi sēk

## Appendix 5 - Word Lists by Language

### Latin

Cognate	IPA	Sounds
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-Granum	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-Skorteia	skorteia	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-Gramen	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 <sup>w</sup> 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
Tail-Primary	kauda	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

## Appendix 5 - Word Lists by Language

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	geniculum	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-Solliculus	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
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

## Appendix 5 - Word Lists by Language

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>wa</sup>	l-e-n-gw-ah
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
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-lacere	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-Fluitare	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
Woman-Primary	fam	f-ah-m
Woman-Domina	dam	d-ah-m
Child-Primary	ɑ̃fɑ̃	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	pwasɔ̃	p-w-ah-s-on
Bird-Avicellum	wazo	w-ah-zz-oh
Dog-Primary	ʃjɛ̃	shh-jg-ehnn
Louse-Primary	pu	p-u
Snake-Primary	sɛʁpɑ̃	s-ay-rr-p-NasalA
Worm-Primary	veʁ	v-ay-rr
Tree-Primary	aʁbɛʁ	ah-rr-b-rr
Stick-Primary	pal	p-ah-l
Fruit-Primary	fʁɥi	f-rr-eu-e
Seed-Sementis	sɛmɑ̃s	s-aah-m-NasalA-s
Seed-Granum	gʁɛn	g-rr-eh-n
Leaf-Primary	fɛj	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	ɛʁb	eh-rr-b
Grass-Gramen	gʁɑmɛn	g-rr-ah-m-eh-n
Skin-Primary	kwan	k-w-ah-n
Skin-Pellis	po	p-oh
Meat-Primary	ʃɛʁ	shh-eh-rr
Meat-Vivenda	vjɑ̃d	v-jg-NasalA-d
Blood-Primary	sɑ̃	s-NasalA
Bone-Primary	ɔs	euh-s
FatNoun-Crassia	gʁɛs	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	pɛn	p-eh-n
Hair-Primary	pwal	p-w-ah-l
Hair-Capillus	ʃəvø	shh-aah-v-uu
Head-Primary	ʃəvɛ	shh-aah-v-eh
Head-Testa	tɛt	t-eh-t
Ear-Primary	oʁɛj	oh-rr-ayj
Eye-Primary	œj	uuh-jg
Nose-Primary	ne	n-ay

## Appendix 5 - Word Lists by Language

Mouth-Primary	buʃ	b-u-shh
Mouth-Gula	gœl	g-uuh-l
Tooth-Primary	dã	d-NasalA
Fingernail-Primary	õgl	on-g-l
Foot-Primary	pje	p-jg-ay
Leg-Gamba	zãb	gzah-NasalA-b
Knee-Geniculum	zənu	gzah-aah-n-u
Hand-Primary	mê	m-ehn
Wing-Primary	el	ay-l
Belly-Primary	vãtɤ	v-NasalA-t-rr
Belly-Pantex	pàs	p-NasalA-s
Guts-Primary	ãtɤaj	NasalA-t-rr-ah-jg
Neck-Primary	ku	k-u
Back-Primary	do	d-oh
Back-Spatula	epol	ay-p-oh-l
Breast-Primary	sê	s-ehn
Breast-Pectus	pi	p-e
Breast-Pectorina	pwatɤin	p-w-ah-t-rr-e-n
Heart-Primary	kœɤ	k-uuh-rr
Heart-Anima	am	a-m
Liver-Primary	fwa	f-w-a
Sun-Soliculus	sœlej	s-euh-l-ehj
Moon-Primary	lyn	l-eeh-n
Star-Primary	etwal	ay-t-w-ah-l
Water-Primary	o	oh
Rain-Primary	plɥi	p-l-eu-e
River-Rivus	ɤy	rr-eeh
River-Riparia	ɤivjɤɤ	rr-e-v-jg-ay-rr
Lake-Primary	lak	l-ah-k
Sea-Primary	mœɤ	m-eh-rr
Salt-Primary	səl	s-eh-l
Stone-Petra	pjɤɤ	p-jg-ay-rr
Sand-Sabulum	sabl	s-ah-b-l
Dust-Primary	pudɤ	p-u-d-rr
Earth-Primary	tɤɤ	t-ay-rr
Cloud-Primary	ny	n-eeh
Fog-Tenebras	teneɤɤɤ	t-ay-n-eh-b-rr
Fog-Fumata	fyme	f-eeh-m-ay
Sky-Primary	sjəl	s-jg-eh-l
Wind-Primary	vã	v-NasalA
Ice-Primary	zəl	gzah-eh-l
Ice-Glacies	glas	g-l-ah-s
Fire-Focus	fø	f-uu
Ash-Primary	sãdɤ	s-NasalA-d-rr
Road-Primary	vwa	v-w-ah
Road-Camminus	ʃãmẽ	shh-aah-m-ehnn
Mountain-Primary	mõ	m-oon
Mountain-Montanea	mõtɤɤ	m-on-t-ah-VdPalatalNasal
Night-Primary	nɥi	n-eu-e
Day-Diurnus	zɤɤ	gzah-u-rr
Day-Diurnata	zɤɤne	gzah-u-rr-n-ay
Year-Primary	ã	NasalA
Name-Nomen	nõ	n-oon
Tongue-Primary	lãg	l-NasalA-g
I-Primary	zə	gzah-aah
We-Primary	nu	n-u
YouPlural-Primary	vu	v-u

## Appendix 5 - Word Lists by Language

YouSingular-Primary	ty	t-eeh
ToDrink-Primary	bwaꝥ	b-w-a-rr
ToEat-Manducare	māꝛe	m-NasalA-gzah-ay
ToBite-Primary	moꝥdꝥ	m-oh-rr-d-rr
ToSuck-Primary	syse	s-eeh-s-ay
ToSpit-Primary	kōspyꝥ	k-oon-s-p-eeh-ay
ToVomit-Primary	vomiꝥ	v-oh-m-e-rr
ToBlow-Primary	sufle	s-u-f-l-ay
ToLaugh-Primary	ꝥiꝥ	rr-e-rr
ToSee-Primary	vwaꝥ	v-w-ah-rr
ToHear-Primary	wiꝥ	w-e-rr
ToKnow-Sapere	savwaꝥ	s-ah-v-w-ah-rr
ToKnow-Cognoscere	kōnetꝥ	k-euh-n-eh-t-rr
ToThink-Primary	kꝥide	k-eu-e-d-ay
ToThink-Pensare	pāse	p-NasalA-s-ay
ToSmell-Sentire	sātiꝥ	s-NasalA-t-e-rr
ToSmell-Fragrare	flæꝥe	f-l-eh-rr-ay
ToFear-Tremere	kꝥēdꝥ	k-rr-ehn-d-rr
ToSleep-Primary	dōꝥmiꝥ	d-euh-rr-m-e-rr
ToLive-Primary	vivꝥ	v-e-v-rr
ToDie-Primary	muꝥiꝥ	m-u-rr-e-rr
ToKill-Primary	nwaje	n-w-aj-ay
ToKill-Tutari	tꝥe	t-eu-ay
ToKill-Mactare	mate	m-ah-t-ay
ToKill-Occidere	ōksiꝥ	euh-k-s-e-rr
ToFight-Battuere	batꝥ	b-ah-t-rr
ToHunt-Captiare	ꝥase	shh-ah-s-ay
ToHit-Primary	puse	p-u-s-ay
ToCut-Primary	sꝥe	s-jg-ay
ToCut-Excurtare	ekurꝥte	ay-k-u-rr-t-ay
ToCut-Taliare	tꝥe	t-a-jg-ay
ToSplit-Scindere	sēde	s-ehnn-d-ay
ToSplit-Findere	fādꝥ	f-NasalA-d-rr
ToSplit-Partire	paktiꝥ	p-ah-rr-t-e-rr
ToSplit-Separare	sāvꝥe	s-aah-v-rr-ay
ToStab-Primary	pwēdꝥ	p-w-ehnn-d-rr
ToStab-Iugulare	ꝥygyle	gzah-eeh-g-eeh-l-ay
ToScratch-Rasare	ꝥaze	rr-a-zz-ay
ToDig-Primary	fwꝥ	f-w-e-rr
ToDig-Cavare	ꝥave	shh-aah-v-ay
ToSwim-Navigare	naꝛe	n-ah-gzah-ay
ToFly-Primary	vole	v-oh-l-ay
ToWalk-Primary	ꝥəmine	shh-aah-m-e-n-ay
ToCome-Primary	vōniꝥ	v-aah-n-e-rr
ToLieAsInABed-Primary	etādꝥ	ay-t-NasalA-d-rr
ToLieAsInABed-Iacere	ꝥeziꝥ	gzah-ay-zz-e-rr
ToSit-Primary	swaꝥ	s-w-ah-rr
ToStand-Primary	etꝥ	eh-t-rr
ToStand-Levare	lāve	l-aah-v-ay
ToStand-Altiare	ose	oh-s-ay
ToTurnIntransitive-Primary	tuꝥne	t-u-rr-n-ay
ToTurnIntransitive-Gyrare	ꝥiꝥe	gzah-e-rr-ay
ToTurnIntransitive-Virare	viꝥe	v-e-rr-ay
ToTurnIntransitive-Torquere	tōꝥdꝥ	t-euh-rr-d-rr
ToFall-Primary	ꝥwaꝥ	shh-w-ah-rr
ToFall-Tumbare	tōbe	t-on-b-ay
ToGive-Donare	dōne	d-euh-n-ay

## Appendix 5 - Word Lists by Language

ToHold-Primary	tənik	t-aah-n-e-rr
ToSqueeze-Primary	epkɛdɤ	ay-p-rr-ehnn-d-rr
ToSqueeze-Serare	sɛkɛ	s-ay-rr-ay
ToSqueeze-Stringere	etkɛdɤ	ay-t-rr-ehnn-d-rr
ToRub-Primary	fɛɛje	f-rr-ehj-ay
ToRub-Frictare	fɛote	f-rr-oh-t-ay
ToWash-Primary	lave	l-ah-v-ay
ToWipe-Exsucare	esɛije	ay-s-eu-e-jg-ay
ToPull-Primary	tikɛ	t-e-rr-ay
ToPull-Pulsare	puse	p-u-s-ay
ToPull-Trahare	tɛɛɤ	t-rr-eh-rr
ToThrow-Primary	zɛte	gzah-aah-t-ay
ToThrow-Lanceare	lase	l-NasalA-s-ay
ToTie-Primary	lie	l-e-ay
ToSew-Primary	kudɤ	k-u-d-rr
ToCount-Primary	kote	k-on-t-ay
ToCount-Numerare	nɔbɛɛ	n-oon-b-rr-ay
ToSay-Primary	diɤ	d-e-rr
ToSing-Primary	ʃate	shh-NasalA-t-ay
ToPlay-Jiocare	zwe	gzah-w-ay
ToFloat-Primary	flyktɛ	f-l-eeh-k-t-eu-ay
ToFlow-Primary	flye	f-l-eeh-ay
ToFlow-Colare	kule	k-u-l-ay
ToFlow-Currere	kuxɛ	k-u-rr-e-rr
ToFreeze-Primary	zɛle	gzah-aah-l-ay
ToFreeze-Glaciare	glase	g-l-ah-s-ay
ToSwell-Primary	afle	NasalA-f-l-ay
ToSwell-Conflare	gɔfle	g-on-f-l-ay
ToSwell-Crescere	kɛwatɤ	k-rr-w-ah-t-rr
ToBurn-Cremare	kɛame	k-rr-ah-m-ay
ToBurn-Flammare	flame	f-l-ah-m-ay
ToBurn-Ardere	akdɤ	ah-rr-d-rr
ToBurn-Flagrare	flagɛ	f-l-ah-g-rr-ay
ToBurn-Incendere	ɛsadje	ehnn-s-NasalA-d-jg-ay
All-Totus	tu	t-u
Many-Primary	mu	m-u
Some-Primary	okɔ	oh-k-uuhn
Few-Primary	pø	p-uu
Other-Primary	otɤ	oh-t-rr
Big-Grandem	gɛã	g-rr-NasalA
Long-Longum	lɔ	l-oon
Long-Largum	lakɜ	l-ah-rr-gzah
Wide-Primary	le	l-ay
Wide-Amplum	apl	NasalA-p-l
Thick-Primary	gɛa	g-rr-a
Thick-Spissum	epe	ay-p-ay
Thick-Grossus	gɛo	g-rr-oh
Heavy-Primary	gɛijef	g-rr-e-jg-eh-f
Heavy-Lurdus	lurɤ	l-u-rr
Small-Primary	pəti	p-aah-t-e
Short-Primary	kux	k-u-rr
Short-Brevis	bɛɛf	b-rr-eh-f
Narrow-Strictus	etɛwa	ay-t-rr-w-ah
Thin-Primary	məny	m-aah-n-eeh
Thin-Delicatus	du:ʒe:	d-U-gzah-ai
Warm-Primary	ʃo	shh-oh
Cold-Primary	fɛwa	f-rr-w-ah

## Appendix 5 - Word Lists by Language

Full-Primary	plē	p-l-ehnn
New-Primary	nuvo	n-u-v-oh
Old-Primary	vjø	v-jg-uu
Good-Primary	bō	b-on
Bad-Primary	mal	m-ah-l
Straight-Primary	d̥kwa	d-rr-w-ah
Round-Primary	kō	rr-on
Smooth-Nitidus	net	n-eh-t
Dry-Primary	sek	s-eh-k
Near-Pressus	p̥e	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	sənēst̥	s-aah-n-eh-s-t-rr
Red-Primary	k̥u	rr-u
Red-Vermiculus	v̥ekmej	v-eh-rr-m-ehj
Red-Rubeus	k̥uʒ	rr-u-gzah
Green-Primary	v̥eʒ	v-ay-rr
Yellow-Primary	ʒon	gzah-oh-n
One-Primary	œ	uuhn
Two-Duos	d̥ø	d-uu
Three-Primary	t̥kwa	t-rr-w-a
Four-Primary	kat̥	k-ah-t-rr
Five-Primary	s̥ēk	s-ehn-k
There-Primary	la	l-ah
Who-Qui	ki	k-e
What-Primary	kwa	k-w-ah
When-Quando	k̃a	k-NasalA
How-Quomodo	k̃om̃a	k-euh-m-NasalA
Not-Primary	ñō	n-oon
Not-Nec	ni	n-e
At-Primary	a	ah
In-In	ã	NasalA
In-Deintus	d̃a	d-NasalA
With-Abhoc	avek	ah-v-ay-k
And-Et	e	ay
And-Si	si	s-e

## Spanish

Cognate	IPA	Sounds
Woman-Primary	embra	ay-m-b-er-ah
Woman-Mulier	muxer	m-u-xha-ay-er
Woman-Domina	doʝa	d-oh-VdPalatalNasal-ah
Child-Primary	infante	e-n-f-ah-n-t-ay
Child-Ninnus	nipo	n-e-VdPalatalNasal-oh
Wife-Primary	esposa	ay-s-p-oh-s-ah
Husband-Primary	mari̯do	m-ah-er-e-dd-oh
Husband-Sponsus	esposo	ay-s-p-oh-s-oh
Mother-Primary	ma̯dre	m-ah-dd-er-ay
Father-Primary	pa̯dre	p-ah-dd-er-ay
Father-Tata	tata	t-ah-t-ah
Animal-Primary	alimaʝa	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

## Appendix 5 - Word Lists by Language

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	piel	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-Geniculum	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
Breast-Primary	seno	s-ay-n-oh
Breast-Pectus	pefθo	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

## Appendix 5 - Word Lists by Language

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	leŋgwa	l-ay-nya-g-w-ah
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
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
ToThink-Pensare	pensar	p-ay-n-s-ah-er

## Appendix 5 - Word Lists by Language

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-Iacere	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-Virare	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-Appetorare	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
ToWash-Primary	laβar	l-ah-bb-ah-er



## Appendix 5 - Word Lists by Language

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	efjar	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-Excurrere	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	inθar	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	mutfo	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	anfjo	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	pekeno	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	estrefjo	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
Full-Primary	leno	yuh-ay-n-oh

## Appendix 5 - Word Lists by Language

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
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	spɔza	s-p-euh-zz-ah
Husband-Primary	marito	m-ah-r-e-t-oh
Husband-Sponsus	spɔzo	s-p-euh-zz-oh
Husband-Socius	sɔʃfo	s-euh-ts-oh
Mother-Primary	ma:dre	m-A-d-r-ay
Father-Primary	pa:dre	p-A-d-r-ay

## Appendix 5 - Word Lists by Language

Father-Tata	tata	t-ah-t-ah
Animal-Bestia	biʃʃa	b-e-shh-shh-ah
Fish-Piskem	peʃʃe	p-ay-shh-shh-ay
Bird-Avicellum	utʃʃello	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-cr-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-Gratum	grano	g-r-ah-n-oh
Leaf-Primary	fɔʎʎa	f-euh-yuh-yuh-ah
Leaf-Frondea	fronza	f-r-oh-n-VdPalatoAlveolarAffricate-ah
Root-Radix	radi:ʃʃe	r-ah-d-E-ts-ay
BarkOfATree-Primary	kortiʃʃe	k-oh-r-t-e-ts-ay
BarkOfATree-Corticea	kortetʃʃa	k-oh-r-t-ay-t-ts-ah
BarkOfATree-Skortea	skortsa	s-k-euh-r-VlAlveolarSibilantAffricate-ah
Flower-Primary	fjo:re	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	wovo	w-euh-v-oh
Horn-Primary	korno	k-euh-r-n-oh
Tail-Primary	koda	k-oh-d-ah
Feather-Primary	pjuma	p-jg-u-m-ah
Feather-Penna	penna	p-ay-n-n-ah
Hair-Primary	pelo	p-ay-l-oh
Hair-Capillus	kapello	k-ah-p-ay-l-l-oh
Head-Primary	kavetssa	k-ah-v-ay-t-t-s-ah
Head-Testa	testa	t-eh-s-t-ah
Ear-Primary	orekkja	oh-r-ay-k-k-jg-ah
Eye-Primary	okkjo	euh-k-k-jg-oh
Nose-Primary	na:so	n-A-s-oh
Nose-Nares	nariʃʃe	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	pje:de	p-jg-Eh-d-ay
Leg-Gamba	gamba	g-ah-m-b-ah
Leg-Perna	perno	p-eh-r-n-oh
Leg-Petiolus	pitʃʃolo	p-e-t-ts-euh-l-oh
Knee-Geniculum	dʒinokkjo	VdPalatoAlveolarSibilant-e-n-euh-k-k-jg-oh
Hand-Primary	ma:no	m-A-n-oh
Wing-Primary	ala	ah-l-ah

## Appendix 5 - Word Lists by Language

Belly-Primary	panʃa	p-ah-n-ts-ah
Neck-Primary	kollo	k-oh-l-l-oh
Back-Primary	dosso	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	kwore	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	lago	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	te:nebre	t-Eh-n-ay-b-r-ay
Fog-Tenebras	te:nebre	t-Eh-n-ay-b-r-ay
Fog-Fumata	fuma:ta	f-u-m-A-t-ah
Sky-Primary	ʃelo	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	fwoko	f-w-euh-k-oh
Ash-Primary	ʃenere	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
I-Primary	io	e-oh
We-Primary	no:i	n-O-e
YouPlural-Primary	vo:i	v-O-e
YouSingular-Primary	tu	t-u
ToDrink-Primary	bere	b-ay-er-ay

## Appendix 5 - Word Lists by Language

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	ri:dere	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	konoʃfere	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	utʃidere	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	taʃʃa:re	t-ah-yuh-yuh-A-r-ay
ToSplit-Primary	dividere	d-e-v-e-d-ay-r-ay
ToSplit-Scindere	ʃindere	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	pundzere	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-lacere	dʒaʃe: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
ToStand-Altiare	altsare	ah-l-VlAlveolarSibilantAffricate-ah-r-ay

## Appendix 5 - Word Lists by Language

ToTurnIntransitive-Primary	tornare	t-oh-r-n-ah-r-ay
ToTurnIntransitive-Gyrate	dʒirare	VdPalatoAlveolarSibilant-e-r-ah-er-ay
ToTurnIntransitive-Virare	virare	v-e-r-ah-er-ay
ToTurnIntransitive-Torquere	tɔɾʃere	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	stringere	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	terdʒere	t-eh-r-VdPalatoAlveolarSibilant-ay-r-ay
ToWipe-Exsucare	aʃʃugare	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	impindʒere	e-m-p-e-n-VdPalatoAlveolarSibilant-ay-r-ay
ToThrow-Primary	dʒettare	VdPalatoAlveolarSibilant-ay-t-t-ah-r-ay
ToThrow-Lanceare	lanʃare	l-ah-n-ts-ah-r-ay
ToThrow-Eruncare	arronʃare	ah-r-r-oh-n-ts-ah-r-ay
ToTie-Primary	legare	l-ay-g-ah-r-ay
ToSew-Primary	kuffire	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	porre	s-p-oh-r-r-ay
ToSing-Primary	kantare	k-ah-n-t-ah-r-ay
ToPlay-Jiocare	dʒokare	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	colare	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	dʒelare	VdPalatoAlveolarSibilant-ay-l-ah-r-ay
ToFreeze-Glaciare	gʒatʃare	g-jg-ah-t-ts-jg-ah-r-ay
ToSwell-Primary	enfiare	ay-n-f-e-ah-r-ay
ToSwell-Conflare	gonfʃare	g-oh-n-f-jg-ah-r-ay
ToSwell-Crescere	kreʃʃere	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	inʃendʒare	e-n-ts-eh-n-d-jg-ah-r-ay
ToBurn-Ustulare	ustolare	u-s-t-oh-l-ah-r-ay
All-Primary	onʒi	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
Big-Grandem	grande	g-r-ah-n-d-ay

## Appendix 5 - Word Lists by Language

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	refrente	r-ay-ts-eh-n-t-ay
Full-Primary	pje:no	p-jg-Eh-n-oh
New-Primary	novo	n-euh-v-oh
Old-Primary	vekkjo	v-eh-k-k-jg-oh
Good-Primary	buono	b-w-euh-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	dritto	d-r-e-t-t-oh
Round-Primary	ritondo	r-e-t-oh-n-d-oh
DullAsAKnife-Primary	εbete	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	destro	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	robbo	r-euh-b-b-jg-oh
Green-Primary	verde	v-ay-r-d-ay
Yellow-Croceus	krofleo	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	finke	ts-e-nya-k-w-ay
Here-Primary	kwi	k-w-e
There-Primary	la	l-ah

## Appendix 5 - Word Lists by Language

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
Woman-Primary	femeɐ	f-ay-m-ay-ahh
Woman-Mulier	mulɐɐ	m-u-yuh-ay-rr
Woman-Domina	done	d-oh-n-ahh
Child-Primary	ĩfɛʃi	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	mẽj	m-ahnjn
Father-Primary	paj	p-aj
Father-Tata	tata	t-ah-t-ah
Animal-Bestia	bife	b-e-shh-ahh
Fish-Piskem	pejfi	p-ayj-shh-e
Bird-Avem	avi	ah-v-e
Bird-Passerem	pasɐru	p-ah-s-ahh-er-u
Dog-Primary	kẽw	k-au_diphthong_nasal
Louse-Primary	pioɫu	p-e-oh-yuh-u
Snake-Primary	sɛɐpẽʃi	s-ay-rr-p-eh-n-ts-e
Worm-Primary	veɐmi	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	frute	f-er-u-t-ahh
Seed-Sementis	semẽʃi	s-ay-m-eh-n-ts-e
Seed-Granum	grẽw	g-er-au_diphthong_nasal
Leaf-Primary	foɫɐ	f-oh-yuh-ahh
Leaf-Frondea	frõse	f-er-on-s-ahh
Root-Primary	ɾais	rr-ah-e-s
BarkOfATree-Primary	kɔɐʃisi	k-euh-rr-ts-e-s-e
BarkOfATree-Corticea	kɔɐʃisɐ	k-oh-rr-ts-e-s-ahh
Flower-Primary	floɐ	f-l-oh-rr
Grass-Primary	ɛɐvɐ	ay-rr-v-ahh
Grass-Gramen	grɛmɐ	g-er-ahn-m-ahh
Rope-Restis	ɾɛʃi	rr-eh-shh-ts-e
Skin-Primary	kodzɪɐ	k-oh-VdPalatoAlveolarSibilant-e-ahh
Skin-Pellis	peli	p-eh-l-e
Meat-Primary	kɔɐni	k-ah-rr-n-e
Meat-Vivenda	vivẽda	v-e-v-eh-n-d-ah
Blood-Primary	sẽgi	s-ahn-g-e



## Appendix 5 - Word Lists by Language

Bone-Primary	osu	oh-s-u
FatNoun-Crassia	graʃe	g-er-ah-shh-ahh
Egg-Primary	ovu	oh-v-u
Horn-Primary	koʁnu	k-oh-rr-n-u
Tail-Primary	kaʊde	k-au-d-ahh
Feather-Penna	pene	p-ay-n-ahh
Hair-Primary	pelu	p-ay-l-u
Hair-Capillus	kabelu	k-ah-b-ay-l-u
Head-Primary	kabese	k-ah-b-ay-s-ahh
Head-Testa	teste	t-eh-s-t-ahh
Ear-Primary	oreʎe	oh-er-ay-yuh-ahh
Eye-Primary	oʎu	oh-yuh-u
Nose-Nares	naris	n-ah-er-e-s
Mouth-Primary	boke	b-oh-k-ahh
Tooth-Primary	dẽʃi	d-ehn-ts-e
Fingernail-Primary	ʊne	u-VdPalatalNasal-ahh
Foot-Primary	pe	p-eh
Leg-Perna	peʁne	p-eh-rr-n-ahh
Knee-Genuculum	zueʎu	gzah-u-ay-yuh-u
Hand-Primary	mẽw	m-au_diphthong_nasal
Wing-Primary	a	ah
Belly-Pantex	pẽse	p-ahn-s-ahh
Guts-Primary	ĩtreʃe	een-t-er-ahn-VdPalatalNasal-ahh
Neck-Primary	kolu	k-euh-l-u
Back-Spatula	ifpadwe	e-shh-p-ah-d-w-ahh
Breast-Primary	seju	s-ayj-u
Breast-Pectus	pejtu	p-ayj-t-u
Heart-Primary	koʁ	k-euh-rr
Heart-Anima	awme	ah-w-m-ahh
Liver-Primary	figedu	f-e-g-ahh-d-u
Sun-Primary	sow	s-euh-w
Moon-Primary	lue	l-u-ahh
Star-Primary	istrele	e-s-t-er-ay-l-ahh
Water-Primary	agwe	ah-g-w-ahh
Rain-Primary	ʃuve	shh-u-v-ahh
River-Primary	flumi	f-l-u-m-e
River-Rivus	ʁiw	rr-e-w
Lake-Primary	lagu	l-ah-g-u
Sea-Primary	maʁ	m-ah-rr
Salt-Primary	saw	s-ah-w
Stone-Primary	sejfu	s-ayj-shh-u
Stone-Petra	pedre	p-ay-d-er-ahh
Sand-Primary	areje	ah-er-ayj-ahh
Sand-Sabulum	sajβru	s-aj-bb-er-u
Dust-Pulwus	pɔ	p-euh
Earth-Primary	teʁe	t-ay-rr-ahh
Cloud-Primary	nuvẽj	n-u-v-ehnj
Fog-Primary	kalizẽj	k-ah-l-e-gzah-ehnj
Fog-Nebula	nevwe	n-eh-v-w-ahh
Fog-Tenebras	treves	t-er-eh-v-ahh-s
Fog-Fumata	fumasẽ	f-u-m-ah-s-ahh
Sky-Primary	sew	s-eh-w
Wind-Primary	vẽtu	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	sizẽ	s-een-zz-ahh

## Appendix 5 - Word Lists by Language

Road-Primary	viɐ	v-e-ahh
Road-Strata	istrade	e-s-t-er-ah-d-ahh
Road-Camminus	kamɪɲu	k-ah-m-een-VdPalatalNasal-u
Mountain-Primary	mōʃʃi	m-on-ts-e
Mountain-Montanea	mōtɛɲɛ	m-on-t-ahn-VdPalatalNasal-ahh
Night-Primary	noʃti	n-oj_diphthong-t-eee
Day-Primary	diɐ	d-e-ahh
Day-Diurna	ʒɔɲna	gzah-cuh-rr-n-ah
Year-Primary	ɛnu	ahh-n-u
Name-Nomen	nomi	n-oh-m-e
Tongue-Primary	liɣwɛ	l-een-g-w-ahh
I-Primary	ew	ay-w
We-Primary	noʃs	n-mid_low_diphthong-s
YouPlural-Primary	voʃs	v-mid_low_diphthong-s
YouSingular-Primary	tu	t-u
YouSingular-VostramMercedem	vose	v-oh-s-ay
ToDrink-Primary	bebeɐ	b-ay-b-ay-rr
ToEat-Primary	kome	k-oh-m-ay
ToEat-Manducare	mɛʒaɐ	m-ahn-gzah-ah-rr
ToBite-Primary	moɐdeɐ	m-oh-rr-d-ay-rr
ToBite-Morsicare	musəga	m-u-s-aah-g-ah
ToSuck-Primary	sugaɐ	s-u-g-ah-rr
ToSpit-Primary	kuspiɐ	k-u-s-p-e-rr
ToBreathe-Primary	ɐspiraɐ	rr-ay-s-p-e-er-ah-er
ToLaugh-Primary	ɐiɐ	rr-e-rr
ToSee-Primary	veɐ	v-ay-rr
ToHear-Primary	owviɐ	oh-w-v-e-rr
ToKnow-Sapere	sabeɐ	s-ah-b-ay-rr
ToKnow-Cognoscere	koɲeseɐ	k-oh-VdPalatalNasal-ay-s-ay-rr
ToThink-Primary	kuzitaɐ	k-u-gzah-e-t-ah-rr
ToThink-Pensare	pɛsaɐ	p-ehn-s-ah-rr
ToSmell-Sentire	sɛʃʃiɐ	s-ehn-ts-e-rr
ToSmell-Fragrare	ʃɛjraɐ	shh-ayj-er-ah-rr
ToFear-Primary	temeɐ	t-ay-m-ay-rr
ToFear-Tremere	tremeɐ	t-er-ay-m-ay-rr
ToSleep-Primary	doɐmiɐ	d-oh-rr-m-e-rr
ToLive-Primary	viveɐ	v-e-v-ay-rr
ToDie-Primary	moɐeɐ	m-oh-rr-ay-rr
ToKill-Mactare	mataɐ	m-ah-t-ah-rr
ToFight-Battuere	bateɐ	b-ah-t-ay-rr
ToHunt-Captiare	kasɐ	k-ah-s-ah-rr
ToHit-Primary	puʃaɐ	p-u-shh-ah-rr
ToCut-Primary	segaɐ	s-ay-g-ah-rr
ToCut-Curtare	koɐtaɐ	k-oh-rr-t-ah-rr
ToCut-Taliare	taʒaɐ	t-ah-yuh-ah-rr
ToSplit-Primary	dʒividʒiɐ	VdPalatoAlveolarSibilant-e-v-e-VdPalatoAlveolarSibilant-e-rr
ToSplit-Findere	fɛdeɐ	f-ehn-d-ay-rr
ToSplit-Partire	paɐʃʃiɐ	p-ah-rr-ts-e-rr
ToSplit-Separare	separaɐ	s-ay-p-ah-er-ah-rr
ToStab-Primary	pūʒiɐ	p-ooo-gzah-e-rr
ToScratch-Primary	ɐaɐ	rr-ah-ay-rr
ToScratch-Rasare	ɐazaɐ	rr-ah-zz-ah-rr
ToScratch-Rasicare	ɐaʃkaɐ	rr-ah-shh-k-ah-rr
ToScratch-Coctiare	kosaɹ	k-oh-s-ah-VdRetroflexApproximant
ToDig-Cavare	kevaɐ	k-ahh-v-ah-rr
ToDig-Excavare	iʃkevaɐ	e-shh-k-ahh-v-ah-rr
ToSwim-Primary	nadaɐ	n-ah-d-ah-rr

## Appendix 5 - Word Lists by Language

ToSwim-Navigare	naviʏaʁ	n-ah-v-eee-juh-ah-rr
ToFly-Primary	voaʁ	v-oh-ah-rr
ToWalk-Primary	kəmiʏaʁ	k-ahh-m-e-VdPalatalNasal-ah-rr
ToWalk-Ambitare	ẽdaʁ	ahn-d-ah-rr
ToCome-Primary	viʁ	v-e-rr
ToLieAsInABed-Primary	istẽdeʁ	e-s-t-ehn-d-ay-rr
ToLieAsInABed-lacere	ʒəzeʁ	gzah-ahh-zz-ay-rr
ToSit-Primary	seʁ	s-ay-rr
ToSit-Sedentare	sẽtar	s-ehn-t-ah-er
ToStand-Primary	ɨʃtar	eee-shh-t-ah-er
ToStand-Levare	levaʁ	l-ay-v-ah-rr
ToStand-Altiare	alsa	ah-ssha-s-ah
ToTurnIntransitive-Primary	toʁnaʁ	t-oh-rr-n-ah-rr
ToTurnIntransitive-Gyrare	ʒiraʁ	gzah-c-er-ah-er
ToTurnIntransitive-Virare	viʁaʁ	v-e-er-ah-er
ToTurnIntransitive-Torquere	turser	t-u-r-s-ay-r
ToFall-Primary	kəiʁ	k-ahh-e-er
ToFall-Tumbare	tõbaʁ	t-on-b-ah-rr
ToGive-Primary	daʁ	d-ah-rr
ToGive-Donare	doa	d-oh-ah
ToHold-Primary	teʁ	t-ay-rr
ToHold-Segurar	siɣuraʁ	s-eee-g-u-er-ah-rr
ToSqueeze-Primary	ɨʃprəmeʁ	e-shh-p-r-aah-m-ay-rr
ToSqueeze-Serrere	seʁa	s-ay-rr-ah
ToSqueeze-Serare	siʁaʁ	s-eee-rr-ah-er
ToSqueeze-Appetorare	əpiʁtaʁ	ahh-p-eee-er-t-ah-er
ToSqueeze-Stringere	əʃtriʒiʁ	aah-shh-t-r-een-gzah-e-r
ToRub-Exfricare	ɨʃfriɣaʁ	eee-shh-f-er-eee-g-ah-er
ToWash-Primary	lɐvaʁ	l-ahh-v-ah-er
ToWipe-Exsucare	ẽʃuɣaʁ	ehn-shh-u-g-ah-er
ToWipe-Limpidare	liʁaʁ	l-een-p-ah-er
ToPull-Primary	ʃiʁa	ts-e-er-ah
ToPull-Pulsare	puʃaʁ	p-u-shh-ah-er
ToPull-Trahere	traze	t-er-ah-zz-ay
ToThrow-Primary	ʒejtaʁ	gzah-ayj-t-ah-er
ToThrow-Lanceare	lɛsa	l-ahn-s-ah
ToTie-Aptare	ɐtaʁ	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-Jicare	ʒogaʁ	gzah-oh-g-ah-rr
ToFloat-Primary	flutuʁ	f-l-u-t-u-ah-rr
ToFlow-Primary	flwiʁ	f-l-w-e-rr
ToFlow-Colare	koʁ	k-oh-ah-rr
ToFlow-Excurrere	ɨʃkoʁeʁ	e-shh-k-oh-rr-ay-rr
ToFlow-Currere	koʁeʁ	k-oh-rr-ay-rr
ToFreeze-Primary	ʒilaʁ	gzah-eee-l-ah-er
ToSwell-Primary	ɨʃaʁ	een-shh-ah-er
ToSwell-Intumescere	itumeser	een-t-u-m-ay-s-ay-er
ToSwell-Crescere	kreseʁ	k-er-ay-s-ay-rr
ToBurn-Cremare	kɛjmaʁe	k-ahhj-m-ah-er-ay
ToBurn-Ardere	aʁdeʁ	ah-rr-d-ay-rr
ToBurn-Flagrare	flagʁaʁ	f-l-ah-g-rr-ah-rr
ToBurn-Incendere	ĩsendʒiaʁ	een-s-ay-n-VdPalatoAlveolarSibilant-l-ah-er
All-Totus	todu	t-oh-d-u
Many-Primary	mũjtu	m-ooo-jn-t-u

## Appendix 5 - Word Lists by Language

Many-Tantus	t̃etu	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	gr̃ɛdʒi	g-er-ahn-VdPalatoAlveolarSibilant-e
Long-Longum	lõgu	l-on-g-u
Long-Largum	laɣgu	l-ah-rr-g-u
Wide-Primary	latu	l-ah-t-u
Wide-Amplum	ẽʃu	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	br̃evi	b-er-eh-v-e
Narrow-Strictus	istrejtu	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	sut̃iʷ	s-u-ts-e-w
Warm-Primary	kawdu	k-ah-w-d-u
Cold-Primary	friu	f-er-e-u
Cold-Recens	ɣes̃ɛʃi	rr-ay-s-ehn-ts-e
Full-Primary	ʃɛju	shh-ahhj-u
New-Primary	novu	n-oh-v-u
Old-Primary	vɛj̃lu	v-ahhj-yuh-u
Good-Primary	bõ	b-on
Bad-Primary	maw	m-ah-w
Rotten-Putrem	pod̃ri	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	dʒirejtu	VdPalatoAlveolarSibilant-e-er-ayj-t-u
Round-Primary	ɣedõdu	rr-ay-d-on-d-u
Smooth-Nitidus	nɛdʒu	n-eh-VdPalatoAlveolarSibilant-u
Dry-Primary	seku	s-ay-k-u
Near-Primary	prosimu	p-er-oh-s-e-m-u
Near-Vicinus	viziɲu	v-e-zz-e-VdPalatalNasal-u
Right-Dextrem	dɛstru	d-eh-s-t-er-u
Left-Primary	sɛʃtru	s-eh-shh-t-er-u
Red-Primary	ɣoʃu	rr-oh-shh-NearCloseBackRounded
Red-Vermiculus	vɛɣmɛlu	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	ɛmɑɛlu	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	kɛʃ̃	k-ehnj
What-Primary	ki	k-e

## 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-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
Woman-Primary	femjẽ	f-ay-m-jg-ahh
Woman-Mulier	mulɛr	m-u-yuh-ay-er
Woman-Domina	donɛ	d-oh-n-ahh
Child-Primary	ĩfɛti	een-f-ahn-t-eee
Child-Ninnus	nenẽj	n-ay-n-ehnj
Wife-Primary	ĩʃpozẽ	eee-shh-p-oh-zz-ahh
Husband-Primary	mɛriðu	m-ahh-er-e-dd-u
Husband-Sponsus	ĩʃpozu	eee-shh-p-oh-zz-u
Mother-Primary	mɛj	m-ahnjn
Father-Primary	paj	p-aj
Father-Tata	tata	t-ah-t-ah
Animal-Bestia	bijɛ	b-e-shh-ahh
Fish-Piskem	pɛjʃi	p-ahhj-shh-eee
Bird-Avem	avi	ah-v-eee
Bird-Passerem	pasɛru	p-ah-s-ahh-er-u
Dog-Primary	kẽw	k-au_diphthong_nasal
Louse-Primary	pioɫu	p-e-oh-yuh-u
Snake-Primary	sɪpɛti	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	sɛlvɛ	s-eh-ssha-v-ahh
Stick-Primary	paw	p-ah-w
Fruit-Primary	frutɛ	f-er-u-t-ahh
Seed-Sementis	simɛti	s-eee-m-ehn-t-eee
Seed-Granum	grẽw	g-er-au_diphthong_nasal
Leaf-Primary	foɫɛ	f-oh-yuh-ahh
Leaf-Frondea	frõsɛ	f-er-on-s-ahh
Root-Primary	ʁɛjʃ	rr-ahh-e-shh
BarkOfATree-Primary	kɔrtisi	k-euh-er-t-e-s-eee
BarkOfATree-Corticea	kurtisɛ	k-u-er-t-e-s-ahh
Flower-Primary	flor	f-l-oh-er
Grass-Primary	ɛrvɛ	eh-er-v-ahh
Grass-Gramen	grɛmɛ	g-er-ahh-m-ahh
Rope-Restis	ɛɛʃti	rr-ay-shh-t-eee
Skin-Primary	kodie	k-oh-d-e-ahh
Skin-Pellis	peli	p-ay-l-eee
Meat-Primary	karni	k-ah-er-n-eee
Meat-Vivenda	vivẽdɛ	v-e-v-ehn-d-ahh
Blood-Primary	sɛgi	s-ahn-g-eee
Bone-Primary	osu	oh-s-u
FatNoun-Crassia	grafɛ	g-er-ah-shh-ahh
Egg-Primary	ovu	oh-v-u

## Appendix 5 - Word Lists by Language

Horn-Primary	kornu	k-oh-er-n-u
Tail-Primary	kaud̥	k-au-d-ahh
Feather-Penna	pen̥	p-ay-n-ahh
Hair-Primary	pilu	p-eee-l-u
Hair-Capillus	kəβelu	k-ahh-bb-ay-l-u
Head-Primary	kəβese	k-ahh-bb-ay-s-ahh
Head-Testa	tɛft̥	t-eh-shh-t-ahh
Ear-Primary	orejʌ̥	oh-er-ahhj-yuh-ahh
Eye-Primary	oʌu	oh-yuh-u
Nose-Nares	n̥erɪf	n-ahh-er-e-shh
Mouth-Primary	bok̥	b-oh-k-ahh
Tooth-Primary	d̥ɛti	d-ehn-t-eee
Fingernail-Primary	uɲ̥	u-VdPalatalNasal-ahh
Foot-Primary	p̥	p-eh
Leg-Perna	p̥ɛm̥	p-eh-er-n-ahh
Knee-Geniculum	ʒw̥ɛʌu	gzah-w-ahh-yuh-u
Hand-Primary	m̥ɛw̃	m-au_diphthong_nasal
Wing-Primary	a	ah
Belly-Pantex	p̥ɛs̥	p-ahn-s-ahh
Guts-Primary	ɛ̃tr̥ɛɲ̥	ehn-t-er-ahh-VdPalatalNasal-ahh
Neck-Primary	k̥ɔlu	k-euh-l-u
Back-Spatula	ɪʃpadw̥	e-shh-p-ah-d-w-ahh
Breast-Primary	s̥ɛju	s-ahhj-u
Breast-Pectus	p̥ɛjtu	p-ahhj-t-u
Heart-Primary	kor	k-oh-er
Heart-Anima	alm̥	ah-l-m-ahh
Liver-Primary	fɪy̥ɛðu	f-e-juh-ahh-dd-u
Sun-Primary	sɔ̃	s-euh-ssha
Moon-Primary	lu̥	l-u-ahh
Star-Primary	ɪʃtr̥el̥	eee-shh-t-er-ay-l-ahh
Water-Primary	agw̥	ah-g-w-ahh
Rain-Primary	ʃuv̥	shh-u-v-ahh
River-Primary	flumi	f-l-u-m-eee
River-Rivus	ɛ̃iu	rr-e-u
Lake-Primary	layu	l-ah-juh-u
Sea-Primary	mar	m-ah-er
Salt-Primary	sal	s-ah-l
Stone-Primary	s̥ɛjfu	s-ahhj-shh-u
Stone-Petra	p̥ɛðr̥	p-eh-dd-er-ahh
Sand-Primary	ɛ̃r̥ɛj̥	ahh-er-ahhj-ahh
Sand-Sabulum	sajβru	s-aj-bb-er-u
Dust-Pulwus	p̥ɔ	p-euh
Earth-Primary	t̥ɛk̥	t-eh-rr-ahh
Cloud-Primary	nuv̥ɛ̃j̃	n-u-v-ahnjn
Fog-Primary	k̥ɛlɪz̃ɛ̃j̃	k-ahh-l-e-gzah-ahnjn
Fog-Nebula	n̥ɛvw̥	n-eh-v-w-ahh
Fog-Tenebras	tr̥ɛv̥ɛ̃f̃	t-er-eh-v-ahh-shh
Fog-Fumata	fum̥as̥	f-u-m-ah-s-ahh
Sky-Primary	sew	s-eh-w
Wind-Primary	v̥ɛtu	v-ehn-t-u
Snow-Primary	n̥ɛvi	n-eh-v-eee
Smoke-Primary	fumu	f-u-m-u
Fire-Focus	foyu	f-oh-juh-u
Ash-Cinisia	s̃ize	s-een-zz-ahh
Road-Primary	vi̥	v-e-ahh
Road-Strata	ɪʃtrað̥	e-shh-t-er-ah-dd-ahh
Road-Camminus	k̥ɛmɪpu	k-ahh-m-e-VdPalatalNasal-u

## Appendix 5 - Word Lists by Language

Mountain-Primary	mōti	m-on-t-eee
Mountain-Montanea	mōtɛɲɛ	m-on-t-ahh-VdPalatalNasal-ahh
Night-Primary	nojti	n-oj_diphthong-t-eee
Day-Primary	diɛ	d-e-ahh
Day-Diurna	ʒɔɲna	gzah-euh-rr-n-ah
Year-Primary	ɛnu	ahh-n-u
Name-Nomen	nomi	n-oh-m-eee
Tongue-Primary	liɣwɛ	l-eeen-g-w-ahh
I-Primary	ew	ay-w
We-Primary	noʃ	n-euh-shh
YouPlural-Primary	voʃ	v-oh-shh
YouSingular-Primary	tu	t-u
YouSingular-VostramMercedem	vɔse	v-euh-s-ay
ToDrink-Primary	biʃɛr	b-eee-bb-ay-er
ToEat-Primary	kumer	k-u-m-ay-er
ToEat-Manducare	mɛʒar	m-ahn-gzah-ah-er
ToBite-Primary	murðɛr	m-u-er-dd-ay-er
ToBite-Morsicare	musəgar	m-u-s-aah-g-ah-r
ToSuck-Primary	sugar	s-u-g-ah-er
ToSpit-Primary	kuʃpiɾ	k-u-shh-p-e-er
ToBreathe-Primary	ʁiʃpiɾar	rr-eee-shh-p-e-er-ah-er
ToLaugh-Primary	ʁiɾ	rr-e-er
ToSee-Primary	ver	v-ay-er
ToHear-Primary	owvir	oh-w-v-e-er
ToKnow-Sapere	sɛbɛr	s-ahh-b-ay-er
ToKnow-Cognoscere	kuniser	k-u-VdPalatalNasal-eee-s-ay-er
ToThink-Primary	kuʒitar	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	ʃɛjɾar	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	mukɛr	m-u-rr-ay-er
ToKill-Mactare	metar	m-ahh-t-ah-er
ToFight-Battuere	bɛtɛr	b-ahh-t-ay-er
ToHunt-Captiare	kɛsar	k-ahh-s-ah-er
ToHit-Primary	puʃar	p-u-shh-ah-er
ToCut-Primary	siɣar	s-eee-juh-ah-er
ToCut-Curtare	kurtar	k-u-er-t-ah-er
ToCut-Taliare	tɛɭar	t-ahh-yuh-ah-er
ToSplit-Primary	diviðir	d-e-v-e-dd-e-er
ToSplit-Findere	fɛðɛr	f-ehn-d-ay-er
ToSplit-Partire	pɛrtir	p-ahh-er-t-e-er
ToSplit-Separare	sipɛɾar	s-eee-p-ahh-er-ah-er
ToStab-Primary	pūʒir	p-ooo-gzah-e-er
ToScratch-Primary	ʁɛɾ	rr-ahh-ay-er
ToScratch-Rasare	ʁɛʒar	rr-ahh-zz-ah-er
ToScratch-Rasicare	ʁɛʃkar	rr-ahh-shh-k-ah-er
ToScratch-Coctiare	kusar	k-u-s-ah-er
ToDig-Cavare	kɛvar	k-ahh-v-ah-er
ToDig-Excavare	iʃkɛvar	e-shh-k-ahh-v-ah-er
ToSwim-Primary	nɛðar	n-ahh-dd-ah-er
ToSwim-Navigare	nɛviɣar	n-ahh-v-eee-juh-ah-er
ToFly-Primary	vwar	v-w-ah-er
ToWalk-Primary	kɛmipar	k-ahh-m-e-VdPalatalNasal-ah-er

## Appendix 5 - Word Lists by Language

ToWalk-Ambitare	ēdar	ahn-d-ah-er
ToCome-Primary	vir	v-e-er
ToLieAsInABed-Primary	iflēder	e-shh-t-ehn-d-ay-er
ToLieAsInABed-lacere	zøzer	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-Gyrare	zīrar	gzah-e-er-ah-er
ToTurnIntransitive-Virare	zīrar	gzah-e-er-ah-er
ToTurnIntransitive-Torquere	turser	t-u-r-s-ay-r
ToFall-Primary	kēir	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	ifprømer	e-shh-p-r-aah-m-ay-r
ToSqueeze-Serrere	sørar	s-aah-VIUvularTrill-ah-er
ToSqueeze-Serare	sīrar	s-eee-rr-ah-er
ToSqueeze-Appetorare	ēpirtar	ahh-p-eee-er-t-ah-er
ToSqueeze-Stringere	əftrīzīr	aah-shh-t-r-eeen-gzah-e-r
ToRub-Exfricare	iffriyar	eee-shh-f-er-eee-juh-ah-er
ToWash-Primary	lēvar	l-ahh-v-ah-er
ToWipe-Exsucare	ēfuyar	ehn-shh-u-juh-ah-er
ToWipe-Limpidare	līpar	l-eeen-p-ah-er
ToPull-Primary	tīrar	t-e-er-ah-er
ToPull-Pulsare	pujar	p-u-shh-ah-er
ToPull-Trahere	trøzer	t-er-ahh-zz-ay-er
ToThrow-Primary	zejtar	gzah-ayj-t-ah-er
ToThrow-Lanceare	lēsar	l-ahn-s-ah-er
ToTie-Aptare	ētar	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	kētar	k-ahn-t-ah-er
ToPlay-Jiocare	zuyar	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	kurer	k-u-rr-ay-er
ToFreeze-Primary	zilar	gzah-eee-l-ah-er
ToSwell-Primary	īfar	een-shh-ah-er
ToSwell-Intumescere	ītumeser	een-t-u-m-ay-s-ay-er
ToSwell-Crescere	kriřser	k-er-eee-shh-s-ay-er
ToBurn-Cremare	kejmaøe	k-ayj-m-ah-rr-ay
ToBurn-Ardere	ørder	ahh-er-d-ay-er
ToBurn-Flagrare	flagrar	f-l-ah-g-er-ah-er
ToBurn-Incendere	īsēdjar	een-s-ehn-d-jg-ah-er
All-Totus	toðu	t-oh-dd-u
Many-Primary	mūjtū	m-ooo-jn-t-u
Many-Tantus	tētū	t-ahn-t-u
Some-Primary	ałgū	ah-ssha-g-ooo
Few-Primary	powku	p-oh-w-k-u



## Appendix 5 - Word Lists by Language

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	brevis	b-er-eh-v-eee
Narrow-Strictus	iftrējtū	eee-shh-t-er-ahhj-t-u
Thin-Primary	miuđu	m-e-u-dd-u
Thin-Delicatus	dełyađu	d-eh-ssha-juh-ah-dd-u
Thin-Subtilis	sułfiw	s-u-ts-e-w
Warm-Primary	kaldū	k-ah-l-d-u
Cold-Primary	friu	f-er-e-u
Cold-Recens	kesēłfi	rr-ay-s-ehn-ts-e
Full-Primary	fejū	shh-ahhj-u
New-Primary	novu	n-oh-v-u
Old-Primary	vełū	v-ay-yuh-u
Good-Primary	bō	b-on
Bad-Primary	maw	m-ah-w
Rotten-Putrem	pođri	p-oh-dd-er-eee
Dirty-Primary	sordidu	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	eyuđu	ahh-juh-u-dd-u
Smooth-Nitidus	nedžu	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	dełtru	d-eh-shh-t-er-u
Left-Primary	sełtru	s-eh-shh-t-er-u
Red-Primary	kołfu	rr-oh-shh-u
Red-Vermiculus	virmejalu	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	emeɾelu	ahh-m-ahh-er-eh-l-u
White-Primary	alvu	ah-l-v-u
One-Primary	ũ	ooo
Two-Duos	dojɸ	d-oj_diphthong-shh
Two-Duas	dueɸ	d-u-ahh-shh
Three-Primary	treɸ	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	kēj	k-ahnjn
What-Primary	ki	k-eee
When-Quando	kwēdu	k-w-ahn-d-u

## Appendix 5 - Word Lists by Language

How-Quomodo	komu	k-oh-m-u
Not-Primary	nēw	n-au_diphthong_nasal
Not-Nec	nēj	n-ahnjn
At-Primary	ɐ	ahh
In-In	ēj	ahnjn
With-Cum	kō	k-on
And-Et	i	e
And-Si	sī	s-een
Because-Quod	ki	k-eee

## Catalan

Cognate	IPA	Sounds
Woman-Primary	fembra	f-ay-m-b-er-ah
Woman-Mulier	muʎe	m-u-yuh-ay
Woman-Domina	dɔnə	d-euh-n-aah
Child-Ninnus	nen	n-ay-n
Wife-Primary	əspɔzə	aah-s-p-euh-zz-aah
Husband-Primary	marit	m-ah-er-e-t
Husband-Sponsus	əspɔs	aah-s-p-euh-s
Mother-Primary	marə	m-ah-er-aah
Father-Primary	parə	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	vɛrm	v-eh-er-m
Tree-Primary	abrə	ah-b-er-aah
Forest-Primary	selba	s-ay-l-b-ah
Stick-Primary	pal	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	fuʎə	f-u-yuh-aah
Root-Primary	ərel	aah-r-eh-l
BarkOfATree-Skortea	əskɔrsə	aah-s-k-euh-r-s-aah
Flower-Primary	flɔ	f-l-euh
Grass-Primary	erbə	ay-r-b-aah
Grass-Gramen	gram	g-er-ah-m
Skin-Primary	konnə	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	ɔs	euh-s
FatNoun-Crassia	grɛʃ	g-er-ay-shh
Egg-Primary	ɔw	euh-w
Horn-Primary	kɔrn	k-euh-r-n
Tail-Primary	kua	k-u-ah
Feather-Primary	plomə	p-l-oh-m-aah
Feather-Penna	pɛpə	p-eh-VdPalatalNasal-aah
Hair-Primary	pɛl	p-eh-l
Hair-Capillus	kəbeʎ	k-aah-b-eh-yuh
Head-Primary	kap	k-ah-p
Head-Testa	testə	t-ay-s-t-aah

## Appendix 5 - Word Lists by Language

Ear-Primary	ureʎə	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	ʒənoʎ	gzah-aah-n-oh-yuh
Wing-Primary	alə	ah-l-aah
Belly-Primary	bentrə	b-ay-n-t-er-aah
Belly-Pantex	paŋʃə	p-ah-VdPalatalNasal-shh-aah
Guts-Primary	əntrəpə	aah-n-t-er-ah-VdPalatalNasal-aah
Neck-Primary	kɔʎ	k-euh-yuh
Back-Primary	dos	d-oh-s
Back-Spatula	əspaʎʎə	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	ʎunə	yuh-u-n-aah
Star-Primary	əstɛl	aah-s-t-eh-l
Water-Primary	ajɣwə	aj-juh-w-aah
Rain-Primary	pluzə	p-l-u-gzah-aah
River-Rivus	riw	r-e-w
Lake-Primary	ʎak	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	ərenə	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	newlə	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	ʒɛʎ	gzah-eh-ssha
Ice-Glacies	glas	g-l-ah-s
Smoke-Primary	fum	f-u-m
Fire-Focus	fɔk	f-euh-k
Ash-Primary	sendrə	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	muntəpə	m-u-n-t-ah-VdPalatalNasal-aah
Night-Primary	nit	n-e-t
Day-Primary	diə	d-e-aah
Day-Diurnus	ʒorn	gzah-oh-er-n
Year-Primary	aŋ	ah-VdPalatalNasal
Name-Nomen	nɔm	n-euh-m
Tongue-Primary	ʎɛŋgwə	yuh-eh-nya-g-w-aah
I-Primary	ʒə	gzah-euh
YouPlural-Primary	bus	b-u-s

## Appendix 5 - Word Lists by Language

YouSingular-Primary	tu	t-u
YouSingular-VostramMercedem	voste	v-oh-s-t-ay
ToDrink-Primary	bewrə	b-eh-w-er-aah
ToEat-Manducare	məɲʒa	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	bewrə	b-eh-w-er-aah
ToHear-Primary	ui	u-e
ToKnow-Sapere	səβe	s-aah-bb-eh
ToKnow-Cognoscere	kunɛʃə	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	puna	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	fendrə	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	puni	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-lacere	zawrə	gzah-ah-w-er-aah
ToStand-Primary	əsta	aah-s-t-ah
ToStand-Levare	ləba	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-Virare	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
ToHold-Primary	təni	t-aah-n-e

## Appendix 5 - Word Lists by Language

ToSqueeze-Primary	əspremə	aah-s-p-er-ay-m-aah
ToSqueeze-Serrere	səra	s-aah-r-ah
ToSqueeze-Stringere	əstreŋə	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	ləba	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	əmpeŋə	aah-m-p-eh-VdPalatalNasal-aah
ToThrow-Primary	xita	xha-e-t-ah
ToThrow-Lanceare	lənsa	yuh-aah-n-s-ah
ToTie-Primary	liya	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	kreʃə	k-er-ay-shh-aah
ToBurn-Cremare	krəma	k-r-aah-m-ah
ToBurn-Flammare	flama	f-ssha-ah-m-ah
ToBurn-Incendere	ənsendə	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	əlqu	aah-l-g-u
Few-Primary	pək	p-euh-k
Other-Primary	altə	ah-l-t-er-aah
Big-Grandem	gran	g-r-ah-n
Long-Longum	loŋ	yuh-oh-nya
Long-Largum	lərk	yuh-ah-er-k
Wide-Amplum	amplə	ah-m-p-l-aah
Thick-Primary	gras	g-er-ah-s
Thick-Spissum	əspəs	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	əstrət	aah-s-t-er-eh-t
Thin-Primary	mənut	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	kaɪ	k-ah-ssha
Cold-Primary	frət	f-er-eh-t
Full-Primary	pɛ	p-ssha-eh
New-Primary	nəw	n-euh-w

## Appendix 5 - Word Lists by Language

Old-Primary	veʎ	v-ay-yuh
Good-Primary	bɔn	b-euh-n
Bad-Primary	mal	m-ah-l
Rotten-Primary	puðrit	p-u-dd-er-e-t
Straight-Primary	dɹæt	d-er-eh-t
Round-Primary	rədo	r-aah-d-oh
SharpAsAKnife-Primary	əɡut	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	əprɔp	aah-p-er-euh-p
Near-Vicinus	bɔi	b-aah-e
Far-Primary	ʎunta	yuh-u-n-t-ah
Right-Dextrem	destrə	d-ay-s-t-er-aah
Red-Primary	ros	r-oh-s
Red-Vermiculus	bərmɛʎ	b-aah-r-m-eh-yuh
Red-Rubeus	rudʒe	r-u-VdPalatoAlveolarSibilant-ay
Green-Primary	vɛrt	v-eh-er-t
Yellow-Croceus	grɔk	g-er-euh-k
White-Primary	alb	ah-l-b
One-Primary	un	u-n
Two-Duos	dos	d-oh-s
Three-Primary	tɹes	t-r-eh-s
Four-Primary	kwaɹə	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	kɔm	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
Woman-Primary	fœm	f-uuh-m
Woman-Domina	dam	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	pehō	p-eh-h-on
Bird-Avicellum	uhe	u-h-eh
Dog-Primary	ʎɛ̃	ts-ehnn
Louse-Primary	pju	p-jg-u
Snake-Primary	sjeɹpɛ̃	s-jg-eh-r-p-ehn
Worm-Primary	vjer	v-jg-ay-r

## Appendix 5 - Word Lists by Language

Tree-Primary	ɔp	euh-p
Stick-Primary	pa	p-a
Fruit-Primary	fryt	f-r-eeh-t
Seed-Sementis	simēs	s-e-m-ehn-s
Seed-Granum	grin	g-r-e-n
Leaf-Primary	fɔj	f-mid_low_diphthong
Root-Radicina	resen	r-eh-s-eh-n
BarkOfATree-Skortea	hwes	h-w-eh-s
Flower-Primary	flœr	f-l-uuh-r
Grass-Primary	jep	jg-eh-p
Skin-Primary	kojin	k-øj_diphthong-e-n
Skin-Pellis	pɛ	p-eh
Meat-Primary	ʃar	ts-a-r
Blood-Primary	sɔg	s-oon-g
Bone-Primary	ɔhe	euh-h-eh
FatNoun-Crassia	krɔh	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	pwel	p-w-eh-l
Hair-Capillus	dʒive	VdPalatoAlveolarSibilant-e-v-eh
Head-Primary	ʃes	ts-eh-s
Head-Testa	ʃes	ts-eh-s
Ear-Primary	ɔREj	euh-VIUvularTrill-ehj
Eye-Primary	uj	u-jg
Nose-Primary	ne	n-ay
Mouth-Primary	bɔk	b-euh-k
Mouth-Gula	gœj	g-uuh-jg
Tooth-Primary	dē	d-ehnn
Fingernail-Primary	ɔg	oon-g
Foot-Primary	pi	p-e
Leg-Gamba	dʒap	VdPalatoAlveolarSibilant-NasalA-p
Knee-Geniculum	ɲɔ	VdPalatalNasal-VdPalatalNasal-euh
Hand-Primary	mē	m-ehnn
Wing-Primary	el	ay-l
Belly-Primary	vēt	v-ehnn-t
Belly-Pantex	pās	p-NasalA-s
Neck-Primary	ko	k-oh
Back-Primary	do	d-oh
Back-Spatula	spal	s-p-ah-l
Breast-Pectorina	pwetrin	p-w-eh-t-r-e-n
Heart-Primary	kuɾ	k-u-rr
Heart-Anima	am	a-m
Liver-Primary	fœt	f-uuh-t
Sun-Soliculus	solo	s-euh-l-euh
Moon-Primary	lɔn	l-uu-n
Star-Primary	stœl	s-t-uuh-l
Water-Primary	ɛw	eh-w
Rain-Primary	plɛf	p-l-eh-f
River-Rivus	re	r-eh
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	piɾ	p-e-rr

## Appendix 5 - Word Lists by Language

Sand-Primary	aren	ah-r-eh-n
Sand-Sabulum	savjõ	s-a-v-jg-oon
Earth-Primary	teɾ	t-ay-rr
Fog-Nebula	njyl	n-jg-eeh-l
Sky-Primary	sir	s-e-r
Wind-Primary	vẽ	v-ehnn
Snow-Primary	nivaj	n-e-v-aj
Ice-Glacies	glẽs	g-l-eh-s
Fire-Focus	fœ	f-uuh
Ash-Primary	sẽt	s-ehnn-t
Road-Primary	voj	v-oj_diphthong
Road-Camminus	ʃimẽ	ts-e-m-ehnn
Mountain-Primary	mõ	m-oon
Mountain-Montanea	mõtaj	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	nõ	n-oon
Tongue-Primary	lẽv	l-ehnn-v
I-Primary	dʒi	VdPalatoAlveolarSibilant-e
We-Primary	no	n-oh
YouPlural-Primary	vo	v-oh
YouSingular-Primary	ti	t-e
ToDrink-Primary	bœɾ	b-uu-rr
ToEat-Manducare	mapi	m-ah-VdPalatalNasal-e
ToSuck-Primary	sysi	s-eeh-s-e
ToVomit-Primary	vomi	v-oh-m-e
ToBlow-Primary	sɔfle	s-euh-f-l-ay
ToLaugh-Primary	rir	r-e-r
ToSee-Primary	vẽj	v-ehj
ToHear-Primary	ɔji	mid_low_diphthong-e
ToKnow-Sapere	savœɾ	s-ah-v-uu-VIUVularTrill
ToKnow-Cognoscere	kinɔh	k-e-n-euh-h
ToThink-Pensare	pẽse	p-ehnn-s-ay
ToSmell-Sentire	sẽti	s-ehnn-t-e
ToSleep-Primary	dweɾmi	d-w-eh-rr-m-e
ToDie-Primary	mœri	m-euh-r-e
ToKill-Tutari	tuwe	t-u-w-ay
ToFight-Battuere	bat	b-ah-t
ToHunt-Captiare	ʃesi	ts-eh-s-e
ToCut-Taliare	tẽji	t-eh-jg-e
ToSplit-Findere	fẽd	f-ehnn-d
ToSplit-Partire	parti	p-a-r-t-e
ToStab-Primary	põd	p-oon-d
ToDig-Cavare	ʃave	ts-ah-v-ay
ToSwim-Navigare	nɔji	n-euh-jg-e
ToFly-Primary	vole	v-euh-l-ay
ToCome-Primary	vini	v-e-n-e
ToLieAsInABed-lacere	dʒir	VdPalatoAlveolarSibilant-e-r
ToStand-Levare	lẽve	l-eh-v-ay
ToTurnIntransitive-Primary	turne	t-u-r-n-ay
ToTurnIntransitive-Virare	vire	v-e-r-ay
ToFall-Primary	ʃer	ts-eh-r
ToFall-Tumbare	tume	t-u-m-ay
ToGive-Donare	dine	d-e-n-ay
ToHold-Primary	tini	t-e-n-e



## Appendix 5 - Word Lists by Language

ToSqueeze-Serare	sere	s-eh-r-ay
ToSqueeze-Stringere	strend	s-t-r-ehnn-n-d
ToRub-Primary	frōji	f-r-mid_low_diphthong-e
ToRub-Frictare	frōte	f-r-euh-t-ay
ToWash-Primary	lave	l-ah-v-ay
ToWipe-Exsucare	sye	s-eeh-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	lāsi	l-NasalA-s-e
ToTie-Primary	lōji	l-mid_low_diphthong-e
ToSew-Primary	kōz	k-uu-zz
ToCount-Primary	kote	k-oh-t-ay
ToSay-Primary	dir	d-e-r
ToSing-Primary	ʃūte	ts-NasalA-t-ay
ToPlay-Jiocare	dʒuwe	VdPalatoAlveolarSibilant-u-w-ay
ToFlow-Colare	kōle	k-euh-l-ay
ToFlow-Currere	kōri	k-euh-VIUvularTrill-e
ToFreeze-Primary	dʒale	VdPalatoAlveolarSibilant-ah-l-ay
ToSwell-Primary	ēfle	ehn-f-l-ay
ToSwell-Conflare	gōfle	g-oon-f-l-ay
All-Totus	tō	t-euh
Some-Primary	alkōn	ah-l-k-euh-n
Few-Primary	po	p-oh
Other-Primary	ot	oh-t
Big-Grandem	grā	g-r-NasalA
Long-Longum	lō	l-oon
Long-Largum	ladʒ	l-ah-VdPalatoAlveolarSibilant
Wide-Amplum	āp	NasalA-p
Thick-Primary	kra	k-r-a
Thick-Spissum	spe	s-p-eh
Thick-Grossus	grō	g-er-euh
Heavy-Primary	grav	g-r-a-v
Heavy-Lurdus	lur	l-u-r
Small-Primary	piti	p-e-t-e
Short-Primary	kur	k-u-r
Short-Brevis	brēf	b-r-eh-f
Narrow-Strictus	strō:	s-t-r-o
Thin-Primary	mōenu	m-uuh-n-u
Warm-Primary	ʃō	ts-oh
Cold-Primary	frō	f-VIUvularTrill-uu
Full-Primary	plē	p-l-ehnn
New-Primary	nu	n-u
Old-Primary	vi	v-e
Good-Primary	bō	b-oon
Bad-Primary	mava	m-a-v-ah
Straight-Primary	drō	d-r-uu
Round-Primary	rō	r-oon
SharpAsAKnife-Primary	agy	ah-g-eeh
Smooth-Nitidus	net	n-eh-t
Wet-Primary	ym	ech-m
Dry-Primary	seff	s-eh-ts
Near-Primary	prom	p-r-oh-m
Near-Pressus	prē	p-r-eh
Near-Vicinus	vehē	v-eh-h-ehnn
Right-Dextrem	djestr	d-jg-eh-s-t-r
Left-Primary	sepes	s-eh-VdPalatalNasal-eh-s

## Appendix 5 - Word Lists by Language

Red-Primary	rɔdʒ	r-euh-VdPalatoAlveolarSibilant
Red-Rubeus	rɔʃ	r-euh-ts
Green-Primary	ver	v-ay-r
Yellow-Primary	dʒen	VdPalatoAlveolarSibilant-eh-n
One-Primary	ɔ̃	oon
Two-Duos	dø:s	d-o-s
Three-Primary	trəs	t-r-uu-s
Four-Primary	kwat	k-w-ah-t
Five-Primary	sɛk	s-ehnn-k
There-Primary	la	l-ah
Who-Qui	ki	k-e
What-Primary	kwɛ	k-w-eh
When-Quando	kwand	k-w-ah-n-d
How-Quomodo	kom	k-oh-m
Not-Primary	nɔ̃	n-oon
Not-Nec	ni	n-e
At-Primary	a	ah
In-In	ɛn	eh-n
With-Abhoc	avu	ah-v-u
And-Et	ɛ	eh
And-Si	si	s-e

## Friulian

Cognate	IPA	Sounds
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	uʃʃjel	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	semenʃɛ	s-ay-m-eh-n-ts-eh
Seed-Granum	gran	g-r-ah-n
Leaf-Primary	fwee	f-w-ay-ay
BarkOfATree-Skortea	skwartse	s-k-w-ah-r-VAlveolarSibilantAffricate-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	vwɛs	v-w-eh-s
Egg-Primary	u:f	U-f
Horn-Primary	kwa:r	k-w-A-r

## Appendix 5 - Word Lists by Language

Tail-Primary	kɔdɛ	k-euh-d-eh
Feather-Primary	plumɛ	p-l-u-m-eh
Feather-Penna	pɛnɛ	p-eh-n-ay
Hair-Primary	pɛ:l	p-ai-l
Hair-Capillus	cavej	tya-ah-v-ayj
Head-Primary	ca:f	tya-A-f
Head-Testa	tɛstɛ	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	bɔcɛ	b-euh-tya-eh
Mouth-Gula	gɔle	g-euh-l-ay
Tooth-Primary	dint	d-e-n-t
Fingernail-Primary	ɔŋgule	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-Geniculum	dʒenoli	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	kwɛl	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	stɛle	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	savalɔn	s-ah-v-ah-l-euh-n
Dust-Primary	pɔlvar	p-euh-l-v-ah-r
Earth-Primary	tjɛre	t-jg-eh-r-ay
Cloud-Nubilus	nu:l	n-U-l
Fog-Fumata	fumate	f-u-m-ah-t-ay
Sky-Primary	ʃi:l	ts-E-l
Wind-Primary	'vint	v-e-n-t
Snow-Primary	ne:f	n-ai-f
Ice-Glacies	glatʃɛ	g-l-ah-ts-ay
Smoke-Primary	fum	f-u-m
Fire-Focus	fu:k	f-U-k
Ash-Cinisia	ʃinize	ts-e-n-e-zz-eh
Mountain-Primary	mɔnt	m-euh-n-t
Mountain-Montanea	mɔntape	m-euh-n-t-ah-VdPalatalNasal-ay
Night-Primary	not	VdPalatalNasal-euh-t
Day-Primary	di	d-e
Day-Diurnata	dʒornade	VdPalatoAlveolarAffricate-oh-r-n-ah-d-ay

## Appendix 5 - Word Lists by Language

Year-Primary	aŋ	ah-nya
Name-Nomen	noŋ	n-euh-nya
Tongue-Primary	'lengɛ	l-eh-n-g-eh
I-Primary	jo	jg-oh
We-Primary	no:	n-O
YouPlural-Primary	vo:	v-O
YouSingular-Primary	tu	t-u
ToDrink-Primary	bevi	b-ay-v-e
ToEat-Manducare	maŋja:	m-ah-nya-VdPalatalStop-A
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	penŋsa:	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	maŋja:	m-ah-ts-A
ToFight-Battuere	bati	b-ah-t-e
ToHunt-Captiare	caŋja:	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	sentā:	s-ay-n-t-A
ToStand-Primary	sta:	s-t-A
ToStand-Levare	leva:	l-ay-v-A
ToStand-Altiare	altja:	ah-l-ts-A
ToTurnIntransitive-Primary	torna:	t-oh-r-n-A
ToTurnIntransitive-Gyrare	dʒira:	VdPalatoAlveolarSibilant-e-r-A
ToTurnIntransitive-Virare	dʒira:	VdPalatoAlveolarSibilant-e-r-A
ToFall-Primary	ʃjade	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

## Appendix 5 - Word Lists by Language

ToSqueeze-Primary	esprimi	ay-s-p-r-e-m-e
ToSqueeze-Stringere	strengi:	s-t-r-eh-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	lanʃa:	l-ah-n-ts-A
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	djuja:	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	grwəs	g-r-w-eh-s
Heavy-Primary	grevi	g-r-eh-v-e
Small-Pitulus	piʃful	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	bøn	b-euh-n
Bad-Primary	ma:l	m-A-l
Dirty-Spurcus	spørk	s-p-euh-r-k
Straight-Primary	dret	d-r-eh-t
Round-Primary	tarønt	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	viʃin	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	sipestri	s-e-VdPalatalNasal-ay-s-t-r-e

## Appendix 5 - Word Lists by Language

Red-Primary	rəs	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	'fɪŋk	ts-e-nya-k
Here-Primary	aki	ah-k-e
Who-Qui	kwi	k-w-e
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
Woman-Primary	femeje	f-ay-m-ay-jg-ay
Woman-Mulier	mujere	m-u-jg-ay-r-ay
Woman-Domina	doʔamnə	d-oaa-m-n-aah
Husband-Primary	mərit	m-aah-r-e-t
Husband-Socius	sots	s-oh-VIAlveolarSibilantAffricate
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-eee-j-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	səmintʃə	s-aah-m-eee-n-ts-aah
Seed-Granum	griw	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-Skorteia	skoartʃə	s-k-oaa-er-VIAlveolarSibilantAffricate-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	sindʒe	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

## Appendix 5 - Word Lists by Language

Head-Testa	tseastə	VlAlveolarSibilantAffricate-eaha-s-t-aah
Ear-Primary	ureke	u-r-ay-k-ay
Eye-Primary	okɪ	oh-kpalatal
Nose-Primary	nas	n-ah-s
Mouth-Primary	bukə	b-u-k-aah
Mouth-Gula	gurə	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	piŋʃor	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	negurə	n-ay-g-u-r-aah
Fog-Caecia	tʃeəʃə	ts-eaha-ts-aah
Sky-Primary	tʃer	ts-ay-er
Wind-Primary	vint	v-eee-n-t
Snow-Primary	neɹə	n-eaha
Ice-Primary	dʒer	VdPalatoAlveolarSibilant-ay-r
Ice-Glacies	geətsə	g-eaha-VlAlveolarSibilantAffricate-aah
Smoke-Primary	fum	f-u-m
Fire-Focus	fok	f-oh-k
Ash-Cinisia	tʃenuʃə	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
I-Primary	jew	jg-ay-w
We-Primary	noj	n-oj_diphthong
YouPlural-Primary	voj	v-oj_diphthong
YouSingular-Primary	tu	t-u
ToDrink-Primary	beɹə	b-eaha
ToEat-Manducare	minka	m-eee-n-k-ah

## Appendix 5 - Word Lists by Language

ToBite-Morsicare	murseka	m-u-r-s-ay-k-ah
ToSuck-Primary	sudže	s-u-VdPalatoAlveolarSibilant-ay
ToSpit-Exconspuere	skujpa	s-k-u-jg-p-ah
ToVomit-Primary	voame	v-oaa-m-ay
ToBlow-Primary	sufła	s-u-f-l-ah
ToLaugh-Primary	ride	er-eee-d-ay
ToSee-Primary	vedeā	v-ay-d-eaha
ToHear-Primary	auzi	au-zz-e
ToKnow-Primary	ſti	shh-t-e
ToKnow-Cognoscere	kunoaſte	k-u-n-oaa-shh-t-ay
ToThink-Primary	kudžeta	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	uſſide	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	tāja	t-aah-jg-ah
ToSplit-Primary	divide	d-e-v-e-d-ay
ToSplit-Separare	separa	s-ay-p-ah-r-ah
ToStab-Primary	pundže	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-er-ah
ToWalk-Mergere	merdže	m-ay-r-VdPalatoAlveolarSibilant-ay
ToCome-Primary	veni	v-ay-n-e
ToLieAsInABed-Primary	ekstinde	ay-k-s-t-e-n-d-ay
ToLieAsInABed-Iacere	zəſſeā	zz-aah-ts-eaha
ToSit-Primary	ſedeā	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	toarſe	t-oaa-r-ts-ay
ToFall-Primary	kədeā	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	strindže	s-t-r-eee-n-VdPalatoAlveolarSibilant-ay
ToRub-Primary	freka	f-r-ay-k-ah
ToWash-Primary	la	l-ah
ToWipe-Extergere	ſterdže	shh-t-ay-r-VdPalatoAlveolarSibilant-ay
ToWipe-Exsucare	uska	u-s-k-ah
ToPull-Pulsare	pulsa	p-u-l-s-ah
ToPull-Trahere	tradže	t-r-ah-VdPalatoAlveolarSibilant-ay
ToPush-Primary	impindže	eee-m-p-e-n-VdPalatoAlveolarSibilant-ay
ToThrow-Eruncare	aruſka	ah-er-u-nya-k-ah
ToTie-Primary	lega	l-ay-g-ah
ToSew-Primary	coāse	tya-oaa-s-ay
ToCount-Numerare	numara	n-u-m-ah-r-ah
ToSay-Primary	ziſe	zz-e-ts-ay
ToSay-Exponere	spune	s-p-u-n-ay
ToSing-Primary	kinta	k-eee-n-t-ah



## Appendix 5 - Word Lists by Language

ToPlay-Jiocare	zuka	gzah-u-k-ah
ToFloat-Primary	fluctua	f-l-u-tya-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	kreʃte	k-er-ay-shh-t-ay
ToBurn-Ardere	arde	ah-er-d-ay
ToBurn-Incendere	inʃindʒe	eee-n-ts-e-n-d-gzah-ay
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-VlAlveolarSibilantAffricate-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-VlAlveolarSibilantAffricate-e-r-ay
Warm-Primary	kald	k-ah-l-d
Cold-Recens	reʃfe	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	veʃʃin	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	ʃinʃ	ts-e-n-ts
There-Primary	la	l-ah
Who-Quem	ʃine	ts-e-n-ay
What-Primary	ʃe	ts-ay
When-Quando	kind	k-eee-n-d
How-Quomodo	kum	k-u-m

## Appendix 5 - Word Lists by Language

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	ʃi	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			
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

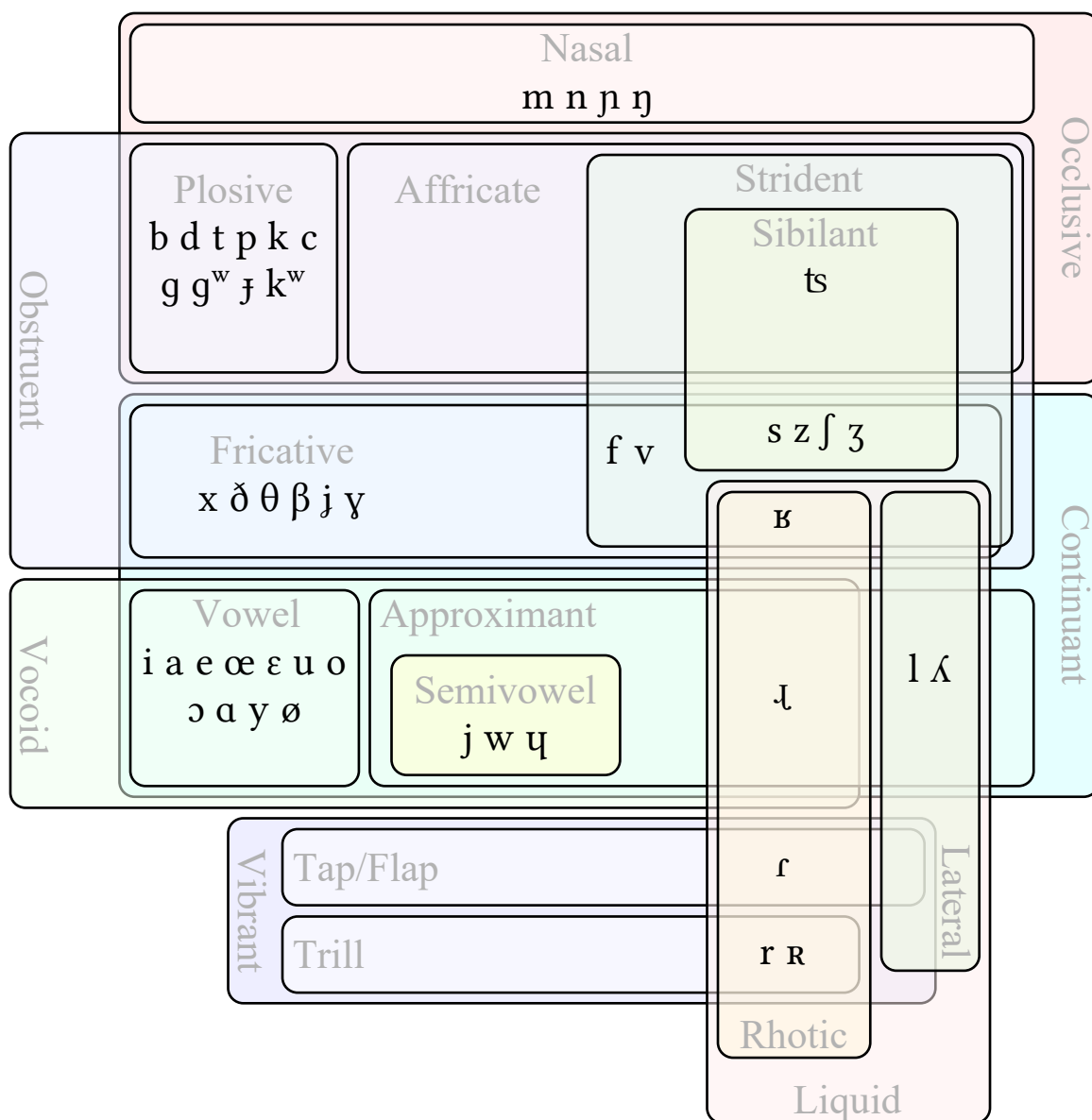
Manner
Central
Lateral

Shaded areas denote articulations judged to be impossible.

### Other Segments

w	Labial-Velar Vocoid Semivowel Voiced Approximant	ɭ	Alveolar Voiced Velarized Pulmonic Lateral Approximant
ɥ	Labial-Palatal Vocoid Semivowel Voiced Approximant	dz	Alveolar Voiced Sibilant Affricate
ɸ	Continuant Palatalized Labial	ɰ	Palatal Nasal Approximant
ɸ	Palato-Alveolar Voiced Sibilant Affricate		

## 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	aj̃ 0250, 006A Near-open Central Vowel Diphthong
ẽ 0250, 0303 Near-open Central Rounded Nasal Vowel	ã 0251, 0303 Near-close Back Nasal Vowel	ɔj̃ 0254, 006A Open-mid Back Vowel Diphthong	õ 0254, 0303 Open-mid Back Rounded Nasal Vowel
ɛj̃ 025B, 006A Open-mid Near-Front Vowel Diphthong	ɛ: 025B, 02D0 Open-mid Near-Front Vowel Long Vowel Continuant	ẽ̃ 025B, 0303 Open-mid Near-Front Nasal Vowel	gʷ 0261, 02B7 Labial-Velar Voiced Pulmonic Stop Occlusive Labial Velar



## Appendix 8 - International Phonetic Alphabet

<b>ɨj</b>	<b>ɨw</b>	<b>a</b>	<b>b</b>
0268, 006A Close Central Vowel Diphthong	0268, 0077 Close Central Vowel Diphthong	0061 Open Near-Front Vocoid Vowel Continuant Parent Vowel	0062 Bilabial Voiced Pulmonic Stop Occlusive
<b>c</b>	<b>d</b>	<b>e</b>	<b>f</b>
0063 Palatal Pulmonic Stop Occlusive	0064 Alveolar Voiced Pulmonic Stop Occlusive	0065 Close-mid Front Vocoid Vowel Continuant Parent Vowel	0066 Labio-Dental Pulmonic Fricative Strident Obstruent Continuant Labial Dental
<b>h</b>	<b>i</b>	<b>j</b>	<b>k</b>
0068 Glottal Pulmonic Fricative	0069 Close Front Vocoid Vowel Continuant Parent Vowel	006A Palatal Vocoid Semivowel Voiced Pulmonic Approximant Continuant	006B Velar Pulmonic Stop Occlusive
<b>l</b>	<b>m</b>	<b>n</b>	<b>o</b>
006C Alveolar Vocoid Voiced Pulmonic Lateral Approximant Rhotic Liquid	006D Bilabial Voiced Pulmonic Nasal Occlusive	006E Alveolar Voiced Pulmonic Nasal Occlusive	006F Close-mid Back Rounded Vocoid Vowel Continuant Parent Vowel
<b>p</b>	<b>r</b>	<b>s</b>	<b>t</b>
0070 Bilabial Pulmonic Stop Occlusive	0072 Alveolar Voiced Pulmonic Trill Rhotic Vibrant Liquid	0073 Alveolar Pulmonic Sibilant Fricative Strident Obstruent Continuant	0074 Alveolar Pulmonic Stop Occlusive
<b>u</b>	<b>v</b>	<b>w</b>	<b>x</b>
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	0078 Velar Pulmonic Fricative Obstruent Continuant
<b>y</b>	<b>z</b>	<b>ʒ</b>	<b>ɔ̃</b>
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	00F5 Close-mid Back Rounded Nasal Vowel

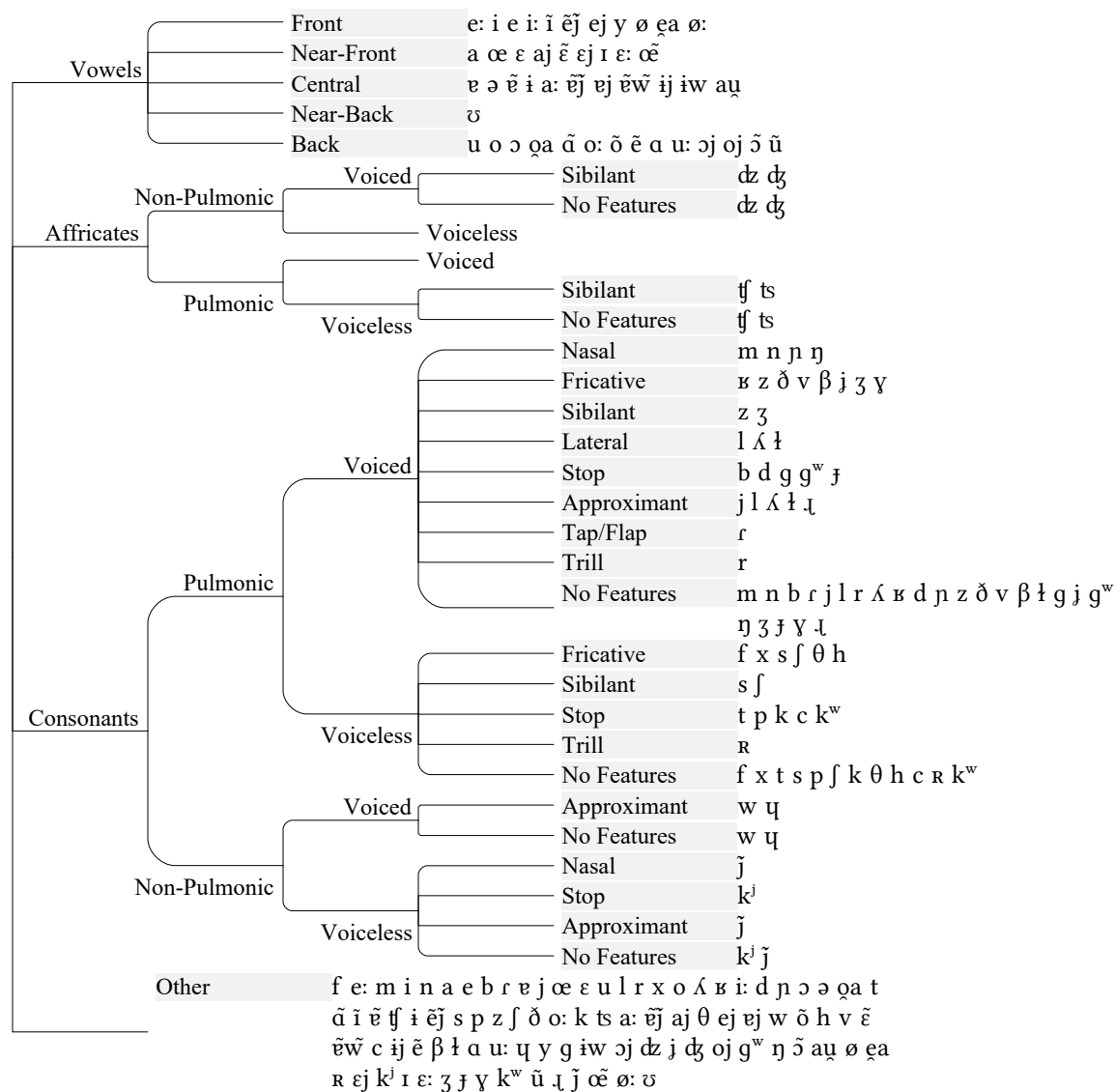
## Appendix 8 - International Phonetic Alphabet

ø	ĩ	ŋ	œ
00F8	0129	014B	0153
Close-mid Front Rounded Vocoid Vowel Continuant Parent Vowel	Close Front Nasal Vowel	Velar Voiced Pulmonic Nasal Occlusive	Open-mid Near-Front Rounded Vocoid Vowel Continuant
ũ	ɐ	ɑ	ɔ
0169	0250	0251	0254
Open Back Nasal Vowel	Near-open Central Rounded Vowel Parent Vowel	Open Back Vocoid Vowel Continuant Parent Vowel	Open-mid Back Rounded Vocoid Vowel Continuant Parent Vowel
ə	ɛ	ʃ	ɡ
0259	025B	025F	0261
Close-mid Central Vowel Parent Vowel	Open-mid Near-Front Vocoid Vowel Continuant Parent Vowel	Palatal Voiced Pulmonic Stop Occlusive	Velar Voiced Pulmonic Stop Occlusive
ɣ	ɥ	ɨ	ɪ
0263	0265	0268	026A
Velar Voiced Pulmonic Fricative Obstruent Continuant	Labial-Palatal Vocoid Semivowel Voiced Approximant Continuant Palatalized Labial	Close Central Vowel Parent Vowel	Near-close Near-Front Vowel Parent Vowel
ɭ	ɲ	ɭ	ɻ
026B	0272	027B	027E
Alveolar Voiced Velarized Pulmonic Lateral Approximant	Palatal Voiced Pulmonic Nasal Occlusive	Retroflex Vocoid Voiced Pulmonic Approximant Rhotic Liquid	Alveolar Voiced Pulmonic Tap/Flap Rhotic Vibrant Liquid
ʀ	ʁ	ʃ	ʊ
0280	0281	0283	028A
Uvular Pulmonic Trill Rhotic Vibrant Liquid	Uvular Voiced Pulmonic Fricative Rhotic Strident Obstruent Continuant Liquid	Post-Alveolar Pulmonic Sibilant Fricative Strident Obstruent Continuant	Near-close Near-Back Rounded Vowel

## Appendix 8 - International Phonetic Alphabet

<p style="text-align: center;">ʌ</p> <p style="text-align: center;">028E</p> <p style="text-align: center;">Palatal Vocoid Voiced Pulmonic Lateral Approximant Rhotic Liquid</p>	<p style="text-align: center;">ʒ</p> <p style="text-align: center;">0292</p> <p style="text-align: center;">Post-Alveolar Voiced Pulmonic Sibilant Fricative Strident Obstruent Continuant</p>	<p style="text-align: center;">j</p> <p style="text-align: center;">029D</p> <p style="text-align: center;">Palatal Voiced Pulmonic Fricative Obstruent Continuant</p>	<p style="text-align: center;">dʒ</p> <p style="text-align: center;">02A3</p> <p style="text-align: center;">Alveolar Voiced Sibilant Affricate</p>
<p style="text-align: center;">dʒ</p> <p style="text-align: center;">02A4</p> <p style="text-align: center;">Palato-Alveolar Voiced Sibilant Affricate</p>	<p style="text-align: center;">ts</p> <p style="text-align: center;">02A6</p> <p style="text-align: center;">Alveolar Pulmonic Sibilant Affricate Occlusive Strident</p>	<p style="text-align: center;">tʃ</p> <p style="text-align: center;">02A7</p> <p style="text-align: center;">Palato-Alveolar Pulmonic Sibilant Affricate</p>	<p style="text-align: center;">β</p> <p style="text-align: center;">03B2</p> <p style="text-align: center;">Bilabial Voiced Pulmonic Fricative Obstruent Continuant</p>
<p style="text-align: center;">θ</p> <p style="text-align: center;">03B8</p> <p style="text-align: center;">Dental Pulmonic Fricative Obstruent Continuant Dental</p>	<p style="text-align: center;">ẽ</p> <p style="text-align: center;">1EBD</p> <p style="text-align: center;">Close Back Nasal Vowel</p>		

## Appendix 9 - Feature Tree



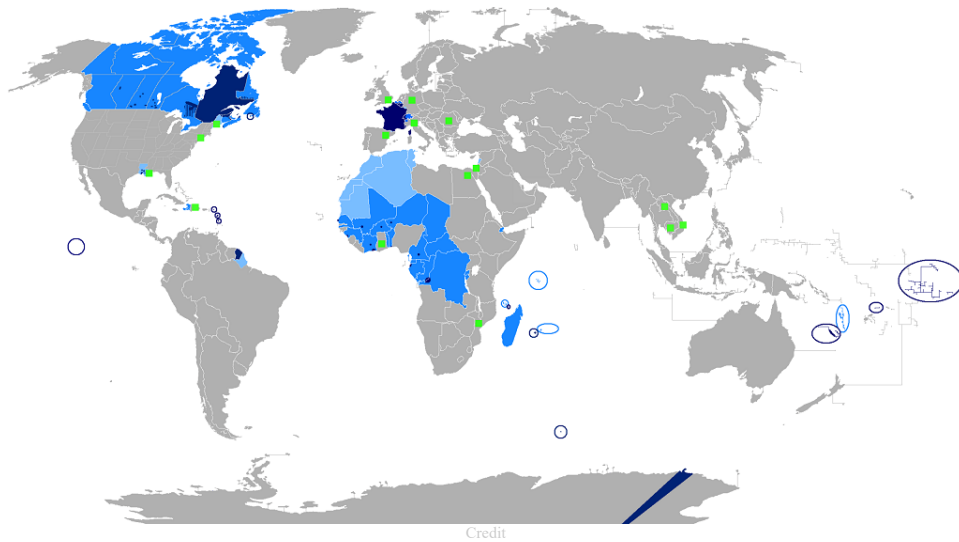
## Appendix 10 - Diacritics

### Diacritics

~	Undefined escape character	~	Nasalized	..	Centralized
+	Advanced	-	Retracted	˘	RisingTone
◦	Voiceless	ɰ	Implosive	˙	Syllabic
ˈ	Ejective	ʁ	Pharyngealized	ˆ	Falling tone
◌̥	Non-syllabic	◌̚	No audible release	◌̜	Rhotic hook
◌̟	Advanced tongue root	◌̠	Apical	˝	Extra low tone
◌̝	Less rounded	◌̡	Dental	˜	Velarized or Pharyngealized
↘	Global fall	◌̢	Velarized	ˊ	High tone
h	Aspirated	j	Palatalized	˚	Creaky voiced
˘	Low tone	l	Lateral release	ˉ	Mid tone
◌̥	Laminal	◌̜	Linguo-Labial	◌̚	Nasal release
◌̞	More rounded	◌̚	Lowered	◌̚	Retracted tongue root
↗	Global rise	◌̚	Raised	˝	Extra high tone
˚	Breathy voiced	◌̚	Voiced	w	Labialized
◌̥	Extra short	˘	Mid-centralized	↓	Down-step
↑	Up-step	ː	Long	˙	Half-long
	Indeterminacy in french vowels		Begin Non-segmental notation		End non-segmental notation
◌̥	Voiced epiglottal fricative	!	Post-alveolar click		Minor group
	Dental click		Major group		Alveolar lateral click
‡	Palatal click	◦	Voiceless descender	-	Combining macron
◌̥	Tie-bar below	◌̚	Tie-bar above	‡	Ready made combination
→	Becomes		Separator		



### French

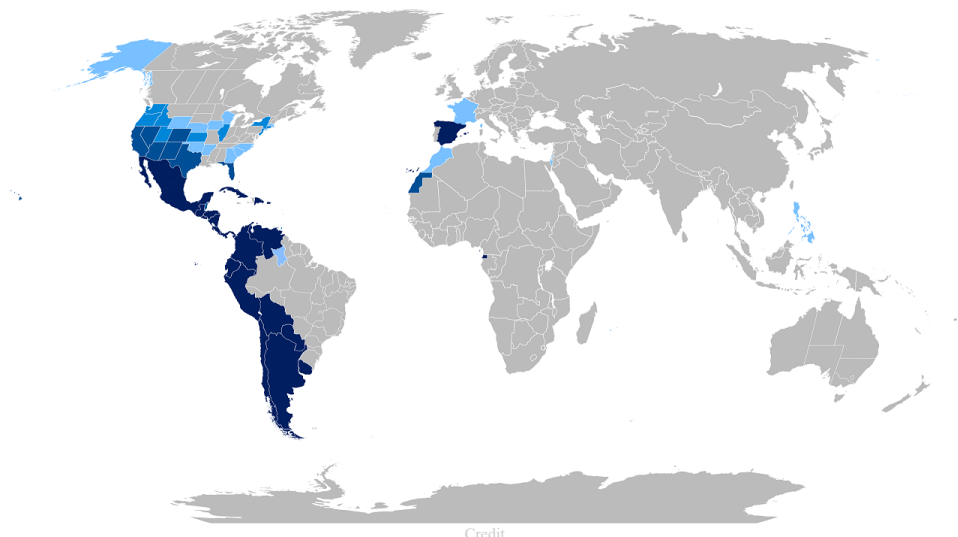


A Romance language of the Indo-European family. It descended from the Vulgar Latin of the Roman Empire, as did all Romance languages. French evolved from Gallo-Romance, the Latin spoken in Gaul, and more specifically in Northern Gaul. Its closest relatives are the other langues d'oïl—languages historically 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.

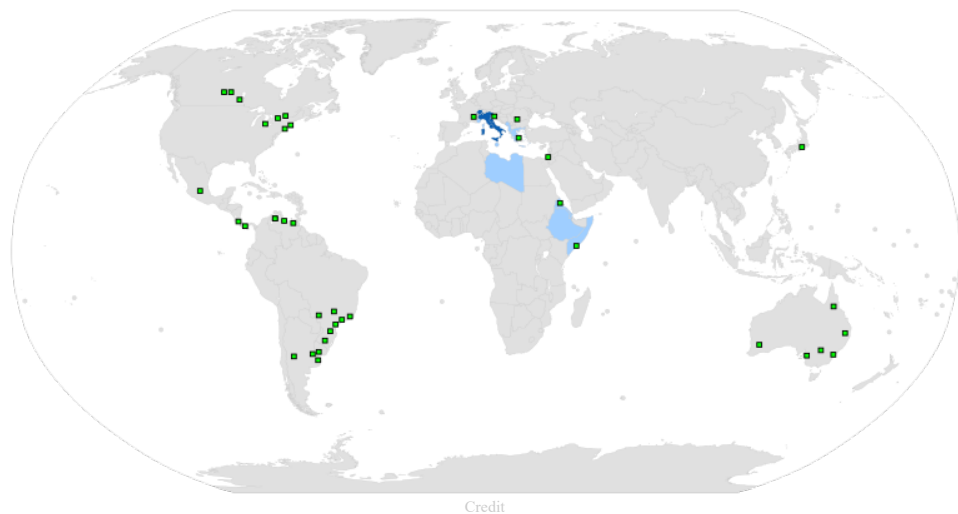
French is an official language in 29 countries across multiple continents, most of which are members of the Organisation internationale de la Francophonie (OIF), the community of 84 countries which share the official use or teaching of French. French is also one of six official languages used in the 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.

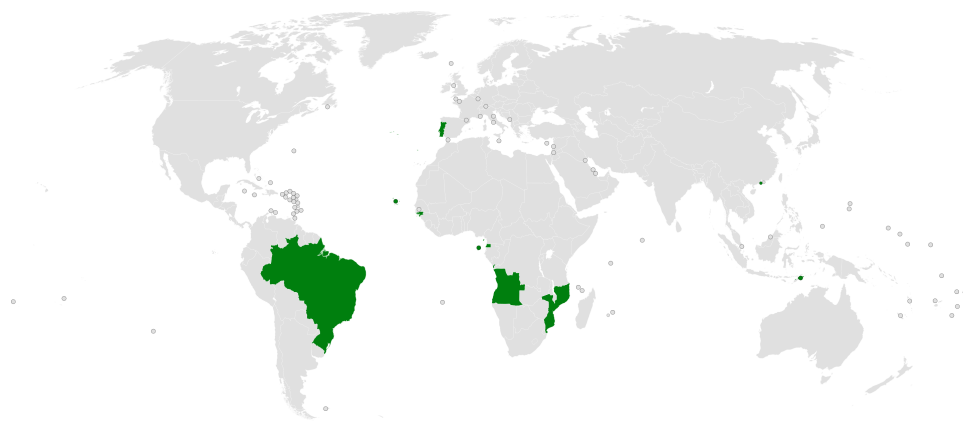
### Brazilian Portuguese



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



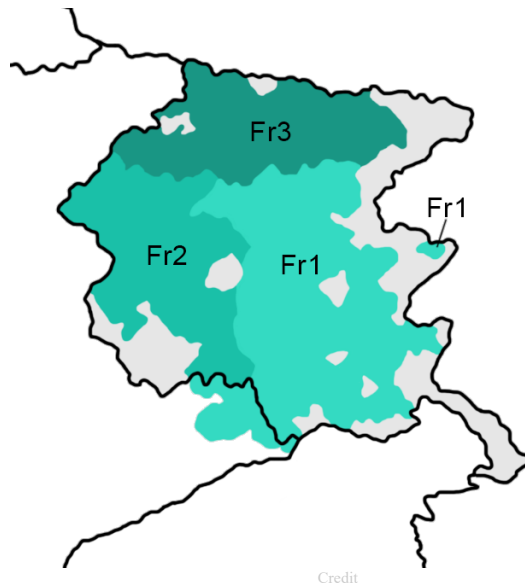
Credit

## 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".