Understanding Language Evolution Using an Event-Based Model

Appendices

- 1. Character Assignments
- 2. Partition Assignments
- 3. Concepts Used
- 4. Results

Appendix 1 - Character Assignments

Each segment gets a different number

13 j 14 n 15 s 16 u 17 \int 18 oj 19 v 20 b 21 t 22 u: y 24 d 25 f 26 e: 27 m 28 a 29 f 30 e 31 œ 32 ε 1 34 r 35 x 36 x 37 y 38 x 39 y 40 y 41 y 42 33 $\tilde{\mathbf{q}}$ 45 $\tilde{\mathbf{i}}$ 46 $\tilde{\mathbf{e}}$ 47 \mathbf{tf} 48 $\hat{\mathbf{i}}$ 49 $\tilde{\mathbf{a}}$ 50 \mathbf{p} 51 \mathbf{z} 52 $\tilde{\mathbf{d}}$ 53 \mathbf{k} $\tilde{\mathfrak{J}}$ 44 43 a: 56 $\widetilde{\mathbf{e}}_{\mathbf{j}}$ 57 R 58 D 59 θ 60 ej 62 δ 63 ε: ej 61 54 ts 55 \emptyset : 66 $\frac{1}{4}$ 67 $\frac{1}{6}$ 68 $\frac{1}{6}$ 69 $\frac{1}{6}$ 70 $\frac{1}{6}$ 71 $\frac{1}{6}$ 72 $\frac{1}{6}$ 73 $\frac{1}{6}$ 64 65 U \tilde{e} 76 η 77 q^w 78 \tilde{e} \tilde{u} 79 q 80 g 81 g 82 $\tilde{\epsilon}$ 83 74 75 д 87 j 88 œ 89 au 90 w 85 $ilde{ ext{u}}$ 86 84

Appendix 2 - Partition Assignments

Basic Rules

1 Nasal Vowel

ẽj ố ũ ĩ ẽ ã ẽj õ ẽ ẽu ẽ ũ œ

2 Vowel

e o: ə o i ɔ ı u oj u: y e: a v œ ε i: oa i a: p ej vj ε: ø: εj ø ea aj α ɔ: au

3 Nasal Consonant

nmŋŋĵw

4 Non Sylabic Sonorant

wjlr

5 Consonant

gzjdzsſvbtdfrx́льh tfpzðk ts Rθųłck^w γgg^wβjtfj

	I	We	YouPlural	YouSingular
Latin	- e g o:	n o: - s -	wo: - s	t u:
French	3 9	n u	v u	t y
Spanish	j o	n o - s -	b o - s	t u
Italian	i o	n o: i	v o: i -	t u
PortugueseBrazi	- e - w	n o j - s	v o j s	t u
		1 1311	1 131	
Portuguese	- e - w	$ \mathbf{n} \mathbf{o} - \mathbf{f} $	$ \mathbf{v} \mathbf{o} $ - $ \int$	l t lu
Catalan	3 5		b u - s	t u
Walloon	dg 1	n o - - -	v o - s	ty
Friulian	j o	n o:	v o:	t u
Romanian	j e - w	n oj - -	v oj - -	t u
	YouSingular	Woman	Woman-Mulier	Woman-Domina
	-VostramMercedem			
Latin		f e: - m i - n - a	m u l i e r e m	d o m i n a
French		f a - m		d a m - - -
	- u s t e d	- e - m - b r - a	m u x - e r	d o - - n a
Italian		f e m m i - n - a	m o A A e	d o n - n a
PortugueseBrazi	v o s - e -	f e - m e - - e	m u 1 - e 1	$ \mathbf{d} \mathbf{o} $ - $ \mathbf{n} \mathbf{e}$
Portuguese	v o s - e -	f e - m j e	m u \lambda - e r	d o n e
Catalan	$ \mathbf{v} \mathbf{o} \mathbf{s} \mathbf{t} \mathbf{e} $ -	f e - m - b r - a	m u K - e - - -	$ \mathbf{d} \mathbf{o} - \mathbf{n} \mathbf{o}$
Walloon		f œ - m		d œ m - - -
Friulian		$ f \epsilon - m i - n - \epsilon$	m u i: r	d o - n e
Romanian		f e - m e - j e	m u - j e r e -	d oam - n ə
	ManHumanBeing	ManHumanBeing-Homo	Child	Child-Ninnus
Latin	h o m i - n e m	- h o m o:	i n f a n t e m	
French	- o m - - - -	$ - \tilde{\mathfrak{z}} - - - $	$ \tilde{\alpha} - f \tilde{\alpha} - - - - $	
Spanish	o m - b r e		i n f a n t e -	n i n o
Italian	~~	w o m o -	- f a n t e -	n i n o
PortugueseBrazi	o m ej		$ \tilde{i} - \tilde{f} \tilde{g} - f i $	n e n ēj
Portuguese	ɔ m ẽj - - - -		$ \tilde{i} - f \tilde{e} - t \tilde{i} $	n a n a
Portuguese Catalan	o m ej		1 - 1 6 - f 4 -	n e n e n e n e n e n e n e n e
Walloon	- 3 m		$ \epsilon $ - $ \mathbf{f} $ $ \mathbf{\tilde{a}} $ - $ - - $ -	11 C II -
Friulian	- 3 m		c 1 a - - -	
Romanian	- o m			
	Wife	Wife-Mulier	Husband	Husband-Sponsus
Latin	- s p o n s a	m u l i e r -	m a r i: t u s	
French	- r			
	e - p u - z -		m a в i	e - p u
Spanish	e - p u - z - e s p o - s a	m u x - e r -	mariðo-	e - p u e s p o - s o -
Spanish Italian	e s p o - s a	m u x - e r - m o λ λ e	тагі бо-	e s p o - s o -
Italian	e s p o - s a - s p o - z a	m o \lambda \lambda \lambda \left e	mariðo-	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
La fina	e s p o - s a - s p o - z a		тагі бо-	e s p o - s o -
Italian PortugueseBrazi	e s p o - s a - s p o - z a i s p o - z a	m o \lambda \lambda \lambda \left e	mariðo-	e s p o - s o - - s p o - z o - i s p o - z u -
Italian	e s p o - s a - s p o - z a i s p o - z a	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	m a r i ð o - m a r i t o - m a r i d u -	e s p o - s o - - s p o - z o - i s p o - z u -
Italian PortugueseBrazi Portuguese	e s p o - s a - s p o - z a i s p o - z a	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	m a r i ð o - m a r i t o - m a r i d u -	e s p o - s o - - s p o - z o - i s p o - z u -
Italian PortugueseBrazi Portuguese Catalan	e s p o - s a - s p o - z a i s p o - z a	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	m a r i ð o - m a r i t o - m a r i d u - m a r i ð u - m a r i t	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Italian PortugueseBrazi Portuguese Catalan Walloon	e s p o - s a - s p o - z a i s p o - z a	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	m a r i ð o - m a r i t o - m a r i d u -	e s p o - s o - - s p o - z o - i s p o - z u -

	Husband-Socius	Mother	Fish-Piskem	Fish-Pescion
Latin	s o k i u s	m a: t r e m	p i s k e m	
French		m e -		p w a s õ
Spanish		m a ð r e -	p e θ	
Italian	s o f - o -	m a: d r e -	p e f f e -	
PortugueseBrazi		m ej	p ej ∫ - i -	
Portuguese		m ej	p ej ʃ - i -	
Catalan		m a - r ə -	p e f - -	
Walloon		$ \mathbf{m} \mathbf{e} - \mathbf{R} - \mathbf{r} $		$ p - \epsilon h \tilde{o} $
Friulian		$ \mathbf{m} \mathbf{p} - \mathbf{r} \mathbf{i} $ -	$p \mid \epsilon \mid s \mid - \mid - \mid$	
Romanian	s o ts		$ \mathbf{p} \mathbf{e} \int \mathbf{t} \mathbf{e} $ -	
	Bird-Avem	Bird-Avicellum	Bird-Passerem	Fruit
Latin	a w e m	- a w i - k - e l l u m	passerem	$\mathbf{f} \mid \mathbf{r} \mid \mathbf{u} \cdot \mid - \mid \mathbf{k} \mid \mathbf{t} \mid \mathbf{u} \mid \mathbf{s}$
French		w a - - - z - o - - - -		f
Spanish	a b e -		p a - x a r o -	f r u - t o -
Italian		$ - - u - t t - \epsilon l l o - \epsilon \epsilon c c c c c c c c$	passero-	f r u - t t o -
PortugueseBrazi	a v i -		pa-seru-	f r u t e -
D 1				
Portuguese	a v i		p a - s e r u -	f r u t e -
Catalan	a w - -	$ \begin{vmatrix} - & - & u & - & - & s & - & e & - & \Lambda & - & - & - & - & - & - & - & -$		f r u j - t
Walloon		- - u: - - n - ε: - - - - - - - - -		f R y
Friulian		- - u - - y j ε - 1 - -		f r u t
Romanian	Flores	Ness	p a - s ə r e - Nose-Nares	f r u - k t
Latin	Flower f l o: r e m	Nose n a: s u s	Nose-Nares	Sun s o: 1 e m
French	f 1 œ в	n e		S O. 1 C III
Spanish	flor-	n a s o -	$ \mathbf{n} \mathbf{a} \mathbf{r} \mathbf{i} \mathbf{\theta} $ -	s o 1 - -
Italian				
	fiorce-	n a s o -		8 0 1 6 -
PortugueseBrazi	f j o: r e -	n a: s o -	n a r i tf e	s o l e -
PortugueseBrazi		n a: s o -		S O I E - - - - -
	f 1 o B - -	n a: s o -	n a r i s -	$ \mathbf{s} \mathbf{o} \mathbf{w}$ – –
Portuguese				
	f 1 o r	n a s - -	n a r i s -	s o w - -
Portuguese Catalan	f 1 o g - - -			s o w - - s o 1 - -
Portuguese Catalan Walloon	f 1 0 B - - -	$ \begin{vmatrix} n & a & s & - & - \\ n & e & - & - & - \end{vmatrix} $		s o w - -
Portuguese Catalan Walloon Friulian	f 1 0 B - -	n a s n e n a: s	n a r i s - n e r i f - n a: r r s -	s o w - -
Portuguese Catalan Walloon Friulian	f 1 0 B - -	n a s - -	n a r i s - n e r i ∫ - n a: r r s - Star - s t - e: 1 1 a	s o w - -
Portuguese Catalan Walloon Friulian Romanian Latin French	f 1 0 B - -	n a s n e n a: s n a s Moon 1 u: n a 1 y n -	n a r i s -	s o w - -
Portuguese Catalan Walloon Friulian Romanian Latin French Spanish	f 1 0 B - -	n a s n e n a: s n a s Moon 1 u: n a 1 y n - 1 u n a	n a r i s -	s o w - -
Portuguese Catalan Walloon Friulian Romanian Latin French	f 1 0 B - -	n a s n e n a: s n a s Moon 1 u: n a 1 y n -	n a r i s -	s o w - -
Portuguese Catalan Walloon Friulian Romanian Latin French Spanish	f 1 0 B - - -	n a s n e n a: s n a s Moon 1 u: n a 1 y n - 1 u n a	n a r i s -	s o w - -
Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi	f 1 0 B - - -	n a s - -	n a r i s - n e r i ∫ - n a r I s - Star - s t - e 1 1 a e s t r e - j a - s t r e - 1 e i s t r e - 1 e	s 3 w - -
Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi	f 1 0 B - - -	n a s - -	Star Star - s t - e: l l a e - t w a - l - e s t r e - j a - s t r e - l v i f t r e - l v	s 3 w - -
Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi Portuguese Catalan	f 1 0 B - - -	n a s - -	n a r i s -	s 3 w - -
Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi	f 1 0 B - - -	n a s - -	Star - s t - e: l l a e - l e s t r e - l e i s t r e - l e i s t r e - l e i s t r e - l e i s t r e - l e	s 3 w - -

	Rain	Lake	Sea	Salt
Latin	p 1 u - w i a	l a k u m	m a r e	s a: 1 e m
French	p 1 q i -	1 a k	ш ε в -	s ε 1
Spanish	j - u - b j a	1 a g o -	mar -	s a 1
Italian	pjoddy-a	1 a g o -	m a r e	s a 1 e -
PortugueseBraz		$\begin{vmatrix} 1 & a & g & u \end{vmatrix}$	ma u -	s a w
Portuguese	$\int - \mathbf{u} - \mathbf{v} - \mathbf{e} $	1 a y u -	mar -	s a 1 - -
Catalan	p 1 u - 3 - ə	А a k	mar -	s a 1
Walloon	p l u: - в	1 a k	т е в -	s e
Friulian	p 1 o j e	1 a: t	ma: r -	s a: 1
Romanian	p 1 oa j e	1 a k	m a r e	s a r e -
	Earth	Fog	Fog-Nebula	Fog-Tenebrae
Latin	t - e r r a	k a: l i: g i n e m	n - e - b u 1 a	t e n e: b r aj
French	t - e - r -		n j o - - 1 y	
Spanish	t j e - r a	k a l i n a -	n j e - b - l a	
Italian	t - ε r r a	k a l i d i n e -	n - e b b - j a	t e n e b r e
PortugueseBraz	t - e - r s	$ \mathbf{k} \mathbf{a} \mathbf{l} \mathbf{i} \mathbf{g} \tilde{\mathbf{e}} \tilde{\mathbf{j}} - - - $	$ \mathbf{n} - \mathbf{\epsilon} - \mathbf{v} \mathbf{w} - \mathbf{e} $	
Portuguese	t - ε - в е	$ \mathbf{k} \mathbf{e} \mathbf{l} \mathbf{i} \mathbf{g} \mathbf{\tilde{e}\tilde{j}} - - - $	n - ε - v w - e	
Catalan	t - E - r ə		n - e - - w 1 ə	
Walloon	t - E: - R -			
Friulian	$ \mathbf{t} \mathbf{j} \mathbf{\epsilon} - \mathbf{r} \mathbf{e} $			
Romanian	ts - a - r ə		n e g u r ə	
	Fog-Tenebras	Fog-Fumata	Fog-Caecia	Sky
Latin	t - e n - e: b r a: s	f u: m a: t a	k aj k i a	k - aj l u m
French	t - e n - ε b в	f y m e		s j ε l
Spanish	t - i n j e b l a s	f u m a t a		$\begin{vmatrix} \theta & j & e & 1 & o \end{vmatrix}$
Italian	t - E: n - e b r e -	f u m a: t a		tf - ε 1 ο -
PortugueseBraz	I	f u m a s e		$ s - \epsilon w - -$
Portuguese	t r - - ε v - ε ∫	f u m a s e		$ \mathbf{s} - \mathbf{\epsilon} \mathbf{w} - \mathbf{r} $
Catalan	t - ə n - e b r ə s	1 u III u S C		$\begin{vmatrix} \mathbf{s} & - & \mathbf{\epsilon} & \mathbf{w} & - & - \\ \mathbf{s} & - & \mathbf{\epsilon} & 1 & - & - \end{vmatrix}$
Walloon	t 0 11 C D 1 0 5			
Friulian		f u m a t e		tf - i: 1 - -
Romanian		1 4 III 4 5 5	tf ea tf - ə	tf - e r
	Wind	Fire-Focus	Year	Name-Nomen
Latin	w - e n t u m	f o k u m	a n n u m	n o: m e n
French	$ \mathbf{v} - \tilde{\mathbf{a}} - - - -$	f - ø	$ \tilde{\mathfrak{a}} - - - - $	n 3 - - -
Spanish	b j e n t o -	f w e g o -	a - n o -	
Italian	$v - \epsilon n t o -$	f w 3 k 0 -	a n n o -	n o: m e -
PortugueseBraz		f - o g u -	e - n u -	n o m i -
Portuguese	$ v - \tilde{e} - t u -$	$ f - o \gamma u -$	e - n u -	n o m i -
Catalan	b - e n	f - 3 k	a - n	n o m
Walloon	v - ē	f - ø:	ã - - -	n õ - -
Friulian	v - i n t	f - u: k	a - ŋ	n o n
Romanian	v - i n t	f - o k	a n	n u m e -

	Name-Nominem	Tongue	ToDrink	ToEat
Latin	n o: m i n - e m	l i n g ^w - a	b i b - e r e	k o m e d e r e
French		$ 1 \tilde{\alpha} - g - -$	p w a в -	
Spanish	n o m - b r e -	l e ŋ g w a	b e b - e r -	k o m e - - r -
Italian		l i n g w a	b e r e	
PortugueseBrazi		1 î - g w e	p e p - e R -	k o m e - - - -
Portuguese		1 ī - g w e	b i	
Catalan			b & w r ə	
Walloon		l ẽu - - -	b - ø: в -	
Friulian		$ 1 \hat{\epsilon} n g - \epsilon$	b e v i	
Romanian		l i m b - ə	b ea	
	ToEat-Manducare	ToBite	ToBite-Morsicare	ToSuck
Latin	m a n d u k a: r e	m - o r d e: r e	m o r s i k a: r e	s u: g e r e
French	m	m - o r q - r -		s y s e
Spanish	m a n d u k a r -	$ \mathbf{m} - \mathbf{o} \mathbf{r} \mathbf{\delta} \mathbf{e} \mathbf{r} -$	m o - s - k a r -	
	m a n dg a r e	m - 2 r d e r e	m o r s i k a r e	
PortugueseBrazi	m § - З - - а в -	$ \mathbf{m} $ - $ \mathbf{o} $ \mathbf{R} $ \mathbf{q} $ $ \mathbf{e} $ $ \mathbf{R} $ -	$m u - s \vartheta g a - -$	$ s u g a \mathbf{g}$
D 1	~	 		
	m e - 3 a r -	$ \mathbf{m} - \mathbf{u} \mathbf{r} \mathbf{\delta} \mathbf{e} \mathbf{r} -$	m u - s ə g a r -	s u g a r -
	m ə n ʒ a		$ \mathbf{m} \mathbf{u} - \mathbf{s} \mathbf{\vartheta} \mathbf{v} \mathbf{a} - \mathbf{v} $	
Walloon	m a n i:			s y s i:
	maŋ - a:	$ \mathbf{m} \mathbf{w} \mathbf{a} \mathbf{r} \mathbf{d} \mathbf{i} $ - $ -$		c u c a:
Romanian	m i n - k a	TaCnit Evennenue	m u r s e k a	s u dg e
Latin	ToSpit k o n s p u e r e	ToSpit-Exconspuere	ToSpit-Sputare	s k i: r e
French	k õ - s p y e			3 K I. I C
Spanish	K 3 S P Y C	e s k u - p i r	e s p u t a r -	
Italian			- s p u t a r e	
	k u - s p i в			
l ortugueseziazi				
Portuguese	$ \mathbf{k} \mathbf{u} - \int \mathbf{p} \mathbf{i} \mathbf{r} - \mathbf{r} $			
Catalan				
Walloon		ə s k u - p i -		
Eriulian		$ \mathbf{s} \mathbf{s} \mathbf{k} \mathbf{u} - \mathbf{p} \mathbf{i} -$		
Friulian		$ \mathbf{a} \mathbf{s} \mathbf{k} \mathbf{u} - \mathbf{p} \mathbf{i} $	s p u d a: - - -	
Friulian Romanian		- s k u j p a -		
Romanian	ToKnow-Sapere	- s k u j p a - ToKnow-Cognoscere	ToThink	ToThink-Pensare
Romanian Latin	s a p - e r e	- s k u j p a - ToKnow-Cognoscere k o g n o: s k e r e	ToThink k - o: g i t a: r e	ToThink-Pensare p e: n s a: r e
Romanian Latin French	s a p - e r e s a v w a в -	s k u j p a -	ToThink k - o: g i t a: r e	ToThink-Pensare p e: n s a: r e p a - s e
Romanian Latin French Spanish	s a p - e r e s a b - e r -	- s k u j p a -	ToThink k - o: g i t a: r e	ToThink-Pensare p e: n s a: r e p \tilde{a} - s e - p e n s a r -
Romanian Latin French Spanish Italian	s a p - e r e s a b - e r - s a p - e r e	- s k u j p a -	ToThink k - o: g i t a: r e k y i d e k w i d a r - k - o d; i t a r e	ToThink-Pensare p e: n s a: r e p \widetilde{a} - s e - p e n s a r e p e n s a r e
Romanian Latin French Spanish	s a p - e r e s a b - e r - s a p - e r e	- s k u j p a -	ToThink k - o: g i t a: r e	ToThink-Pensare p e: n s a: r e p \widetilde{a} - s e - p e n s a r -
Romanian Latin French Spanish Italian PortugueseBrazi	s a p - e r e s a b - e r - s a p - e r e	- s k u j p a -	ToThink k - o: g i t a: r e k u - i d e - k k - o d; i t a r e k - u z i t a в	ToThink-Pensare p e: n s a: r e p \tilde{a} - s e - p e n s a r - p e n s a r e p \tilde{e} - s a r e p \tilde{e} - s a r e
Romanian Latin French Spanish Italian	s a p - e r e s a v w a в - s a p - e r e s a b - e r e s a b - e r - s a b - e r -	- s k u j p a -	ToThink k - o: g i t a: r e k u i d e k w i d a r - k - o d i t a r e k - u 3 i t a r - k - u 3 i t a r -	ToThink-Pensare p e: n s a: r e p \tilde{a} - s e - p e n s a r e p e n s a r e p e s a g r p e - s a r -
Romanian Latin French Spanish Italian PortugueseBrazi Portuguese	s a p - e r e s a b - e r e s a b - e r e s a b - e r e	- s k u j p a -	ToThink k - o: g i t a: r e k u - i d e - k k - o d; i t a r e k - u z i t a в	ToThink-Pensare p e: n s a: r e p \tilde{a} - s e - p e n s a r e p e n s a r - p e n s a r e p e n s a r e p e n s a r - p e n s
Romanian Latin French Spanish Italian PortugueseBrazi Portuguese Catalan	s a p - e r e s a v w a b - e r e s a b - e r e s e s e r e s e s e s e r e s s e s s e s s s s s s s s s <td> - s k u j p a - </td> <td>ToThink k - o: g i t a: r e k u i d e k w i d a r - k - o d i t a r e k - u 3 i t a r - k - u 3 i t a r - </td> <td>ToThink-Pensare p e: n s a: r e p \tilde{a} - s e - p e n s a r e p e n s a r e p e - s a r - p e - s a r - p e n s a - </td>	- s k u j p a -	ToThink k - o: g i t a: r e k u i d e k w i d a r - k - o d i t a r e k - u 3 i t a r - k - u 3 i t a r -	ToThink-Pensare p e: n s a: r e p \tilde{a} - s e - p e n s a r e p e n s a r e p e - s a r - p e - s a r - p e n s a -

	ToFear	ToFear-Tremere	ToSleep	ToLive
Latin	t i m e: r e	t r e m - e r e	d - o r m i: r e	w i: w e r e
French		k в ё - d - в -	d - э к m i к -	v i v - в -
Spanish	t e m e r -	trem-er-	d - o r m i r -	b i b i r -
Italian	t e m e r e	t r e m - a r e	d - o r m i r e	v i v e r e
PortugueseBrazi		t гет - ев-	q - о в ш і в -	v i v e в -
Portuguese	t i m e r -	$ t \mathbf{r} \dot{\mathbf{s}} \mathbf{m} - \mathbf{e} \mathbf{r} -$	d - u r m i r -	$ \mathbf{v} \mathbf{i} \mathbf{v} \mathbf{e} \mathbf{r} $
Catalan	t e m ə		d - u r m i	b i w - r ə
Walloon			d w a в m i	
Friulian	t e m i - -	t r i m - a: - -	d - u r m i:	v i v i - -
Romanian	t e m e		d - o r m i	v i - a
	ToDie	ToKill	ToKill-Adnecare	ToKill-Tutari
Latin		n - e k a: r e		t u: - t a: r i
French	m u в i в -	n w aj e		t - q - e
	morir-		a - n e g a r -	
	m o r i r e		a n n e g a r e	
PortugueseBrazi				
Portuguese	muser-			
Catalan	muri-	n - ə g a - -		
Walloon	m o R i			t u w - e - -
Friulian	m u r i:			
Romanian	m u r i	n - e k a - -		
	ToKill-Mactare	ToKill-Occidere	ToFight	ToFight-Battuere
Latin	m a c t a: r e	o k k i: d e r e	p u g n a: r e	b a t t u e r e
French	m a - t e	с к в і в -		b a t - - в - -
	m a t C	J K S I B -		
Spanish	m a - t a r -		p u - p a r	b a - t - i r -
Italian	ma-ta-	u t tf i d e r e	p u - p a r - p u p p a r e	b a - t - i r - b a t t - e r e
1 '	ma-ta-			b a - t - i r -
Italian PortugueseBrazi	$ \mathbf{m} \mathbf{a} - \mathbf{t} \mathbf{a} \mathbf{r} - \mathbf{m} \mathbf{a} - \mathbf{t} \mathbf{a} \mathbf{g} - \mathbf{m} \mathbf{a} - \mathbf{t} \mathbf{a} \mathbf{g} - \mathbf{g} \mathbf{g}$			b a - t - e r e b a - t - e r e - e r e e - e r e e e e e e e e
ltalian PortugueseBrazi Portuguese	m a - t a r -	$ \mathbf{u} \mathbf{t} \mathbf{t} \mathbf{i} \mathbf{d} \mathbf{e} \mathbf{r} \mathbf{e}$	puppare	b a - t - i r - e b a - t - e r e - e r - e r - e r -
Italian PortugueseBrazi Portuguese Catalan	$ \mathbf{m} \mathbf{a} - \mathbf{t} \mathbf{a} \mathbf{r} - \mathbf{m} \mathbf{a} - \mathbf{t} \mathbf{a} \mathbf{g} - \mathbf{m} \mathbf{a} - \mathbf{t} \mathbf{a} \mathbf{g} - \mathbf{g} \mathbf{g}$			b a c t - e r e b a c t - e r e c e b a - t - e r e b a - t - r e r e c c
Italian PortugueseBrazi Portuguese Catalan Walloon	m a - t a r - m e - t a r - m e - t a r - m e - t a -	$ \mathbf{u} \mathbf{t} \mathbf{t} \mathbf{i} \mathbf{d} \mathbf{e} \mathbf{r} \mathbf{e}$	puppare	b a - t - i r - e r e b a - t - e r e b a - t - e r - e b a - t - r a b a t - e - - - -
Italian PortugueseBrazi Portuguese Catalan Walloon Friulian	m a - t a r -	u t t i a e r e $ u k s i - - - -$	puppare	b a - t - i r - b a t t - e r e b a - t - e r e b a - t - e r - b a t - e r - b a t - e - - b a t - i - - - b a t - i - - -
Italian PortugueseBrazi Portuguese Catalan Walloon	m a - t a r - m a - t a r - m e - t a r - m e - t a r - m e - t a r - m a f	u t t i d e r e $ u k s i - - - u - t i d e - -$	p u n n a r e	b a - t - i r - b a t t - e r e b a - t - e r - b a t - e r - b a t - e r - b a t - e r - b a t - e - - b a t - e - - - b a t - e - - - b a t - e - - -
Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian	m a - t a r - m a - t a r - m e - t a r - m e - t a r - m e - t a - m a ff - a: - ToHunt-Captiare	$egin{array}{c c c c c c c c c c c c c c c c c c c $	p u p p a r e	b a - t - i r -
Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin	m a - t a r - m a - t a r - m e - t a r - m e - t a r - m e - t a m a ff - a: - ToHunt-Captiare k a p t i a: r e	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	p u p a r e	b a - t - i r - b a t t - e r e b a - t - e r - b a t - e r - b a t - e r - b a t - e r - b a t - e - - b a t - e - - - b a t - e - - - b a t - e - - -
Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French	m a - t a r - m a - t a r - m e - t a r - m e - t a r - m e - t a - m a ff - a: - ToHunt-Captiare k a p t i a: r e ∫ a - s - e	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	ToCut p u p a r e p u - p a - - s - e k a r e s j e - - -	b a - t - i r -
Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish	m a - t a r - m a - t a r - m a - t a r - m a τ - t a r - m a τ ToHunt-Captiare k a p t i a: r e ∫ a - s - e - k a - θ - a r -	u t t i d e r e u k s i - - - - u - t i d e - - ToHit p u 1 s a: r e p u - s e p u - x a r -	ToCut p u p p a r e p u - p a - s - e k a: r e s j e - - s - e g a r -	b a - t - i r -
Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian	m a - t a r - m a - t a r - m a - t a r - m a τ a r - m a τ a r - m a τ a r - ToHunt-Captiare k a p t i a: r e ∫ a - s - e k a - θ - a r - k a t f - a r e	u t t i d e r e u k s i - - - - u - t i d e - - ToHit p u 1 s a:r e p u - s e p u - x a r- p u 1 s a r e	ToCut S	b a - t - i r -
Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish	m a - t a r - m a - t a r - m a - t a r - m a τ a r - m a τ a r - m a τ a r - ToHunt-Captiare k a p t i a: r e ∫ a - s - e k a - θ - a r - k a t f - a r e	u t t i d e r e u k s i - - - - u - t i d e - - ToHit p u 1 s a: r e p u - s e p u - x a r -	ToCut S	b a - t - i r -
Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi	m a - t a r - m a - t a r - m a - t a r - m a τ a m a τ a m a τ a ToHunt-Captiare k a p t i a: r e ∫ a - s - e k a - θ - a r - k a t f - a r e k a - s - a в -	u t t i d e r e	ToCut p u p p a r e p u - p a - s - e k a: r e s - e g a r - s - e g a r e s - e g a r e s - e g a r e s - e g a r e	b a - t - i r - b a t t - e r e b a - t - e r e b a - t - e r - b a t - e r - b a t - e - - b a t - e - - - b a t - e - - - b a t - e r - b a t a r e k o r t a r e k o r t a r - k o r t a r - k o r t a r - k o r t a r - k o r t a r - k o r t a r - k o r t a r - k o r t a r - k o r t a r - k o r t a r - k o r t a r -
Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi	m a - t a r - m a - t a r - m e - t a r - m a f - t a r - m a f - t a r - m a f - t a r - m a f - t a r e k a p t i a r e k a - s - a r e k a t f - a r e k a - s - a r -	u t t i d e r e u k s i - - - - u - t i d e - - ToHit p u 1 s a:r e p u - s e p u - x a r- p u 1 s a r e	ToCut p u p p a r e p u - p a - s - e k a: r e s - e g a r e s - e g a r e s - i y a r -	b a - t - i r -
Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi Portuguese Catalan	m a - t a r - m a - t a r - m a - t a r - m a - t a r - m a f - t a - m a f - t a r - m a f - t a r - ToHunt-Captiare k a p t i a: r e ∫ a - s - e - k a - θ - a r - k a t f - a r e k a - s - a r - k a - s - a r - k a - s - a r -	u t t i d e r e	ToCut p u p p a r e p u - p a - s - e k a: r e s - e g a r - s - e g a r e s - e g a r e s - e g a r e s - e g a r e	b a - t - i r - b a t t - e r e b a - t - e r e b a - t - e r - b a t - e r - b a t - e - - b a t - e - - - b a t - e - - - b a t - e r - b a t a r e k o r t a r e k o r t a r - k o r t a r - k o r t a r - k o r t a r - k o r t a r - k o r t a r - k o r t a r - k o r t a r - k o r t a r - k o r t a r - k o r t a r -
Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon	m a - t a r - m a - t a r - m a - t a r - m a t a m a t a m a t a ToHunt-Captiare k a p t i a: r e f a - s - e k a - θ - a r - k a t t - a r e k a - s - a r e k a - s - a r - t a - s - a - t e t t	u t t i d e r e	ToCut p u p p a r e p u - p a - s - e k a: r e s j e - - - s - e g a r e s - e g a r e s - e g a r - s - e g a r - s - e g a r -	b a - t - i r - b a t t - e r e b a - t - e r e b a - t - e r - b a t - e r - b a t - e - - b a t - e - - - b a t - e - - - b a t - e r - b a t a r e k o r t a r e k o r t a r - k o r t a r - k o r t a r - k o r t a r - k o r t a r - k o r t a r - k o r t a r - k o r t a r - k o r t a r - k o r t a r - k o r t a r -
Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi Portuguese Catalan	m a - t a r - m a - t a r - m a - t a r - m a - t a r - m a f - t a - m a f - t a r - m a f - t a r - ToHunt-Captiare k a p t i a: r e ∫ a - s - e - k a - θ - a r - k a t f - a r e k a - s - a r - k a - s - a r - k a - s - a r -	u t t i d e r e	ToCut p u p p a r e p u - p a - s - e k a: r e s - e g a r e s - e g a r e s - i y a r -	b a - t - i r - b a t t - e r e b a - t - e r e b a - t - e r - b a t - e r - b a t - e - - b a t - e - - - b a t - e - - - b a t - e r - b a t a r e k o r t a r e k o r t a r - k o r t a r - k o r t a r - k o r t a r - k o r t a r - k o r t a r - k o r t a r - k o r t a r - k o r t a r - k o r t a r - k o r t a r -

	ToCut-Excurtare	ToCut-Taliare	ToSplit	ToSplit-Scindere
Latin	e k s k u r t a: r e	t a: - 1 i a: r e	d i: w i d e r e	s k i n d e r e
French	e k u r t e	t a j - e		$ s - \tilde{\epsilon} - d e - -$
Spanish		t a - x - a r -	d i b i d i r -	
Italian	- - s c o r t a r e	t a - A A a: r e	dividere	$\int \left - \right i \left n \right d \left e \right r \left e \right $
PortugueseBraz		$ \mathbf{t} \mathbf{a} - \mathbf{\Lambda} - \mathbf{a} \mathbf{g} $	dg i v i dg i u -	
Portuguese		t e - f - a r -	d i v i ð i r -	
Catalan		t ə - K - a	d i b i d i	
Walloon		$egin{array}{c c c c c c c c c c c c c c c c c c c $		
Friulian	s c u r t a:		d i v i d i	
Romanian	ToSplit-Findere	t ə - - j a - - ToSplit-Partire	d i v i d e ToSplit-Separare	ToStab
Latin	f i n d e r e	p a r t i: r e	s e: p a r a: r e	p - u n g e r e
French	f g - q - r -	b a R f i R -	s 9 - n R e	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$
Spanish	- e n d e r -	partir-	s e p a r a r	
Italian	$f \epsilon n d e r e$	p a r t i r e	s e p a r a r e -	p - u n d e r e
PortugueseBraz	$ f \tilde{e} - d e R -$	$ \mathbf{b} \mathbf{a} \mathbf{R} \mathbf{t} \mathbf{i} \mathbf{R} $	s e b a t a R - -	$ p - \tilde{u} - 3 i B $
Portuguese	$ \mathbf{f} \tilde{\mathbf{e}} - \mathbf{d} \mathbf{e} \mathbf{r} -$	p e r t i r -	s i p e r a r	
Catalan	$f \epsilon n d - r $	pərti-	s ə p ə r a	$\begin{vmatrix} \mathbf{p} \\ \mathbf{p} \end{vmatrix} - \begin{vmatrix} \mathbf{u} \\ \mathbf{u} \end{vmatrix} \mathbf{p} \begin{vmatrix} \mathbf{j} \\ \mathbf{i} \end{vmatrix} - \begin{vmatrix} \mathbf{i} \\ \mathbf{i} \end{vmatrix} - \begin{vmatrix} \mathbf{j} \\ \mathbf{i} \end{vmatrix} - \begin{vmatrix} \mathbf{j} \\ \mathbf{i} \end{vmatrix}$
Walloon	$f \mid \tilde{\epsilon} \mid - \mid t \mid - \mid - \mid - \mid$	p 3: R t i	- - F - - -	F 1 1 1
Friulian		p a r t i:	s e p a r a:	
Romanian				
i voitiatiiali			s e p a r a	p u n d e
	ToStab-lugulare	ToScratch	ToScratch-Rasare	ToScratch-Rasicare
Latin	j u g u l a: r e	ToScratch	ToScratch-Rasare	
Latin French		r a: d e r e	ToScratch-Rasare	ToScratch-Rasicare
Latin	j u g u l a: r e 3 y g y l e		ToScratch-Rasare	
Latin French Spanish	j u g u 1 a: r e 3 y g y 1 e	r a: d e r e r a - e r -	ToScratch-Rasare	ToScratch-Rasicare
Latin French Spanish Italian PortugueseBrazi	j u g u 1 a: r e 3 y g y 1 e	r a - e r e r a d e r e r a - e r -	ToScratch-Rasare B Q Z e	ToScratch-Rasicare
Latin French Spanish Italian PortugueseBrazi	j u g u 1 a: r e 3 y g y 1 e	к е т е г	ToScratch-Rasare B Q Z e	ToScratch-Rasicare r a s k a r B a f k a B B B f k a r
Latin French Spanish Italian PortugueseBrazi	j u g u 1 a: r e 3 y g y 1 e	r a - e r e r a d e r e r a - e r -	ToScratch-Rasare B Q Z e	ToScratch-Rasicare
Latin French Spanish Italian PortugueseBraz Portuguese Catalan	j u g u 1 a: r e 3 y g y 1 e	к е т е г	ToScratch-Rasare B Q Z e	ToScratch-Rasicare r a s k a r B a f k a B B B f k a r
Latin French Spanish Italian PortugueseBraz Portuguese Catalan Walloon	j u g u l a: r e z y g y l e - - j u g u l a: r e	r a: d e r e r e r a d e r e r e r a d a: - r a d a: - r a d e - - r a d e - - r a d e - - r a d e - - r a d e - - r a d e - - - r a d e - - - r a d e - -	B Q Z e - -	ToScratch-Rasicare r a s k a r в a f k a в в e f k a г r a s k a г
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian	j u g u 1 a: r e 3 y g y 1 e	r a: d e r e r a d e r e r a d e r e в a - e в - r a w - r a r a d e r a d e тоъміт	ToScratch-Rasare	ToScratch-Rasicare r a s k a r s a f k a s s g f k a r r a s k a r
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin	j u g u l a: r e z y g y l e - - j u g u l a: r e	r a: d e r e r e r a d e r e r e r a d a: - r a d a: - r a d e - - r a d e - - r a d e - - r a d e - - r a d e - - r a d e - - - r a d e - - - r a d e - -	ToScratch-Rasare	ToScratch-Rasicare r a s k a r g a f k a g g g f k a r r a s k a r g g f k a r r a s k a r g g f k a r r a s k a r g g f k a r r a s k a r g g f g g g g g g g
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French	j u g u l a: r e z y g y l e - - j u g u l a: r e	r a: d e r e r a d e r e r e r a d e r e e F a d a: - - a d e - - ToSwim n - a t a: r e e e	ToScratch-Rasare	ToScratch-Rasicare r a s k a r B a ∫ k a B B B ∫ k a r r ə s k a r r ə s k a r v o 1 a: r e v o 1 e -
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian	j u g u l a: r e 3 y g y l e j u g u l a: r e ToScratch-Coctiare	r a: d e r e r a d e r e r e r a d e r e e u a a e u a a a r e e e a a a r e e e a a a a a a a	ToScratch-Rasare	ToScratch-Rasicare r a s k a r g a f k a g g g f k a r r a s k a r g g f k a r r a s k a r g g f k a r r a s k a r g g f k a r r a s k a r g g f g g g g g g g
Latin French Spanish Italian PortugueseBraz Portuguese Catalan Walloon Friulian Romanian Latin French Spanish	j u g u l a: r e 3 y g y l e j u g u l a: r e ToScratch-Coctiare	r a: d e r e r a d e r e r a d e r e r a d a r e r a d a r e r a d a r e r a d a r e r a d a r r e r a d a r r e r a d a r r e r a d a r r e r a d a r r e r r a d a r r e r r r r r r	ToScratch-Rasare	ToScratch-Rasicare r a s k a r
Latin French Spanish Italian PortugueseBraz Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBraz	j u g u 1 a: r e 3 y g y 1 e - - j u g u 1 a: r e ToScratch-Coctiare	r a: d e r e r a d e r e r e r e r a d e r e e r a d a r - r a d a r - r a d a r e r a d a r e r a d a r e r a d a r e r a d a r e r a d a r e r a d a r e r a d a r e r a d a r e r a d a r e r a d a r e r a d a r e r a d a r e r a d a r e r a d a r e r a d a r e r a d a r e r a d a r a d a r e r a d a r a d a r a a a a a a a a	ToScratch-Rasare B Q Z e - -	ToScratch-Rasicare r a s k a r
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian	j u g u l a: r e 3 y g y l e j u g u l a: r e ToScratch-Coctiare	r a: d e r e r a d e r e r a d e r e r a d e r e r a d a r e r a d a r e r a d a r e r a d a r e r a d a r e r a d a r e r a d a r e r a d a r e r a d a r e r e	ToScratch-Rasare B Q Z e - -	ToScratch-Rasicare r a s k a r
Latin French Spanish Italian PortugueseBraz Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBraz Portuguese Catalan Walloon	j u g u 1 a: r e 3 y g y 1 e - - j u g u 1 a: r e ToScratch-Coctiare	r a: d e r e r a d e r e r e r a d e r e e r a d e r e e r a d a r r a d a r r e r a d a r e r a d a r r e r a d a r r e r a d a r r e r a d a r r e r a d a r r e r a d a r r e r a d a r r e r a d a r r e r a d a r r e r a d a r r e r a d a r r e r r r r r r	ToScratch-Rasare	ToScratch-Rasicare r a s k a r
Latin French Spanish Italian PortugueseBraz Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBraz Portuguese Catalan	j u g u 1 a: r e 3 y g y 1 e - - j u g u 1 a: r e ToScratch-Coctiare	r a: d e r e r a d e r e r e r e r a d e r e e r a d a: - - r a d a r - r a d a r e r a d a r e r a d a r e r a d a r e r a d a r e r a d a r e r a d a r e r a d a r e r a d a r e r a d a r e r e r a d a r r e r r e r r	ToScratch-Rasare	ToScratch-Rasicare r a s k a r

	ToFly-Exvolare	ToWalk	ToWalk-Marcher	ToWalk-Mergere
Latin French Spanish Italian PortugueseBrazi	z v o 1 a r e		$ \mathbf{m} \mathbf{a} \mathbf{g} \mathbf{f} \mathbf{e}$	$m \mid e \mid r \mid g \mid e \mid r \mid e$ $m \mid \epsilon \mid r \mid dg \mid e \mid r \mid e$
Portuguese Catalan Walloon Friulian Romanian	z v o 1 a: - - - - - - - - -	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \mathbf{m} \mathbf{a}$: $ \mathbf{R} $ $ \mathbf{f} $ $ \mathbf{i}$:	m e r dg e - -
	ToWalk-Ambitare	ToCome	ToLieAsInABed	ToLieAsInABed-lacere
Latin French Spanish Italian PortugueseBrazi	a m b i t a: r e a n d a r e a n d a r e	W e n i: r e v o n i r e v o n i r e v o n i r e v o n i r e v o n i r e v o o o o o o o o o	e k s t e n d e r e e - t ã - d - в e k s t e n d e r e i s t ë - d e в	j a - k e: r e 3 e - z i в - j a - θ e r - dg a - tf e: r e 3 e - z e в -
Portuguese Catalan Walloon Friulian Romanian	$\left \widetilde{\mathbf{e}} \right - \left \mathbf{d} \right - \left - \right \mathbf{a} \left \mathbf{r} \right -$	v - - i r -	$\begin{vmatrix} i & & & & & & & & & &$	3 & v - z & c r - 3 & w - r & o o o o o o o o o o
	ToSit	ToSit-Sedentare	ToStand	ToStand-Levare
Latin French Spanish Italian PortugueseBrazi	s - e d e: r e s - e - - u - - u - - u - - u - u - u u - u		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1 e v a: r e 1 e v a: r - 1 e v a: r e 1 e v a: r e
Portuguese Catalan Walloon Friulian Romanian	s - e - - f - -	s e - - t a r -	i	1 i v a r - Λ b a - - 1 b v e - - 1 e v a - - 1 - u a -
	ToStand-Altiare	ToTurnIntransitive	ToTurnIntransitive-Gyrare	-AncestralClass3
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian	- a 1 t i a: r e - o - s - e a 1 θ - a r a 1 ts a r e - a t s - a a 1 s - a h b: - s - i: a 1 t ∫ - a: -	t o r n a: r e t u s n e t o r n a r e t o r n a r e t o r n a r e t o r n a r - t o r n a r - t u r n a t u: r n e t u: r n e t u r n a	g y r a: r e 3 i s e x i r a r - ds i r a r e 3 i r a r - d i r a r - d i r a r - d i r a r - d i r a r -	V i B e - -

	ToTurnIntransitive -Torquere	ToFall	ToFall-Tumbare	ToHold
Latin French Spanish Italian PortugueseBrazi	t o r k e r e t o r θ e r - t o r θ e r -	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{vmatrix} t & \tilde{o} & - & b & e \\ t & u & m & b & a \end{vmatrix} $	t e n - e: r e t e n - e r - t e n - e r e t e n - e r -
Portuguese Catalan Walloon Friulian Romanian	t u r s e r - - - - - - - - -	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	t 0	t e r - t ə n - i t i n j i ts i n - e
	ToHold-Segurar	ToSqueeze	ToSqueeze-Serrere	ToSqueeze-Serare
Latin French Spanish Italian PortugueseBrazi	s e g u r a r	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	s e r r e r e	S F - R S L - S E - R S E - -
Portuguese Catalan Walloon Friulian Romanian	$ s i \gamma u r a r$	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{vmatrix} s & a & - & R & a & f & - \\ s & a & - & r & a & - & - \end{vmatrix} $	$ s i - u a r s \epsilon - r e -$
rtomaman	ToSqueeze-Appectorare	ToSqueeze-Stringere	ToRub	ToRub-Exfricare
Latin French Spanish Italian PortugueseBrazi	a p p e k t o r a: r e	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	f r i k a: r e f s s j e f r e g a r - f r e g a r e	i f f i g a f
Portuguese Catalan Walloon Friulian Romanian	e - p i - r - t a r -	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	f r oj	i f r i y a r
Lotin	ToRub-Frictare	ToRub-Frictiare	ToWash	ToWipe
Latin French Spanish Italian PortugueseBrazi	f r i k t a: r e f s o t e f r o t a r - f r e t t a r e	$ \mathbf{f} \mathbf{r} \mathbf{i} \mathbf{s} \mathbf{a} \mathbf{r}$	1 a w a: r e 1 a v e 1 a β a r - 1 a v a r e 1 e v a r -	t e r g e r e t ε r d e r e e t ε r d e r ε
Portuguese Catalan Walloon Friulian Romanian	f u o t e - - -	f r ə s a -	1 v v a r -	

	ToWipe-Extergere	ToWipe-Exsucare	ToWipe-Limpidare	ToPull
Latin	e k s t e r g e r e	e k s - u: k - a: r e	l i m p i d a: r e	t i r a: r e
French	3,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1,1	e - s q i - j e - -	F 10 10 10 10 10 10 10 1	t i в e
Spanish	e - s t a r s i r -	e n x - u g - a r -	l i m p j - a r -	t i r a r -
Italian		$\begin{vmatrix} a & f & f \end{vmatrix} - \begin{vmatrix} u & g \end{vmatrix} - \begin{vmatrix} a & r \end{vmatrix} = \begin{vmatrix} a & r \end{vmatrix}$	1 1 1 1 1 1 1 1 1 1 1 1 1 1	t i r a r e
PortugueseBrazi		$ \tilde{e} - \int - u g - a r -$	1 î - p - - a r -	tf i r a
l ortugues sure.		-	- - P W -	9 - - -
Portuguese		$ \tilde{e} - \int - u \gamma - a r -$	1 î - p - - a r -	t i r a r -
Catalan	ə - s t ə r ʒ i - -	$\begin{vmatrix} \mathbf{a} & - & \mathbf{b} \end{vmatrix} - \begin{vmatrix} \mathbf{a} & \mathbf{b} \end{vmatrix} - \begin{vmatrix} \mathbf{a}$	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	t i r a
Walloon		- - s - u - w e - -		t i r e
Friulian		- - s - u - j a: - -		t i r a:
Romanian	- - \int e r & e - -	u - s k - a		
	ToPull-Pulsare	ToPull-Trahere	ToPush	ToThrow
Latin	p u l s a: r e	t r a h e r e	i m p i n g e r e	j a k t a: r e
French	p u - s e	t R - - ε R -		3 9 - t e
Spanish	p u - x a r -			- e - tf a r -
Italian	p u l s a r e	t r a r - r e	i m p i n d e r e	dg e t t a r e
PortugueseBrazi	$ \mathbf{p} \mathbf{u} - \int \mathbf{a} \mathbf{r} $	t r a z e - -		
Portuguese	$ \mathbf{p} \mathbf{u} - \int \mathbf{a} \mathbf{r} $	t r g z e r -		
Catalan		$ t \mathbf{r} \mathbf{\epsilon} \mathbf{w} - \mathbf{r} \mathbf{a}$	$ \mathfrak{d} m p \epsilon \mathfrak{n}- \mathfrak{d} - \mathfrak{d} $	x i t a
Walloon	p u: s i:			d ₃ ε t e - - -
Friulian	p u l s a:	t r aj		
Romanian	p u 1 s a	t r a dz e	impindel-	
Latin	ToThrow-Lanceare	ToThrow-Eruncare	ToTie	ToTie-Aptare
Latin	1 a n k e a: r e 1 ã - s - e	e: - r u n k a: r e	l i g a: r e	a p t a: r e
French			l i - e	
Spanish	1 a n θ - a r -	a - r a n k a r -	l e g a r -	a - t a r -
Italian	lantfare	a r r o n tf a r e	l e g a r e	e - tar-
Fortuguesebrazi	$ 1 \tilde{e} - s - a - -$			e - t a I -
Portuguese				e - t a r -
Catalan	Λ ə n s - a		λ i y a - -	
Walloon	1 a n c - i:		1 5 j i:	
Friulian	1 a n t a:		1 e - a:	
Romanian	1 4 11 9 44	a - r u ŋ k a - -	lega	
	ToSew	ToCount	ToCount-Enumerare	ToSay
Latin	k o: n - s u e r e	k o m p u t a: r e	e: n u m e r a: r e	d i: k e r e
French	k u - d в -		е n u m е в е	d i - - в -
Spanish	k o s - e r -	k o n t a r -	e n u m e r a r -	d e θ i r -
Italian	ku tf - i r e	kon-tare	e n u m e r a r e	d i r e
PortugueseBrazi	k u - - z - e r -	$ \mathbf{k} \tilde{\mathbf{o}} - - - \mathbf{t} \mathbf{a} \mathbf{r} -$	e n u m e r a r -	d i z - e r
Dt	k u - - z - e r -		e n u m e r a r -	d i z - e r
Portuguese	K u Z - E I -			
Portuguese Catalan				d i
Catalan	k u z - i	k u m t a	e n u m e r a -	d i:
Catalan Walloon	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		d i: - - R -
Catalan	k u z - i	k u m t a		d i: z i tf e

	ToSay-Exponere	ToSing-AncestralClass	ToPlay-Ludere	ToPlay-Jiocare
Latin	e k s p o: n e r e	k a n t a: r e	l u: d e r e	j o - k a: r e
French		$\int \tilde{\alpha} - t e - -$	1 4 4 5 1 5	3 - w - e
Spanish		kantar-	l u d i r -	$\mathbf{x} \mathbf{u} - \mathbf{g} \mathbf{a} \mathbf{r} -$
Italian	- - s p o r - r e	k a n t a r e		dg o - k a r e
PortugueseBrazi		k e - t a r -		3 о - дав -
Portuguese		$ \mathbf{k} \tilde{\mathbf{e}} - \mathbf{t} \mathbf{a} \mathbf{r} -$		3 u - y a r -
Catalan		k ə n t a - -		3 u - g a
Walloon		tf ã - t e - -		ф u w - e
Friulian		c a n t a: - -		dg u j - a: - -
Romanian	- - s p u n e - -			
1 4	ToFloat	ToFloat-Fluitare	ToFlow	ToFlow-Colare
Latin	f l u: k t u a: r e	f l u i t a: r e	f l u e r e	k o: l a: r e
French	f l y k t y e		f 1 y e	k u l e
Spanish Italian	f l u g t w a r - f l u t t u a r e	f 1 u i t a r e	f l u i r - f l u i r e	k o l a r - k o l a r e
	f l u t t u a r e	I I U I t a r e	f l w i r e	
Fortuguesebrazi			1 1 W 1 B -	K O - a B -
Portuguese	f 1 u - t u a r -		f 1 w i r -	k u - a r -
Catalan	f l u k t u a		f 1 u i	k u ł a
Walloon	- - - - - - - - - - - - - - - - - - - -		1-1-1-1-1	k o l e
Friulian				
Romanian	f 1 u c t u a - -			
	ToFlow-Excurrere	ToFlow-Currere	ToFreeze	ToFreeze-Glaciare
Latin	e k s k u r r e r e	k u r r e r e	g e l a: r e	g l a - k i a: r e
French		k u -	3 ə 1 e - -	g 1 a - s - e - -
Spanish		k o - r e r -	- e l a r -	
for the	e - s k u r i r			
Italian	- - s k o r r e r e	k o r r e r e	dg e l a r e	$g \mid j \mid a \mid t \mid t f \mid j \mid a \mid r \mid e$
Italian PortugueseBrazi	s k o r r e r e		dz e l a r e z i l a r -	g j a t t j a r e
PortugueseBrazi	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		3 i 1 a r -	g j a t tf j a r e
PortugueseBrazi Portuguese	- s k o r r e r e r -		3 i 1 a r -	
PortugueseBrazi Portuguese Catalan	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		3 i l a r - 3 a l a -	g j a t tf j a r e
PortugueseBrazi Portuguese Catalan Walloon	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	k 0 - k e r - r e r - k 0 - k e r -	3 i 1 a r -	g 1 ə - s - a - -
PortugueseBrazi Portuguese Catalan	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		3 i l a r - 3 a l a -	
PortugueseBrazi Portuguese Catalan Walloon Friulian	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	k 0 - k e r - r e r - k 0 - k e r -	3 i 1 a r -	g 1 ə - s - a - -
PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	k 0 r r e r e k 0 - r i - - k 0 r i e r - -	3 i 1 a r -	g l ə - s - a - -
PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French	i		3 i l a r 3 i l a r 3 a l a - dg a l e - dg	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish	i	k o r r e r e k o - r e r e r e k o - r o - -	3 i l a г 3 i l a г 3 a l a 3 a l e 3 a l e 4 a l e 5 a l a 6 a l e 8 r e m a: r e 8 r a m e 8 r e m a r -	g l ə - s - a - -
PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian	i	k 0 r r e r e k 0 - r i - - k 0 r i e r - -	3 і l a г 3 і l a г 3 ә l a	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish	i	k o r r e r e k o - r e r e r e k o - r o - -	3 i l a г 3 i l a г 3 a l a 3 a l e 3 a l e 4 a l e 5 a l a 6 a l e 8 r e m a: r e 8 r a m e 8 r e m a r -	g l ə - s - a - -
PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi	i	k o r r e r e k o - r e r e r e k o - r o - -	3 i l a г - 3 i l a г - 3 a l a - dy a l e - ToBurn-Cremare k г е m а: г е k в а m е - k - е m а г е k г е m а г е k г е m а г е k г е m а г е	g l ə - s - a - -
PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi	i	k o r r e r e k o - r e r e r e k o - r o - -	3 i l a r - 3 i l a r - 3 a l a - d a l e - ToBurn-Cremare k r e m a: r e k s a m e - k - e m a r - k r e m a r e k - e m a r e k - e m a r e	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi Portuguese Catalan	i	k o r r e r e k o - s e s -	3 i l a г - 3 i l a г - 3 a l a - dy a l e - ToBurn-Cremare k г е m а: г е k в а m е - k - е m а г е k г е m а г е k г е m а г е k г е m а г е	g l ə - s - a - -
PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon	i	k o r r e r e k o - s e s -	3 i l a r - 3 i l a r - 3 a l a - d a l e - ToBurn-Cremare k r e m a: r e k s a m e - k - e m a r - k r e m a r e k - e m a r e k - e m a r e	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi Portuguese Catalan	i	k o r r e r e k o - s e s -	3 i l a r - 3 i l a r - 3 a l a - d a l e - ToBurn-Cremare k r e m a: r e k s a m e - k - e m a r - k r e m a r e k - e m a r e k - e m a r e	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

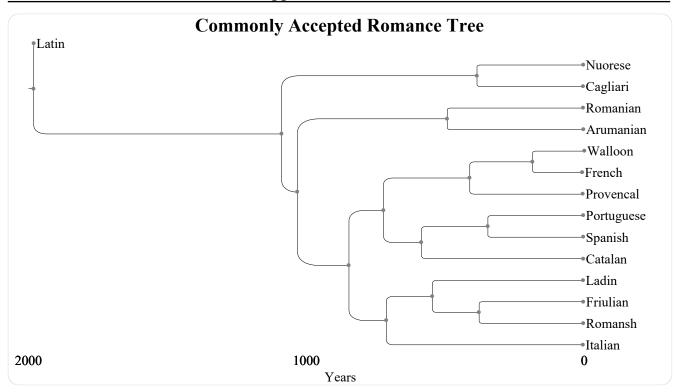
	ToBurn-Ardere	ToBurn-Flagrare	ToBurn-Incendere	ToBurn-AncestralClass8
Latin	a r d e: r e	f l a g r a: r e	i n k e n d - e r e	u s t u l a: r e
French	а в d - в -	f l a g в е	$\tilde{\epsilon}$ - s $\tilde{\alpha}$ - d j e	
Spanish	arder-	flagrar-	e n θ e n d - e r -	
Italian	a r d e r e	f l a g r a r e	i n tf ε n d j a r e	u s t o l a r e
PortugueseBrazi		flagkak-	ĩ - s e n dy i a r -	
			1 1 1 1 1 1 1 1 1 1	
Portuguese	e r d e r -	f l a g r a r -	$ \tilde{\mathbf{i}} - \mathbf{s} \tilde{\mathbf{e}} - \mathbf{d} \mathbf{j} \mathbf{a} \mathbf{r} -$	
Catalan			ə n s e n d r ə	
Walloon				
Friulian				
Romanian	a r d e		i n f i n d 3 e	u s t u r a
	All	All-Totus	Many	Many-Tantus
Latin	o m n e: s	t o: - t u s	m u l t u s	t a n t u s
French	-	t u	m u - - -	
Spanish		t o - d o -	m u - tf o -	tanto-
Italian	o n n i -	t u t t o -	m o l t o -	t a n t o -
PortugueseBrazi		t o - d u -	m ũ j - t u	$\begin{vmatrix} t & \tilde{e} & \tilde{e} \end{vmatrix} - \begin{vmatrix} t & \tilde{u} \end{vmatrix} - \begin{vmatrix} t & \tilde{u} \end{vmatrix} - \begin{vmatrix} \tilde{e} & \tilde{u} \end{vmatrix} - \begin{vmatrix} \tilde{e} & \tilde{u} & \tilde{u} \end{vmatrix} - \begin{vmatrix} \tilde{e} & \tilde{u} & \tilde{u} \end{vmatrix} - \begin{vmatrix} \tilde{e} & \tilde{u} & \tilde{u} & \tilde{u} \end{vmatrix}$
. S. tagassobiazi				
Portuguese		t o - ð u -	$\mathbf{m} \mathbf{\tilde{u}} \mathbf{\tilde{j}} - \mathbf{t} \mathbf{u}$	$ t \tilde{e}- t u $
Catalan		t o - t	m o 1	t a n t
Walloon		t 0 - - -		
Friulian		d u - t - -	m o 1 c	t a n c
Romanian		t o - t - -	m u l t	t u II C
			111 (1 1 1	
	Some			Other-Alius
	Some	Few	Other all ter	Other-Alius
	Some	Few p au k u s	Other	Other-Alius a 1 i u s
Latin	o - k œ - -	Few p au k u s p ø	Other a l t e r -	
Latin French		Few p au k u s	Other a 1 t e r -	
Latin French Spanish Italian	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Few p au k u s p ø p o k o -	Other a 1 t e r - o - t - B - o - t - f o a 1 t - r o	allius
Latin French Spanish	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Few p au k u s p ø p o k o - p b k o -	Other a 1 t e r - o - t - s - o - t - r o a 1 t - r o	$\begin{vmatrix} a & 1 & i & u & s \end{vmatrix}$
Latin French Spanish Italian	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Few p au k u s p ø p o k o - p b k o -	Other a 1 t e r - o - t - B - o - t - f o a 1 t - r o	allius
Latin French Spanish Italian PortugueseBrazi	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Few p au k u s p o k o p o w k u p o w k u p o k	Other a 1 t e r - o - t - r o a 1 t - r o o w t - f u	$\begin{vmatrix} a & 1 & i & u & s \end{vmatrix}$
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon	$ \begin{vmatrix} o & - & k & \widetilde{c}\widetilde{e} & - & - \\ a & 1 & g & u & n & o \\ a & 1 & k & u & n & o \\ a & w & g & \widetilde{u} & - & - \\ \end{vmatrix} $	Few p au k u s p o k o p o w k u p o w k u	Other a 1 t e r - o - t - u o w t - r u	$\begin{vmatrix} a & 1 & i & u & s \end{vmatrix}$
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan	$ \begin{vmatrix} o & - & k & \widetilde{c}\widetilde{e} & - & - \\ a & 1 & g & u & n & o \\ a & 1 & k & u & n & o \\ a & w & g & \widetilde{u} & - & - \\ \end{vmatrix} $	Few p au k u s p o k o p o w k u p o w k u p o k	Other a 1 t e r - o - t - u a 1 t - r u a 1 t - r ə	$\begin{vmatrix} a & 1 & i & u & s \end{vmatrix}$
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon	$ \begin{vmatrix} o & - & k & \widetilde{c}\widetilde{e} & - & - \\ a & 1 & g & u & n & o \\ a & 1 & k & u & n & o \\ a & w & g & \widetilde{u} & - & - \\ \end{vmatrix} $	Few p au k u s p o k o p o w k u p o w k u p o w k u p o w c p o c c c p o c c c p o c c c p o c c c p o c c c p o c c c p o c c c p o c c c p o c c c p o c c c p o c c c p o c c c p o c c c p o c c c p o c c c c p o c c c p o c c c p o c c c p o c c c p o c c c p o c c c p o c c c p o c c c p o c c c p o c c c p o c c c p o c c c p o c c c p o c c c c c p o c c c c c p o c c c c c p o c c c c c p o c c c c c c p o c c c c c c p o c c c c c c c p o c c c c c c c p o c c c c c c c p o c c c c c c c p o c c c c c c c p o c c c c c c c p o c c c c c c c c p o c c c c c c c c c p o c c c c c c c c c c	Other a 1 t e r - o - t - u o w t - r u a 1 t - r a õ - t - -	$\begin{vmatrix} a & 1 & i & u & s \end{vmatrix}$
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Few p au k u s p o k o p o w k u p o w k u p o w k u p o w c p o c c c p o c c c p o c c c p o c c c p o c c c p o c c c p o c c c p o c c c p o c c c p o c c c p o c c c p o c c c p o c c c p o c c c p o c c c c p o c c c p o c c c p o c c c p o c c c p o c c c p o c c c p o c c c p o c c c p o c c c p o c c c p o c c c p o c c c p o c c c p o c c c c c p o c c c c c p o c c c c c p o c c c c c p o c c c c c c p o c c c c c c p o c c c c c c c p o c c c c c c c p o c c c c c c c p o c c c c c c c p o c c c c c c c p o c c c c c c c p o c c c c c c c c p o c c c c c c c c c p o c c c c c c c c c c	Other a 1 t e r - o - t - u o w t - r u a 1 t - r a õ - t - - a 1 t - r i	$\begin{vmatrix} a & 1 & i & u & s \end{vmatrix}$
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian	$ \begin{vmatrix} o & - & k & c \tilde{e} & - & - \\ a & 1 & g & u & n & o \\ a & 1 & k & u & n & o \\ a & w & g & \tilde{u} & - & - \\ a & 1 & g & \tilde{u} & - & - \\ a & 1 & g & u & - & - \\ \end{vmatrix} $	Few p au k u s p p au k u s p o k o - p o k o - p o w k u p o w k u p o k - p o c w - p o c k - p o c k - p o c k - p o c k - p o c k - p o c k - p o c k - p o c c c c c c c c c c c c c c c c c c	Other a 1 t e r - o - t - o - t - o w t - a 1 t - a 1 t - a 1 t - a 1 t -	a 1 i u s
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French	O - k O - - -	Few p au k u s p p au k u s p o k o - p o k o - p o w k u p o w k u p o k p o c k p o c k p o k p o k p o w c u p o w c u p o w c u p o c c c c c c c c c c c c c c c c c c	Other a 1 t e r - o - t - o - t - o w t - a 1 t - a 1 t - a 1 t - a 1 t - Big-Majjorem	a 1 i u s
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish	o - k o = - -	Few p au k u s p p au k u s p o k o - p o k o - p o w k u p o w k u p o k - p o c k - p o c k - p o c k - p o c k - p o c k - c c c c c c c c c c c c c c c c c c c	Other a 1 t e r - o - t - o - t - o w t - a 1 t - a 1 t - a 1 t - a 1 t - Big-Majjorem	a 1 i u s
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish	O - k O - - -	Few p au k u s p ø p o k o - p o k o - p o w k u p o w k u p o w k u p o k p o c k p o c k g r a n d e m g r a n d e - g r a n d e - g r a n d e - g r a n d e -	Other a 1 t e r - o - t - o - t - o w t - a 1 t - a 1 t - a 1 t - a 1 t - Big-Majjorem	a 1 i u s
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish	O - k O - - -	Few p au k u s p p au k u s p o k o - p o k o - p o w k u p o w k u p o k - p o c k - p o c k - p o c k - p o c k - p o c k - c c c c c c c c c c c c c c c c c c c	Other a 1 t e r - o - t - o - t - o w t - a 1 t - a 1 t - a 1 t - a 1 t - Big-Majjorem	a 1 i u s
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi	O - k O - - -	Few p au k u s p p v p o k o - p o k o - p o w k u p o w k u p o k p o c k p o c k p o k g r a n d e m g r a n d e - g r a n d e - g r a n d e - g r a n d e - g r a n d e - g r a n d e - g r a n d e - g r a n d e - g r a n d e - g r a n d e - g r a n d e - g r a n d e -	Other a 1 t e r - o - t - o - t - o w t - a 1 t - a 1 t - a 1 t - a 1 t - Big-Majjorem	a 1 i u s
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi	O - k O - - -	Few p au k u s p b	Other a 1 t e r - o - t - o - t - o w t - a 1 t - a 1 t - a 1 t - a 1 t - Big-Majjorem	a 1 i u s
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi Portuguese Catalan	O - k O - - -	Few p au k u s p o k o - p o k o - p o w k u p o w k u p o w k u p o k p o c k p o k p o k g r a n d e m g r a n d e - g r a n d e - g r a n d e - g r a n d e - g r a n d e - g r a n d e - g r a n d e - g r a n d g r a n d	Other a 1 t e r - o - t - o - t - o w t - a 1 t - a 1 t - a 1 t - a 1 t - Big-Majjorem	a 1 i u s
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon	O - k O - - -	Few p au k u s p b v p o k o - p o k o - p o w k u p o w k u p o w k u p o k p o k p o k p o k o - p o w k i g r a n d e m g r a n d e - g r a n d e - g r a n d e - g r a n d e - g r a n d e - g r a n d e - g r a n d e - g r a n d e - g r a n d e - g r a n d e - g r a n d e - g r a n d e - g r a n d e - g r a n d e - g r a n d e - g r a n d e - g r a n d e -	Other a 1 t e r - o - t - o - t - o w t - a 1 t - a 1 t - a 1 t - a 1 t - Big-Majjorem	a 1 i u s
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi Portuguese Catalan	O - k O - - -	Few p au k u s p o k o - p o k o - p o w k u p o w k u p o w k u p o k p o c k p o k p o k g r a n d e m g r a n d e - g r a n d e - g r a n d e - g r a n d e - g r a n d e - g r a n d e - g r a n d e - g r a n d g r a n d	Other a 1 t e r - o - t - o - t - o w t - a 1 t - a 1 t - a 1 t - a 1 t - Big-Majjorem	a 1 i u s

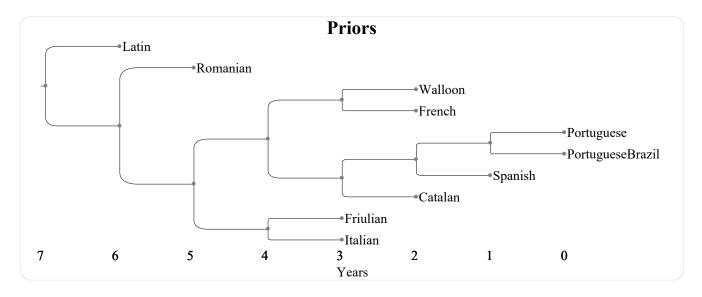
	Long-Largum	Wide	Wide-Amplum	Heavy
Latin	l a r g u m	l a: t u m	a m p l u m	g r a w i s
French	1 ав з	- - -	$ \tilde{a} $ - $ p $ $ 1 $ - $ -$	g B a V - -
Spanish	1 a r y o -	1 a t o -	a n t - o -	g r a b e -
Italian	1 a r g o -	1 a t o -	ampjo-	$g \mid r \mid \epsilon \mid v \mid e \mid -$
PortugueseBraz	i l a s g u -		$\left oldsymbol{ ilde{e}} ight - \left oldsymbol{\int} ight - \left oldsymbol{\mathrm{u}} ight -$	$g \mid \mathbf{r} \mid a \mid \mathbf{v} \mid \mathbf{i} \mid$ -
Portuguese	1 a r g u -	1 a t u -	$\left \widetilde{\mathbf{e}}\right - \left \int \left -\right \mathbf{u} \right -$	$g \mid \mathbf{r} \mid \mathbf{a} \mid \mathbf{v} \mid \mathbf{i} \mid$
Catalan	Λ a r k		a m p 1 ə -	g r e w
Walloon				g r a v
Friulian	l a r k	11 1.		$g \mid r \mid \epsilon \mid v \mid i \mid -$
Romanian	1 a r g			g r e w
Latin	Heavy-Lurdus	Heavy-Pesant	Small p i t t i t u s	Small-Pittinus
French	1 u r u u s	p e: s a n t - p ə z ɑ	p = - t i	p i t t i n u s
Spanish	lerdo-	p e s a - ð o	P 8 - t 1 - - -	p e - k e p o -
Italian	1 o r d o -	p e s a n t e		p i t t i n o -
PortugueseBraz		p e z a - d u		p e - k e n u -
. Sitagaooobiaz		F 5 5 6 14 4		F 5 12 22 24 24
Portuguese	1 e r d o -	$ \mathbf{p} \mathbf{i} \mathbf{z} \mathbf{a} - \mathbf{\delta} \mathbf{u}$		$p \mid i \mid - \mid k \mid e \mid n \mid u \mid -$
Catalan		p ə z a - t -	p ə t i t - - -	
Walloon			p i - t i	
Friulian		pezant-	-	
Romanian				p u - ts i n - -
	Small-Pitulus	Short	Short-Brevis	Narrow
Latin	$p \mid i \mid - \mid t \mid u \mid l \mid u \mid s$	k u r t u s	b r e w i s	a n g u s t u s
French		k u r	p κ ε t	
Spanish		k o r t o -	brebe-	a n g o s t o -
Italian PortugueseBraz	p i k k o l o -	k o r t o - k u в t u -	b r ε v e - b r ε v i -	a n g u s t o -
Fortuguesebraz	.1	K u B t u -	D 1 ε V 1 -	
Portuguese		kurtu-	b r ε v i -	
Catalan		k u r t	brew-	
Walloon		k u: r	р к е ц	
Friulian	p i - tf u 1 - -	k u r t		
Romanian				i ŋ g u s t - -
	Narrow-Strictus	Thin	Thin-Delicatus	Thin-Subtilis
Latin	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	m i n u: - t u s	d e: l i k a: t u s	s u b t i: l e m
French	е - t в w а	m ə n y	d u: 3 e:	
Spanish	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	m e n u - d o -	d e l - y a ð o -	s u - t i 1 - -
Italian	- s t r - e - t t o -	m i n u - t o -	delikato-	s o t t i l e -
PortugueseBraz	i i s t r - ej - - t u -	m i - u - d u -	d e w - g a d u -	s u - $ tf i w $ - $ -$
Portuguese	i f t r - ej - - t u -	m i - u - ð u -	$ \mathbf{d} \mathbf{\epsilon} \mathbf{l} - \mathbf{y} \mathbf{a} \mathbf{\delta} \mathbf{u} $	s u - tf i w - -
Catalan		m ə n u - t	dəlikat-	s u p t i l
	ə s t r - ε t	III & II u	ugilkat	Suptif
Walloon	- S t R - Ø:			s u: - t i
Walloon Friulian				

	Green	One	Two-Duos	Two-Duae
Latin	w i r i d e m	u: n u m	d u o: s	d u - aj
French	v e в	$\left \widetilde{\mathbf{ce}}\right - \left -\right $	$ \mathbf{d} - \mathbf{ø} $ -	
Spanish	b e r - d e -	u n o -	d - o s	
Italian	v e r - d e -	u n o -		d u - e
PortugueseBrazi		$ \mathbf{\tilde{u}} - - - $	d - oj s	
Portuguese	v e r - d i -	$ \mathbf{\tilde{u}} - - - $	d - oj ∫	
Catalan	v ε r - t - -	u n - -	d - o s	
Walloon	v ε в	$ \tilde{\mathbf{o}} - - - $	d - ø: -	
Friulian	v ε r - t - -	u ŋ - -	d - oj -	
Romanian	v e r - d e -	u n u -	d - oj -	d o w ə
	Two-Duas	Three	Four	Five
Latin	d u a s	t r - e: s	kw - a t t w o r -	k ^w i: n k ^w - e
French		t B W Q -	k - a - t в -	s e - k - -
Spanish		t r - e s	k w a - t - r o	$ \theta $ i $ n $ k $ - $ o
Italian		t r - e -	k w a t t r o	tf i ŋ k w e
PortugueseBrazi	d u e s	t r - e s	k w a - t - r u	s ı - k - u
D 1	1		1	
Portuguese	$ d u e \int$	$ t r - e \int$	k w a - t r u	s î - k - u
Catalan		$ \mathbf{t} \mathbf{r} - \mathbf{\epsilon} \mathbf{s} $	kwa-t-rə	s i ŋ k
Walloon		t r - ø: -	k w a - t	$\begin{vmatrix} s & \tilde{e} & - & k & - & - \\ & & & & & & & & & & & & & & &$
Friulian		t r - e: -	k w a - t r i	tf i n k
Romanian		t r - ej -	p - a - t r u	
			-	
	Here	There	There-Ibi	There-Adlbi
Latin	- e k k u m h i: k	There i l l a: k	-	
Latin French	- e k k u m h i: k i s i -	There i l l a: k	There-Ibi	There-Adlbi
Latin French Spanish	- e k k u m h i: k	There i 1 1 a: k - 1 a - a - j a -	There-Ibi	
Latin French Spanish Italian	- e k k u m h i: k i s i - - a - k i - k w i -	There i l l a: k	There-Ibi	There-Adlbi
Latin French Spanish	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	There i 1 1 a: k - 1 a - a - j a -	There-Ibi	There-Adlbi
Latin French Spanish Italian PortugueseBrazi	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	There i 1 1 a: k - - 1 a - a - j a - - - 1 a - - - 1 a -	There-Ibi	There-Adlbi a i a i
Latin French Spanish Italian PortugueseBrazi Portuguese	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	There i 1 1 a: k - - 1 a - a - j a - - - 1 a - - - 1 a -	There-Ibi	There-Adlbi
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan	- e k k u m h i: k i s i - - a - k i - k w i -	There i 1 1 a: k	There-Ibi	There-Adlbi a i a i
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	There i 1 1 a: k - - 1 a - a - j a - - - 1 a - - - 1 a -	There-Ibi	There-Adlbi a i a i
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	There i 1 1 a: k	There-Ibi	There-Adlbi a i a i
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	There i 1 1 a: k	There-Ibi	There-Adlbi a i a i
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian	- e k k u m h i: k i - s - - i - i - i - i - i - i - i	There i l l a: k	There-Ibi i b i: - v i What k v i d	There-Adlbi a i
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian	- e k k u m h i: k i - - s - - i - - i -	There i l l a: k	There-Ibi i b i: - v i What k w a -	There-Adlbi a i a i e i When-Quando
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin	- e k k u m h i: k i - s s - - i - i - i	There i l l a: k	There-Ibi i b i: - v i what k v i d k w a - k - e - c	There-Adlbi a i
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French	- e k k u m h i: k i -	There i l l a: k	There-Ibi i b i: v i	There-Adlbi a i
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish	- e k k u m h i: k i -	There i l l a: k	There-Ibi i b i: - v i what k v i d k w a - k - e - c	There-Adlbi a i a i b i When-Quando kw - a n d o: k - a k w a n d o
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi	- e k k u m h i: k i -	There i l l a: k	There-Ibi i b i: - v i k w a	There-Adlbi a i i
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi	- e k k u m h i: k i - s - - i - - i - - i -	There i l l a: k	There-Ibi i b i: - v i kw - i d k w a k - e k - i k - i	There-Adlbi a i i
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi Portuguese Catalan	- e k k u m h i: k i - s - - i - - i - - i -	There i l l a: k	There-Ibi i b i:	There-Adlbi a i i
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon	- e k k u m h i: k i -	There i l l a: k	There-Ibi i b i: v i	There-Adlbi a i i
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi Portuguese Catalan	- e k k u m h i: k i - s - - i - - i - - i -	There i l l a: k	There-Ibi i b i:	There-Adlbi a i i

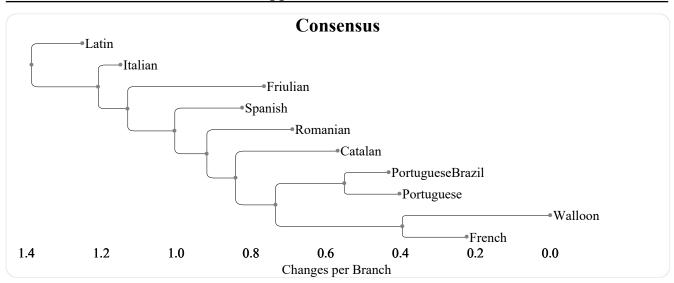
	How-Quomodo	Not	Not-Nec	And-Et		
Latin	k ^w o: m o d o	n o: n	n e k	e t		
French	k o m - - -	$ \mathbf{n} \tilde{\mathfrak{o}} $ -	n i -	e -		
Spanish	k o m o	n o -	n i -	i -		
Italian	k o m e	n o n	n e -	e -		
PortugueseBrazi	k o m u	$\left n \right ilde{arepsilon} \left ilde{w} ight $	n ej -	e		
Portuguese	k o m u	$ \mathbf{n} \widetilde{\mathbf{e}} \widetilde{\mathbf{w}}$	n ej -	i -		
Catalan	k o m - - -	n o -	n i -	i -		
Walloon	$ \mathbf{k} \mathfrak{d} \mathbf{m} \tilde{\epsilon} - -$		$ \mathbf{n} \mathbf{\tilde{e}} $ -	ε -		
Friulian	tf e m u: t -	n o -		e -		
Romanian	k u m	n u -		e -		
And-Si						
Latin	s i: k					
French						
Spanish						
Italian						
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Portuguese						
Catalan						
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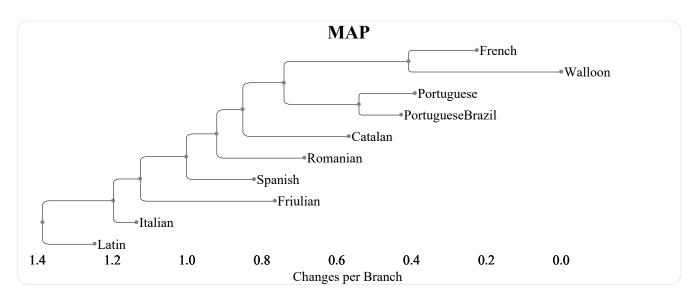
Appendix 4 - Results





Appendix 4 - Results





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