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



Appendix 2 - Partition Assignments

Model: "Linguistically Informed"

1 Nasal Vowel

ẽj õ ũ ĩ ẽ ẽj õ ẽ ẽu ẽ ũ cẽ ẽw

2 Vowel

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

3 Nasal Consonant

nmŋŋĵ

4 Non Sylabic Sonorant

wjlr

5 Consonant

g z j dz s ∫ v b t d f r x λ κ h tf p z ð k ts r θ ų c g ł k^w γ g^w β ϶ ͺ i ç

		We	YouPlural	YouSingular
Latin	- e g o:	n o: - s -	wo: - s	t u:
French	3 9	n u	$ \mathbf{v} \mathbf{u} - \mathbf{v} $	t y
Spanish	j o	n o - s -	b o - s	t u
Italian	$\begin{vmatrix} \mathbf{i} \\ \mathbf{i} \end{vmatrix} - \begin{vmatrix} \mathbf{c} \\ \mathbf{o} \end{vmatrix}$	n o: i	v o: i -	t u
PortugueseBrazi		$\begin{vmatrix} \mathbf{n} & \mathbf{j} & \mathbf{j} \\ \mathbf{n} & \mathbf{j} \end{vmatrix} - \mathbf{s}$	v o j s	t u
i ortagaooobrazi			· 0 J 0	l u
Portuguese	- e - w	$ \mathbf{n} \mathbf{o} - \mathbf{f} $	$ \mathbf{v} \mathbf{o} $ - $ \int$	t u
Catalan	3 3	1 1 1 1 1 1	b u - s	t u
Walloon	dz 1	n o	$ \mathbf{v} \mathbf{o} - \mathbf{s} $	t y
Friulian	j o	n o:	v o:	t u
Romanian	j e - w	n oj - - -	v oj	t u
	YouSingular-VostramMer		Woman-Mulier	Woman-Domina
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
Spanish	$- \mathbf{u} \mathbf{s} \mathbf{t} \mathbf{e} \mathbf{d}$	- e - m - b r - a	m u x - e r	d o p a
Italian		f e m m i - n - a	тоббе	d o n - n a
PortugueseBrazi	v o s - e -	f e - m e v	ти у - 6 в	d o n e
J				
Portuguese	v 3 s - e -	f e - m j - - e	$ \mathbf{m} \mathbf{u} \mathbf{\Lambda} - \mathbf{e} \mathbf{r} - \mathbf{r} $	d o - - n e
Catalan	v o s t e -	f e - m - b r - a	m u ʎ - e	d o n o
Walloon		f œ - m		d œ m
Friulian		$ \mathbf{f} \mathbf{\epsilon} - \mathbf{m} \mathbf{i} - \mathbf{n} - \mathbf{\epsilon} $	m u i: r	d 2 n e
Romanian		f e - m e - j e	m u - j e r e -	d gam - n ə
i torriuriuri		I C III C J C	m u j c i c	u vain n ə
Communicati	ManHumanBeing			
Latin	ManHumanBeing	ManHumanBeing-Homo	Child i n f a n t e m	Child-Ninnus
	h o m i - n e m	ManHumanBeing-Homo	Child	
Latin French	h o m i - n e m - o m	ManHumanBeing-Homo	Child i n f a n t e m	Child-Ninnus
Latin	h o m i - n e m	ManHumanBeing-Homo	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
Latin French Spanish Italian	h o m i - n e m - - - - - - - - -	ManHumanBeing-Homo	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Child-Ninnus
Latin French Spanish Italian	h o m i - n e m - o m - b r e o m ej	ManHumanBeing-Homo	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Child-Ninnus n i p o n i n o
Latin French Spanish Italian	h o m i - n e m - - - - - - - - -	ManHumanBeing-Homo	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Child-Ninnus n i p o n i n o
Latin French Spanish Italian PortugueseBrazi	h o m i - n e m - o m - b r e o m ej	ManHumanBeing-Homo	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Child-Ninnus n i n o n i n o n e n e ñ e j
Latin French Spanish Italian PortugueseBrazi Portuguese	h o m i - n e m - o m - b r e o m ej o m ej	ManHumanBeing-Homo	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Child-Ninnus n i n o n i n o n e n e ñ
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	ManHumanBeing-Homo	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Child-Ninnus n i n o n i n o n e n e ñ
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	ManHumanBeing-Homo	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Child-Ninnus n i n o n i n o n e n e ñ
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	ManHumanBeing-Homo	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Child-Ninnus n i n o n i n o n e n e ñ
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian	h o m i - n e m - o m - b r e o m e j	ManHumanBeing-Homo	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Child-Ninnus n i p o n i n o n e n e i i n o n e n e i i n o n e n s i i n o n e n e n e i i n o n e n e n e i i n o n e n e n e i i n o n e n e n e i i n o n e n e n e i i n o n e n e n e n e i i n e n e
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ManHumanBeing-Homo	Child i n f a n t e m α - f α i n f a n t e f a n t e - 1 - f ε - f i ĭ - f ε - t i - Ke - f α Husband m a r i: t u s m a в i	Child-Ninnus n i p o n i n o n e n e ñ e ñ e n e n e n e n e n e n e
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish	h o m i - n e m - o m - b r e o m e j	ManHumanBeing-Homo - h o m o: - ĵ - - w o m o - Wife-Mulier m u l i e r - m u x - e r -	Child i n f a n t e m α - f α i n f a n t e - f a n t e - 1 - f ε - f ε - f i - E - f α Husband m a r i: t u s	Child-Ninnus n i p o n i n o n e n e i i n o n e n e i i n o n e n s i i n o n e n e n e i i n o n e n e n e i i n o n e n e n e i i n o n e n e n e i i n o n e n e n e i i n o n e n e n e n e i i n e n e
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ManHumanBeing-Homo h o m o:	Child i n f a n t e m α - f α i n f a n t e f a n t e f a n t e - f α f	Child-Ninnus n i n o n i n o n e n e
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ManHumanBeing-Homo - h o m o: - ĵ - - w o m o - Wife-Mulier m u l i e r - m u x - e r -	Child	Child-Ninnus n i n o n i n o n e n e
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ManHumanBeing-Homo	Child i n f a n t e m α - f α i n f a n t e i n f a n t e f a n t e - f α n t e	Child-Ninnus n i n o n i n o n i n o n e n e i e
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ManHumanBeing-Homo	Child i n f a n t e m α - f α i n f a n t e f a n t e f a n t e - f α f	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi Portuguese Catalan	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ManHumanBeing-Homo	Child i n f a n t e m α - f α i n f a n t e i n f a n t e f a n t e - f α n t e	Child-Ninnus n i n o n i n o n i n o n e n e i e
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ManHumanBeing-Homo	Child i n f a n t e m α - f α i n f a n t e f a n t e f a n t e - f α f	Child-Ninnus n i n o n i n o n i n o n e
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi Portuguese Catalan	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ManHumanBeing-Homo	Child i n f a n t e m α - f α i n f a n t e f a n t e f a n t e - f α f	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

	Husband-Socius	Mother	Father	Father-Tata
Latin	s o k i u s	m a: t r e m	p a t r e	t a t a
French		m e - r	р е - в -	
Spanish		m a ð r e -	p a ð r e	t a t a
Italian	s o tf - o -	m a: d r e -	p a: d r e	t a t a
PortugueseBrazi		$ \mathbf{m} \mathbf{\widetilde{e}}\widetilde{\mathbf{j}} $ - $ $ - $ $ -	p aj - - -	t a t a
D				
Portuguese		m ej	p aj	t a t a
Catalan Walloon		m a - r ə -	p a - r ə	
Friulian		m e - R m a - r i -	p e: - r -	
Romanian	s o ts	m a - r i -	p a - r i	t a t ə
	Animal	Animal-Bestia	Fish-Piskem	Fish-Pescion
Latin	a n i m a l i a	b e: s t i a	p i s k e m	TISH I COOLON
French	o m a - j	12 12 12 12 12 12	F 2 2 2 2 2	p w a s õ
Spanish	a 1 i m a n - a		p e 0 - - -	F
Italian	1 1 1 1 13 1 1	$ \mathbf{b} \mathbf{i} \int \mathbf{f} - \mathbf{a} $	p e	
PortugueseBrazi		b i - s - e	p ej	
Portuguese		b i - ʃ - ɐ	p ej	
Catalan			p e ∫ - - -	
Walloon				$ p - \epsilon h \tilde{o} $
Friulian	n e m a: 1	b i s - - -	$p \mid \epsilon \mid s \mid - \mid - \mid - \mid$	
Romanian	- n ə m a - j e		p e f t e -	
	Bird-Avem	Bird-Avicellum	Bird-Passerem	Louse
Latin	Bird-Avem a w e m	- a w i - k - e l l u m	Bird-Passerem	p - e d u - k l u s
Latin French	a w e m		Bird-Passerem p a s s e r e m	p
Latin French Spanish		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Bird-Passerem p a s s e r e m p a - x a r o -	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Latin French Spanish Italian	a w e m a b e -	- a w i - k - e l l u m	Bird-Passerem	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Latin French Spanish	a w e m a b e -	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Bird-Passerem p a s s e r e m p a - x a r o -	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Latin French Spanish Italian PortugueseBrazi	$egin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Dird-Passerem	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Latin French Spanish Italian	a w e m	$ \begin{vmatrix} - & a & w & i & - & k & - & e & l & l & u & m \\ w & a & - & - & - & z & - & o & - & - & - & - \\ - & - & & u & - & & t & & f & & - & & \epsilon & & l & & l & & o & & - \\ \end{vmatrix} $	Bird-Passerem	p - e d u - k l u s p - u p - i - o - k u p - i - o - k u
Latin French Spanish Italian PortugueseBrazi Portuguese	$egin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{vmatrix} - & a & w & i & - & k & - & e & l & l & u & m \\ w & a & - & - & - & z & - & o & - & - & - & - \\ - & - & u & - & t & tf & - & \epsilon & l & l & l & o & - \\ \end{vmatrix} $	Dird-Passerem	p - e d u - k l u s p - u p j o x - o p - i - o - k u p - o k u
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan	a w e m	$ \begin{vmatrix} - & a & w & i & - & k & - & e & l & l & u & m \\ w & a & - & - & - & z & - & o & - & - & - & - \\ - & - & & u & - & & t & & f & & - & & \epsilon & & l & & l & & o & & - \\ \end{vmatrix} $	Dird-Passerem	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon	a w e m	$ \begin{vmatrix} - & a & w & i & - & k & - & e & l & l & u & m \\ w & a & - & - & - & z & - & o & - & - & - & - \\ - & - & u & - & t & tf & - & \epsilon & l & l & l & o & - \\ \end{vmatrix} $	Dird-Passerem	p - e d u - k l u s p - u p j o x - o p - i - o - k u p - o k u
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian	a w e m	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Dird-Passerem	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin	a w e m	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	P a s s e r e m	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French	a w e m	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Dird-Passerem	p - e d u - k l u s p - u
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish	a w e m	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Bird-Passerem	p e d u k l u s p u - - - - - - -
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian	a w e m	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Dird-Passerem	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish	a w e m	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Bird-Passerem	p e d u k l u s p u - - - - - - -
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi	a w e m	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Bird-Passerem	P e d u k l u s p u - - - - - - - -
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi	a w e m	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Bird-Passerem	P e d u k l u s p u - - - - - - - -
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi Portuguese Catalan	a w e m	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Dird-Passerem	P e d u k l u s p u - - - - - - - -
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon	a w e m	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Dird-Passerem	P e d u k l u s p u - - - - - - - - -
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi Portuguese Catalan	a w e m	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Dird-Passerem	P e d u k l u s p u - - - - - - - - -

	Mouth		Mouth-Gula	Sun	Sun-Soliculus
Latin	b u k		g u l a	s o: 1 e m	s o l i k u l u s
French	b u -	$ \int -$			s ɔ l εj - - - -
Spanish	b o -	k a		s o 1	
Italian	b o k	k a		s o l e -	
PortugueseBrazi	b o -	k e		s 3 w	
Portuguese	b o -	k e		s o t - -	
Catalan	b o -			s o 1 - -	
Walloon	b o k			$ \mathbf{s} \mathbf{o} 1 \mathbf{o} $ -	
Friulian	b 5 -				s o r e - - 1 i -
Romanian	b u -		g u r ə	s oa r e -	
	Moon		Star	Water	Rain
Latin	1 u: n		- s t - e: 1 1 a	$ a - k^w - a $	p l u - w i a
French	l y n		e - t w a - l -	0	p l q - - i -
Spanish	l u n		e s t r e - j a	a y w a	j - u - b j a
Italian	l u n		- s t - e l l a	a k k w a	p j o d d - a
PortugueseBrazi	1 u -	В	i s t r e - 1 e	a - g w e	$\left \int \left -\left u \right - \left v \right - \right e$
Portuguese	1 u -	n	 i f t r e - 1 v	a - g w e	
Catalan	λun		$\begin{vmatrix} \mathbf{a} & \mathbf{b} & \mathbf{b} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{a} & \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} &$		
Walloon	l ø n		- s t - Ø: - 1 -	aj - γ w ə ε: w -	p 1 u - 3 - ə - -
Friulian	lun		$\begin{vmatrix} - & s & t & - & 0 \\ - & s & t & - & \epsilon & - & 1 \end{vmatrix}$ e		p 1 a B j e
Romanian	l u n		- s t - ea	a - g - e a - p - ə	p l oa - j e
i Villalliall					
	Lake		Sea	Salt	Earth
Latin	Lake l a k	u m	Sea m a r e	Salt s a: 1 e m	Earth t - e r r a
Latin French	Lake lak lak	u m 	Sea m a r e m ɛ ʁ -	Salt s a: 1 e m s & 1	Earth t - e r r a
Latin	Lake lak lak lak lag	u m o -	Sea m a r e e m ε κ - m a r -	Salt s a: 1 e m s ɛ 1 s a 1	Earth t - e r r a
Latin French Spanish Italian	Lake lak lak lag lag	u m	Sea m a r e m ε ε - m a r - m a r e	Salt s a: 1 e m s c 1 - s a 1 - s a 1 e -	Earth t - e r r a
Latin French Spanish	Lake lak lak lag lag	u m	Sea m a r e e m ε κ - m a r -	Salt s a: 1 e m s ɛ 1 s a 1	Earth t - e r r a t - e - ε - r a t - ε r r a
Latin French Spanish Italian	Lake 1 a k 1 a k 1 a g 1 a g 1 a g 1 a g	u m	Sea m a r e m ε ε - m a r - m a r e	Salt s a: 1 e m s ɛ 1 s a 1 e - s a l e - s a w	Earth t - e r r a t - e - ε - r a t - ε r r a
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan	Lake 1 a k 1 a k 1 a g 1 a g 1 a g 1 a g 1 a g	u m 0 - 0 - u -	Sea mare mare mare mare mare	Salt s a: 1 e m s ɛ 1 s a 1 e - s a w s a 1 s a 1	Earth t
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon	Lake 1 a k 1 a g 1 a g 1 a g 1 a g 1 a g 1 a k 1 a k	u m o - u - u	Sea m a r e m a r e m a r e m a r - m a r - m a r - m a r -	Salt s a: 1 e m s ɛ 1 s a 1 e - s a w s a 1 s a 1 s a 1	Earth t - e r a t - ε - r a t - ε - r a t - ε - r a t - ε - r a t - ε - r a t - ε - r a t - ε - r a
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian	Lake 1 a k 1 a k 1 a g 1 a g 1 a g 1 a g 1 a g 1 a k 1 a k 1 a k 1 a k	u m o - u	Sea	Salt s a: 1 e m s ɛ 1 s a 1 e - s a w s a 1 s a 1 s a 1 s a 1 s a 1	Earth t - e r a t - ε r a t - ε r a t - ε r a t - ε r a t - ε r a t - ε r a t - ε r a t - ε r a t - ε r a t - ε r a t - ε r a t - ε r a t - ε r a
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon	Lake 1 a k 1 a k 1 a g 1 a g 1 a g 1 a g 1 a g 1 a k 1 a k 1 a k 1 a k	u m 0 - u - u	Sea	Salt s a: 1 e m s a: 1 - s a 1 e - s a 1 - s a 1 - s a 1 - s a 1 - s a 1 - s a r e -	Earth t - e r r a t - ε r r a t - ε r r a t - ε - κ ε t - ε - κ ε t - ε - κ ε t - ε - κ ε t - ε - κ ε t - ε - κ ε t - ε - κ - κ ε t - ε - κ - κ - κ - κ - κ - κ - κ - κ - κ
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian	Lake 1 a k 1 a k 1 a g 1 a g 1 a g 1 a g 1 a g 1 a g 1 a k 1 a k 1 a k 1 a k Fog	u m 0 - 0 - u	Sea m a r e m a r e m a r -	Salt s a: 1 e m s a: 1 s a 1 e - s a w s a 1 s a 1 s a 1 s a 1 s a r e - Fog-Tenebrae	Earth t
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin	Lake 1 a k 1 a k 1 a g 1 a g 1 a g 1 a g 1 a g 1 a g 1 a k 1 a k 1 a k 1 a k Fog	u m 0 - u - u	Sea m a r e m a r e m a r e m a r - m a r - m a r - m a r - m a r e Fog-Nebula n - e - b u 1 a	Salt s a: 1 e m s a: 1 - s a 1 e - s a 1 - s a 1 - s a 1 - s a 1 - s a 1 - s a r e -	Earth t
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French	Lake 1 a k 1 a g 1 a g 1 a g 1 a g 1 a g 1 a g 1 a g 1 a k 1 a k 1 a k 1 a k Fog k a: 1	u m	Sea m a r e m a r e m a r e m a r - m a r - m a r - m a r e m a r e Fog-Nebula n - e - b u l a n j p l y	Salt s a: 1 e m s a: 1 s a 1 e - s a w s a 1 s a 1 s a 1 s a 1 s a r e - Fog-Tenebrae	Earth t
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish	Lake 1 a k 1 a g 1 a g 1 a g 1 a g 1 a g 1 a g 1 a g 1 a k 1 a k 1 a k 1 a k Fog k a: 1 k a 1	u m	Sea m a r e m a r e m a r - m a r - m a r - m a r - m a r - m a r - m a r - m a r e Fog-Nebula n - e - b u 1 a n j σ - 1 y n j e - b - 1 a	Salt s a: 1 e m s a 1 s a 1 e - s a w s a: 1 s a 1 s a 1 s a 1 s a r e - Fog-Tenebrae t e n e: b r aj	Earth t
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian	Lake	u m	Sea m a r e m a r e m a r - m a r - m a r - m a r - m a r - m a r - m a r - m a r e Fog-Nebula n - e - b u l a n j σ l y n j e - b - l a n - e b b - j a	Salt s a: 1 e m s a: 1 s a 1 e - s a w s a 1 s a 1 s a 1 s a 1 s a r e - Fog-Tenebrae	Earth t
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish	Lake	u m	Sea m a r e m a r e m a r - m a r - m a r - m a r - m a r - m a r - m a r - m a r e Fog-Nebula n - e - b u 1 a n j σ - 1 y n j e - b - 1 a	Salt s a: 1 e m s a 1 s a 1 e - s a w s a: 1 s a 1 s a 1 s a 1 s a r e - Fog-Tenebrae t e n e: b r aj	Earth t
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi	Lake	u m	Sea m a r e m a r e m a r - m a r - m a r - m a r - m a r - m a r - m a r e Fog-Nebula n - e - b u 1 a n j σ - 1 y n j e - b - 1 a n - e b b - j a n - ε - v w - ε	Salt s a: 1 e m s a 1 s a 1 e - s a w s a: 1 s a 1 s a 1 s a 1 s a r e - Fog-Tenebrae t e n e: b r aj	Earth t
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi	Lake	u m	Sea m a r e m a r e m a r e m a r - m a r - m a r - m a r - m a r - m a r e Fog-Nebula n - e - b u 1 a n j σ - 1 y n j e - b - 1 a n - e b b - j a n - ε - v w - ε	Salt s a: 1 e m s a 1 s a 1 e - s a w s a: 1 s a 1 s a 1 s a 1 s a r e - Fog-Tenebrae t e n e: b r aj	Earth t - e r r a t - e - β - r a t - ε r r a t - ε r r a t - ε r r a t - ε - β θ
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi Portuguese Catalan	Lake	u m	Sea m a r e m a r e m a r - m a r - m a r - m a r - m a r - m a r - m a r e Fog-Nebula n - e - b u 1 a n j σ - 1 y n j e - b - 1 a n - e b b - j a n - ε - v w - ε	Salt s a: 1 e m s a 1 s a 1 e - s a w s a: 1 s a 1 s a 1 s a 1 s a r e - Fog-Tenebrae t e n e: b r aj	Earth t
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon	Lake	u m	Sea m a r e m a r e m a r e m a r - m a r - m a r - m a r - m a r - m a r e Fog-Nebula n - e - b u 1 a n j σ - 1 y n j e - b - 1 a n - e b b - j a n - ε - v w - ε	Salt s a: 1 e m s a 1 s a 1 e - s a w s a: 1 s a 1 s a 1 s a 1 s a r e - Fog-Tenebrae t e n e: b r aj	Earth t - e r r a t - e - ε r a t - ε r r a t - ε - ε ε ε t - ε - ε ε t - ε - ε ε t - ε - ε ε t - ε - ε ε t - ε - ε ε t - ε - ε ε t - ε - ε ε t - ε - ε ε t - ε - ε ε t - ε - ε ε t - ε - ε ε t - ε - ε ε t - ε - ε ε t - ε π - ε ε ε t - ε π - ε ε ε t - ε π - ε ε ε t - ε π - ε ε ε t - ε π - ε ε ε t - ε π - ε ε ε ε t - ε π - ε ε ε ε t - ε π - ε ε ε ε t - ε π - ε ε ε ε t - ε π - ε ε ε ε t - ε π - ε ε ε ε t - ε π - ε ε ε ε t - ε π - ε ε ε ε t - ε π - ε ε ε ε t - ε π - ε ε ε ε ε t - ε π - ε ε ε ε ε t - ε π - ε ε ε ε ε t - ε π - ε ε ε ε ε t - ε π - ε ε ε ε ε t - ε π - ε ε ε ε ε ε t - ε π - ε ε ε ε ε ε ε t - ε π - ε ε ε ε ε ε ε ε ε ε t - ε π - ε ε ε ε ε ε ε ε ε ε ε ε ε ε ε ε
Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi Portuguese Catalan	Lake	u m	Sea m a r e m a r e m a r e m a r - m a r - m a r - m a r - m a r - m a r e Fog-Nebula n - e - b u 1 a n j σ - 1 y n j e - b - 1 a n - e b b - j a n - ε - v w - ε	Salt s a: 1 e m s a 1 s a 1 e - s a w s a: 1 s a 1 s a 1 s a 1 s a r e - Fog-Tenebrae t e n e: b r aj	Earth t - e - r a t - ε - r a t - ε - r a t - ε - r a t - ε - r a t - ε - r a t - ε - r a t - ε - r a t - ε - r a t - ε - r a t - ε - r a t - ε - r a t - ε - r a t - ε - r a t - ε - r b t - ε - r a t - ε - r a t - ε - r a t - ε - r a t - ε - r a c - r

	Fog-Fumata	Fog-Caecia	Sky	Wind
Latin	f u: m a: t a	k aj k i a	k - aj l u m	w - e n t u m
French	f y m e		s j ε 1	$ \mathbf{v} $ - $ \tilde{\mathbf{a}} $ - $ \mathbf{v} $ -
Spanish	f u m a t a		θ j e 1 o -	b j e n t o -
Italian	f u m a: t a		tf - ε 1 o -	$ \mathbf{v} - \mathbf{\varepsilon} \mathbf{n} \mathbf{t} \mathbf{o} \mathbf{c} $
PortugueseBrazi	f u m a s e		s - ε w	v
J				
Portuguese	f u m a s e		$ \mathbf{s} - \mathbf{\epsilon} \mathbf{w} - -$	v - e - t u -
Catalan			s - ε 1	b - e n
Walloon			s - i:	v - ê
Friulian	f u m a t e		tf - i: 1	v - i n t
Romanian		tf ea tf - ə	tf - e r	v - i n t
	Fire-Focus	Year	Name-Nomen	Name-Nominem
Latin	f - o k u m	a n n u m	n o: m e n	n o: m i n - e m
French	f - ø - -	$ \tilde{\alpha} $ - $ $ - $ $ -	n 5 - -	
Spanish	f w e g o -	a - n o -		n o m - b r e -
Italian	f w o k o -	a n n o -	n o m e -	
PortugueseBrazi	f - o g u -	e - n u -	n o m i -	
Portuguese	f - o y u -	e - n u -	n o m i -	
Catalan	f - 3 k	a - n - -	n o m	
Walloon	f - ø:	$ \tilde{\mathfrak{a}} $ - $ $ - $ $ -	$ \mathbf{n} \mathbf{\tilde{o}} - - -$	
Friulian	f - u: k	a - ŋ - -	n o ŋ	
Romanian	f - o k	a n	n u m e -	
	Tongue	ToDrink	ToEat	ToEat-Manducare
Latin	$\begin{vmatrix} 1 & i & n & g^w \end{vmatrix} - \begin{vmatrix} a & a \end{vmatrix}$	b i b - e r e	k o m e d e r e	m a n d u k a: r e
French	$\frac{1}{1} \left \tilde{\alpha} \right - \left g \right - \left - \right $	p m a r -		m a - 3 - e
Spanish	l e ŋ g w a	b e b - e r -	k o m e r -	m a n d u k a r -
Italian	l i n g w a	b e r e		m a n d a r e
PortugueseBrazi	I I - g w e	р е р - е в -	k o m e	$ \mathbf{m} \mathbf{\tilde{g}} - \mathbf{\tilde{g}} - - \mathbf{a} \mathbf{\kappa} $
Portuguese	1 î - g w e	b i β - e r -	k u m - - e r -	m e - 3 - - a r -
Catalan	1111 9 11 0	b = w - 1 = 0	K G III C I	m ə n ʒ a
Walloon	1 eu	p \omega: R -		m a n i:
Friulian	$1 \stackrel{\epsilon}{\epsilon} n g - \epsilon$	b e v i		m a n f - a:
Romanian	l i m b - ə	b ea		m i n k a
	ToBite	ToBite-Morsicare	ToSuck	ToSpit
Latin	m - o r d e: r e	m o r s i k a: r e	s u: g e r e	k o n s p u e r e
French	ш - о в q - в -	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	s y s e	k 5 - s p y e
Spanish	m - o r ð e r -	m o - s - k a r -		1 1 11 15
Italian	m - o r d e r e	m o r s i k a r e		
PortugueseBrazi		$ \mathbf{m} \mathbf{u} - \mathbf{s} \mathbf{\vartheta} \mathbf{g} \mathbf{a} - \mathbf{s} $	s u g a B	$ \mathbf{k} \mathbf{u} - \mathbf{s} \mathbf{p} \mathbf{i} \mathbf{g} - \mathbf{s} $
Portuguese	$ \mathbf{m} - \mathbf{u} \mathbf{r} \mathbf{\delta} \mathbf{e} \mathbf{r} -$	m u - s ə g a r -	s u g a r -	k u - f p i r - -
Catalan	1 1 3 1 5 1 5 1 5 1 5 1	m u - s ə y a		J F
Walloon		1 1 1 1 1 1	s y s i:	
Friulian	mwardi-		c u c a:	
Romanian	1 44 - 44 -	m u r s e k a	s u dz e	
		0 0 2 2 4	5	

	ToSpit-Exconspuere	ToSpit-Sputare	ToKnow	ToKnow-Sapere
Latin	Propir Execuspation	- s p u t e r e	s k i: r e	s a p - e r e
French				s a v w a r
Spanish	e s k u - p i r	e s p u t a r -		sab-er-
Italian	1	- s p u t a r e		s a p - e r e
PortugueseBrazi				s a b - е в -
Portuguese				s e b - e r -
Catalan	$ \mathbf{a} \mathbf{s} \mathbf{k} \mathbf{u} - \mathbf{p} \mathbf{i} -$			s ə β - ε
Walloon				s a v - ø: R -
Friulian		s p u d a:		s a v - ei
Romanian	- s k u j p a -		$\int \mathbf{t} \mathbf{i} $ – $ $ –	
	ToKnow-Cognoscere	ToThink	ToThink-Pensare	ToFear
Latin	k o g n o: s k e r e	k - o: g i t a: r e	p e: n s a: r e	t i m e: r e
French	$ \mathbf{k} \mathfrak{d} - \mathbf{n} \mathfrak{e} - \mathbf{t} \mathfrak{u} - \mathbf{n} $	k q - - i d e - -	p a - s e - -	
Spanish	$ \mathbf{k} \mathbf{o} - \mathbf{n} \mathbf{o} \mathbf{\theta} \mathbf{e} \mathbf{r} - \mathbf{r} $	k w - - i d a r -	pensar	t e m e r -
Italian	$ \mathbf{k} \mathbf{o} - \mathbf{n} \mathbf{o} \int \mathbf{f} \mathbf{e} \mathbf{r} \mathbf{e} $	k - o dz i t a r e	p e n s a r e	t e m e r e
PortugueseBrazi	$ \mathbf{k} \mathbf{o} $ - $ \mathbf{n} \mathbf{e} \mathbf{s} $ - $ \mathbf{e} \mathbf{k} $ -	$ \mathbf{k} - \mathbf{u} \mathbf{z} \mathbf{i} \mathbf{t} \mathbf{a} \mathbf{s} $ -	p e - s a r -	t e m e r -
Portuguese	k u - n i s - e r -	k - u 3 i t a r -	p e - s a r -	t i m e r -
Catalan	$ \mathbf{k} \mathbf{u} - \mathbf{n} \mathbf{\epsilon} \mathbf{f} - \mathbf{a} - \mathbf{f} $	k - u - j d a - -	p ə n s a	t e m ə - -
Walloon	k i - n o h		$p \mid \tilde{\epsilon} \mid - \mid s \mid e \mid - \mid - \mid$	
Friulian	k o - n o s - i		p e n s a:	t e m i
Romanian	k u - n oa ∫ t e	k - u dz e t a	p ə - s a - -	t e m e
	ToFear-Tremere	ToSleep	ToLive	ToDie
Latin				
	t r e m - e r e	d - o r m i: r e	w i: w e r e	
French	k к е - q - к -	d - 2 R m i R -	v i v - B -	m u s i s -
French Spanish	k в ё - d - в г -	d - o t m i t -	v i v - r - b i b i r -	m o r i r -
French Spanish Italian	k	d - o r m i r - d - o r m i r e	v i v - в - v i v e r e	m o r i r e
French Spanish	k	d - o t m i t -	v i v - r - b i b i r -	m o r i r -
French Spanish Italian PortugueseBrazi	k k e d e r e t r e m - e r e t r e r - e r - t r e r - e r -	q - o R m i R - q - o L m i L e q - o L m i L e q - o R m i R -	v i v e r e v i v e r e v i v e r e	m o r i r e m o r i r e
French Spanish Italian PortugueseBrazi Portuguese	k	d - o r m i r - d - o r m i r e d - o r m i r e d - o r m i r e	v i v - в - b i b i r - v i v e r e v i v e r -	m o r i r e m o r i r e
French Spanish Italian PortugueseBrazi Portuguese Catalan	k k e d e r e t r e m - e r e t r e r - e r - t r e r - e r -	d - u r m i r e d - o r m i r e d - o r m i r e d - o r m i r e	v i v e r e v i v e r e v i v e r e	m o r i r e m o r i r e m o r i r -
French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon		d - n r u i - - d - o r m i r - d - o r m i r - d - o r m i r - d - o r m i r - d - o r m i r - d - o r m i r - - d - o r m i r -	v i v e r e v i v e r e v i v e r e v i v e r e v i v e r e v i v e r e b i w e r e	m o k i - m o k e k - m o k i r e m o k e k -
French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian	k k e d e r e t r e m - e r e t r e r - e r - t r e r - e r -	d - u r m i r - d w a m i m i r - d w a m i m i r - d w a m i m i m i m i m i m i m i m i m i m	V i V c B -	m o r i r e m o r i r e m o r i r - m u r i - m u r i - m u r i -
French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian	k g - d -	d - o r m i r - d - o r m i r - d - u r m i - d - u r m i - d - u r m i - d - u r m i - d - u r m i -	v i v - b - c - c	m o r i r e m o r i r e m o r i - m u r i - m u r i - m u r i - m u r i - m u r i -
French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian	k g - d - s - t r e m - e r - t r e m - e r - t r i m - e r - t r i m - e r -	d - u r m i r - d w a m i m i r - d w a m i m i r - d w a m i m i m i m i m i m i m i m i m i m	V i V c B -	m o r i r e m o r i r e m o r i - m u r i - m u r i - m u r i - m u r i - ToKill-Mactare
French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin	k g - d - s - t r e m - e r - t r e m - e r - t r i m - e r - t r i m - e r -	d - o r m i r - d - o r m i r - d - u r m i - d - u r m i - d - u r m i - d - u r m i - d - u r m i -	V i V C B C C C C C C C C	m o r i r e m o r i r e m o r i - e m o r i - e m u r i m u r i m u r i m u r i Tokill-Mactare m a k t a: r e
French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French	k g - d - s - t r e m - e r - t r e m - e r - t r i m - e r - t r i m - e r -	d - o r m i r e d - o r m i r e d - o r m i r e d - o r m i r - d - u r m i r - d w a r m i d - u r m i r - ToKill-Adnecare	V i V c B -	m o r i r e m o r i r e m o r i r e m o r i r e m o r i r e m u r i - m u r i - m u r i - Tokill-Mactare m a k t a: r e m a - t e -
French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish	k g - d - s - t r e m - e r - t r e m - e r - t r i m - e r - t r i m - e r -	d - o r m i r - d - o r m i r e d - o r m i r e d - o r m i r - d - u r m i r - d - u r m i d - u r m i d - u r m i ToKill-Adnecare	V i V C B C C C C C C C C	m o r i r e m o r i r e m o r i - e m o r i - e m u r i m u r i m u r i m u r i Tokill-Mactare m a k t a: r e
French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian	k g - d - s - t r e m - e r - t r e m - e r - t r i m - e r - t r i m - e r - t r i m - - - -	d - o r m i r e d - o r m i r e d - o r m i r e d - o r m i r - d - u r m i r - d w a r m i d - u r m i r - ToKill-Adnecare	V i V C B C C C C C C C C	m o r i r e m o r i r e m o r i r e m o r i r e m o r i r e m u r i - m u r i - m u r i - m u r i - Tokill-Mactare m a k t a: r e m a - t e - m a - t a r -
French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish	k g - d - s - t r e m - e r - t r e m - e r - t r i m - e r - t r i m - e r - t r i m - - - -	d - o r m i r - d - o r m i r e d - o r m i r e d - o r m i r - d - u r m i r - d - u r m i d - u r m i d - u r m i ToKill-Adnecare	V i V C B C C C C C C C C	m o r i r e m o r i r e m o r i r e m o r i r e m o r i r e m u r i - m u r i - m u r i - Tokill-Mactare m a k t a: r e m a - t e -
French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian	k g - d - s - t r e m - e r - t r e m - e r - t r i m - e r - t r i m - e r - t r i m - - - -	d - o r m i r - d - o r m i r e d - o r m i r e d - o r m i r - d - u r m i r - d - u r m i d - u r m i d - u r m i ToKill-Adnecare	V i V C B C C C C C C C C	m o r i r e m o r i r e m o r i r e m o r i r e m o r i r e m u r i - m u r i - m u r i - m u r i - Tokill-Mactare m a k t a: r e m a - t e - m a - t a r -
French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi	k g - d - s -	d - o r m i r - d - o r m i r e d - o r m i r e d - o r m i r - d - u r m i r - d - u r m i d - u r m i d - u r m i ToKill-Adnecare	V i V C B C C C C C C C C	m o r i r e m o r i r e m o r i r e m o r i r e m o r i r e m u r i m u r i m u r i m u r i m u r i m u r i m u r i m u r i m u r i m u r i m u r i m u r i m u r i m u r i m u r i m u r i m u r i m u r i
French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi Portuguese	k g - d - s -	d - o r m i r - d - o r m i r e d - o r m i r e d - o r m i r - d - u r m i r - d - u r m i d - u r m i d - u r m i ToKill-Adnecare	V i V C K C C C C C C C C	m o r i r e m o r i r e m o r i r e m o r i r e m o r i r e m u r i -
French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi Portuguese Catalan	k g - d - s -	d - o r m i r - d - o r m i r e d - o r m i r e d - o r m i r - d - u r m i r - d - u r m i d - u r m i d - u r m i ToKill-Adnecare	V i V C B C C C C C C C C	m o r i r e m o r i r e m o r i r e m o r i r e m o r i r e m u r i m u r i m u r i m u r i m u r i m u r i m u r i m u r i m u r i m u r i m u r i m u r i m u r i m u r i m u r i m u r i m u r i m u r i
French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazi Portuguese Catalan Walloon	k g - d - s -	d - o r m i r - d - o r m i r e d - o r m i r e d - o r m i r - d - u r m i r - d - u r m i d - u r m i d - u r m i ToKill-Adnecare	V i V C K C C C C C C C C	m o r i r e m o r i r e m o r i r e m o r i r e m o r i r e m u r i m u r i m u r i m u r i m u r i m u r i m u r i m u r i m u r i m u r i m u r i m u r i m u r i m u r i m u r i m u r i m a r i a r e m a - t e m a - t a r - m a - t a r -

	ToKill-Occidere	ToFight	ToFight-Battuere	ToHunt-Captiare
Latin	o k k i: d e r e	p u g n a: r e	battuere	k a p t i a: r e
French	э k s i в -		b a t в	$\int \mathbf{a} ^{1} - \mathbf{s} - \mathbf{e} - \mathbf{e} $
Spanish		p u - n a r -	ba-t-ir-	$\begin{vmatrix} \mathbf{k} & \mathbf{a} & - & \mathbf{\theta} & - & \mathbf{a} & \mathbf{r} \end{vmatrix}$
Italian	$ \mathbf{u} \mathbf{t} \mathbf{f} \mathbf{i} \mathbf{d} \mathbf{e} \mathbf{r} \mathbf{e}$	p u n n a r e	b a t t - e r e	k a t tf - a r e
PortugueseBraz			рагтеве	k a - s - a r -
rortuguesebraz			b a - t - C в -	K a - S - a B -
Portuguese			b e - t - e r -	k e - s - a r -
Catalan	u k s i - - - -	p u - n a - -	ba-t-rə	k ə - s - a
Walloon	u K S I - - - -	$ \mathbf{p} \mathbf{u} = \mathbf{j} \mathbf{a} = \mathbf{j} $	b a t - e	$ \text{tf} \epsilon - s - i: - - $
Friulian			b a t - i	
Romanian	u - tf i d e - -			$ \mathbf{c} \mathbf{a} - \mathbf{tf} - \mathbf{a} - \mathbf{c} $
Nomanian		ToCut		TaCut Evanutara
Latin	ToHit		ToCut-Curtare	ToCut-Excurtare
	p u l s a: r e		k u r t a: r e	e k s k u r t a: r e
French	p u - s e	s j e - - -	1	e - - k u в t e - -
Spanish	p u - x a r -	s - e g a r -	$ \mathbf{k} \mathbf{o} \mathbf{r} \mathbf{t} \mathbf{a} \mathbf{r} $	
Italian	p u l s a r e	s - e g a r e		- - s k o r t a r e
PortugueseBraz		s - e g a r -	k o r t a r -	
Dortuguese			1, 1, 1 , 1 , 1 , 1	
Portuguese	$p u - \int a f $	$ \mathbf{s} - \mathbf{i} \mathbf{\gamma} \mathbf{a} \mathbf{r} $	k u r t a r -	
Catalan		$ s - \vartheta \gamma a - -$		
Walloon				
Friulian	p u 1 s a:	s - e - a:		- - s k u r t a: - -
Romanian	p u 1 s a			- - s k u r t a - -
1 1	ToCut-Taliare	ToSplit	ToSplit-Scindere	ToSplit-Findere
Latin	t a: - l i a: r e	d i: w i d e r e	s k i n d e r e	f i n d e r e
French	t a j - - e - -		$ s - \tilde{\epsilon} - d e - -$	$ \mathbf{f} \mathbf{g} - \mathbf{q} - \mathbf{R} -$
Spanish	t a - x - a r -	d i b i d i r -		- e n d e r -
Italian	t a - A A a r e	d i v i d e r e	$\int \left - \right i \left n \right d \left e \right r \left e \right $	$f \mid \epsilon \mid n \mid d \mid e \mid r \mid e$
PortugueseBraz	t a - K - a B -	ф i л i ф i в -		$\left \mathbf{f} \left \mathbf{\tilde{e}} \right - \left \mathbf{d} \right \mathbf{e} \right $ в $\right $ –
Portuguese	t e - A - a r -	d i v i ð i r -		$ \mathbf{f} \mathbf{\tilde{e}} - \mathbf{d} \mathbf{e} \mathbf{r} - \mathbf{r} $
Catalan	t ə - A - a - -	d i b i d i - -		$f \mid \varepsilon \mid n \mid d \mid - \mid r \mid \vartheta$
Walloon	t ε - - j i: - -			$\left \mathbf{f} \left \mathbf{ ilde{\epsilon}} \right - \left \mathbf{t} \left - \right - \right - \right $
Friulian	t a j a:	d i v i d i		
Romanian	t ə - - j a - -	d i v i d e - -		
	ToSplit-Partire	ToSplit-Separare	ToStab	ToStab-lugulare
Latin	p a r t i: r e	s e: p a r a: r e -	p - u n g e r e	j u g u l a: r e
French	b a r t i r -	s ə - v x e	$ \mathbf{b} \mathbf{m} \mathbf{\hat{\epsilon}} $ - $ \mathbf{q} $ - $ \mathbf{r} $ -	3 y g y 1 e - -
Spanish	partir-	s e p a r a r		
Italian	p a r t i r e	s e p a r a r e -	p - u n dz e r e	j u g u 1 a: r e
PortugueseBraz		separas	р - й - з і в -	
	b a R ft i R -	з с рапав	1 3	
Portuguese		$\begin{vmatrix} \mathbf{s} & \mathbf{i} & \mathbf{p} & \mathbf{k} \end{vmatrix} = \begin{vmatrix} \mathbf{s} & \mathbf{i} & \mathbf{k} \end{vmatrix} = \begin{vmatrix} \mathbf{i} & \mathbf{k} & \mathbf{k} \end{vmatrix}$		
Portuguese	p g f i f -	s i p e r a r - -	p - ũ - ʒ i r -	
Portuguese Catalan	p p r t i r - p ə r t i -	s i p e r a r - -	p - ũ - ʒ i r -	

	ToScratch	ToScratch-Rasare	ToScratch-Rasicare	ToScratch-Coctiare
Latin	r a: d e r e	. o o o i o i o i o i o i o i o i o i o		rocordion Coolidae
French	- - - - - - - - - -	в а z е		
Spanish	r a - e r -	r a s a r -	r a s k a r	
Italian	r a d e r e	r a s a r e		
PortugueseBrazi		ва zав -	ва ј ка в	k o s a l
. ortagacoobrazi			D U J I U D	
Portuguese	R B - 6 U -	R B Z a L -	в в ј к а г	k u s a r
Catalan	r a w - r ə	r ə z a	rəska-	
Walloon	1 4 1 0	1 0 2 4		
Friulian	r a d a:	r a s a:		
Romanian	r a d e			
	ToDig	ToDig-Cavare	ToDig-Excavare	ToSwim
Latin	f o d e r e	k a w a: r e	e k s k a w a: r e	n - a t a: r e
French	fwir		0 0 0 1 1 0 - 0	
Spanish		kabar-	e s k a b a r	n - a d a r -
Italian		k a v a r e	- skavare	n w o t a r e
PortugueseBrazi		к в м а в -	i - f kevar -	n - a d a в -
			J - - - -	1 1 1 1 1
Portuguese		k e v a r -	i - f k e v a r -	n - e ð a r -
Catalan		k ə b a	1 13 1 1 1 1 1	n - ə d a
Walloon		ç a: v - 1 e		
Friulian		Java:	- - z J a v a: - -	n - a d a: - -
Romanian		3 12 1 12 1	1 1 1 1 3 1 3 1 3 1 3 1	1 1 1 2 1 2 1 2 1 1
	ToSwim-Navigare	ToFly	ToFly-Exvolare	ToWalk
Latin	n a v i g a: r e	w o l a: r e		
French	n a 3 e	v o l e		$\left \int \left \mathfrak{d} \right m \right i \left n \right e \left - \right - \left - \right $
Spanish	n a b e g a r -	b o 1 a r -		k a m i n a r
Italian	n a v i g a r e	v o l a r e	z v o l a r e	k a m m i n a r e
PortugueseBrazi	$ \mathbf{n} \mathbf{a} \mathbf{v} \mathbf{i} \mathbf{y} \mathbf{a} \mathbf{E} $ -	v o - a ʁ -		k e m i n a в - -
Portuguese	n e v i y a r -	v w - a r -		k e m i n a r
Catalan	n ə b ə g a	b u 1 a		k ə m i n a - - -
Walloon	$ \mathbf{n} \mathbf{\epsilon} - \mathbf{d}\mathbf{g} \mathbf{i}\mathbf{r} - \mathbf{g} $	v o l e - -		tf i m i n e - - -
Friulian	n a v i g a:		z v o 1 a:	c a m i n a: - - -
Romanian	n a v i g a		z b u r a	
	ToWalk-Marcher	ToWalk-Mergere	ToWalk-Ambitare	ToCome
Latin				
		$ \mathbf{m} \mathbf{e} \mathbf{r} \mathbf{g} \mathbf{e} \mathbf{r} \mathbf{e} $	a m b i t a: r e	w e n i: r e
French	$ \mathbf{m} \mathbf{a} \mathbf{g} \mathbf{g}$	$ \mathbf{m} \mathbf{e} \mathbf{r} \mathbf{g} \mathbf{e} \mathbf{r} \mathbf{e}$		v ə n i в -
Spanish	$ \mathbf{m} \mathbf{a} \mathbf{g} \mathbf{g} \mathbf{g} $		a n d - - a r -	v ə n i в - b e n i r -
Spanish Italian		$ \mathbf{m} \mathbf{e} \mathbf{r} \mathbf{g} \mathbf{e} \mathbf{r} \mathbf{e}$ $ \mathbf{m} \mathbf{\epsilon} \mathbf{r} \mathbf{d} \mathbf{e} \mathbf{r} \mathbf{e}$	a n d a r e	v ə n i в - v e n i r e
Spanish			a n d - - a r -	v ə n i в - b e n i r -
Spanish Italian PortugueseBrazi			а n d а r е е e e e e e e e e e e e e e e e e e e e	p e u i t e n i t e e r e n i i r e r
Spanish Italian PortugueseBrazi Portuguese			a n d a r e	A -
Spanish Italian PortugueseBrazi Portuguese Catalan			а n d а r е е e e e e e e e e e e e e e e e e e e e	v - i r - v e n i r e v e n i r e v - - i r e v - - i r e v - - i r e v - - i r e
Spanish Italian PortugueseBrazi Portuguese Catalan Walloon			а n d а r е е e e e e e e e e e e e e e e e e e e e	v i
Spanish Italian PortugueseBrazi Portuguese Catalan			а n d а r е е e e e e e e e e e e e e e e e e e e e	v - i r - v e n i r e v e n i r e v - - i r e v - - i r e v - - i r e v - - i r e

	ToLieAsInABed	ToLieAsInABed-lacere	ToSit	ToSit-Sedentare
Latin	e k s t e n d e r e	j a - k e: r e	s - e d e: r e	s e d e n t a: r e
French	$ \mathbf{e} $ - $ \mathbf{t} $ $ \mathbf{\tilde{a}} $ - $ \mathbf{d} $ - $ \mathbf{r} $ - $ \mathbf{r} $	3 e - z i B -	s w a в -	
	e k s t e n d e r -	j a - θ e r -	s - e - r - r	
Italian	$ e - s t \epsilon n d e r e$	dg a - tf e: r e	s - e d e r e	
PortugueseBrazi	$ \mathbf{i} \mathbf{s} \mathbf{t} \mathbf{\tilde{e}} - \mathbf{d} \mathbf{e} \mathbf{g} - -$	3 s - z e r -	8 - 6 8 -	
Dortuguese	: r + * . - - - - - - - - - - - -		s - e r -	
Portuguese Catalan	i f t e - d e r	3 g - z e r -	8 - e - - r -	s e tar-
Walloon	$\begin{vmatrix} \mathbf{a} \end{vmatrix} - \begin{vmatrix} \mathbf{s} \end{vmatrix} \mathbf{t} \begin{vmatrix} \mathbf{e} \end{vmatrix} \mathbf{n} \begin{vmatrix} \mathbf{d} \end{vmatrix} - \begin{vmatrix} \mathbf{r} \end{vmatrix} \mathbf{a}$	3 a w r ə d ə d e r e -		
Friulian		j e - s i		s e - - n t a: - -
Romanian	e k s t i n d e - -	z ə - tf ea	∫ - e d ea - -	S C - I t d. - I
rtomaman	ToStand	ToStand-Levare	ToStand-Altiare	ToTurnIntransitive
Latin	- s t a: r e	l e v a: r e	- a l t i a: r e	t o r n a: r e
French	ε - t - r -	1 ə v e	- o - s - e	t u r n e
	e s t a r	jebar-	$- \begin{vmatrix} a & 1 & \theta \\ a & 1 \end{vmatrix} - \begin{vmatrix} a & r \\ a & r \end{vmatrix} -$	tornar-
Italian	- s t a r e	l e v a r e	- altsare-	t o r n a r e
PortugueseBrazi		levar-	- a 1 s - a	t о в и а в -
3				
Portuguese	$ \mathbf{i} \int \mathbf{t} \mathbf{a} \mathbf{r} $	1 i v a r -	- a 1 s - a r -	t u r n a r -
Catalan	ə s t a	Λ ə b a	- ə 1 s - a - -	t u r n a
Walloon	ε s	l ə v e	h 5: - s - i: - -	t u: r n e
Friulian	- s t a:	1 e v a:	- a l t f - a: -	t o r n a:
Romanian	- s t a - -			t u r n a - -
	ToTurnIntransitive-Gyrare	ToTurnIntransitive-Ancest	r:ToTurnIntransitive-Torque	
Latin	g y r a: r e		t o r k ^w e: r e	k - a d e r e
French	3 i k e	v i k e	t 2 R q - R -	
Spanish	x i r a r -	b i r a r -	t o r θ e r -	
Italian	dg i r a r e	v i r a r e	t o r tf e r e	k - a d e r e
PortugueseBrazi	3 i r a r -	v i r a r -	t u r s e r -	
Portuguese	3 i r a r -	3 i r a r -	t u r s e r -	k - e - i r -
Catalan	3 i r a	b i r a	t a r s a	k - a w - r ə
Walloon	3 1 1 4	v i k e	τ 3 1 3 θ	tf - E: R -
Friulian	dg i r a:	dy i r a:		tf j a d e
Romanian	[49] 1 1 tar-		t oar tfe	k ə d ea
	ToFall-Tumbare	ToHold	ToHold-Segurar	ToSqueeze
Latin		t e n - e: r e	· · · · · · · · · · · · · · · · · · ·	e k s p r i m - e r e
French	t õ - b e -	t ə n - i в -		e - - p r \tilde{\varepsilon} - q - r -
Spanish	t u m b a r	t e n - e r -	s e g u r a r	eksprem-ir-
Italian		t e n - e r e		- - s p r ε m - e r e
PortugueseBrazi	t o - b a r	t e - - - r -	s i d n t a R	i - \(\begin{array}{ c c c c c c c c c c c c c c c c c c c
Portuguese	t õ - b a r	t e - - r -	s i y u r a r	i - f p r ə m - e r -
Catalan	t u m b a	t ə n - i	- 0 8 00 - 00 2	$\begin{vmatrix} \mathbf{a} & \mathbf{b} & \mathbf{c} & \mathbf{c} & \mathbf{c} \\ \mathbf{a} & \mathbf{c} & \mathbf{c} & \mathbf{c} \\ \mathbf{c} & \mathbf{c} & \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} & \mathbf{c} \\ \mathbf{c} & \mathbf{c} & \mathbf{c} \\ \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} & \mathbf{c} \\ \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} \\ \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} \\ \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} \\ \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} \\ \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} \\ \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} \mathbf{c} & \mathbf{c} \\ \mathbf{c} & \mathbf{c} \end{vmatrix} = \begin{vmatrix} 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Walloon	t u m - e -	t i n - i		- - - - - - -
Friulian		t i n j i		e - s p r i m - i - -
Romanian		ts i n - e		- s k - r e m e

	ToSqueeze-Serrere	ToSqueeze-Serare	ToSqueeze-Appectorare	ToSqueeze-Stringere
Latin	s e r r e r e	s e - r a r e	a p p e k t o r a: r e	- s t r i n g e r e
French		s e - R e - -		$\begin{bmatrix} \mathbf{e} & - & \mathbf{f} & \mathbf{R} & \mathbf{\tilde{g}} & - & \mathbf{q} & - & \mathbf{R} & - \\ \mathbf{g} & \mathbf{f} & \mathbf{I} & \mathbf{I} & \mathbf{R} & \mathbf{G} & \mathbf{f} & \mathbf{G} \end{bmatrix}$
Spanish	s e - r a r -	θ e - r a r -	a - p - - r e t a r -	e s t r e n - i r -
Italian		s e r r a r e	· · · · · · · · · · · · · · · · · · ·	- s t r i n dz e r e
PortugueseBrazi	s e -	s і - каг -	e - p i - r - t a r -	$\partial \int \mathbf{r} \cdot r$
Portuguese	$ \mathbf{s} \mathbf{a} - \mathbf{R} \mathbf{a} \mathbf{f} -$	s i - R a v -	$ \mathbf{e} - \mathbf{p} \mathbf{i} - \mathbf{r} - \mathbf{t} \mathbf{a} \mathbf{r} - \mathbf{e} $	$\left \begin{array}{c c c c c c c c c c c c c c c c c c c $
Catalan	s a - r a - a			$\begin{vmatrix} \mathbf{a} & \mathbf{s} & \mathbf{t} & \mathbf{r} & \mathbf{\epsilon} & \mathbf{n} & \mathbf{a} \end{vmatrix} = \begin{vmatrix} \mathbf{a} & \mathbf{s} & \mathbf{r} & \mathbf{s} \end{vmatrix}$
Walloon		$ s \epsilon - R e - -$		s t r i n g e
Friulian				s t r ε n g i:
Romanian				s t r i n d e
	ToRub	ToRub-Exfricare	ToRub-Frictare	ToRub-Frictiare
Latin	f r i k a: r e		f r i k t a: r e	
French	f κ εj e		f & o t e	
Spanish Italian	fregar-		frotar- frettare	f r i s a r
PortugueseBrazi	f r e g a r e	$ \mathbf{i} \int \mathbf{f} \mathbf{r} \mathbf{i} g \mathbf{a} \mathbf{r}$	r e t t a r e	
Fortuguesebrazi		$ \mathbf{f} \mathbf{J} \mathbf{I} \mathbf{I} \mathbf{I} \mathbf{g} \mathbf{a} \mathbf{I}$		
Portuguese		i f f i y a r		
Catalan	f r ə g a - -			f r ə s a -
Walloon	f r oj		f B O t e - - -	1-1-1-1-1-1
Friulian	f r e - a			
Romanian	f r e k a			
	ToWash	ToWipe	ToWipe-Extergere	ToWipe-Exsucare
Latin	l a w a: r e	t e r g e r e	e k s t e r g e r e	e k s - u: k - a: r e
French	1 a v e			e - s y i - j e
Spanish	l a β a r -		e - s t a r s i r -	e n x - u g - a r -
Italian	l a v a r e	$t \mid \varepsilon \mid r \mid dg \mid e \mid r \mid e$		$\begin{bmatrix} a & \int \int \int -u & g & -u & r & e \end{bmatrix}$
PortugueseBrazi	1 e v a r -			$ \tilde{e} - \int - u g - a r $
Portuguese	1 e v a r -			$ \tilde{e} - \int - u \gamma - a r -$
Catalan	К ə b a		ə - s t ə r 3 i	$\begin{vmatrix} \mathbf{a} \\ \mathbf{b} \end{vmatrix} - \begin{vmatrix} \mathbf{f} \\ \mathbf{f} \end{vmatrix} - \begin{vmatrix} \mathbf{u} \\ \mathbf{g} \end{vmatrix} \begin{vmatrix} \mathbf{g} \\ \mathbf{a} \end{vmatrix} - \begin{vmatrix} \mathbf{f} \\ \mathbf{g} \end{vmatrix} - \begin{vmatrix} \mathbf{g} \\ \mathbf{g} \end{vmatrix} = \begin{vmatrix} \mathbf{g} \\ g$
Walloon	1 a v e		- 0 0 0 2 3 1	s - u - w e
Friulian	1 a v a:			- - s - u - j a: - -
Romanian	1 a		- - f t e r dg e - -	u - s k - a
	ToWipe-Limpidare	ToPull	ToPull-Pulsare	ToPull-Trahere
Latin	l i m p i d a: r e	t i r a: r e	p u l s a: r e	t r a h e r e
French		t i в e - -	p u - s e	$ \mathbf{t} \mathbf{R} $ - $ \mathbf{e} \mathbf{R} $ -
Spanish	1 i m p j - a r -	t i r a r -	p u - x a r -	
Italian		t i r a r e	p u l s a r e	t r a r - r e
PortugueseBrazi	$ 1 \tilde{\imath} - p - - a r -$		$p u - \int a r $	t r a z e - -
Portuguese	1 î - p - - a r -	t i r a r -		t r e z e r -
Catalan	1 1 - p - - a r -		$p u - \int a f $	t r e z e r -
Walloon		t i r e	p u: s i: - - -	t 1 E W - 1 8
Friulian		t i r a:	p u l s a:	t r aj - - -
Romanian		t 1 1 a	p u l s a	t radge
i Willalliall			Parsa	t 1 a us c

	ToPush	ToThrow	ToThrow-Lanceare	ToThrow-Eruncare
Latin	i m p i n g e r e	j a k t a: r e	l a n k e a: r e	e: - r u n k a: r e
French		3 ə - t e	1 a - s - e - -	
Spanish		- e - tf a r -	1 a n θ - a r -	a - r a n k a r -
Italian	i m p i n dz e r e	dg e t t a r e	lantfare-	a r r o n t
PortugueseBrazi		3 ej t a r - -	$ 1 \tilde{e} - s - a - -$	
Portuguese		3 ej t a r - -	1 e - s - a r -	
Portuguese Catalan	ə m p ε n - ə - -	x i t a	$\Lambda = \Lambda =$	
Walloon		dg ε t e	l a n c - i:	
Friulian		1-91-01-01-01-01-01-01-01-01-01-01-01-01-01	l a n tf a:	
Romanian	i m p i n d e		, , , , , , , , , , , , , , , , , , ,	a - r u ŋ k a - -
	ToTie	ToTie-Aptare	ToSew	ToCount
Latin	l i g a: r e	a p t a r e	k o: n - s u e r e	k o m p u t a r e
French	1 i - e		k u - d в -	k õ t e
Spanish	l e g a r -	a - t a r -	k o s - e r -	kon-tar-
Italian	1 e g a r e		k u tf - i r e	
PortugueseBrazi		e - t a r -		K U - - - t a f -
Portuguese		e - t a r -	k u - - z - e r -	k õ - - t a r -
Catalan	$ \Lambda i \gamma a - -$		k u z - i	k u m t a
Walloon	1 3 j i : - -		k ø: z	k 0 - - t e - -
Friulian	1 e - a:		k u z i	
Romanian	1 e g a		c oa s - e	
1 - 41	ToCount-Enumerare	ToSay	ToSay-Exponere	ToSing-AncestralClass
Latin French	e: n u m e r a: r e e n u m e r e	d i k e r e	e k s p o: n e r e	$\begin{vmatrix} k & a & n & t & a \\ \int & \tilde{\alpha} & - & t & e & - & - \end{vmatrix}$
Spanish	e n u m e r a r -	d e θ i r -		kantar-
Italian	e n u m e r a r e	d i - r e	- - s p o r - r e	k a n t a r e
	e n u m e r a r -	d i z - e r		k e - t a r -
Portuguese	e n u m e r a r -	d i z - e r		k e - t a r -
Catalan	e n u m e r a - -	d i - - -		k ə n t a
Walloon Friulian		q i: - - - - -		tf a - t e
Romanian	- n u m a r a - -		- - s p u n e - -	c a n t a: - -
	ToPlay-Ludere	ToPlay-Jiocare	ToFloat	ToFloat-Fluitare
Latin	1 u: d e r e	j o - k a: r e	f l u: k t u a: r e	f l u i t a: r e
French		3 - w - e	f l y k t y e	
Spanish	1 u d i r -	xu-gar-	f l u g t w a r	
Italian		dg o - k a r e	f l u t t u a r e	f 1 u i t a r e
PortugueseBrazi		3 o - g a r -	f 1 u - t u a в -	
Portuguese		$ \mathbf{z} \mathbf{u} - \mathbf{y} \mathbf{a} \mathbf{r} $	f 1 u - t u a r -	
Catalan		$\begin{vmatrix} 3 & u & y & a & 1 \\ 3 & u & - & g & a & - & - \end{vmatrix}$	f l u k t u a	
Walloon		dy u w - e	1 1 2 2 2 2 4 2 4 2 4	
Friulian		d u j - a:		
Romanian		3 u - k a	f 1 u c t u a - -	

	ToFlow	ToFlow-Colare	ToFlow-Excurrere	ToFlow-Currere
Latin French Spanish Italian PortugueseBrazi	f l u e r e f l y e - - f l u i r e f l w i s -	k o: l a: r e k u l e - - k o l a r e k o - a r e k o - a r e	e k s k u r r e r e e e e e	k 0 r e r e r k 0 r e r e k 0 r e r e r r e r e e
Portuguese Catalan Walloon	$ \begin{vmatrix} \mathbf{f} & \mathbf{l} & \mathbf{w} & \mathbf{i} & \mathbf{f} \\ \mathbf{f} & \mathbf{l} & \mathbf{u} & \mathbf{i} & - \end{vmatrix} - $	$ \begin{vmatrix} k & u & - & a & r & - \\ k & u & t & a & - & - \\ k & o & l & e & - & - \\ \end{vmatrix} $	$ \begin{vmatrix} \mathbf{i} & - & \mathbf{j} & \mathbf{k} & \mathbf{u} & - & \mathbf{k} & \mathbf{e} & \mathbf{r} \\ \mathbf{a} & - & \mathbf{s} & \mathbf{k} & \mathbf{o} & - & \mathbf{r} & \mathbf{a} & - & - \end{vmatrix} $	
Friulian Romanian			s k o - r i: s k u r dz e	ko-ri
	ToFreeze	ToFreeze-Glaciare	ToFreeze-Inglaciare	ToBurn-Brojan
Latin French Spanish Italian PortugueseBrazi	g e l a: r e g o l e e l a r - dg e l a r e	$ \begin{vmatrix} g & 1 & a & - & k & i & a : r & e \\ g & 1 & a & - & s & - & e & - & - \end{vmatrix} $ $ g & j & a & t & t & j & a & r & e $	i n g 1 a k i a: r e	b s y 1 e - - b r u t a r e
Portuguese Catalan Walloon Friulian Romanian	3 i 1 a r - 3 a 1 a - d a 1 e -	g 1 ə - s - a - - - g 1 a - tf - a: - -	i n g - e ts - a - -	b r u: 1 e - - - - - - - - -
	ToBurn-Cremare	ToBurn-Flammare	ToBurn-Ardere	ToBurn-Flagrare
Latin French Spanish Italian PortugueseBrazi	k r e m a r e k s a m e - - k e e m a r e k r e m a r e k r e m a r e	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	a r d e r e a r d e r e a r d e r -	f l a g k a r e f l a g r a r e f l a g r a r e
Portuguese Catalan Walloon Friulian Romanian	$ \begin{vmatrix} k & - & ej & m & a & b & e \\ k & r & a & m & a & - & - \end{vmatrix} $	f 1 a m a - - -	e r d e r -	f 1 a g r a r
	ToBurn-Incendere	ToBurn-AncestralClass8	All	All-Totus
Latin French Spanish	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	u s t u l a: r e	o m n e: s	t o: - t u s t u t o - d o -
Italian PortugueseBrazi Portuguese	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \mathbf{u} \mathbf{s} \mathbf{t} \mathbf{o} \mathbf{l} \mathbf{a} \mathbf{r} \mathbf{e}$	o n n i -	t u t t o - t o - d u -
Catalan Walloon Friulian				t o - b u - t o - t t o d u - t
Romanian	i n t i n d 3 e	u s t u r a - -		t o - t

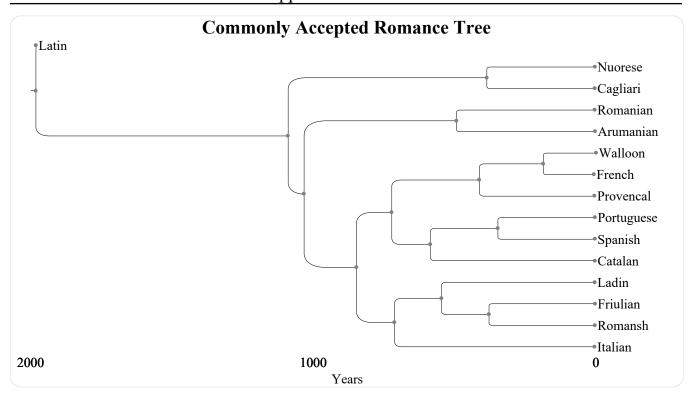
	Many	Many-Tantus	Some	Few
Latin	m u l t u s	t a n t u s		pauk u s
French	m u		o - k œ - -	$ \mathbf{p} \mathbf{w} - \mathbf{p} $
Spanish	mu - tf o -	t a n t o -	a l g u n o	poko-
	m o l t o -	t a n t o -	a l k u n o	p 3 k 0 -
PortugueseBrazi		$ t \tilde{e} - t u -$	$a \mathbf{w} g \mathbf{\tilde{u}} - \mathbf{v} $	p o w k u
Portuguese Catalan	$ \begin{vmatrix} m & \tilde{u} & \tilde{j} & - & t & u \\ m & o & 1 & - & - & - \end{vmatrix} $	$ \begin{vmatrix} t & \tilde{e} \\ t & a \end{vmatrix} - \begin{vmatrix} t & u \\ t & - \end{vmatrix} - \begin{vmatrix} t & -1 \\ -1 & -1 \end{vmatrix} - \begin{vmatrix} t & -1 \\ -1 & -1 \end{vmatrix} - \begin{vmatrix} t & -1 \\ -1 & -1 \end{vmatrix} $	$\begin{vmatrix} a & 1 & g & \tilde{u} \\ a & 1 & g & u \end{vmatrix} - \begin{vmatrix} - & - & - \\ - & - & - \end{vmatrix}$	$ \begin{vmatrix} p & o & w & k & u \\ p & o & k & - & - \end{vmatrix} $
Walloon Friulian	m o 1 c	t a n c		p o - - - -
Romanian	m u 1 t			
	Other	Other-Alius	Big	Big-Grandem
Latin	a 1 t e r -	a l i u s	m a g n u m	g r a n d e m
French	o - t - r -			g r g
Spanish	$ \mathbf{o} - \mathbf{t} - \mathbf{f} \mathbf{o}$		m a - n o -	g r a n d e -
Italian	a l t - r o		$m \mid a \mid p \mid p \mid o \mid$ -	g r a n d e -
PortugueseBrazi	o w t - r u	$ \mathbf{a} \mathbf{w} $ - $ - - $		$ g r \tilde{e} - dg i -$
Portuguese	o w t - $ f u$	a 1 - - -		$ g r \tilde{e}- d \dot{e}$
Catalan	a 1 t - r ə			g r a n
Walloon	õ - t			g r g
Friulian	a l t - r i			g r a n t
Romanian	a 1 t			
	Big-Majjorem	Long-Longum	Long-Largum	Wide
Latin	m aj j o r e m	1 o - n g u m	l a r g u m	l a: t u m
French		1 3 - - - -	1 а в 3	1 e - - -
Spanish		1 o - n g o -	laryo-	1 a t o -
Italian		l u - n g o -	l a r g o -	1 a t o -
PortugueseBrazi		$ 1 \tilde{o} - g u - -$	1 a u g u -	1 a t u -
Portuguese		1 õ - g u - -	l a r g u -	1 a t u -
Catalan		$\Lambda \circ - \eta$	баrk	
Walloon		1 0		
Friulian		l u n k	l a r k	
Romanian	mare	1 u n g	l a r g	1 a t
	Wide-Amplum	Heavy	Heavy-Lurdus	Heavy-Pesant
Latin	a m p l u m	g r a w i s	l u r d u s	pe: sant-
French	$ \tilde{a} - \tilde{p} 1 - -$	g B a V - -	1 u в	$\begin{vmatrix} \mathbf{r} \\ \mathbf{p} \end{vmatrix} \mathbf{a} \begin{vmatrix} \mathbf{r} \\ \mathbf{a} \end{vmatrix} - \begin{vmatrix} - \\ - \end{vmatrix} - \begin{vmatrix} - \\ - \end{vmatrix}$
Spanish	a n ff - o -	g r a b e -	1 e r d o -	$\begin{vmatrix} \mathbf{p} & \mathbf{e} & \mathbf{s} & \mathbf{a} \end{vmatrix} - \begin{vmatrix} \mathbf{\delta} & \mathbf{o} \end{vmatrix}$
Italian	ampjo-	$g \mid r \mid \epsilon \mid v \mid e \mid$	1 o r d o -	p e s a n t e
PortugueseBrazi	$ \widetilde{\mathfrak{e}} - \int - u -$	$\left \begin{array}{c c} g & r & a & v & i \end{array} \right $	$1 \mid e \mid r \mid d \mid o \mid$	$ \mathbf{p} \mathbf{e} \mathbf{z} \mathbf{a} - \mathbf{d} \mathbf{u} $
Portuguese	$ \tilde{e} - \int - \mathbf{u} -$	g r a v i -	l e r d o -	$ \mathbf{p} \mathbf{i} \mathbf{z} \mathbf{a} - \mathbf{\delta} \mathbf{u}$
Catalan	a m p l ə -	g r e w	1 0 1 4 0	p ə z a - t -
Walloon	u m p 1 0	g r a v		P 0 2 4 t
Friulian		g r ϵ v i -		p e z a n t -
i iidiidii				PICIZIAIIII
Romanian		g r e w		

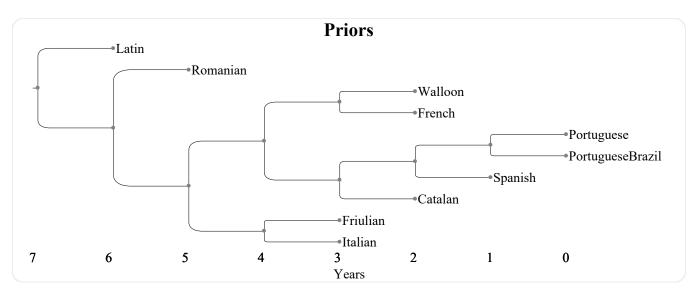
	Small	Small-Pittinus	Small-Pitulus	Short
Latin	p i t t i t u s	p i t t i n u s	p i - t u 1 u s	k u r t u s
French	p ə - t i - - -			k u r
Spanish		p e - k e n o -		k o r t o -
Italian		$p \mid i \mid t \mid f \mid i \mid n \mid o \mid -$	p i k k o l o -	k o r t o -
PortugueseBrazi		p e - k e n u -		
Portuguese		p i - k e n u -		
Catalan	p ə t i t - - -	PIIII		k u r t
Walloon	p i - t i			k u: в
Friulian			$ \mathbf{p} \mathbf{i} $ - $ \mathbf{tf} \mathbf{u} 1 $ - $ \mathbf{r} $	k u r t - -
Romanian		p u - ts i n		
	Short-Brevis	Narrow	Narrow-Strictus	Thin
Latin	b r e w i s	a n g u s t u s	- s t r - i - k t u s	m i n u: - t u s
French Spanish	p r ε p e -	a n g o s t o -	e - t w w a t o -	m ə n y m e n u - d o -
Italian	b r ε v e -	angusto-	- s t r - e - t t o -	m i n u - t o -
PortugueseBrazi			istr-ejtu-	m i - u - d u -
3			J J J J J J J J J J	
Portuguese	$ \mathbf{b} \mathbf{r} \mathbf{\epsilon} \mathbf{v} \mathbf{i} $ -		$oxed{i} \left \int \left t \right \mathbf{r} \left - \left \mathbf{e} \mathbf{j} \right - \left - \left t \right \mathbf{u} \right - \right $	m i - u - ð u -
Catalan	b r e w		ə s t r - ε t	m ə n u - t
Walloon	p R e t - -		- s t r - o:	m i n u
Friulian			- s t r - ε t	m i n u: - t
Romanian	Thin-Delicatus	ti n g u s t Thin-Subtilis	- s t r - i m - t	m ə r u n t Red-Russus
Latin	d e: l i k a: t u s	s u b t i: l e m	r u b e r -	r u s s u s
French	d u: 3 e:			в u
Spanish	d e 1 - γ a ð o -	s u - t i 1 - -		r o - x o -
Italian	d e l i k a t o -	s o t t i l e -	$ \mathbf{r} \mathbf{u} \mathbf{b} $ - $ \mathbf{r} \mathbf{o}$	r o s s o -
PortugueseBrazi	d e w - g a d u -	s u - tf i w - -		R O - \O -
Dortuguese	J a 1 a X			
Portuguese Catalan	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{vmatrix} s & u & - & tf & i & w & - & - \\ s & u & p & t & i & 1 & - & - \end{vmatrix} $		ro-s
Walloon	u θ I I K a t	s u: - t i		
Friulian		s u - t i: 1		r o - s - -
Romanian		s u b ts i r e -		r o - f u -
	Red-Vermiculus	Red-Rubeus	Green	One
Latin	v e r m i k u l u s	r u - b e u s	w i r i d e m	u: n u m
French	v ε κ m εj	к u - 3 r u - b j о -	р е ц – q е –	œ
Spanish Italian	v e r m i Λ - Λ o -	r o b b j o -	verde	u n o - u n o -
	v e r m e k u -	r u - b e o -	v e r - d i -	$\begin{bmatrix} \mathbf{u} & \mathbf{n} & 0 \\ \mathbf{\tilde{u}} & - & - \end{bmatrix}$
3				
Portuguese	v i r m ej k u -	r u - b e o -	$v \mid e \mid r \mid - \mid d \mid i \mid -$	ũ - - -
Catalan	b ə r m ε λ	r u - d e	$v \mid \epsilon \mid r \mid - \mid t \mid - \mid - \mid$	u n
Walloon		r o - tf - - -	Λ ε R	
Walloon Friulian Romanian		r oj - tf - - - - r oj - b - - - - - - - -	v ε r - t v e r - d e -	0 u n u n u -

	Two-Duos	Two-Duae	Two-Duas	Three
Latin	d u o: s	d u - aj	d u a s	t r - e: s
French	d - ø -			t k w a -
Spanish	d - o s			t r - e s
Italian		d u - e		t r - e -
PortugueseBrazi	d - oi s		d u e s	t r - e s
3	1 1 31			
Portuguese	$ \mathbf{d} - \mathbf{o}\mathbf{j} \int$		d u e s	$ \mathbf{t} \mathbf{r}-\mathbf{e} $
Catalan	d - o s		1 1 13	$ \mathbf{t} \mathbf{r} - \mathbf{\epsilon} \mathbf{s} $
Walloon	d - ø: -			t r - ø: -
Friulian	d - oj -			t r - e: -
Romanian	d - oj -	d o w ə		t r - ej -
	Four	Five	Here	There
Latin	kw - a t t w o r -	k ^w i: n k ^w - e	- e k k u m h i: k	i 1 1 a: k
	k - a - t - - в -	s e - k - -	i - - s - - i -	- - 1 a -
Spanish	k w a - t r o	$ \theta $ i $ n $ k $ - $ o	- a - k - - i -	a - j a -
Italian	k w a t t r o	tf i ŋ k w e	- - k w - - i -	- - 1 a -
PortugueseBrazi	k w a - t r u	s î - k - u	- a - k - - i -	- - 1 a -
Portuguese	$ \mathbf{k} \mathbf{w} \mathbf{a} $ - $ \mathbf{t} $ - $ \mathbf{r} \mathbf{u}$	$ s \tilde{i} - k - u $	- e - k - - i -	- - 1 a -
Catalan	k w a - t r ə	s i n k	- e - k - - i - - i - - i - -	$ \mathbf{a} - \mathbf{A} \mathbf{a} -$
Walloon	k w a - t - - - -	$ \mathbf{s} \mathbf{\tilde{e}} - \mathbf{k} - -$		- - 1 a -
Friulian	k w a - t - r i	tf i ŋ k - -	- a - k - - - i -	
Romanian	p - a - t - - r u	$ \mathfrak{t} i n \mathfrak{t} - -$		- - 1 a -
	There-Ibi	There-Adlbi	Who-Qui	Who-Quem
Latin	There-Ibi	There-Adlbi	$\mathbf{k}^{\mathbf{w}}$ - $ \mathbf{i} $ s	Who-Quem
Latin French				$ \mathbf{k}^{\mathbf{w}} $ - $ \mathbf{e} \mathbf{m} $ -
Latin French Spanish	i b i:	There-Adlbi	$egin{array}{c cccc} k^w & - & i & s \\ k & - & i & - \end{array}$	
Latin French Spanish Italian	$\begin{vmatrix} \mathbf{i} & \mathbf{b} \end{vmatrix}$ i: $\begin{vmatrix} - & \mathbf{v} \end{vmatrix}$ i	a i	$\mathbf{k}^{\mathbf{w}}$ - $ \mathbf{i} $ s	$egin{aligned} \mathbf{k}^{\mathbf{w}} - & \mathbf{e} & \mathbf{m} - \\ & \mathbf{k} & \mathbf{j} & \mathbf{e} & \mathbf{n} - \end{aligned}$
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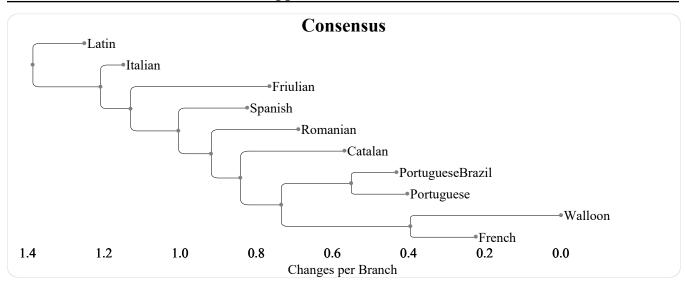
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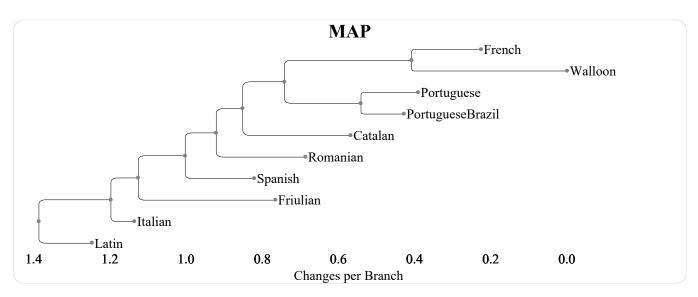
Appendix 4 - Results





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