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 **j** 6 i 2 OI 3 O 7 8 0 g 3 5 G W Э ф 11 j 13 14 **S** 15 16 17 oj Ι u 10 12 18 n d 24 fe: 26 b 20 t 22 25 m 27 uː y 19 21 23] 33 X λ 31 3 r 34 35 36 29 30 32 28 ſ œ \mathbf{g} **o**a 40 h 41 $\tilde{\mathbf{j}}$ 43 \tilde{a} 45 ej 42 $\tilde{\mathbf{e}}$ 44 iː 38 37 n 39 tſ p 51 $\tilde{\mathbf{g}}$ **i** 49 $ilde{a}$ 50 z 52 ð 53 k 54 47 48 46 εĵ θ 60 ej 61 еj 57 **p** 59 õ 55 a 56 R 58 62 63 13 ł εj 69 ea k^{w} Ø٢ 67 c 68 Ø 70 71 Ч 64 65 66 Y g^{w} $\tilde{\epsilon}$ β 80 g eu 78 aj 74 77 α 73 75 ŋ 76 79 Ŧ 81 ĩ ũ œ̃ ff. $\tilde{\mathbf{w}}$ au 82 84 85 86 87 88 C 83

Appendix 2 - Partition Assignments

Linguistic Model 1

1 Nasal Vowel

ẽj õẽ ũ ĩ ẽ ã ẽj õ ẽu ẽ ũ œ

2 Vowel

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

3 Nasal Consonant

nmŋŋĵw

4 Non Sylabic Sonorants

wjlr

5 Consonants

g ʒ j ʤ s ſ v b t d f г x ́л в h ʧ p z ð k ts R θ ų ł c k^w ү g g^w β ӈ t͡ʃ

		We	YouPlural	YouSingular
Latin	- e g o:	n or - s -	w o: - 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
PortugueseBrazil	- e - w	n o j - s	$ \mathbf{v} \mathbf{j} \mathbf{s} $	t u
Portuguese	- e - w	n o - f -	$ \mathbf{v} \mathbf{o} - \mathbf{f} $	t u
Catalan	3 3		b u - s	t u
Walloon	dz I	n o	v o - s	t y
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 - - -
Spanish	- 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	$\mathbf{m} \mid \mathbf{o} \mid \mathbf{\Lambda} \mid \mathbf{\Lambda} \mid \mathbf{e} \mid - \mid - \mid - \mid$	$ \mathbf{d} \mathbf{o} \mathbf{n} - \mathbf{n} \mathbf{a}$
PortugueseBrazil	v o s - e -	f e - m e - - e	$\mathbf{m} \mathbf{u} \mathbf{\Lambda} - \mathbf{e} \mathbf{u} - -$	d o - - n e
Portuguese	v o s - e -	f e - m j e	$m u \Lambda - e \Gamma$	d o - - n e
Catalan	v o s t e -	f e - m - b r - a	m u \lambda - e - - -	d o - - n 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	ManHumanBeing	Child
	· ·		ManHumanBeing -Secondary	
Latin	h o m i - n e m	- h o m o:	ManHumanBeing -Secondary h o m i n e	i n f a n t e m
French	h o m i - n e m - - - - - - -		ManHumanBeing -Secondary	$ \begin{vmatrix} \mathbf{i} & \mathbf{n} & \mathbf{f} & \mathbf{a} & \mathbf{n} & \mathbf{t} & \mathbf{e} & \mathbf{m} \\ \tilde{\mathbf{\alpha}} & - & \mathbf{f} & \tilde{\mathbf{\alpha}} & - & - & - & - \end{vmatrix} $
French Spanish	h o m i - n e m	- h o m o: - õ - - -	ManHumanBeing -Secondary h o m i n e	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
French Spanish Italian	h o m i - n e m - o m - b r e - -	- h o m o:	ManHumanBeing -Secondary h o m i n e	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
French Spanish Italian PortugueseBrazil	h o m i - n e m - - - - - - - - -	- h o m o: - õ - - -	ManHumanBeing -Secondary h o m i n e	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
French Spanish Italian PortugueseBrazil Portuguese	h o m i - n e m - - - - - - - - -	- h o m o: - õ - - -	ManHumanBeing -Secondary h o m i n e	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
French Spanish Italian PortugueseBrazil Portuguese Catalan	h o m i - n e m - - - - - - - - -	- h o m o: - õ - - -	ManHumanBeing -Secondary h o m i n e	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon	h o m i - n e m - - - - - - - - -	- h o m o: - õ - - -	ManHumanBeing -Secondary h o m i n e	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian	h o m i - n e m - - - - - - - - -	- h o m o: - õ - - -	ManHumanBeing -Secondary h o m i n e	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon	h o m i - n e m - - - - - - - - -	- h o m o: - õ - - - w o m o -	ManHumanBeing -Secondary h o m i n ẽ o m	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian	h o m i - n e m - - - - - - - - -	- h o m o: - ɔ̃ - - - w ɔ m o -	ManHumanBeing -Secondary h o m i n ẽ o m	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian	h o m i - n e m - - - - - - - - -	- h o m o: - s p o n s a	ManHumanBeing -Secondary h o m i n ẽ o m	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin	h o m i - n e m - - - - - - - - -	- h o m o: - 5 - - -	ManHumanBeing -Secondary homin e om	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish	h o m i - n e m - - - - - - - - -	- h o m o: - 5 - - -	ManHumanBeing -Secondary h o m i n ẽ o m Wife-Mulier m u l i e r -	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian	h o m i - n e m - - - - - - - - -	Wife - s p o n s a e - p u - z - e s p o - s a - s p o - z a	ManHumanBeing -Secondary h o m i n ẽ o m Wife-Mulier m u l i e r - m o ʎ ʎ e	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazil	h o m i - n e m - - - - - - - -	Wife S p o n s a e p o - s a r s p o - z a r s p o - z a	ManHumanBeing -Secondary h o m i n ẽ o m Wife-Mulier m u l i e r - m u x - e r - m o ʎ ʎ e - m u ʎ - e ʁ -	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazil Portuguese	h o m i - n e m - - - - - - - - -	Wife S p o n s a e - p u - z - e s p o - s a - s p o - z a i s p o - z e	ManHumanBeing -Secondary h o m i n ẽ o m Mu l i e r - m u l i e r - m u l i e r - m u l - e r - m u l - e r -	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazil Portuguese Catalan	h o m i - n e m - - - - - - - -	Wife S p o n s a e p o - s a r s p o - z a r s p o - z a	ManHumanBeing -Secondary h o m i n ẽ o m Wife-Mulier m u l i e r - m u x - e r - m o ʎ ʎ e - m u ʎ - e ʁ -	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon	h o m i - n e m - - - - - - - - -	Wife S p o n s a e - p u - z - e s p o - s a - s p o - z a i s p o - z e	ManHumanBeing -Secondary h o m i n ë o m Wife-Mulier m u l i e r - m o k k e - m u k - e s - m u k - e r - m u k - e r -	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazil Portuguese Catalan	h o m i - n e m - - - - - - - - -	Wife S p o n s a e - p u - z - e s p o - s a - s p o - z a i s p o - z e	ManHumanBeing -Secondary h o m i n ẽ o m Mu l i e r - m u l i e r - m u l i e r - m u l - e r - m u l - e r -	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

Latin French Spanish	- s p o n s u s e - p u - - - -	s o k i u s	m a: t r e m	p i s k e m
				h i g k c m
Spanish			m e - r - -	
	e s p o - s o -		m a ð r e -	p e θ - - -
Italian	- s p o - z o -	s o tf - o -	m a: d r e -	p e ∫ ∫ e -
PortugueseBrazil	$\begin{vmatrix} i & s & p & o \end{vmatrix}$ - $\begin{vmatrix} z & u \end{vmatrix}$ -		$\mathbf{m} \left \widetilde{\mathbf{e}} \widetilde{\mathbf{j}} \right - \left - \right - \left - \right $	p ej ∫ - i -
Portuguese	$ \mathbf{i} \int \mathbf{p} \mathbf{o} - \mathbf{z} \mathbf{u} -$		$ \mathbf{m} \widetilde{\mathbf{e}}\widetilde{\mathbf{j}} $ - $ $ - $ $ - $ $ -	p ej f - i -
Catalan	$ \mathbf{a} \mathbf{s} \mathbf{p} \mathbf{a} $ - $ \mathbf{s} $ - $ \mathbf{s} $		$ \mathbf{m} \mathbf{a} - \mathbf{r} \mathbf{e} $	p e ∫ - - -
Walloon			$\mathbf{m} \mid \mathbf{e} \mid - \mid \mathbf{R} \mid - \mid - \mid$	
Friulian	- s p o: - s - -		$\mathbf{m} \mathbf{v} $ - $ \mathbf{r} \mathbf{i} $ -	p ε s
Romanian		s o ts		p e ∫ t e -
	Fish-Pescion	Bird-Avem	Bird-Avicellum	Bird-Passerem
Latin		a w e m		n p a s s e r e m
	$ p w a s \tilde{o}$		w a z - o	
Spanish		a b e -		p a - x a r o -
Italian			$- - u - t t - \epsilon 1 1 o - \epsilon c c c c c c c c c$	
PortugueseBrazil		a v i -		p a - s e r u -
Portuguese		a v i -		p a - s e r u -
Catalan		a w - -	- - u - - s - e - K - -	•
	$ p - \epsilon h \tilde{o} $		- - u: - - h - e: - - - -	•
Friulian			- - u - - tf j ε - 1 - -	
Romanian				p a - s ə r e -
	Fruit	Flower	Nose	Nose-Nares
Latin	f r u: - k t u s	f l o: r e m	n a: s u s	
French	f k q i - - -	f 1 œ ʁ	n e	
Spanish	f f u - - t o -	f 1 o r - -	n a s o -	n a r i θ -
	f r u - t t o - f r u - - t e -	f j o: r e -	$ \mathbf{n} \mathbf{a} \mathbf{s} \mathbf{o} -$	n a r i tf e
PortugueseBrazil				
Portuguese Catalan	f		n a s	
Walloon	f R y - - - -	f f ø: r - -	n e	n a: r I s -
Friulian	f r u - - t - - -	f 1 o: r	n e - - - - - - - - -	
Romanian	$ \mathbf{f} \mathbf{r} \mathbf{u} - \mathbf{k} \mathbf{t} - \mathbf{r} $	f l oa r e -	n a s	
	Sun	Sun-Soliculus	Moon	Star
Latin	s o: 1 e m		1 u: n a	- s t - e: 1 1 a
French		s o 1 e a 1 a s	1 y n -	e - t w a - 1 -
Spanish	s o 1		$1 \mathbf{u} \mathbf{n} \mathbf{a}$	e s t r e - j a
Italian	s o 1 e -		1 u n a	- s t - e 1 1 a
PortugueseBrazil	$\begin{vmatrix} \mathbf{s} & \mathbf{j} & \mathbf{k} & \mathbf{k} \end{vmatrix} = \begin{vmatrix} \mathbf{s} & \mathbf{k} & \mathbf{k} & \mathbf{k} \end{vmatrix}$		1 u - e	i s t r e - 1 e
_				
_				
Friulian	1 1 1 - 1	s o r e - 1 i -	1 u n e	- s t - ε - 1 e
Romanian	s oa r e -		1 u n ə	- s t - ea
Portuguese Catalan Walloon	s o 1 - - s o 1 - - s o 1 o -		$ \begin{array}{c cccc} \Lambda & \mathbf{u} & \mathbf{n} & \mathbf{a} \\ 1 & \mathbf{o} & \mathbf{n} & \mathbf{a} \end{array} $	i f t r e - 1 e e

	Water	Rain	Lake	Sea
Latin	a - k ^w - a	p 1 u - w i a	l a k u m	m a r e
French	0	p 1 y - - i -	1 a k	m ε r -
Spanish	a - y w a	j - u - b j a	1 a g o -	mar -
Italian	a k k w a	p j o d dz - a	1 a g o -	m a r e
PortugueseBrazil	a - q w e		1 a g u -	тав -
Portuguese	a - g w e		1 a γ u -	mar -
Catalan	aj - y w ə	p 1 u - 3 - ə	А a k	mar -
Walloon	ε: - - w -	p 1 u: - u	1 a k	шев-
Friulian	a - g - e	p 1 o j e	1 a: t	ma: r -
Romanian	a - p - ə	p 1 oa - - j e	1 a k	m a r e
	Salt	Earth	Fog	Fog-Nebula
Latin	s a: 1 e m	t - e r r a	k a: l i: g i n e m	n - e - b u l a
French	s ε 1 - -	t - e - r -		n j o 1 y
Spanish	s a 1	t j e - r a	$ \mathbf{k} \mathbf{a} 1 \mathbf{i} $ - $ - \mathbf{n} \mathbf{a} $ -	n j e - b - 1 a
Italian	s a 1 e -	$ t - \epsilon r r a$	k a l i d i n e -	n - e b b - j a
PortugueseBrazil	s a w	t - e - R B	$\begin{vmatrix} \mathbf{k} & \mathbf{a} & \mathbf{l} & \mathbf{i} & \mathbf{g} & \mathbf{\tilde{e}\tilde{\jmath}} \end{vmatrix}$ - $\begin{vmatrix} \mathbf{e} & \mathbf{\tilde{\jmath}} & \mathbf{\tilde{e}\tilde{\jmath}} \end{vmatrix}$ - $\begin{vmatrix} \mathbf{e} & \mathbf{\tilde{\jmath}} & \mathbf{\tilde{e}\tilde{\jmath}} \end{vmatrix}$	$ n - \epsilon - v w - e $
Portuguese	s a 1	t - e - r b	k e l i z ej	$ \mathbf{n} - \mathbf{\epsilon} - \mathbf{v} \mathbf{w} - \mathbf{e} $
Catalan	s a 1	$ t - \epsilon - r $ ə		n - e w 1 ə
Walloon	s e	t - ε: - R -		
Friulian	s a: 1 - -	$ t j \epsilon - r e$		
Romanian	s a r e -	ts - a - r ə		n e g u r ə
	Fog-Tenebrae	Fog-Tenebras	Fog-Fumata	Fog-Caecia
Latin	Fog-Tenebrae $ t e n - e b r aj$	t - e n - e: b r a: s	f u: m a: t a	Fog-Caecia k aj k i a
French		t - e n - e: b r a: s t - e n - ε b μ - -	f u: m a: t a f y m e - -	
French Spanish	t e n - e: b r aj	t - e n - e: b r a: s t - e n - ε b β - -	f u: m a: t a f y m e - - f u m a t a	
French Spanish Italian		t - e n - e: b r a: s t - e n - ε b μ - -	f u m a: t a f y m e f u m a t a f u m a: t a	
French Spanish Italian PortugueseBrazil	t e n - e: b r aj	t - e n - e: b r a: s t - e n - \varepsilon b \varepsilon a: s t - e n j e b l a s t - \varepsilon : n - e b r e -	f u: m a: t a f y m e f u m a t a f u m a: t a f u m a s e	
French Spanish Italian PortugueseBrazil Portuguese	t e n - e: b r aj	t - e n - e: b r a: s t - e n - \varepsilon b \varepsilon a: s t - e n - \varepsilon b \varepsilon a s t - \varepsilon e b r e - t r - - - \varepsilon v - \varepsilon v \varepsilon \vareps	f u m a: t a f y m e f u m a t a f u m a: t a	
French Spanish Italian PortugueseBrazil Portuguese Catalan	t e n - e: b r aj	t - e n - e: b r a: s t - e n - \varepsilon b \varepsilon a: s t - e n j e b l a s t - \varepsilon : n - e b r e -	f u: m a: t a f y m e f u m a t a f u m a: t a f u m a s e	
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon	t e n - e: b r aj	t - e n - e: b r a: s t - e n - \varepsilon b \varepsilon a: s t - e n - \varepsilon b \varepsilon a s t - \varepsilon e b r e - t r - - - \varepsilon v - \varepsilon v \varepsilon \vareps	f u: m a: t a f y m e f u m a t a f u m a: t a f u m a s e f u m a s e	
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian	t e n - e: b r aj	t - e n - e: b r a: s t - e n - \varepsilon b \varepsilon a: s t - e n - \varepsilon b \varepsilon a s t - \varepsilon e b r e - t r - - - \varepsilon v - \varepsilon v \varepsilon \vareps	f u: m a: t a f y m e f u m a t a f u m a: t a f u m a s e	k aj k i a
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	t - e n - e: b r a: s t - e n - E b B r - - t - i n j e b l a s t - E: n - e b r e - E r e s s	f u: m a: t a f y m e f u m a: t a f u m a: t a f u m a: t a f u m a s e f u m a s e f u m a s e	k aj k i a f ea f - ə
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian	t e n - e: b r aj t e: n - e b r e e s r e e s r e s r e s e s r e s r e s r e s r e s r e s r e s r e s r e s r e s r e s r e s r e s r e s e s r e s r e s r e s r e s r e s r e s r e s r e s r e s r e s r e s r e s r e s e s r e s r e s r e s r e s r e s r e s r e s r e s r e s r e s r e s r e s r e s e s r e s r e s r e s r e s r e s r e s r e s r e s r e s r e s r e s r e s r e s e	t - e n - e: b r a: s t - e n - E b B r - - t - i n j e b l a s t - E: n - e b r e -	f u: m a: t a f y m e f u m a t a f u m a: t a f u m a s e f u m a s e f u m a t e	k aj k i a tʃ ea tʃ - ə Year
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian	$ \begin{vmatrix} t & e & n & - & e \\ e & n & - & e \\ \end{vmatrix} b & r & aj $ $ \begin{vmatrix} t & \epsilon & n & - & e \\ k & - & aj & 1 & u & m \\ \end{vmatrix} $	t - e n - e: b r a: s t - e n - E b B - - t - e n - E b B - -	f u: m a: t a f y m e f u m a t a f u m a: t a f u m a s e f u m a s e f u m a t e Fire-Focus f - o k u m	tf ea tf - ə Year a n n u m
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French	t e n - e: b r aj t e: n - e b r e e s j e k - aj 1 u m s j e 1 - - e b r aj aj aj aj aj aj a	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	f u: m a: t a f y m e f u m a t a f u m a: t a f u m a s e f u m a s e f u m a t e Fire-Focus f - o k u m f - ø	tf ea tf - a Year a n n u m a
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	t - e n - e b r a s t - e n - e b r a s t - e n - e b r e - t - e n f e b r e -	f u: m a: t a f y m e f u m a t a f u m a: t a f u m a s e f u m a s e f u m a t e Fire-Focus f - o k u m f - ø f w e g o -	f ea f - a Year a n n u m a a n n o -
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	t - e n - e b r a s t - e n - e b r a s t - e n - e b r e -	f u: m a: t a f y m e f u m a t a f u m a: t a f u m a s e f u m a s e f u m a t e Fire-Focus f - o k u m f - ø f w e g o - f w o k o -	f ea f - a Year a n n u m a a a n n o -
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazil	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	t - e n - e b r a s t - e n - e b r a s t - e n - e b r e -	f u: m a: t a f y m e f u m a t a f u m a: t a f u m a s e f u m a s e f u m a t e Fire-Focus f - o k u m f - ø f w e g o - f w o k o - f - o g u -	f ea f - a Year a n n u m a - n o - a a n n o - e - n u -
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazil Portuguese	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	t - e n - e b r a s t - e n - e b r a s t - e n - e b u - - t - i n j e b l a s t - e b r e - e b r e - e b r e - e b r e f e	f u: m a: t a f y m e f u m a t a f u m a: t a f u m a s e f u m a s e f u m a t e Fire-Focus f - o k u m f - ø f w e g o - f w o k o - f - o g u - f - o y u -	f ea f - a Year a n n u m a - n o - a e - n u - c e - n u - c
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazil Portuguese Catalan	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	t - e n - e b r a s t - e n - e b r a s t - e n - e b r a s e t - e n - e b r e - e t - e e e - e e e - e e	f u: m a: t a f y m e f u m a t a f u m a: t a f u m a: t a f u m a s e f u m a s e f u m a t e Fire-Focus f - o k u m f - ø f w e g o - f w o k o - f - o g u - f - o y u - f - o k	f ea f - a Year a n n u m a - n o - a a n n o - e e - n u - e a n n - a
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	t - e n - e b r a s t - e n - e b r a s t - e n - e b r a s t - e n - e b r e - e t - e e e - e e e e e	f u: m a: t a f y m e f u m a t a f u m a: t a f u m a s e f u m a s e f u m a t e Fire-Focus f - o k u m f - ø f w e g o - f w o k o - f - o g u - f - o k f - o g u - f - o g u - f - o g u - f - o g f - o g f - o g f - o g f - o g f - o g f - o g f - o g	tf ea tf - a Year a n n u m a - n o - a n u - a - n u - a - n u - a - n - a - n u - a - n - a - n u - a - n a - a - n a - a - n
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazil Portuguese Catalan	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	t - e n - e b r a s t - e n - e b r a s t - e n - e b r a s e t - e n - e b r e - e t - e e e - e e e - e e	f u: m a: t a f y m e f u m a t a f u m a: t a f u m a: t a f u m a s e f u m a s e f u m a t e Fire-Focus f - o k u m f - ø f w e g o - f w o k o - f - o g u - f - o y u - f - o k	f ea f - a Year a n n u m a - n o - a a n n o - e e - n u - e a n n - a

	Name-Nomen	Name-Nominem	Tongue	ToDrink
Latin	n o: m e n	n o: m i n - e m	1 i n g ^w - a	b i b - e r e
French	n 5 - - -		$1 \tilde{\mathfrak{a}} - g - -$	b - - w a в -
Spanish		n o m - b r e -	leŋgwa	b e b - e r -
Italian	n o m e -		1 i n g w a	b e - - r e
PortugueseBrazil	n o m i -		1 î - g w e	рер-ев-
Portuguese	n o m i -		1 î - g w e	b i β - e r -
Catalan	n o m - -			b ε w - - r ə
Walloon	n õ - -		1	p - - @: R -
Friulian	n o ŋ - -		$1 \epsilon n g - \epsilon$	b e v i - - -
Romanian	n u m e -		1 i m b - ə	
	ToEat	ToEat-Manducare	ToBite	ToBite-Morsicare
Latin	k o m e d e r e	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
French		$ \mathbf{m} \tilde{\mathbf{a}} - \mathbf{g} - \mathbf{e} - \mathbf{e} $	$ \mathbf{m} $ - $ \mathbf{o} $ \mathbf{R} $ \mathbf{q} $ - $ \mathbf{R} $ -	
Spanish	k o m e - - r -	m a n d u k a r -	$ \mathbf{m} $ - $ \mathbf{o} $ $ \mathbf{f} $ $ \mathbf{\delta} $ $ \mathbf{e} $ $ \mathbf{f} $ -	m o - s - k a r -
Italian		m a n dz - - a r e	$ \mathbf{m} - \mathbf{o} \mathbf{r} \mathbf{d} \mathbf{e} \mathbf{r} \mathbf{e}$	m o r s i k a r e
PortugueseBrazil	k o m e	$ \mathbf{m} \mathbf{\tilde{e}} - 3 - - \mathbf{a} \mathbf{\kappa} -$	m - o r d e r -	m u - s ə g a - -
Portuguese	$ \mathbf{k} \mathbf{u} \mathbf{m} $ - $ \mathbf{e} \mathbf{r} $ -	$ \mathbf{m} \tilde{\mathbf{e}} - \mathbf{z} - - \mathbf{a} \mathbf{r} -$	$ \mathbf{m} $ - $ \mathbf{u} $ $ \mathbf{r} $ $ \mathbf{\delta} $ $ \mathbf{e} $ $ \mathbf{r} $ -	m u - s ə g a r -
Catalan		m ə n ʒ - - a - -		$ m u - s \vartheta \gamma a - -$
Walloon		m a n - - i: - -		
Friulian		m a ŋ ɟ a:	$\mathbf{m} \mathbf{w} \mathbf{a} \mathbf{r} \mathbf{d} \mathbf{i} $ -	
Romanian		m i n k a		m u r s e k a - -
	ToSuck	ToSpit	ToSpit-Exconspuere	ToSpit-Sputare
Latin	s u: g e r e	k o n s p u e r e		- s p u t e r e
French	s y s e - -			
Spanish			$e \mid s \mid k \mid u \mid - \mid p \mid i \mid r$	e s p u t a r -
Italian				- s p u t a r e
PortugueseBrazil		k u - s p i в - -		
Portuguese	s u g a r -			
Catalan			$\left \left \mathbf{s} \right \right \left \mathbf{s} \right \left \mathbf{u} \right - \left \left \mathbf{p} \right \right \right - \left \left \mathbf{s} \right \right - \left \left \mathbf{s} \right \right \right $	
Walloon	s y s i: - -			
Friulian	c u c a:			s p u d a:
Romanian	s u dz e - -		- s k u j p a -	
	ToKnow	ToKnow-Sapere	ToKnow-Cognoscere	ToThink
Latin .	s k i: r e	s a p - e r e	k o g n o: s k e r e	k - o: g i t a: r e
French		s a v w a r -	k o - n e - t b	k ų - - i d e - -
Spanish		s a b - e r -	k o - n o θ e r	k w - - i d a r -
Italian		s a p - e: r e	$ \mathbf{k} \mathbf{o} - \mathbf{n} \mathbf{o} \mathbf{f} \mathbf{e} \mathbf{r} \mathbf{e} $	k - o dz i t a r e
PortugueseBrazil		s a b - е в -	k o - n e s - e r -	k - u z i t a r -
Portuguese		s e b - e r -	k u - n i s - e r -	k - u 3 i t a r -
Catalan		$ s \vartheta \beta - \epsilon - -$	$k u - n \varepsilon \int - \vartheta - - $	
Walloon		s a v - ø: R -	k i - n o h	
Friulian Romanian	 	s a v - e:	k o - p o s - i	k - u d e t a
			k u - n oa ∫ t e	

	ToThink-Pensare	ToFear	ToFear-Tremere	ToSleep
Latin	p e: n s a: r e	t i m e: r e	t r e m - e r e	d - o r m i: r e
French	$ \mathbf{p} \tilde{\mathbf{a}} - \mathbf{s} \mathbf{e} - -$		k r e - d - r -	d - s u i u -
Spanish	pensar-	t e m e r -	t r e m - e r -	d - o r m i r -
Italian	p e n s a r e	t e m e: r e	t r e m - a r e	d - o r m i: r e
PortugueseBrazil	р е - в а в -	temer-	t r e m - e r -	d - o R m i R -
Portuguese	$p \mid \tilde{e} \mid - \mid s \mid a \mid r \mid -$	t i m e r -	$t \mid \mathbf{r} \mid \mathbf{i} \mid \mathbf{m} \mid - \mid \mathbf{e} \mid \mathbf{r} \mid -$	d - u r m i r -
Catalan	p ə n s a - -	t e m ə		d - u r m i - -
Walloon	$p \mid \tilde{\epsilon} \mid - \mid s \mid e \mid - \mid - \mid$			d w a r m i
Friulian	p e n s a:	t e m i - -	t r i m - a: - -	d - u r m i: - -
Romanian	p ə - s a - -	t e m e		d - o r m i - -
	ToLive	ToDie	ToSwim	ToSwim-Navigare
Latin	w i: w e r e	m o r i:	n - a t a: r e	n a v i g a: r e
French	v i v - в -	mukik-		n a 3 e
Spanish	b i b i r -	morir-	$ \mathbf{n} $ - $ \mathbf{a} $ $ \mathbf{d} $ $ \mathbf{a} $ $ \mathbf{r} $ -	n a b e g a r -
Italian	v i: v e r e	m o r i: r e	n w o t a r e	n a v i g a r e
PortugueseBrazil	v i v e в -	шоввв -	n - a d a в -	n a v i v a r -
Portuguese	v i v e r -	muser-	n - g ð a r -	n e v i y a r -
Catalan	b i w - r ə	m u r i	n - ə d a - -	n ə b ə g a - -
Walloon		m o R i		n ε dg i:
Friulian	v i v i	m u r i:	n - a d a:	n a v i g a:
Romanian	v i - a	m u r i		n a v i g a
	ToFly	ToFly-Exvolare	ToWalk	ToWalk-Marcher
Latin	w o l a: r e			
French	v o 1 e - -		$\int \left \mathbf{a} \right \mathbf{m} \left \mathbf{i} \right \mathbf{n} \left \mathbf{e} \right - \left - \right - \right $	m a в f e
Spanish	b o 1 a r -		k a m i n a r	
Italian	v o 1 a r e	z v o 1 a: r e	k a m m i n a: r e	
PortugueseBrazil				
Portuguese	v o - a в -		k e m i n a r - -	
	$egin{array}{ c c c c c c c c c c c c c c c c c c c$		k e m i n a r - -	
Catalan				
Catalan Walloon	$ \mathbf{v} \mathbf{w} - \mathbf{a} \mathbf{r} $			ma: R f i:
	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	z v o 1 a: - -	$egin{array}{c c c c c c c c c c c c c c c c c c c $	m a: R tf i:
Walloon	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	z v o 1 a: - - z b u r a - -		m a: R If i:
Walloon Friulian	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	z b u r a ToWalk-Ambitare	k e m i n a r - -	ma: R tf i: ToLieAsInABed
Walloon Friulian	v w - a r - b u 1 a - - v o 1 e - -	z b u r a - -	k e m i n a r - -	
Walloon Friulian Romanian	v w - a r - b u 1 a - - v o 1 e - -	z b u r a ToWalk-Ambitare	k e m i n a r - -	ToLieAsInABed
Walloon Friulian Romanian Latin	v w - a r - b u 1 a - - v o 1 e - -	z b u r a ToWalk-Ambitare	k e m i n a r - -	ToLieAsInABed e k s t e n d e r e
Walloon Friulian Romanian Latin French Spanish Italian	v w - a r - b u 1 a - - v o 1 e - -	z b u r a - -	k e m i n a r - -	ToLieAsInABed e k s t e n d e r e e - t ã - d - k e k s t e n d e r - e - s t ɛ n d e r e
Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazil	v w - a r - b u 1 a - - v o 1 e - -	z b u r a - -	k g m i n a r - -	ToLieAsInABed e k s t e n d e r e e - t ã - d - k e k s t e n d e r - e i s t ē n d e r -
Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazil Portuguese	v w - a r - b u 1 a - - v o 1 e - -	z b u r a - -	k g m i n a r - -	ToLieAsInABed 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 ẽ - d e в i ∫ t ẽ - d e r -
Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazil Portuguese Catalan	v w - a r - b u 1 a - - v o 1 e - -	z b u r a - -	k g m i n a r - -	ToLieAsInABed e k s t e n d e r e e - t ã - d - k e k s t e n d e r - e i s t ē n d e r -
Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon	v w - a r - b u 1 a - - v o 1 e - -	z b u r a - -	k e m i n a r - -	ToLieAsInABed 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 ẽ - d e в i ∫ t ẽ - d e r -
Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazil Portuguese Catalan	v w - a r - b u 1 a - - v o 1 e - -	z b u r a - -	k g m i n a r - -	ToLieAsInABed 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 ẽ - d e в i ∫ t ẽ - d e r -

	ToLieAsInABed-Iacere	ToSit	ToSit-Sedentare	ToStand
Latin	j a - k e: r e	s - e d e: r e	s e d e n t a r e	- s t a: r e
French	3 e - z i k -	s w a в -		ε - t - в -
Spanish	j a - θ e r -	s - e r -	s e - - n t a r -	e s t a r -
Italian	dg a - tf e: r e	s - e d e r e		- s t a: r e
PortugueseBrazil	1 = 1 1 1 1 1 1 1	s - e r -	$ \mathbf{s} \mathbf{\tilde{e}} - \mathbf{r} - \mathbf{t} \mathbf{a} \mathbf{r} - \mathbf{r} $	i ftar-
Portuguese	3 e - z e r -	s - e r -	s e - - t a r -	i ftar-
Catalan	3 a w r ə			ə s t a
Walloon	ф e r e -			ε s
Friulian	j e - s i		s e n t a:	- s t a: - -
Romanian	z ə - tf ea	∫ - e d ea - -		- s t a
	ToStand-Levare	ToStand-Altiare	ToTurnIntransitive	ToTurnIntransitive-Gyrare
Latin	1 e v a: r e	- a 1 t i a: r e	t o r n a: r e	g y r a: r e
French	1 ə v e - -	- o - s - e - -	t u u n e - -	3 i k e
Spanish	j e b a r -	$\begin{vmatrix} - a & 1 & \theta & - a & r \end{vmatrix}$	$ \mathbf{t} \mathbf{o} \mathbf{r} \mathbf{n} \mathbf{a} \mathbf{r} $	x i r a r -
Italian	1 e v a: r e	- a 1 ts a r e -	t o r n a r e	dz i r a: r e
PortugueseBrazil		- a 1 S a 1 C	t 0 R U B R -	3 i r a r -
Portuguese	$\begin{vmatrix} 1 & \mathbf{i} & \mathbf{v} & \mathbf{a} & \mathbf{b} \end{vmatrix}$	$\begin{vmatrix} a & b & a \\ - & a & b & a \end{vmatrix}$	$t \mathbf{u} \mathbf{r} \mathbf{n} \mathbf{a} \mathbf{r} $	3 i r a r -
Catalan	б р в а	- ə 1 s - a - -	t u r n a - -	3 i r a
Walloon	1 o v e - -	h 3: - s - i: - -	t u: r n e - -	3 2 2 4
Friulian	1 e v a:	- a 1 t f - a: -	t o r n a: - -	d3 i r a:
Romanian	1 - u a		t u r n a - -	
	ToTurnIntransitive	ToTurnIntransitive-Torquer		ToFall-Tumbare
	-AncestralClass3	•		
Latin		t o r k ^w e: r e	k - a d e r e	
French	v i в e - -	t 2 R q - R -	J w а в -	t õ - b e -
Spanish	b i r a r -	torer	k - a - e r -	t u m b a r
ltalian	v i r a: r e	t orfere	k - a d e: r e	
PortugueseBrazil	v i r a r -	t u r s e r -	k - e - i r -	t õ - b a ʁ
Portuguese	3 i r a r -	t u r s e r -	k - e - i r -	t õ - b a r
Catalan	b i r a	t 2 r s 2 - -	k - a w - r ə	t u m b a -
Walloon	v i в е - -		tf - ε: - - R -	t u m - e -
Friulian	dg i r a:		tf j a d e - -	
Romanian		t oa r tf e	k ə d ea - - -	t u m b a -
	ToHold	ToHold-Segurar	ToSqueeze	ToSqueeze-Serrere
Latin	t e n - e: r e		e k s p r i m - e r e	s e r r e r e
French	t a n - i a -		$ 6 - \mathbf{-} \mathbf{b} \mathbf{R} \mathbf{\tilde{\epsilon}} \mathbf{-} \mathbf{q} \mathbf{-} \mathbf{R} \mathbf{-} $	
Spanish	t e n - e r -	s e g u r a r	e k s p r e m - i r -	
Italian	t e n - e: r e		$ - - s p r \epsilon m - e r e$	
PortugueseBrazil	t e - - r -	s i g u r a r	$ i - \int p r \mathfrak{d} m - e \mathfrak{E} -$	s e - B a
Portuguese	t e - - r -	$s \mid i \mid \gamma \mid u \mid r \mid a \mid r$	$\begin{vmatrix} i \end{vmatrix} - \begin{vmatrix} \int p r a m - e r \end{vmatrix}$	
Catalan	t a n - i - a		$\begin{vmatrix} \mathbf{a} & - & \mathbf{s} & \mathbf{p} & \mathbf{r} & \mathbf{e} & \mathbf{m} \end{vmatrix} = \begin{vmatrix} \mathbf{a} & - & - \end{vmatrix} = \begin{vmatrix} - & \mathbf{s} & \mathbf{r} \end{vmatrix}$	s ə - r a - -
Walloon	t i n - i - -			
Friulian	t i n j i - -		$\mid e \mid - \mid s \mid p \mid r \mid i \mid m \mid - \mid i \mid - \mid - \mid$	
Romanian	ts i n - e - -		- s k - r e m e - - -	

	ToSqueeze-Serare	ToSqueeze-Appectorare	ToSqueeze-Stringere	ToRub
Latin	se-rare	appektora: re	- s t r i n g e r e	f r i k a: r e
French	s e - в е		$ \mathbf{e} - \mathbf{f} \mathbf{R} \mathbf{\tilde{\varepsilon}} - \mathbf{q} - \mathbf{R} -$	f g g e - - -
Spanish	$ \theta e - r a r $	a - p - - r e t a r -	e s t r e n - i r -	fregar-
Italian	s e r r a r e	12.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	- s t r i n dz e r e	f r e g a: r e
PortugueseBrazil	s i - в а г -	- p i - r - t a r -	ə f t r î - z i r -	
Portuguese	s i -	e - p i - r - t a r -	ə ʃ t r ĩ ʒ i r	
Catalan		12.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	ə s t r ε n ə	f r ə g a - -
Walloon	$ \mathbf{s} \mathbf{\epsilon} - \mathbf{R} \mathbf{e} - -$		s t r i n g e	f r oj
Friulian			$ \mathbf{s} \mathbf{t} \mathbf{r} \mathbf{\epsilon} \mathbf{n} \mathbf{g} \mathbf{i} - \mathbf{r} - \mathbf{r} $	f r e - a
Romanian			s t r i n d e	f r e k a
	ToRub-Exfricare	ToRub-Frictare	ToRub-Frictiare	ToWash
Latin		f r i k t a: r e		l a w a: r e
French		f s o t e - - -		1 a v e
Spanish		f r o t a r	f r i s a r	1 a β a r -
Italian		f r e t t a r e		1 a v a: r e
PortugueseBrazil	$ \mathbf{i} \int \mathbf{f} \mathbf{r} \mathbf{i} \mathbf{g} \mathbf{a} \mathbf{r}$			1 e v a r -
Portuguese	i f f i y a r			1 e v a r -
Catalan			f r ə s a -	λ ə b a
Walloon		f B O t e - - -		1 a v e
Friulian				1 a v a:
Romanian				1 a
	ToWipe	ToWipe-Extergere	ToWipe-Exsucare	ToWipe-Limpidare
Latin	t e r g e r e	ekstergere	e k s - u: k - a: r e	1 i m p i d a: r e
French			e - s y i - j e - -	
Spanish		e - s t a r s i r -	e n x - u g - a r -	1 i m p j - a r -
Italian	t ε r dz e r e		$\begin{vmatrix} a & f & f \end{vmatrix} - \begin{vmatrix} u & g \end{vmatrix} - \begin{vmatrix} a & r \end{vmatrix} e$	
PortugueseBrazil			$ \tilde{\mathbf{e}} - \mathbf{f} - \mathbf{u} \mathbf{g} - \mathbf{a} \mathbf{f} - \mathbf{g} $	
Portuguese			$\left oldsymbol{ ilde{e}} ight - \left oldsymbol{f} ight - \left oldsymbol{u} ight oldsymbol{\gamma} \left - oldsymbol{a} ight oldsymbol{f} \left - oldsymbol{f} \left oldsymbol{a} ight oldsymbol{f} \left - oldsymbol{f} \left oldsymbol{f} \left - oldsymbol{f} \left oldsymbol{f} \right \right \right \right \right \right \right \right + \left \left oldsymbol{f} \left oldsymbol{f} \left oldsymbol{f} \left oldsymbol{f} \left oldsymbol{f} \left oldsymbol{f} \right \right \right \right \right \right + \left \left oldsymbol{f} \left oldsymbol{f} \left oldsymbol{f} \left oldsymbol{f} \left oldsymbol{f} \left oldsymbol{f} \right \right \right \right \right \right \right + \left \left \left oldsymbol{f} \left oldsymbol{f} \left$	
Catalan			$ \mathbf{a} - \mathbf{f} - \mathbf{u} \mathbf{g} \mathbf{a} - - - $	
Walloon			- - s - u - w e - -	
Friulian			- - s - u - j a: - -	
Romanian		- - \int t e r dz e - -	u - s - - k - a - -	
	ToPull	ToPull-Pulsare	ToPull-Trahere	ToPush
Latin	t i r a: r e	p u 1 s a: r e	t r a - h e r e	i m p i n g e r e
French	t i r e - -	p u - s e	$ \mathbf{r} \mathbf{R} $ - $ - - \epsilon \mathbf{R} $ -	
Spanish	t i rar	p u - x a r -		
Italian	t i r a: r e	p u 1 s a: r e	t r a - r - r e	i m p i n dz e r e
PortugueseBrazil	tf i r a - -	p u - f a r -	t r a - z e - -	
Portuguese	t i rar	$ p u - \int a c -$	t r e - z e r -	
Catalan	t i r a - -		$ t r \epsilon - w - r a $	$ \mathbf{a} \mathbf{m} \mathbf{p} \mathbf{\epsilon} \mathbf{n} - \mathbf{a} - \mathbf{a} $
A contract of the contract of				
Walloon	t i r e - -	p u: s i:		
Walloon Friulian Romanian	t i r e - - t i r a: - -	p u: s i:	t r aj - - - - - - - - -	i m p i n d e

	ToThrow	ToThrow-Lanceare	ToThrow-Eruncare	ToTie
Latin	j a - k t a: r e	l a n k e a: r e	e: - r u n k a: r e	l i g a: r e
French	3 ə - - t e - -	1 a - s - e - -		1 i - e - -
Spanish	- e tf a r -	1 a n - θ - a r	$ \mathbf{a} - \mathbf{r} \mathbf{a} \mathbf{n} \mathbf{k} \mathbf{a} \mathbf{r} -$	1 e g a r -
Italian	dge - ttare	1 a n tf a: r e -	a r r o n tf a: r e	1 e g a: r e
PortugueseBrazil	3 ej - t a r - -	1 v - s - a - -		1
Portuguese	3 ej - t a r - -	1 v - s - a r -		
Catalan	x i - t a - - -	Λ ə n s - a - -		Λ i y a - -
Walloon	dg ε - t e	1 a n c - i:		1 o j i: - -
Friulian		1 a n tf a:		1 e - a:
Romanian			a - r u ŋ k a	1 e g a
	ToTie-Aptare	ToSew	ToCount	ToCount-Enumerare
Latin	a p t a: r e	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
French		k u - d в -	k õ - - t e - -	е n u m е в е
Spanish	a - t a r -	k o - s - e r -	k o n t a r -	e n u m e r a r -
Italian		k u tf - i: r e	k o n t a: r e	e n u m e r a: r e
PortugueseBrazil	e - t a r -	k u - - z - e r -	k õ - - t a r -	e n u m e r a r -
Portuguese	e - t a r -	k u - - z - e r -	k õ - - t a r -	e n u m e r a r -
Catalan		k u - - z - i - -	k u m - - t a - -	e n u m e r a
Walloon		k ø: - - z - - -	k õ - - t e - - -	
Friulian		k u z i	k o n t a:	
Romanian		c oa - - s - e - -		- n u m a r a
	ToSay	ToSay-Exponere	ToSing-AncestralClass	ToPlay-Ludere
Latin	d i: k e r e	e k s p o: n e r e	k a n t a: r e	1 u: d e r e
French	$ \mathbf{d} \mid \mathbf{i} \mid$ - $ $ - $ $ $\mathbf{r} \mid$ -		$\left \int\left ilde{\mathfrak{a}} ight -\left \operatorname{t}\left \operatorname{e} ight - ight $	
Spanish	$ \mathbf{d} \mathbf{e} \mathbf{\theta} \mathbf{i} \mathbf{r} $ -		k a n t a r -	1 u d i r -
Italian	d i: - - r e	- - s p o r - r e	k a n t a: r e	
PortugueseBrazil	$ \mathbf{d} \mathbf{i} \mathbf{z} $ - $ \mathbf{e} \mathbf{r}$		$ \mathbf{k} \widetilde{\mathbf{e}} $ - $ \mathbf{t} \mathbf{a} \mathbf{r} $ -	
Portuguese	$ \mathbf{d} \mathbf{i} \mathbf{z} $ - $ \mathbf{e} \mathbf{r}$		$ \mathbf{k} \widetilde{\mathbf{e}} $ - $ \mathbf{t} \mathbf{a} \mathbf{r} $ -	
Catalan	d i - - - -		k ə n t a - -	
Walloon	q i: - - R -		$\left ext{tf} \left ilde{ ext{a}} \right - \left ext{t} \left ext{e} \right - \right - ight $	
Friulian	d i: - - -		c a n t a: - -	
Romanian	z i tf e - -	- - s p u n e - -	k i n t a - -	
	ToPlay-Jiocare	ToFloat	ToFloat-Fluitare	ToFlow
Latin	j o - k a: r e	f l u k t u a r e	f 1 u i t a: r e	f l u e r e
French	3 - w - e	f 1 y k t y e - -		f 1 y e - -
Spanish	$ \mathbf{x} \mathbf{u} - \mathbf{g} \mathbf{a} \mathbf{r} $	f 1 u g t w a r -		f 1 u i r -
Italian	ф o - k а: r е	f 1 u t t u a r e	f 1 u i t a r e	f 1 u i r e
PortugueseBrazil	3 o - g a r -	f 1 u - t u a ʁ -		f 1 w i в -
Portuguese	$ \mathfrak{Z} \mathfrak{u} $ - $ \mathfrak{Y} \mathfrak{a} \mathfrak{r} $ -	f 1 u - t u a r -		$ \mathbf{f} 1 \mathbf{w} \mathbf{i} \mathbf{r} $
Catalan		f l u k t u a - -		f 1 u i - -
Catalall	3 u - g a - -	1 1 u K t u a - -		1 1 4 4 1
Walloon	$ d\mathbf{y} \mathbf{u} \mathbf{w} $ - $ \mathbf{e} $ - $ \mathbf{e} $			
				111011

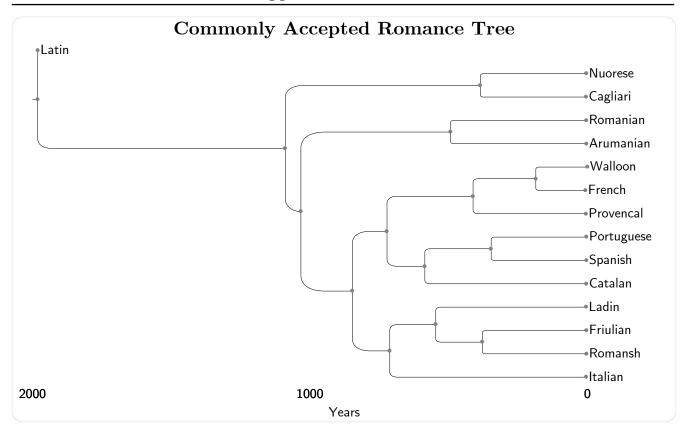
	ToFlow-Colare	ToFlow-Excurrere	ToFlow-Currere	ToFreeze
Latin	k o: 1 a: r e	e k s k u r r e r e	k u r r e r e	g e l a: r e
French	k u 1 e		k u -	3 ə 1 e
Spanish	k o 1 a r -	e - s k u r i r - -	k o - r e r -	- e 1 a r -
Italian	k o 1 a: r e	- - s k o r r e r e	k o r r e r e	dg e l a r e
PortugueseBrazil	k o - a в -	i - f k o - в e в -	k о - в е в -	3 i 1 a r -
Portuguese	k u - a r -	i - f k u - r e r -	k u -	3 i 1 a r -
Catalan	k u 1 a		k o - r ə	3 ə 1 a - -
Walloon	k o 1 e - -			dg a 1 e
Friulian		- - s k o - r i: - -	k o - r i	
Romanian		- - s k u r dz e - -	k u r dz e - -	
	ToFreeze-Glaciare	ToFreeze-Inglaciare	ToBurn-Brojan	ToBurn-Cremare
Latin	g 1 a - k i a: r e	i n g l a k i a: r e		k r e m a: r e
French	g 1 a - s - e - -		b в у 1 е - -	k B a m e - -
Spanish				k - e m a r -
Italian	g j a t f j a r e		b r u tf a: r e	k r e m a r e
PortugueseBrazil				k - ej m a r e
Portuguese				k - ej m a в е
Catalan	g 1 ə - s - a - -			
Walloon			b в u: 1 e - -	
Friulian	g 1 a - tf - a: - -		b r u z a:	
Romanian		i n g - e ts - a - -		
	ToBurn-Flammare	ToBurn-Ardere	ToBurn-Flagrare	ToBurn-Incendere
Latin	f l a m m a: r e	a r d e: r e	f 1 a g r a: r e	i n k e n d - e r e
French	$ \mathbf{f} 1 \tilde{\mathbf{\alpha}} - \mathbf{b} \mathbf{e} - -$	a r q - r -	f 1 a g r e - -	$\left \widetilde{\varepsilon} \right - \left s \right \widetilde{\alpha} \left - \left d \right j \left e \right - \left - \right - \right $
Spanish	f 1 a - m e a r	a r d e r -	f l a g r a r -	$ \mathbf{e} \mathbf{n} \mathbf{\theta} \mathbf{e} \mathbf{n} \mathbf{d} \mathbf{e} \mathbf{r} \mathbf{e} \mathbf{r}$
Italian	f j a m m a r e	a r d e r e	f 1 a g r a r e	$i \mid n \mid t j \mid \epsilon \mid n \mid d \mid j \mid a \mid r \mid e$
PortugueseBrazil				
I_		a r q e r -	f 1 a g k a k -	î - s e n dʒ ɪ a r -
Portuguese		s t q e t - a R q e R -	$egin{array}{c c c c c c c c c c c c c c c c c c c $	$ \tilde{\imath} - s \tilde{e} - d j a r -$
Catalan	f l a m a - - -			
Catalan Walloon	$ \mathbf{f} 1 \mathbf{a} \mathbf{m} \mathbf{a} $ - $ - - $			$ \tilde{\imath} - s \tilde{e} - d j a r -$
Catalan Walloon Friulian	$ \mathbf{f} 1 \mathbf{a} \mathbf{m} \mathbf{a} $ - $ - - $	e r d e r -		$ \begin{array}{c c c c c c c c c c c c c c c c c c c $
Catalan Walloon		e r d e r - -	$ \mathbf{f} 1 \mathbf{a} \mathbf{g} \mathbf{r} \mathbf{a} \mathbf{r} $	$ \begin{vmatrix} \vec{i} & - & s & \vec{e} & - & d & j & a & r & - \\ \vec{e} & n & s & e & n & d & - & r & \vec{e} \\ \end{vmatrix} $
Catalan Walloon Friulian Romanian	ToBurn-AncestralClass8	e r d e r - - - All	$f \mid 1 \mid a \mid g \mid r \mid a \mid r \mid$ All-Totus	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
Catalan Walloon Friulian Romanian Latin		e r d e r - -	All-Totus t o: - t u s	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
Catalan Walloon Friulian Romanian Latin French	ToBurn-AncestralClass8	e r d e r - - - All	All-Totus t 0: - t u s t u - - - - -	i - s ē - d j a r - ə n s e n d - - r ə i n tf i n d g e - - Many m u 1 t u s m u - - - -
Catalan Walloon Friulian Romanian Latin French Spanish	ToBurn-AncestralClass8	e f d e f -	All-Totus t o:	i - s ē - d j a r - - r ə i n t i n d 3 e - - - - - - - - -
Catalan Walloon Friulian Romanian Latin French Spanish Italian	ToBurn-AncestralClass8	e r d e r - - - All	All-Totus t o:	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazil	ToBurn-AncestralClass8	e f d e f -	All-Totus t o:	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazil Portuguese	ToBurn-AncestralClass8	e f d e f -	All-Totus t o:	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazil Portuguese Catalan	ToBurn-AncestralClass8	e f d e f -	All-Totus t o: - t u s t u t u t u t t o - t u t u t u t u t t o - t u t u t t o - t u t o - t u t u t t o - t u t u t t o - t u t u t t o - t u t u t t o - t u t u t t o - t u t u t t o - t u t u t u t - t u t u t - t u t u t	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon	ToBurn-AncestralClass8	e f d e f -	All-Totus t o: - t u s t u t o - t u t o - t o - d u - t o - d u - t o - t o - t o - t o - t o - t o - t	$\begin{array}{c c c c c c c c c c c c c c c c c c c $
Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazil Portuguese Catalan	ToBurn-AncestralClass8	e f d e f -	All-Totus t o: - t u s t u t u t u t t o - t u t u t u t u t t o - t u t u t t o - t u t o - t u t u t t o - t u t u t t o - t u t u t t o - t u t u t t o - t u t u t t o - t u t u t t o - t u t u t u t - t u t u t - t u t u t	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

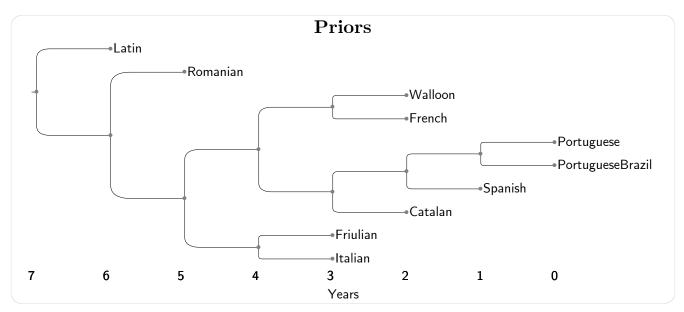
	Many-Tantus	Some	Few	Other
Latin	t a n t u s		p au k u s	a 1 t e r -
French		o - k o = - -	p ø - - -	o - t - R -
Spanish	t a n t o -	a 1 g u n o	p o k o -	o - t - r o
Italian	t a n t o -	a 1 k u n o	p o k o -	a 1 t - r o
PortugueseBrazil	t e - t u -	a w g ũ	p o w k u	o w t - r u
Portuguese	$ t \widetilde{e} $ - $ t u $ -	a $ a $ $ g $ $ u $ $ a $	$p \mid o \mid w \mid k \mid u$	o w t - r u
Catalan	t a n t - -	ə 1 g u - -	p o k - -	a 1 t - r ə
Walloon			$ \mathbf{p} \mathbf{\tilde{o}} $ - $ $ - $ $ -	
Friulian	t a n c - -		p o: k - -	a 1 t - r i
Romanian				a 1 t - - -
	Other-Alius	Big	Big-Grandem	Big-Majjorem
Latin	a l i u s	m a g n u m	g r a n d e m	m aj j o r e m
French			$ \mathbf{d} \mathbf{r} \mathbf{g} - - - -$	
Spanish		m a - n o -	$ g \mathbf{r} a \mathbf{n} d \mathbf{e}$	
Italian		manno	g r a n d e	
PortugueseBrazil			g r e - dz i -	
Portuguese	a 1 - - -		$ g r \tilde{e} - d i -$	
Catalan			g r a n - - -	
Walloon			$ \mathbf{g} \mathbf{r} \mathbf{g} - - - -$	
Friulian			g r a n t - -	
Romanian				m a - - r e
	Long-Longum	Long-Largum	Wide	Wide-Amplum
Latin	1 o - n g u m	largum	l a: t u m	a m p 1 u m
French	1 5 - - - -	1 a B 3	1 e - -	$ \tilde{a} - p 1 - -$
French Spanish	$ \begin{vmatrix} 1 & 3 & - & - & - & - & - & - \\ 1 & 0 & - & n & g & 0 & - \end{vmatrix} $	1 a r y o -	1 e - - - - 1 a t o -	$ \tilde{\mathbf{a}} - \mathbf{p} 1 - \mathbf{a} \mathbf{n} \mathbf{f} - \mathbf{o} - \mathbf{n} $
French Spanish Italian	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	1 a s 3 - - 1 a r y o - 1 a r g o -	1 e - - - - 1 a t o - 1 a t o -	$ \begin{vmatrix} \vec{\alpha} & & p & 1 & & & \\ a & n & t & & & & & \\ a & m & p & j & o & & \\ \end{vmatrix} $
French Spanish Italian PortugueseBrazil	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	1 a k 3 1 a r y o - 1 a r g o - 1 a k g u -	1 e - - - - 1 a t o - 1 a t o - 1 a t u -	$ \begin{vmatrix} \vec{\alpha} & - & p & 1 & - & - \\ a & n & t t & - & o & - \\ a & m & p & j & o & - \\ \vec{\epsilon} & - & \int - & u & - \\ \end{vmatrix} $
French Spanish Italian PortugueseBrazil Portuguese	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1 a	1 e - - - - 1 a t o - 1 a t o -	$ \begin{vmatrix} \vec{\alpha} & - & p & 1 & - & - \\ a & n & tf & - & 0 & - \\ a & m & p & j & 0 & - \\ \vec{\epsilon} & - & f & - & u & - \\ \vec{\epsilon} & - & f & - & u & - \\ \end{vmatrix} $
French Spanish Italian PortugueseBrazil Portuguese Catalan	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	1 a k 3 1 a r y o - 1 a r g o - 1 a k g u -	1 e - - - - 1 a t o - 1 a t o - 1 a t u -	$ \begin{vmatrix} \vec{\alpha} & - & p & 1 & - & - \\ a & n & t t & - & o & - \\ a & m & p & j & o & - \\ \vec{\epsilon} & - & \int - & u & - \\ \end{vmatrix} $
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1 a x 3 1 a r y o - 1 a r g o - 1 a r g u - 1 a r k	1 e - - - - 1 a t o - 1 a t o - 1 a t u -	$ \begin{vmatrix} \vec{\alpha} & - & p & 1 & - & - \\ a & n & tf & - & 0 & - \\ a & m & p & j & 0 & - \\ \vec{\epsilon} & - & f & - & u & - \\ \vec{\epsilon} & - & f & - & u & - \\ \end{vmatrix} $
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1 a k 3 1 a r y o - 1 a r g o - 1 a r g u - 1 a r k	1 e - - - - 1 a t o - - 1 a t o - 1 a t u - 1 a t u - 1 a t u -	$ \begin{vmatrix} \vec{\alpha} & - & p & 1 & - & - \\ a & n & tf & - & 0 & - \\ a & m & p & j & 0 & - \\ \vec{\epsilon} & - & f & - & u & - \\ \vec{\epsilon} & - & f & - & u & - \\ \end{vmatrix} $
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1 a r y o - 1 a r g o - 1 a r g u - 1 a r k - 1 a r g -	1 e - - - - 1 a t o - - 1 a t u - - 1 a t u - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	$ \begin{vmatrix} \vec{\alpha} & - & p & 1 & - & - \\ a & n & t & - & o & - \\ a & m & p & j & o & - \\ \vec{\epsilon} & - & \int & - & u & - \\ \vec{\epsilon} & - & \int & - & u & - \\ a & m & p & 1 & a & - \\ \end{vmatrix} $
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1 a r y o -	1 e - - - - - - - - -	$ \begin{vmatrix} \vec{\alpha} & - & p & 1 & - & - \\ a & n & tf & - & 0 & - \\ a & m & p & j & 0 & - \\ \vec{\epsilon} & - & f & - & u & - \\ \vec{\epsilon} & - & f & - & u & - \\ \vec{a} & m & p & 1 & a & - \end{vmatrix} $
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1 a r y o -	1 e - - - - - - - - -	$ \begin{vmatrix} \vec{\alpha} & - & p & 1 & - & - \\ a & n & tf & - & 0 & - \\ a & m & p & j & 0 & - \\ \vec{\epsilon} & - & f & - & u & - \\ \vec{\epsilon} & - & f & - & u & - \\ a & m & p & 1 & a & - \\ \end{vmatrix} $
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French	1 5 - - - - - - - - -	1 a r y o - 1 a r y o - 1 a r g o - 1 a r g u -	1 e - - - - - - - - -	$ \begin{vmatrix} \vec{\alpha} & - & p & 1 & - & - \\ a & n & tf & - & 0 & - \\ a & m & p & j & 0 & - \\ \vec{\epsilon} & - & f & - & u & - \\ \vec{\epsilon} & - & f & - & u & - \\ a & m & p & 1 & a & - \\ \end{vmatrix} $
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish	1 5 - - - - - - - - -	1 a r y o - 1 a r y o - 1 a r g o - 1 a r g u -	1 e - - - -	$ \begin{vmatrix} \vec{\alpha} & & p & 1 & & & & & & & & & $
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian	1 5 - - - - - - - - -	l a k 3 l a r y o - l a r g o - l a r g u - l a r g u - l a r k l a r g - Heavy-Lurdus l u r d u s l u k l e r d o - l o r d o -	1 e - - -	$ \begin{vmatrix} \vec{\alpha} & & p & 1 & & & & & & & & & $
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazil	1 5 - - - - - - - - -	1 a x 3 1 a r y o - 1 a r g o -	1 e - - -	$ \begin{vmatrix} \vec{\alpha} & & p & 1 & & & & & & & & & $
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazil Portuguese	1 5 - - - - - - - - -	l a k 3 l a r y o - l a r g o - l a r g u - l a r g u - l a r k l a r g - Heavy-Lurdus l u r d u s l u k l e r d o - l o r d o -	1 e - - -	$ \begin{vmatrix} \vec{\alpha} & & p & 1 & & & & & & & & & $
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazil Portuguese Catalan	1 5 - - - - -	1 a x 3 1 a r y o - 1 a r g o -	1 e - - -	$ \begin{vmatrix} \vec{a} & & p & 1 & & & & & & & & & $
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon	1 5 - - - - -	1 a x 3 1 a r y o - 1 a r g o -	1 e - - -	$ \begin{vmatrix} \vec{\alpha} & & p & 1 & & & & & & & & & $
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazil Portuguese Catalan	1 5 - - - - -	1 a x 3 1 a r y o - 1 a r g o -	1 e - - -	$ \begin{vmatrix} \vec{a} & & p & 1 & & & & & & & & & $

	Small-Pittinus	Small-Pitulus	Short	Short-Brevis
Latin	p i t t i n u s	p i - t u l u s	k u r t u s	b r e w i s
French			k u r	p r ε f - -
Spanish	p e - k e p o -		korto-	b r e b e -
Italian	p i t tf i n o -	p i k k o 1 o -	k o r t o -	b r ε v e -
PortugueseBrazil	p e k e n u		k u r t u -	brevi
Portuguese	p i k e n u - -		k u r t u -	brevia -
Catalan			k u r t	b r e w
Walloon			k u:	р в е f – –
Friulian		p i - tf u l - -	k u r t	
Romanian	p u - ts i n - -			
	Narrow	Narrow-Strictus	Thin	Thin-Delicatus
Latin	a n g u s t u s	- s t r - i - k t u s	m i n u: - t u s	d e: l i k a: t u s
French		e - t u w a - - - - -	m ə n y	d u: - - 3 e: - - -
Spanish	a n g o s t o	e s t r - e - - tf o -	$m \mid e \mid n \mid u \mid - \mid d \mid o \mid -$	$ \mathbf{d} \mathbf{e} 1 $ - $ \mathbf{y} \mathbf{a} \mathbf{\delta} \mathbf{o} $ -
Italian	$a \mid n \mid g \mid u \mid s \mid t \mid o \mid$	- s t r - e - t t o -	$ \mathbf{m} \mathbf{i} \mathbf{n} \mathbf{u} - \mathbf{t} \mathbf{o} $	d e 1 i k a t o -
PortugueseBrazil		i s t r - ej - - t u -	$ \mathbf{m} \mathbf{i} - \mathbf{u} - \mathbf{d} \mathbf{u} $ -	d e w - g a d u -
Portuguese		$ \mathbf{i} \int \mathbf{t} \mathbf{r} - \mathbf{e}\mathbf{j} - - \mathbf{t} \mathbf{u} $ -	$ \mathbf{m} \mathbf{i} - \mathbf{u} - \mathbf{\delta} \mathbf{u} -$	$\left d \left \epsilon \right \right $ $\left - \left \gamma \right a \left \delta \right u \right $ $-$
Catalan		a s t r - ε - - t - -	m ə n u - t	d ə l i k a t - -
Walloon		- s t ʁ - ø: - - - - -	m i n u	
Friulian		- s t r - ε - - t - -	m i n u: - t	
Romanian	$ \mathbf{i} \mathbf{g} \mathbf{g} \mathbf{u} \mathbf{s} \mathbf{t} - \mathbf{u} $	- s t r - i m - t - -	$m \mid \mathfrak{d} \mid r \mid u \mid n \mid t \mid - \mid -$	
	Thin-Subtilis	Green	One	Two-Duos
Latin	s u b t i: 1 e m	w i r i d e m	u: n u m	d u o: s
French		v e R - - - -	œ	d - ø -
Spanish	s u - t i 1	b e r - d e -	u n o -	d - o s
Italian				
1	s o t t i 1 e -	v e r - d e -	uno-	
PortugueseBrazil	s o t t i 1 e - s u t i w - - -	v e r - d e - v e r - d i -	$egin{array}{c c c} u & n & o & - \\ \widetilde{\mathbf{u}} & - & - & - \end{array}$	d - oj s
PortugueseBrazil Portuguese	s o t t i 1 e -	$egin{array}{c c c c c c c c c c c c c c c c c c c $		
PortugueseBrazil	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	v e r - d e - v e r - d i - v e r - d i - v ε r - t - -	$ \begin{vmatrix} \mathbf{\tilde{u}} & & - & & - \\ \mathbf{\tilde{u}} & & - & & - \\ \mathbf{u} & & \mathbf{n} & & - \\ \end{vmatrix} $	$\begin{vmatrix} \mathbf{d} & - & \mathbf{oj} & \mathbf{s} \\ \mathbf{d} & - & \mathbf{oj} & \mathbf{f} \\ \mathbf{d} & - & \mathbf{o} & \mathbf{s} \end{vmatrix}$
PortugueseBrazil Portuguese Catalan Walloon	s o t t i 1 e -	v e r - d e - v e r - d i - v ε r - t - v ε β	$ \begin{vmatrix} \tilde{\mathbf{u}} & - - - \\ \tilde{\mathbf{u}} & - - - \\ \mathbf{u} & \mathbf{n} & - - \\ \tilde{\mathbf{o}} & - - - - $	d - oj s d - oj ∫ d - o s d - ø: -
PortugueseBrazil Portuguese Catalan Walloon Friulian	S O t t i 1 e -	v e r - d i -	$ \begin{vmatrix} \mathbf{\tilde{u}} & & - & & - \\ \mathbf{\tilde{u}} & & - & & - \\ \mathbf{u} & & \mathbf{n} & & - \\ \end{vmatrix} $	$ \begin{vmatrix} d & - & oj & s \\ d & - & oj & f \\ d & - & o & s \\ d & - & os & - \\ d & - & oj & - \end{vmatrix} $
PortugueseBrazil Portuguese Catalan Walloon	S O t t i 1 e -	v e r - d e - v e r - d i - v ε r - t - v ε β	$ \begin{vmatrix} \tilde{\mathbf{u}} & - - - \\ \tilde{\mathbf{u}} & - - - \\ \mathbf{u} & \mathbf{n} & - - \\ \tilde{\mathbf{o}} & - - - - $	d - oj s d - oj ∫ d - o s d - ø: - d - oj - d - oj -
PortugueseBrazil Portuguese Catalan Walloon Friulian	S O t t i 1 e -	v e r - d e - v e r - d i - v e r - d i - v ε r - t - v ε r - t - v ε r - d e -	ũ - - - ũ - - - u n - - õ - - u n u - Three	d - oj s d - oj ∫ d - o s d - os - d - oj - Four
PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian	S O t t i 1 e -	v e r - d e - v e r - d i - v e r - d i - v ε r - - - v ε r - t - - v ε r - t - - v e r - d e - v e r - d e - v e r - d e - v e r - d e - v e r - d e -	ũ - - - ũ - - - u n - - õ - - - u n u - Three t r - e: s	d - oj s d - oj f
PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French	s o t t i 1 e -	v e r - d e - v e r - d i - v e r - d i - v ε r - t - v ε r - t - v ε r - d e -	ũ - - - ũ - - - u n - - õ - - u n u - Three	d - oj s d - oj f
PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish	s o t t i 1 e -	v e r - d e - v e r - d i - v e r - d i - v ε r - t - v ε r - t - v ε r - d e -	ũ - - - ũ - - - u n - - ố - - - u n - - u n u - Three t r - e: s t g w a - t r - e s	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian	s o t t i 1 e -	v e r - d e - v e r - d i - v e r - d i - v e r - d i - v e r - d i - v e r - t - v e r - t - v e r - d e -	ũ - - - ũ - - u n - - õ - - - u n - - u n u - Three t r - e s t r - e s t r - e s t r - e -	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazil	s o t t i 1 e -	v e r - d e - v e r - d i - v e r - d i - v e r - d i - v e r - d i - v e r - t - v e r - t - v e r - d e - Two-Duas d u e s	ũ - - - - -	d - oj s
PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazil Portuguese	s o t t i 1 e -	v e r - d e - v e r - d i - v e r - d i - v e r - d i - v e r - d i - v e r - t - v e r - t - v e r - d e -	ŭ u n o u n u n u t r - e: s t w a t r - e s t r - e s t r - e s	d - oj s d - oj ∫ d - o s d - o s d - oj - d - oj - d - oj - Four kw - a t t w o r - k - a - t r o k w a t t r o k w a - t - r u k w a - t - r u
PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazil Portuguese Catalan	s o t t i 1 e -	v e r - d e - v e r - d i - v e r - d i - v e r - d i - v e r - d i - v e r - t - v e r - t - v e r - d e - Two-Duas d u e s	ŭ u n o u n u n u t r - e: s t w a t r - e s t r - e s t r - e s t r - e s t r - e s	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon	s o t t i 1 e -	v e r - d e - v e r - d i - v e r - d i - v e r - d i - v e r - d i - v e r - t - v e r - t - v e r - d e - Two-Duas d u e s	ũ u n o u n u t r - e: s t s w a t r - e s t r - e s t r - e s t r - e s t r - e s t r - e s t r - e s	d - oj s d - oj f d - o s d - o s d - oj - d - oj - Four kw - a t t w o r - k - a - t r o k w a - t r u k w a - t r u k w a - t r u k w a - t r s k w a - t r -
PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazil Portuguese Catalan	s o t t i 1 e -	v e r - d e - v e r - d i - v e r - d i - v e r - d i - v e r - d i - v e r - t - v e r - t - v e r - d e - Two-Duas d u e s	ŭ u n o u n u n u t r - e: s t w a t r - e s t r - e s t r - e s t r - e s t r - e s	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

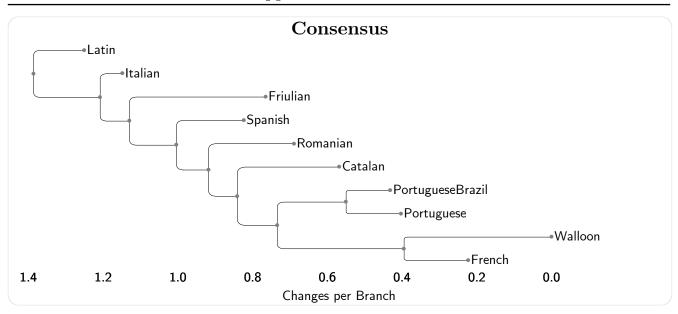
	Five	Here	There	There-Ibi
Latin	k ^w i: n k ^w - e	e k k u m h i: k	i 1 1 a: k	i b i:
French	s e - k - -	i - - s - - i -	- - 1 a -	
Spanish	$\theta \mid i \mid n \mid k \mid - \mid o$	- a - k - - i -	a - j a -	
Italian	tf i n k w e	- - - k w - - i -	- - 1 a -	- v i
PortugueseBrazil	$ \mathbf{s} \mathbf{\tilde{i}} - \mathbf{k} - \mathbf{u} $	- a - k - - i -	- - 1 a -	
Portuguese	$ \mathbf{s} \mathbf{\tilde{i}} - \mathbf{k} - \mathbf{u} $	- e - k - - i -	- - 1 a -	
Catalan	s i ŋ k - -	- a - k i -	$ \mathbf{a} - \mathbf{\Lambda} \mathbf{a} $	
Walloon	$ \mathbf{s} \mathbf{\tilde{e}} - \mathbf{k} - \mathbf{r} $		- - 1 a -	
Friulian	$ \mathfrak{t} i \mathfrak{g} k - -$	- a - k - - i -		
Romanian	$ \mathfrak{t} i n \mathfrak{t} - -$		- - 1 a -	
	There-Adlbi	Who-Qui	Who-Quem	What
Latin		k ^w - i s	k ^w - e m -	$ \mathbf{k}^{\mathbf{w}} - \mathbf{i} d$
French				k w a -
Spanish	a i		k j e n -	
Italian				k - e -
PortugueseBrazil	a i		k - ej	
Portuguese	i g		k - ej	
Catalan				$ \mathbf{k} - \mathbf{\epsilon} $
Walloon				k w e: -
Friulian		k w i -		tf - e -
Romanian			ff - i n e	tf - e -
	When-Quando	How-Quomodo	Not	Not-Nec
Latin	$ \mathbf{k}^{\mathbf{w}} - \mathbf{a} \mathbf{n} \mathbf{d} \mathbf{o} $	kwo: modo	n o: n	n e k
French	k - ã - - -	k 3 m	$ \mathbf{n} \tilde{\mathfrak{o}} $	n i -
Spanish	k w a n d o	k o m o	n o -	n i -
Italian	k w a n d o	k o m e	n o n	n e -
PortugueseBrazil	$ \mathbf{k} \mathbf{w} \tilde{\mathbf{e}} - \mathbf{d} \mathbf{u}$	k o m u	$n \mid \tilde{e} \mid \tilde{w}$	n [ej] -
Portuguese	$ \mathbf{k} \mathbf{w} \tilde{\mathbf{e}} - \mathbf{d} \mathbf{u}$	k o m u	n e w	n ej -
Catalan	k w a n - -	k p m - - -	n o -	n i -
Walloon Friulian	k w a n d -	$k \mid \mathfrak{d} \mid m \mid \tilde{\epsilon} \mid - \mid -$	n o -	$ n \tilde{e} $ -
Romanian	k w a n t - k - i n d -		n u -	
Nomaman	And-Et	And-Si	II U -	
Latin	e t	s i: k		
French	e -	U I II IX		
Spanish	i -			
Italian	e			
PortugueseBrazil	i -			
Portuguese	i -			
Catalan	i -			
Walloon	ε			
Friulian	e -			
Romanian	e -	∫ i -		

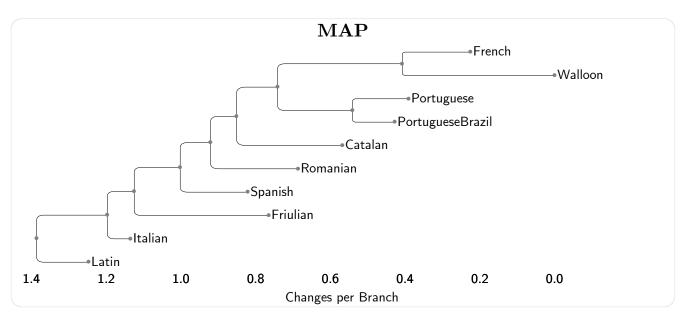
Appendix 4 - Results





Appendix 4 - Results





Appendix 4 - Results

