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) e	e: e

2) i i i:

3) a a a:

4) u u u:

5) o 0 0

6) ε ε 7)

Ø

8) Nasal Vowel $\tilde{\alpha}$ \tilde{i} \tilde{e} \tilde{e} \tilde{i} \tilde{e} \tilde{i} \tilde{e} \tilde{i} \tilde{e} \tilde{i} \tilde{e} \tilde{e} \tilde{i} \tilde{e} \tilde{e}

9) Vowel z œ σ ə oa i aj ej ej au ij α y iw σj oj ea ej I

Ø

10) Nasal Consonant mnŋŋ

11) Non Sylabic Sonorant jlr w

12) Consonant f b r x Λ r d t r s p z \int δ k ts θ h v c β r 4 q dz r dz

 $g^w R k^j 3 J y k^w$

	Woman-Primary	Woman-Mulier	Woman-Domina	Child-Primary
Latin	f e: - m i - n - a	m u 1 i e r e m	d o m i n a	i n f a n t e m
French	f a - m		d a m	$ \tilde{\mathfrak{a}} - f \tilde{\mathfrak{a}} - - - - $
Spanish	- e - m - b r - a	m u x - e r	d o n a	i n f a n t e -
Italian	f e m m i - n - a	тоббе	d o n - n a	- - f a n t e -
PortugueseBrazil	f e - m e e	т и Л - е в	d o n e	$ \tilde{i} - f \tilde{e} - f i -$
Portuguese	f e - m j e	m u k - e r	d o n e	$\tilde{i} - f \tilde{e} - t \tilde{i} -$
Catalan	fe-m-br-a	m u K - e	d o n ə	
Walloon	f œ - m		d a m	$ \epsilon $ - $ f $ $ \tilde{a} $ - $ - $ - $ - $
Friulian	f ε - m i - n - e	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	
	- - 3 -	1 12 1 19 12 1 12 1		
	Child-Ninnus	Wife-Primary	Husband-Primary	Husband-Sponsus
Latin		- s p o n s a	m a r i: t u s	- s p o n s u s
French		e - p u - z -	таві	e - p u
Spanish	n i n o	e s p o - s a	m a r i ð o -	e s p o - s o -
Italian	n i n o	- s p o - z a	m a r i t o -	- s p o - z o -
PortugueseBrazil		i s p o - z a	m a r i d u -	i s p o - z u -
Portuguese	n e n ej	i f p o - z e	m e r i ð u -	$\frac{1}{2} \int p o - z u -$
Catalan	n e n -	$\begin{vmatrix} \mathbf{a} & \mathbf{s} & \mathbf{p} & \mathbf{a} \end{vmatrix} - \begin{vmatrix} \mathbf{z} & \mathbf{a} \end{vmatrix}$	m a r i t	
Walloon				
Friulian	$ \mathbf{n} \mathbf{i} \mathbf{n} \mathbf{i} $	- s p o - s e	m a r i: t	- s p o: - s - -
Romanian			m ə r i t	
	Husband-Socius	Mother-Primary	Father-Primary	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	Б 6 - В -	
Spanish		m a ð r e -	p a ð r e	t a t a
Italian		m a d r e -	p a d r e	t a t a
PortugueseBrazil		m ej	p aj	t a t a
Portuguese		m vj	p aj	t a t a
Catalan		ma-rə-	pa-rə	
Walloon		m e - r	$p \mid \epsilon \mid - \mid r \mid -$	
Friulian		m a - r i -	p a - r i	t a t e
Romanian	s o ts	A : 15 ()	E: 1 B: 1	t a t ə
Letin	Animal-Primary	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	
French	o m a - j -			p w a s õ
Spanish Italian	a 1 i m a n - a	h ; f f -	$p \mid e \mid \theta \mid - \mid - \mid - \mid$	
PortugueseBrazil			peffe	
Portuguese		b - i - f - e	p ej	
Catalan			p e	
Walloon		h i c c	P C J - - -	$ p - \epsilon h \tilde{o} $
LV V CHILUULI		0 1 6 9		P E II U
li .	- n e m a 1	h - i s	n g g	
Friulian Romanian	- n e m a: 1 n ə m a - j e	$egin{array}{ c c c c c c c c c c c c c c c c c c c$	$egin{array}{c c c c c c c c c c c c c c c c c c c $	

	Bird-Avem	Bird-Aucellum	Bird-Passerem	Dog-Primary
Latin	a w e m	- a k - e l l u s	p a s s e r e m	k - a n e m
		u u		
French		$\mathbf{w} \stackrel{\mathbf{a}}{\mathbf{a}} \mathbf{z} - \mathbf{o}$		$\int \mathbf{j} \tilde{\mathbf{\epsilon}} - - - $
Spanish	a b e -		p a - x a r o -	k - a n
Italian	a b c	- u t tf ε 1 1 o -	p a s s e r o -	k - a n e -
PortugueseBrazil	0 11 1	$- u t y \epsilon 1 1 0 $	A .	
Portuguesebrazii	a v 1 -		p a - s e r u -	
Desta	1 1 1 1			$egin{array}{c ccccccccccccccccccccccccccccccccccc$
Portuguese	a v i		pa-seru-	
				$\widetilde{\mathbf{w}}$
Catalan	$ \mathbf{a} \mathbf{w} $ - $ $ -	- u s - e - K		k - a
Walloon		- u h - ε		tf - ε̃ - - -
Friulian		$-\left \mathbf{u}\left \mathbf{tf}\right \mathbf{j}\left \mathbf{\epsilon}\right -\left 1\right -\left \mathbf{r}\right $	p a - s a r	c - a n - -
Romanian			p a - s ə r e -	k - ij n e -
	Louse-Primary	Snake-Primary	Worm-Primary	Tree-Primary
Latin	p - e d u - k 1 u s		nw - e r m e m	a r b o r e m
French	p - u	s - e в р - а	- v - e в - - -	a r p - r
Spanish	p j o x - o -	s - e r p j e n t e	- b - e r m e -	a r β o 1
Italian	p - i d o k k j o -	s - e r p - e n t e	v - e r m e -	a l b e r o -
PortugueseBrazil	p - i - o - \lambda u	s - e R b - e - f i		a k v o t i -
Portuguese	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{bmatrix} \mathbf{s} & \mathbf{i} & \mathbf{r} & \mathbf{p} \end{bmatrix} - \begin{bmatrix} \mathbf{e} & \mathbf{g} & \mathbf{i} \\ \mathbf{e} & \mathbf{t} & \mathbf{i} \end{bmatrix}$	v - e r m i -	a r v u r i -
Catalan	•		ν - ε r m	a - b - r ə -
Walloon	A			
			, J	
Friulian	p - e d o: - 1 i	s - a r p - i n t -		a r b u 1
Romanian	p - ə d u - k j e -	<u> </u>		a r b o r e -
1 (Forest-Primary	Stick-Primary	Fruit-Primary	Seed-Primary
Latin	s i l w a	p a: 1 u s	f r u: - k t u s	s e: m e n
French	s i 1 w a	p a: 1 u s p a 1	f r u: - k t u s f в q i	
French Spanish	s i 1 w a s e 1 b a	p a: 1 u s p a 1 p a 1 o -	f r u: - k t u s f r u i f r u t o -	s e: m e n
French Spanish Italian	s i 1 w a s e 1 b a s e 1 v a	p a: 1 u s p a 1 p a 1 o - p a 1 o -	f r u: - k t u s f r u i f r u t o - f r u - t t o -	
French Spanish	s i 1 w a s e 1 b a	p a: 1 u s p a 1 p a 1 o -	f r u: - k t u s f r u t o - f r u - t t o - f r u t e -	s e: m e n
French Spanish Italian	s i 1 w a s e 1 b a s e 1 v a	p a: 1 u s p a 1 p a 1 o - p a 1 o -	f r u: - k t u s f r u i f r u t o - f r u - t t o -	s e: m e n
French Spanish Italian PortugueseBrazil	s i 1 w a s e 1 b a s e 1 v a s ε w v a	p a: 1 u s p a 1 p a 1 o - p a 1 o - p a w	f r u: - k t u s f x u i f r u t o - f r u - t t o - f r u t e -	s e: m e n
French Spanish Italian PortugueseBrazil Portuguese	s i l w a s e l b a s e l v a s e l v e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e	p a: 1 u s p a 1 p a 1 o - p a 1 o - p a w p a w	f r u: - k t u s f r u i f r u t o - f r u - t t o - f r u - t e - f r u j - t -	s e: m e n
French Spanish Italian PortugueseBrazil Portuguese Catalan	s i l w a s e l b a s e l v a s e l v e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e e	p a: 1 u s p a 1 p a 1 o - p a 1 o - p a w p a u - p a 1 p a u	f r u: - k t u s f r u i f r u t o - f r u - t t o - f r u - t e - f r u j - t -	s e: m e n
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon	S I W A S E I D A S E I V A S E K V V S E I D A	p a: 1 u s p a 1 p a 1 o - p a 1 o - p a w p a 1 p a 1 p a 1 p a 1 p a: 1	f r u: - k t u s f s y i f r u - t o - f r u - t t o - f r u - t e - f r u j - t - f r y - t - f r u - t -	s e: m e n
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French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian	s i l w a s e l b a s e l v a s e l v e s e l b a s e l v e Seed-Sementis	p a: 1 u s p a 1 p a 1 o - p a 1 o - p a w p a w p a 1 p a 1 p a 1 p a 1 p a 1 Seed-Granum	f r u: - k t u s f x y i f r u t o - f r u - t t o - f r u - t t o - f r u - t t - f r u - t t - f r u - t - t - f r u - t - t - f r u - t - t - f r u - t - t - f r u - t - t - f r u - t - t - f r u - t	s e m e n s e m e -
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin	S i l w a	p a: 1 u s p a 1 p a 1 o - p a 1 o - p a w p a w p a 1 p a 1 p a: 1 p a: 1 p a r Seed-Granum g r a: n u m	f r u: - k t u s f x y i f r u t o - f r u - t t o - f r u - t t o - f r u - t t - f r u - t t - f r u - t - f r u - t - f r u - t - f r u - t - f r u - t - f r u - t - f r u - t - f r u - t - f r u - t - f r u - t - f r u - t - f r u - t - f r u - t - f r u - t -	s e: m e n
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French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish	S i l w a	p a: 1 u s p a 1 σ p a 1 σ p a 1 σ p a w σ p a w σ p a w σ p a 1 σ p a 1 σ p a 1 σ p a 1 σ p a σ p a σ p a σ p a σ p a σ	f r u: - k t u s f x y i f r u - t o - f r u - t t o - f r u - t e - f r u j - t - f r u - t - f r u - t - f r u - t e - f r u - t - f r u - t - f r u - t - f r u - a t - f r u - a t - f r u - a t - f r u - a t - f r u - a t - f r u - a t - g r u - a t - g r u - a t - g r u - a t - g r u - a t - g r u - a t - g r u - a t - g r u - a t - g r u - a t - g r u - a t - g r u - a t - g r u - a t - g r u - a t - g r u - a t - g r u - a t - g r u - a t - a	s e m e n s e m e -
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian	S i l w a	p a: 1 u s p a 1 p a 1 o - p a 1 o - p a w p a w p a 1 p a 1 p a 1 p a 1 p a 1 g a r Seed-Granum g r a: n u m g s ε n g r a n o - g r a n o -	f r u: - k t u s f x y i f r u - t o - f r u - t t o - f r u - t e - f r u j - t - f r u - t - f r u - t - f r u - t e - f r u - t - f r u - t - f r u - t - f r u - t - f r u - t - f r u - t - f r u - t - f r u - t - f r u - t - f r u - t - f r u - k t Leaf-Primary f - o l i a f - ce j o x - a f - o K A a	s e: m e n
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish	S i l w a	p a: 1 u s p a 1 p a 1 o - p a 1 o - p a w p a w p a 1 p a 1 p a 1 p a 1 p a 1 g α α π ο - g α α π ο - g α α π ο - g α α π ο - g α α π ο - g α α π ο - g α α π ο - g α α π ο - g α α π ο -	f r u: - k t u s f x y i f r u - t o - f r u - t t o - f r u - t e - f r u j - t - f r u - t - f r u - t - f r u - t e - f r u - t - f r u - t - f r u - t - f r u - a t - f r u - a t - f r u - a t - f r u - a t - f r u - a t - f r u - a t - g r u - a t - g r u - a t - g r u - a t - g r u - a t - g r u - a t - g r u - a t - g r u - a t - g r u - a t - g r u - a t - g r u - a t - g r u - a t - g r u - a t - g r u - a t - g r u - a t - g r u - a t - a	s e m e n s e m e -
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazil	S E I W A S E I V A S E I V E S E I V E S E M - E C T T T T T T T T T	p a: 1 u s p a 1 p a 1 o - p a 1 o - p a w p a w p a 1 p a 1 p a 1 p a 1 p a 1 g r a: n u m g s ε n g r a n o - g r a n o - g r e w w	f r u: - k t u s f k y i f r u t o - f r u t e - f r u t e - f r u j - t f r u t f r u t f r u t f r u t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - k t	s e: m e n
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian	S i l w a	p a: 1 u s p a 1 p a 1 o - p a 1 o - p a w p a w p a 1 p a 1 p a 1 p a 1 p a 1 g a a n o - g a n o - g a n o - g a n o - g a n o - g a n o - g a n o - g a n o -	f r u: - k t u s f x y i f r u - t o - f r u - t t o - f r u - t e - f r u j - t - f r u - t - f r u - t - f r u - t e - f r u - t - f r u - t - f r u - t - f r u - t - f r u - t - f r u - t - f r u - t - f r u - t - f r u - t - f r u - t - f r u - k t Leaf-Primary f - o l i a f - ce j o x - a f - o K A a	s e: m e n
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazil Portuguese	S i l w a S e l b a S e l v a S E k v v s e l b a S E l v e Seed-Sementis S e m - e n t i s s s m - e n t e - s e m - e n t e - s e m - e n t e - s e m - e n t e - s e m - e n t e - s e m - e n t e - s e m - e n t e - s e m - e n t e - s e m - e e t e - t f i - s e m - e e t e t e - s e m - e e t e - t f e - t f e - t f e - t f e - t f e - t f e - t f e - t f e - t f f e - t f f e - t f f e - t f f e - t f f e - t f f f e - t f f f e - t f f f e - t f f f f f f f f f	p a: 1 u s p a 1 o - p a 1 o - p a 1 o - p a w p a w p a w p a 1 p a 1 p a 1 p a 1 p a 1 g a 1 g a 1 g a 1 g a 1 g a 1 g a 1 g a 1 g a 1 g a 1 g a 2 g a 3 g a 5 w g a 6 w	f r u: - k t u s f k y i f r u t o - f r u - t t o - f r u - t e - f r u - t e - f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - k t Leaf-Primary f - o l i a f - ce j o x - a f - o K - e	s e: m e n
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazil Portuguese Catalan	S i l w a	p a: 1 u s p a 1 p a 1 o - p a 1 o - p a w p a w p a l p a l p a l p a l p a l g a l g r a: n u m g s s n g r a n o - g r e w g g r e w g g r a	f r u: - k t u s f k y i f r u t o - f r u - t t o - f r u - t t o - f r u - t t o - f r u - t t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u t e f r u - t f r u - t f r u t e f r u - t f r u t e f r u t e f - o X - e f - o X - e	s e: m e n
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon	S i l w a	p a: 1 u s p a 1 p a 1 o - p a 1 o - p a w p a w p a 1 p a 1 p a 1 p a 1 p a 1 p a 1 g a a g a a n o - g a n o - g a n o - g a n o - g a n o - g a n o - g a n o - g a n o - g a n o - g a n o - g a n o - g a n o - g a n o - g a n o - g a n o -	f r u: - k t u s f k y i f r u t o - f r u t e - f r u t e - f r u t e - f r u t f r u t f r u t f r u t f r u t f r u t f r u t f r u t f r u t f r u t f r u t f r u t f r u t f r u t f r u t f r u t f r u t f r u t f r u t f r u t f r u t f r u	s e: m e n
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian	S I W A	p a: 1 u s p a 1 o - p a 1 o - p a 1 o - p a w p a w p a w p a l p a l p a l p a l p a l p a l p a l p a l p a l p a l p a l p a l p a l p a l p a l p a l p a l p a l p a l p a l p a l p a l p a l p a l p a l p a l p a l p a l p a l p a l p a l p a l p a l p a l p a l p a l p a l p a l p a l	f r u: - k t u s f x y i f r u t o - f r u - t t o - f r u - t t o - f r u - t t o - f r u - t t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t f r u - t	s e: m e n
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon	S i l w a	p a: 1 u s p a 1 p a 1 o - p a 1 o - p a w p a w p a 1 p a 1 p a 1 p a 1 p a 1 p a 1 g a a g a a n o - g a n o - g a n o - g a n o - g a n o - g a n o - g a n o - g a n o - g a n o - g a n o - g a n o - g a n o - g a n o - g a n o - g a n o -	f r u: - k t u s f k y i f r u t o - f r u t e - f r u t e - f r u t e - f r u t f r u t f r u t f r u t f r u t f r u t f r u t f r u t f r u t f r u t f r u t f r u t f r u t f r u t f r u t f r u t f r u t f r u t f r u t f r u t f r u t f r u	s e: m e n

	Root-Primary	Root-Radicina	BarkOfATree-Primary	BarkOfATree-Corticea
Latin	- r a: d - i: k e m	r a: d i: k i: n a	k o r t i k e m	k o r t i - k e a
French		в a s i n -		
Spanish	- r a - - i θ - -			k o r t e - θ - a
Italian				kortetta-
PortugueseBrazil	- B a - - i s - -		k o k f i s i -	k о к t i - s в -
Portuguese	- R B i 2		kortisi -	kurti-se-
Catalan	ə r ε l			K U I L I - S E -
Walloon	9 1 8 1 - - - - -			
	1 1 1 1	$r \mid \epsilon \mid - \mid - \mid s \mid \epsilon \mid n \mid -$		
Friulian	- r a d r i: s - -			
Romanian		r ə d ə ff i n ə		
	BarkOfATree-Skortea	Flower-Primary	Grass-Primary	Grass-Gramen
Latin	- s k - o r t e a	f l o: r e m	- h e r b a	g r a: m e n
French	e - k - о в s - -	f 1 œ в	- - \varepsilon \mathbf{R} \mathbf{P} -	g κ a m ε n
Spanish		f 1 o r	j - e r b a	g r a m a -
Italian	- s k - o r ts - a	f j o r e -	- - ε r b a	
PortugueseBrazil		f 1 o R - -	- - e r v s	g r e m e -
Portuguese		f 1 o r	9 V 1 3	greme-
Catalan	ə s k - o r s - ə	f 1 5	- - e r b ə	gram
Walloon	- h - w ε - s	f 1 œ r	$ \mathbf{j} - \mathbf{\epsilon} - \mathbf{p} -$	
Friulian	- s k w a r tf - e	f 1 o: r	j - e r b e	g r a m e -
Romanian	- s k - oa r ts - ə	floare -	j - a r b ə	
Tomanian	J K Qu'I B G		J	
	Rope-Primary	Rope-Restis	Skin-Primary	Skin-Pellis
Latin	f u: n - e m	r e s t e m	_	p - e 1 1 e m
French			k w a n - n -	p - o - - - -
Spanish		r - i s t a		p j e - 1
Italian	f u n - e -	r - ε s t a	k - o t e n n a	p - e 1 1 e -
PortugueseBrazil		R - ε l t i	k - o dz i e	$\begin{vmatrix} \mathbf{r} \\ \mathbf{p} \end{vmatrix} - \begin{vmatrix} \mathbf{\epsilon} \\ \mathbf{r} \end{vmatrix} - \begin{vmatrix} \mathbf{l} \\ \mathbf{i} \end{vmatrix} - \begin{vmatrix} \mathbf{r} \\ \mathbf{r} \end{vmatrix}$
Portuguese		$\mathbf{R} - \mathbf{e} \int_{\mathbf{r}} \mathbf{t} \cdot \mathbf{i}$	k - o d i e	$\begin{vmatrix} \mathbf{r} \\ \mathbf{p} \end{vmatrix} - \begin{vmatrix} \mathbf{e} \\ \mathbf{e} \end{vmatrix} - \begin{vmatrix} \mathbf{l} \\ \mathbf{i} \end{vmatrix} - \begin{vmatrix} \mathbf{e} \\ \mathbf{i} \end{vmatrix}$
Catalan			k - o n n ə	$\begin{vmatrix} \mathbf{p} \\ \mathbf{p} \end{vmatrix} - \begin{vmatrix} \mathbf{e} \\ \mathbf{e} \end{vmatrix} - \begin{vmatrix} \mathbf{f} \\ \mathbf{f} \end{vmatrix} - \begin{vmatrix} \mathbf{e} \\ \mathbf{f} \end{vmatrix} - \begin{vmatrix} \mathbf{f} \\ \mathbf{f} \end{vmatrix} - \begin{vmatrix} \mathbf{e} \\ \mathbf{f} \end{vmatrix} - \begin{vmatrix} \mathbf{f} \\ \mathbf$
Walloon			k oj i n n -	
Friulian		r j e s t e	K OJ I II	
Romanian	f u n j e -	1 1 5 5 1 5		
1 VIII al II al II		Pland Primary	Pono Drimon	
L = 40=	Meat-Primary	Blood-Primary	Bone-Primary	FatNoun-Primary
Latin	k a r n e m	s a n g ^w - i n e m	- o s s u m	a d e p e m
French		s a	- o - s - -	
Spanish				
	karne-	s a ŋ g r e -	w e - s o -	
Italian	k a r n e -	s a n g w e	- 3 S S O -	a d i p e -
PortugueseBrazil	k a r n i -	$\begin{bmatrix} s & \tilde{e} \\ \tilde{e} \end{bmatrix} - \begin{bmatrix} g \\ g \end{bmatrix} - \begin{bmatrix} i \\ \vdots \end{bmatrix} - \begin{bmatrix} - \end{bmatrix} - \begin{bmatrix} - \end{bmatrix}$	- o - s u -	
Portuguese	k a r n i -	$ \mathbf{s} \tilde{\mathbf{e}} - \mathbf{g} - \mathbf{i} - - - $	- o - s u -	
Catalan	k a r n	s a n	- 3 - s	
Walloon	tf a r - - -	s 3 - g - - - - -	- ɔ - h ɛ -	
Friulian Romanian	c a: r k a r n e -	s a n k s i n d - e	w ε - s	

	FatNoun-Crassia	Egg-Primary	Horn-Primary	Tail-Primary
Latin		o: w u m	k - o r n u:	k a d a
				u u
French	d R ε s -	- œ f - -	k - э в п -	$ \mathbf{k} \hat{\mathbf{o}} $ - -
Spanish	g r a s a	w e b o -	k w e r n o	k o l a
Italian		w o v o -	k - o r n o	k o d a
PortugueseBrazil	g r a f e	- o v u -	k - o в n u	k a d e
o o				u u
Portuguese	g r a f e	- o v u -	k - o r n u	k a d e
				ų
Catalan	gref-	- o w	k - o r n -	k u - a
Walloon	k r o h -	- u - - -	k w ε - n -	k 3 w -
Friulian	g r a s -	- u: f - -	k w a r	k σ d ε
Romanian		- o w	k - o r n -	c oa d ə
	Feather-Primary	Feather-Penna	Hair-Primary	Hair-Capillus
Latin	p l u: m a	p e n n a	p - i 1 u s	k a p i l l u s
French	p 1 y m -	$p \mid \epsilon \mid - \mid n \mid -$	p w a 1	$\int \left \begin{array}{c c c c c c c c c c c c c c c c c c c $
Spanish	p l u m a	pe-na	p - e 1 o -	k a b e - j o -
Italian	p j u m a	p e n n a	p - e 1 o -	k a p e 1 1 o -
PortugueseBrazil		p e - n e	p - e 1 u -	k a b e - l u -
Portuguese		pe-ne	p - i 1 u -	k e β e - 1 u -
Catalan	p 1 o m ə	$p \mid \epsilon \mid - \mid p \mid \vartheta$	p - ε 1 - -	k θ ε - λ - -
Walloon	p 1 o m -	$p \mid \epsilon \mid - \mid n \mid -$		dg - v ε - - -
Friulian	$ \mathbf{p} 1 \mathbf{u} \mathbf{m} \boldsymbol{\varepsilon}$	$p \mid \epsilon \mid - \mid n \mid e$	p - e: 1	c a v e 1 - - -
Romanian		pa-nə	p - a r - -	
	Head-Primary	Head-Testa	Ear-Primary	Eye-Primary
Latin	k a p i - t i a	t e s t a	o: r i - k l a	- o - k u 1 u s
French	$\int_{0}^{\infty} \left \frac{\partial}{\partial x} \right \left \frac{\partial}{\partial x} \right = \left \frac{\partial}{\partial x} \right \left \frac{\partial}{\partial x} \right = \left \frac$	t ε - t -	о в еј	- œ - j
Spanish	$k \mid a \mid \beta \mid e \mid - \mid \theta \mid - \mid a$		ore-x-a	- O - X - O
Italian	k a v e t t s a	t ε s t a	o r e k k j a	- o k k - j o -
PortugueseBrazil	k a b e - s - e	t e s t e	o r e Y s	- o - - \lambda u -
Portuguese	k e β e - s - e	$ t \epsilon \int t \epsilon$	o r ej k e	- o - - \Lambda u -
Catalan	k a p	t e s t ə	u r ε λ ə	
Walloon		$ t \epsilon s - -$	3 R εj	- u - j - - - -
Friulian	$\begin{bmatrix} c & a & v & \varepsilon & - & t \end{bmatrix} - \begin{bmatrix} - & - & t \end{bmatrix}$	t ε s t e	o r e: 1 e	v o 1 i
Romanian	k a p	ts ea s t ə	u r e - k - e	- o - k ^j - - - -
L office	Nose-Primary	Nose-Nares	Mouth-Primary	Mouth-Gula
Latin	n a: s u s		b u k k a	g u l a
French	n e		b u - 5 -	g œ 1 -
Spanish	n a s o -	n a r i θ -	b o - k a	g o l a
Italian	n a: s o -	n a r i tf e	b o k k a	g o l a
PortugueseBrazil		n a f i s -	b o - k e	
Portuguese		n g r i J -	b o - k e	
Catalan	n a s	n a: r I s -	b o - k ə	g o l ə
Walloon	n e		b o - k -	g œ j -
Friulian	n a: s		$\begin{vmatrix} b & c \end{vmatrix} = \begin{vmatrix} c & \epsilon \end{vmatrix}$	g 2 1 e
Romanian	n a s		b u - k ə	g u r ə

	Tooth-Primary	Fingernail-Primary	Foot-Primary	Leg-Gamba
Latin	d - e n t e m	u n g - u 1 a	p - e - d e m	g a m b a
French	$ \mathbf{d} - \tilde{\mathbf{\alpha}} - - - -$	$\left \tilde{o} \right - \left \tilde{g} \right - \left - \right 1 \left - \right $	p j e	$\begin{vmatrix} 3 & \tilde{\alpha} \end{vmatrix} - \begin{vmatrix} b & - \end{vmatrix}$
Spanish	d j e n t e -	u n a	p j e	g a m b a
Italian	d - ε n t e -	u n g j a	$p \mid j \mid \epsilon \mid - \mid d \mid e \mid -$	g a m b a
PortugueseBrazil	d - ē - tf i -	u n e	$\begin{vmatrix} \mathbf{r} \\ \mathbf{p} \end{vmatrix} - \mathbf{\varepsilon} - - - -$	
Portuguese	d - e - t i -	u n - - - e	p - ε	
Catalan		13 1 1 1 1 1	$ \mathbf{p} - \mathbf{\epsilon} \mathbf{w} - - - $	k a m b ə
Walloon	$\left d \right - \left \widetilde{\epsilon} \right - \left - \right - \left - \right $	$\left \tilde{\mathfrak{I}} \right - \left g \right - \left - \right - \left - \right $	p - i	$dg \tilde{a} - p -$
Friulian	d - i n t	$\mathfrak{p} = \mathfrak{p} = $	p - i: - t	f a m b e
Romanian	d - i n t e -	u n g j e	p i e - z	g a m b ə
	Leg-Perna	Leg-Petiolus	Knee-Genuculum	Hand-Primary
Latin	p - e r n a	p e - t i o 1 u s		mm a n u m
French	F	F - - - - - - - - -	3 - ə n u	m
Spanish	p j e r n a	p e - θ i o 1 o -		m a n o -
Italian	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	p i t t - 2 1 0 -	dz - i n o k k - j o	
PortugueseBrazil		P - - - - - - -	3 u e \lambda u	
	r 0 2 11 0		J	$\widetilde{\widetilde{W}}$
Portuguese	p - e r n e		3 w e 6 u	
. ortagaccc	P 0 1 11 0			$\widetilde{\widetilde{w}}$
Catalan	$ \mathbf{p} - \mathbf{\epsilon} \mathbf{r} \mathbf{n} \mathbf{e}$		3 - 9 n 0 - -	-
Walloon	P 0 1 11 0		n n o	$-\mathbf{m} \mid \tilde{\mathbf{\epsilon}} \mid - \mid - \mid - \mid$
Friulian		p ε - k - σ 1 - -		m a n
Romanian		p i - tf j o r	dg - e n u n k ^j	m i n ə -
	Wing-Primary	Belly-Primary	Belly-Pantex	Guts-Primary
Latin	a: 1 a	w - e n t r e m	p a n t i k e m	i n t e r a: n e a
French	e 1 -	v - a - t b	$\begin{vmatrix} \mathbf{r} & \mathbf{r} & \mathbf{r} & \mathbf{r} & \mathbf{r} & \mathbf{r} \end{vmatrix}$	а - t - в a - j -
Spanish	a l a	bjentre-	p a n θ a -	e n t - r a n - a
Italian	a l a		p a n tf - a -	3
PortugueseBrazil	a		$\begin{vmatrix} \mathbf{r} \\ \mathbf{p} \end{vmatrix} = \begin{vmatrix} \mathbf{r} \\ \mathbf{s} \end{vmatrix} - \begin{vmatrix} \mathbf{r} \\ \mathbf{s} \end{vmatrix} = \begin{vmatrix} \mathbf{r} \\ \mathbf{r} \end{vmatrix} = \begin{vmatrix} \mathbf{r} \\ \mathbf{r} \end{vmatrix}$	î - t - r ê n - e
Portuguese	a		p	e - t - r e n - e
Catalan	a 1 ə	b - e n t r ə -	$p \mid a \mid p \mid f \mid - \mid - \mid a \mid -$	ənt-ran-ə
Walloon	e 1 -	$ v - \tilde{\epsilon} - t - - $	$p \mid \tilde{\alpha} \mid - \mid s \mid - \mid - \mid - \mid - \mid$	3
Friulian	a l e	v - i n t r i -	p a n ts e -	
Romanian		v - i n t r e -	p i n t e f e -	
	Neck-Primary	Back-Primary	Back-Spatula	Breast-Primary
Latin	k - o 1 1 u m	d - o r s u m	- s p a t u l a	s i n u s
French	k - u	d - o - - -	e - p o - 1 - 1 -	s e - - -
Spanish	k w e - j o -		e s p a 1 - d a	s e n o -
Italian	9		1 1 1	
Italiali	k - o 1 1 o -	d - o s s o -	- s p a I - I a	seno-
		d - o s c - b	- s р a 1 - 1 a i f р a d w - в	
PortugueseBrazil	k - o - 1 u -	d - 3 s s o -	$i \mid \int \mid p \mid a \mid d \mid w \mid - \mid e$	s ej - u -
PortugueseBrazil Portuguese	k		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	s ej - u - s ej - u -
PortugueseBrazil Portuguese Catalan	k - 0 - 1 u -	d - o - s - -	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	s ej - u -
PortugueseBrazil Portuguese Catalan Walloon	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	d - o - s - - - d - o - - - - - - - -	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	s ej - u - s ej - u -
PortugueseBrazil Portuguese Catalan	k - 0 - 1 u -	d - o - s - -	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	s ej - u - s ej - u -

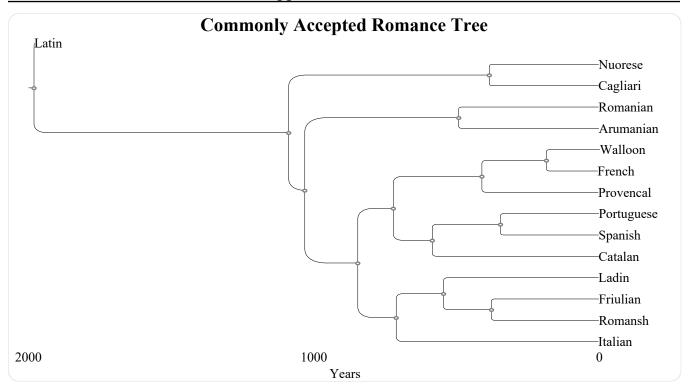
	Breast-Pectus	Breast-Pectorina	Heart-Primary	Heart-Anima
Latin	p - e k t u s	2.0001.00000	k - o r -	a n i m a
French	p - i	рwatвin	k - œ в -	a m -
Spanish	$\begin{vmatrix} \mathbf{p} \\ \mathbf{p} \end{vmatrix} - \begin{vmatrix} \mathbf{e} \\ \mathbf{e} \end{vmatrix} - \begin{vmatrix} \mathbf{f} \\ \mathbf{o} \end{vmatrix} = \mathbf{f} \begin{vmatrix} \mathbf{f} $			a 1 - m a
Italian	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		k w o r e	a 1 - m a
PortugueseBrazil	p - ej - t u -		k - 3 R -	a w - m e
Portuguese	p - ej - t u -		k - o r -	a l - m e
Catalan	p - i - t		k - or -	
Walloon		$p w \epsilon t r i n$	k - u r -	a - - m -
Friulian	p - ε - t - -	$ \mathbf{p} \mathbf{w} \mathbf{\epsilon} \mathbf{t} 1 1 \mathbf{n}$	k - u: r -	u - - m -
Romanian	1		K - U. I -	i n i m ə
Nomanian	p j e p t Liver-Primary	Sun-Primary	Sun-Soliculus	Moon-Primary
Latin	f - i: k a: t u m	s o: 1 e m	s o l i k u l u s	1 u: n a
French	f w a	8 0. 1 6 111		
			s 2 1 \varepsilon j - - - -	1 y n -
Spanish	- i γ a ð o -	s o 1		l u n a l u n a
Italian	f - e g a t o -	s o l e -		
PortugueseBrazil	f - i g e d u -	s o w		1 u - e
Portuguese	f - i y e ð u -	s o 1		1 u - e
Catalan	f - e d ə	s o 1 - -	1	Λunə
Walloon	f - c - t - c		$ \begin{vmatrix} s & 0 & 1 & 0 & - & - & - & - & - & - & - & - & -$	1 ø n -
Friulian	f - i - a: t		s o r e - I i -	l u n e
Romanian	f - i k a t - -	s oa r e -		1 u n ə
	<u> </u>			
1 (*)	Star-Primary	Water-Primary	Rain-Primary	River-Primary
Latin	- s t - e: 1 1 a	a - k ^w - a	$p \mid 1 \mid u \mid - \mid w \mid i \mid a$	f 1 u: m e n
Evan ala	- 4 - 1		1 :	
French	e - t w a - 1 -	0	p 1 y - - i -	
Spanish	e s t r e - j a	a - y w a	j - u - b j a	
Italian	- s t - e 1 1 a	a k k w a	p j o d dz - a	f j u m e -
PortugueseBrazil	istre-1 v	a - g w e	$\int_{\mathbf{C}} - \mathbf{u} - \mathbf{v} - \mathbf{e} $	f l u m i -
Portuguese	i	a - g w e		$ \mathbf{f} 1 \mathbf{u} \mathbf{m} \mathbf{i} $
Catalan	$ a s t - \epsilon - 1 - a $	aj - γ w ə	p 1 u - 3 - ə	
Walloon	- s t - œ - 1 -	$ \epsilon - w -$	$p \mid 1 \mid \epsilon \mid - \mid f \mid - \mid -$	
Friulian	$- s t - \epsilon - 1 e$	a - g - e	p 1 o - j e	f 1 u m - -
Romanian	- s t - ea - - -	a - p - ə	p 1 oa j e	
	Diver Diver	Diver Dineria	Leks Drines:	Can Drive are:
Lotin	River-Rivus	River-Riparia	Lake-Primary	Sea-Primary
Latin	r i: w u s	r i: p - a: r i a	l a k u m	m a r e
French	R N - - -	R I A I E R - -	1 a k	ш ε в -
Spanish	r i - o -		1 a g o -	mar -
Italian	r i - o -		1 a g o -	m a r e
PortugueseBrazil	в i - w -		1 a g u -	m a r -
Portuguese	в i - u -		1 a y u -	m a r -
Catalan	r i - w -		А a k	m a r -
Walloon	r ε	r i v i: - r - -	1 a k	m e r -
Friulian	r i - u -		1 a: t	m a: r -
Romanian	r i - w -		1 a k	m a r e

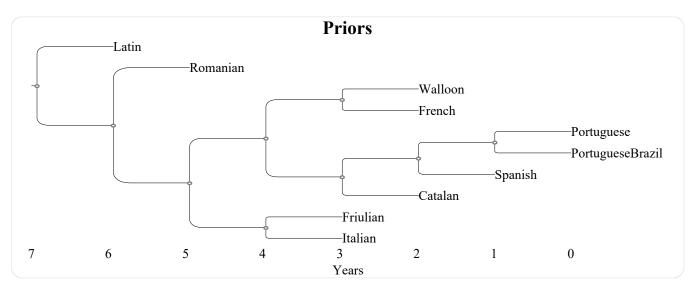
	Salt-Primary	Stone-Primary	Stone-Petra	Stone-Lapidem
Latin	s a: 1 e m	s a k s u m	p - e t r a	l a p i d e m
French	s ε 1		р ј е - в -	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Spanish	s a 1		p j e ð r a	1 a u - d e -
Italian	s a 1 e -	saso-	p j e t r a	1 1 1 1 1 1 1 1 1
PortugueseBrazil	s a w	s ej - ∫ u -	p - e d r e	
Portuguese	s a 1	s ej - S u -	p - E Ö r e	
Catalan	s a 1		p - e ð r ə	
Walloon	s e		p - i - r -	
Friulian	s a: 1	s a - s	p j e - r e	
Romanian	s a r e -		p j a t r ə	
rtomanian	Sand-Primary	Sand-Sabulum	Sand-Sabulo	Dust-Primary
Latin	h a r e: n a	s a b u l u m	s a b u l o n e m	p u 1 w e r e m
French	11 4 1 6 11 4	s a b - 1		b n q R
Spanish	- a r e n a	U W D 1		L 4 4
Italian	$ r$ ε n a			p o 1 v e r e -
PortugueseBrazil	- a r ej - e	s aj β - r u -		P S I V S I C
Portuguese	- e t ej - e	s aj β - r u -		
Catalan	- ə r e n ə	s o r ə -		
Walloon	$ \begin{vmatrix} a & r & \epsilon & n \\ \epsilon & n & - \end{vmatrix}$	3 0 1 0	$ s a v - j \tilde{s} - - -$	
Friulian	$- \begin{vmatrix} a & r & \epsilon & n \\ - & r & \epsilon & n \end{vmatrix} e$		s a v a l o n	p 2 1 v a r - -
Romanian	- a r i n ə		S a V a 1 S II - -	p u l b e r e -
Itomanian	Dust-Pulwus	Earth-Primary	Cloud-Primary	Cloud-Nubilus
Latin				n u: b i l u s
	n 11 W 11 C			
	p u 1 w u s	t - e r r a	n u: b e: s	n u: D 1 1 u s
French		t - e - r -	n y	
French Spanish	$ \mathbf{p} \mathbf{u} 1 \mathbf{w} \mathbf{u} \mathbf{s}$ $ \mathbf{p} \mathbf{o} 1 \mathbf{b} \mathbf{o} $	t - e - к - t j e - r a	n y n u b e -	n u b - 1 o -
French Spanish Italian	p o 1 b o -	t - e - в - t j e - r a t - ε r r a	n y n u b e - n u b e -	
French Spanish Italian PortugueseBrazil	p o 1 b o - p o - - -	t - e - r a t - ε r r a t - e - r ε	n y n u b e - n u b e - n u v ẽj -	n u b - 1 o -
French Spanish Italian PortugueseBrazil Portuguese	p o 1 b o - p o - - - p o - - -	t - e - r a t - ε - r a t - ε - r ε t - ε - r ε	n y n u b e - n u b e -	$\begin{vmatrix} \mathbf{n} & \mathbf{u} & \mathbf{b} & - & 1 & \mathbf{o} & - \\ \mathbf{n} & \mathbf{u} & \mathbf{v} & \mathbf{o} & 1 & \mathbf{a} & - \end{vmatrix}$
French Spanish Italian PortugueseBrazil Portuguese Catalan	p o 1 b o - p o - - -	t - e - r a t - e - r a t - e - r a t - e - r a t - e - r a	n y n u b e - n u b e - n u v ẽj -	n u b - 1 o -
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon	p o 1 b o - p o - - - p o - - -	t - e - r a t - e - r a t - e - r a t - e - r a t - e - r a t - e - r a t - e - r -	n y n u b e - n u b e - n u v ẽj -	$\begin{vmatrix} n & u & b & - & 1 & o & - & \\ n & u & v & o & 1 & a & - & \end{vmatrix}$
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian	p o 1 b o - p o - - - p o - - -	t - e - r a t j e - r a t - e - r a t - e - r a t - e - r a t - e - r a t - e - r a t - e - r e	n y n u b e - n u b e - n u v ẽj -	n u b - 1 o -
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon	p o 1 b o - p o - - - p o - - - p o 1 - - s	t - e - b - c - c - c - c - c - c - c - c - c	n y n u b e - n u b e - n u v ej -	n u b - 1 o -
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian	p o 1 b o -	t - e - b - t j e - r a t - e - r a t - e - r a t - e - r a t - e - r a t - e - r a t - e - r a t - e - r a t - e - r a t - e - r - a t j e - r e ts - a - r a	n y n u b e - n u b e - n u v ej - n	n u b - 1 o -
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin	p o 1 b o - p o - - - p o - - - p o 1 - - s	t - e - b - c - c - c - c - c - c - c - c - c	n y n u b e - n u b e - n u v ej -	n u b - 1 o -
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French	p o 1 b o -	t - e - κ - t j e - r a t - ε r r a t - ε - κ ε t - ε - κ ε t - ε - κ ε t - ε - r - t j ε - r e ts - a - r - Fog-Nebula	n y	n u b - 1 o -
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish	p o 1 b o -	t - e - κ - t j e - r a t - ε r r a t - ε - κ ε t - ε - κ ε t - ε - κ ε t - ε - r - t j ε - r e ts - a - r - Fog-Nebula n - e - b u l a	n y n u b e - n u b e - n u v ej - n	n u b - 1 o -
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian	p o 1 b o -	t - e - b - l a t - e - r a t - e - r a t - e - r a t - e - r r a t - e - r r a t - e - r r a t - e - r r a t - e - r r a t - e - r r a t - e - r r a t - e - r r a t - e - r r a t - e - r r a t - e - r r a t - e - r r a t - e - r r a t - e - r r a t - e - r r a t - e - r r a t - e - r r a t - e - r r a t - e - r r a t - e - r r a t - e - r r a t - e - r r a t - e - r r a t - e - r r a t - e - r r a t - e - r r a t - e - r r a t - e - r r a t - e - r r a t - e - r r a t - e - r r a t - e - r r a t - e - r r a t - e - r r a t - e - r r a t - e - r r a t - e - r r a t - e - r r a t - e - r r a t - e - r r a t - e - r r a t - e - r r a t - e - r r r a t - e - r r r a t - e - r r r a t - e - r r r a t - e - r r r a t - e - r r r r a t - e - r r r r a t - e - r r r r r r r r r r r r r r r r r	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	n u b - 1 o - n u v o 1 a -
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazil	p o 1 b o -	t - e - b - l a t - e - b - l a n - e - b - l a n - e - b - l a n - e - v w - e	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	n u b - 1 o - n u v o 1 a -
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazil Portuguese	p o 1 b o -	t - e - b - c - c - c - c - c - c - c - c - c	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	n u b - 1 o - n u v o 1 a -
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazil Portuguese Catalan	p o 1 b o -	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	n u b - 1 o - n u v o 1 a -
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon	p o 1 b o -	t - e - b - c - c - c - c - c - c - c - c - c	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	n u b - 1 o - n u v o 1 - -
French Spanish Italian PortugueseBrazil Portuguese Catalan Walloon Friulian Romanian Latin French Spanish Italian PortugueseBrazil Portuguese Catalan	p o 1 b o -	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	n u b - 1 o - n u v o 1 a -

	Fog-Caecia	Sky-Primary	Wind-Primary	Snow-Primary
Latin	k aj k i a	k - aj l u m	w - e n t u m	n - i w e m
French		s j ε 1	$ \mathbf{v} $ - $ \tilde{\mathbf{a}} $ - $ - $ -	
Spanish		$\theta \mid j \mid e \mid 1 \mid o \mid -$	b j e n t o -	n j e b e -
Italian		tf - ε 1 ο -	$v - \epsilon n t o -$	n - e v e -
PortugueseBrazil		$\begin{vmatrix} \mathbf{s} \\ \mathbf{s} \end{vmatrix} - \begin{vmatrix} \mathbf{\epsilon} \\ \mathbf{w} \end{vmatrix} - \begin{vmatrix} \mathbf{c} \\ \mathbf{w} \end{vmatrix}$	v - ẽ - t u -	n - ε v i -
Portuguese		$ \mathbf{s} - \mathbf{\epsilon} \mathbf{w} - \mathbf{r} $	$ v - \tilde{e} - t u -$	$ n - \epsilon v i -$
Catalan		$\begin{vmatrix} s & - & \epsilon & 1 \\ s & - & \epsilon & 1 \end{vmatrix}$	b - e n	n - e w
Walloon		s - i r	$\begin{vmatrix} \mathbf{v} \\ \mathbf{v} \end{vmatrix} - \begin{vmatrix} \mathbf{\tilde{\epsilon}} \\ \mathbf{\tilde{\epsilon}} \end{vmatrix} - \begin{vmatrix} - \\ - \end{vmatrix} - \begin{vmatrix} - \\ - \end{vmatrix}$	n - i v aj -
Friulian		tf - i: 1	v - i n t	n - e: f
Romanian	tf ea tf - ə	tf - e r	$\begin{vmatrix} \mathbf{v} \\ \mathbf{v} \end{vmatrix} - \begin{vmatrix} \mathbf{i} \\ \mathbf{i} \end{vmatrix} \mathbf{n} \begin{vmatrix} \mathbf{t} \\ \mathbf{t} \end{vmatrix} - \begin{vmatrix} \mathbf{i} \\ \mathbf{r} \end{vmatrix}$	n - ea
TOTTATIIATI	Ice-Primary	Ice-Glacies	Smoke-Primary	Fire-Focus
Latin	g e l u:	ice-Glacies	f u: m u s	f - o k u m
French			ı u: m u s	
	$\left \frac{3}{2} \right \left \epsilon \right \left \frac{1}{2} \right =$	g 1 a - s -		
Spanish	j e l o	- : - 1 10	- u m o -	f w e g o -
Italian	dz ε 1 o	$g \mid j \mid a \mid t \mid t f \mid a$	f u m o -	f w o k o -
PortugueseBrazil			f u m u -	f - o g u -
Portuguese			f u m u -	f - o y u -
Catalan	3 8 1 -	g 1 a - s -	f u m - -	f - 3 k
Walloon		$g \mid 1 \mid \epsilon \mid - \mid s \mid -$		f - œ
Friulian		g 1 a - tf e	f u m - -	f - u k
Romanian	ф e r -	g - ea - ts ə	f u m - -	f - o k
	Ash-Primary	Ash-Cinisia	Road-Primary	Road-Strata
Latin	k i n e - r e m		w - i a	- s t r a: t a
French	$ \mathbf{s} \mathbf{\tilde{a}} $ - $ - \mathbf{q} \mathbf{R} $ - $ - $		$ \mathbf{v} \mathbf{w} - \mathbf{a} $	
Spanish		$ \theta e n i \theta a$	b - i a	e s t r a d a
Italian	tf e n e - r e -		v - i a	- s t r a d a
PortugueseBrazil		s î z e	v - i e	i s t r a d e
Portuguese		g z - - z e	v - i e	i straðe
Catalan	$ \mathbf{s} \mathbf{\epsilon} \mathbf{n} - \mathbf{d} \mathbf{r} \mathbf{a} -$		b - i ə	
Walloon	$ \mathbf{s} \mathbf{\tilde{\epsilon}} - - \mathbf{t} - - - $		v - oj -	
Friulian		tf i n i s ε	v - i e	- s t r a d e
Romanian		t∫ e n u ∫ ə		
	Road-Camminus	Mountain-Primary	Mountain-Montanea	Night-Primary
Latin	k a m m i: n u m	m o n t e m	m o n t a: - n e a	n - o c t e m
French	$\int \partial - m \tilde{\epsilon}$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	m õ - t a - n	n q i
Spanish	k a - m i n o -	m o n t e -	m o n t a - n - a	$\begin{bmatrix} \mathbf{n} & \mathbf{q} & \mathbf{r} \\ \mathbf{n} & \mathbf{o} \end{bmatrix} - \begin{bmatrix} \mathbf{f} & \mathbf{e} \end{bmatrix} - \begin{bmatrix} \mathbf{e} & \mathbf{r} \end{bmatrix}$
Italian	k a m m i n o -	m o n t e -	m o n t a n n - a	n - o t t e -
PortugueseBrazil		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\mathbf{m} \ \tilde{\mathbf{o}} \ - \ \mathbf{t} \ \tilde{\mathbf{e}} \ - \ \mathbf{p} \ - \ \mathbf{e}$	n - oj - t i -
Portuguese	k e - m i n u -	m õ - t i -	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	n - oj - t i -
Catalan	k ə - m i		m u n t a - n - ə	n - i - t
Walloon	$ \text{tf} i - m \tilde{\epsilon} - - - $	m u n m ɔ̃		
Friulian	c a m i n	m o n t		
			m o n t a - n e -	3
Romanian		$m u n t \epsilon $		n - oa p t e -

	Day-Primary	Day-Diurnus	Day-Diurna	Day-Diurnata
Latin	d i e: s	d i u r n u m		d i u r n a: t a
French		3 - и в		3 - и в п е
Spanish	d i a -	d j u r n o -		x - o r n a d a
Italian	d i	dz - o r n o -		dz - o r n a t a
PortugueseBrazil	d i b -		3 2 K U a	
Portuguese	d i e -		3 2 K N a	
Catalan	d i ə -	3 - o r n		
Walloon		3 - 0 r n d - u		
Friulian	d i - -			dg - o r n a d e
Romanian	z i			
	Year-Primary	Name-Nomen	Name-Nominem	Tongue-Primary
Latin	a n n u m	n o m e n	n o m i n - e m	1 i n g ^w - a
French	$ \tilde{\mathbf{a}} $ - $ $ - $ $ -	$ n \tilde{\mathfrak{I}} - - -$		$\left \begin{array}{c c} 1 & \widetilde{\alpha} & - & g & - \end{array} \right $
Spanish	a - n o -		n o m - b r e -	l e ŋ g w a
Italian	a n n o -	n o m e -		l i n g w a
PortugueseBrazil	e - n u -	n o m i -		1 î - g w e
Portuguese	e - n u -	n o m i -		1 î - g w e
Catalan	a - n	n o m		λεηgwə
Walloon	$ \tilde{a} - \tilde{a} - \tilde{a} $	$ \mathbf{n} \tilde{\mathfrak{I}} - - - $		$1 \left \tilde{\epsilon} \right - \left - \right v \right -$
Friulian	a - n	n o n		1 ε n g - e
Romanian	a n	n u m e -		1 i m b - ə

Appendix 4 - Results





Appendix 4 - Results

