

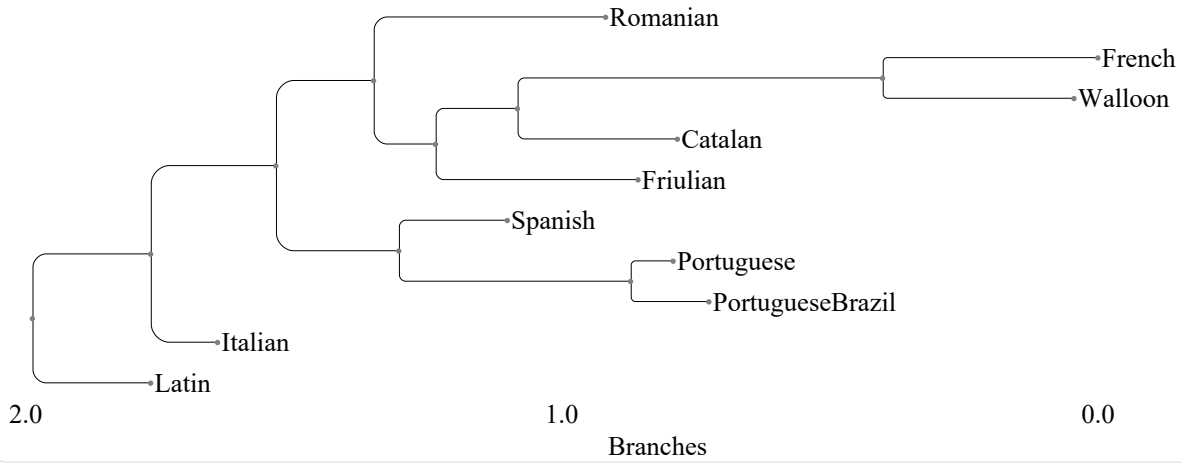
# Understanding Language Evolution Using an Event-Based Model

1. Experimental Runs
2. Character Assignments
3. Partition Assignments

## Appendix 1 - Experimental Runs

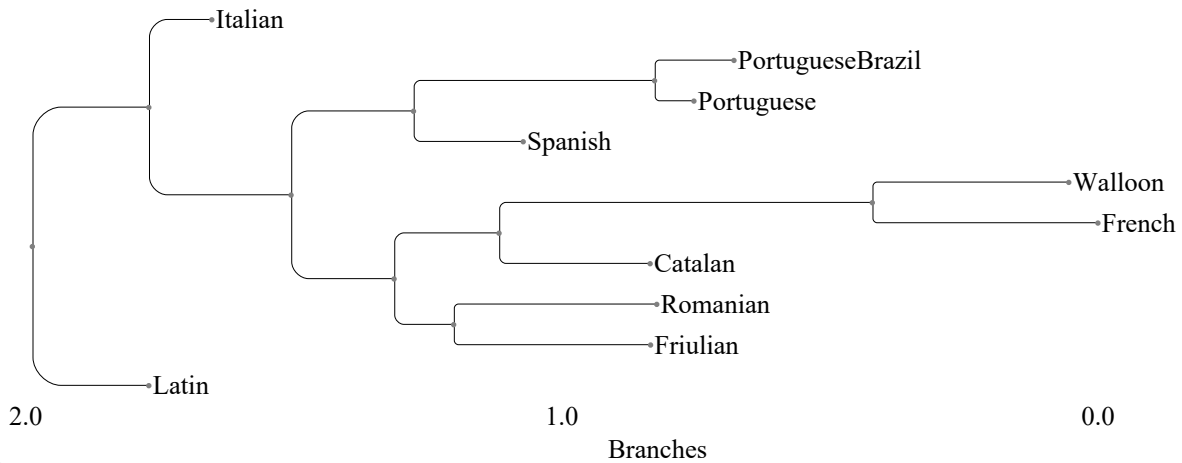
### All words

100,000 generations



### All words

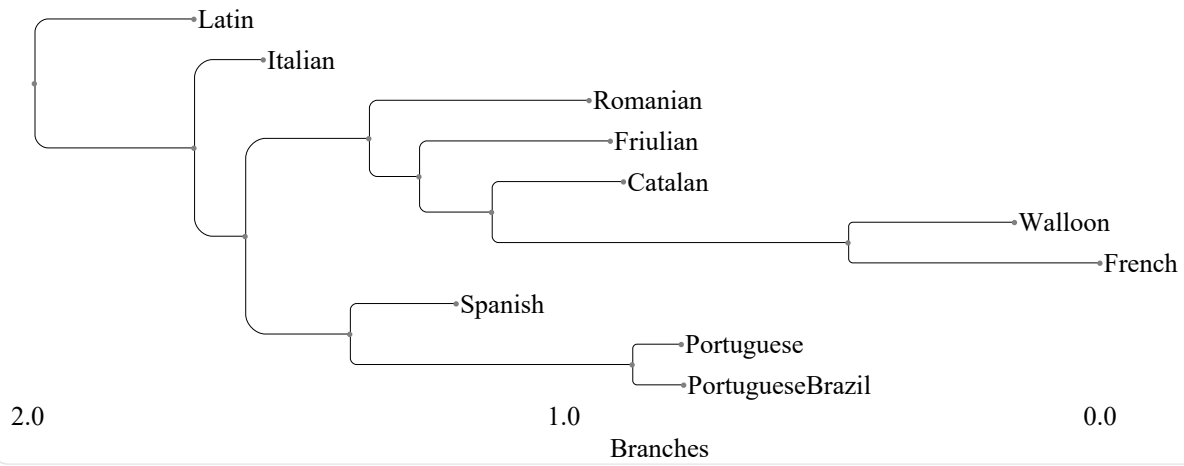
300,000 generations



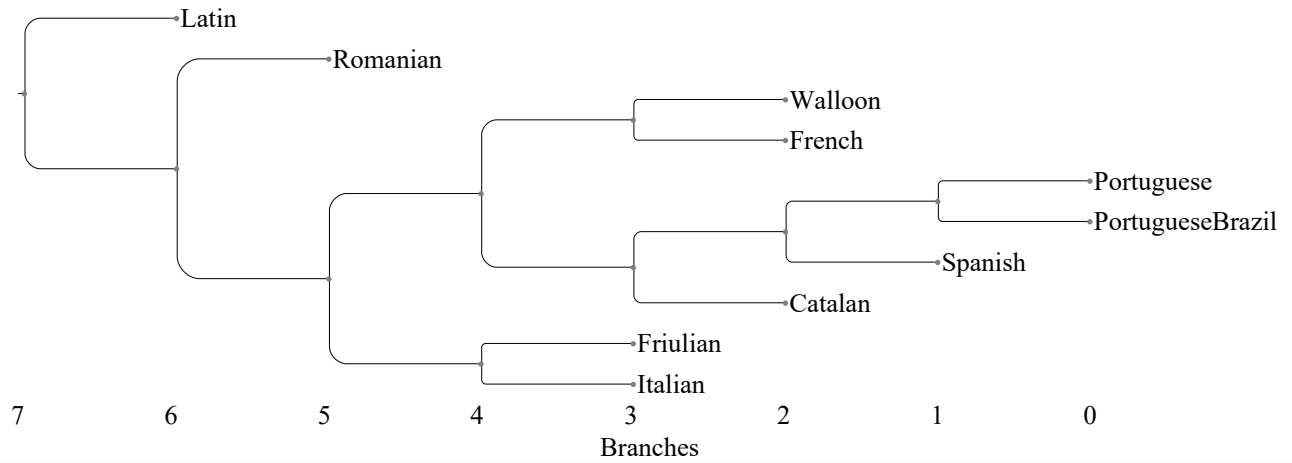
## Appendix 1 - Experimental Runs

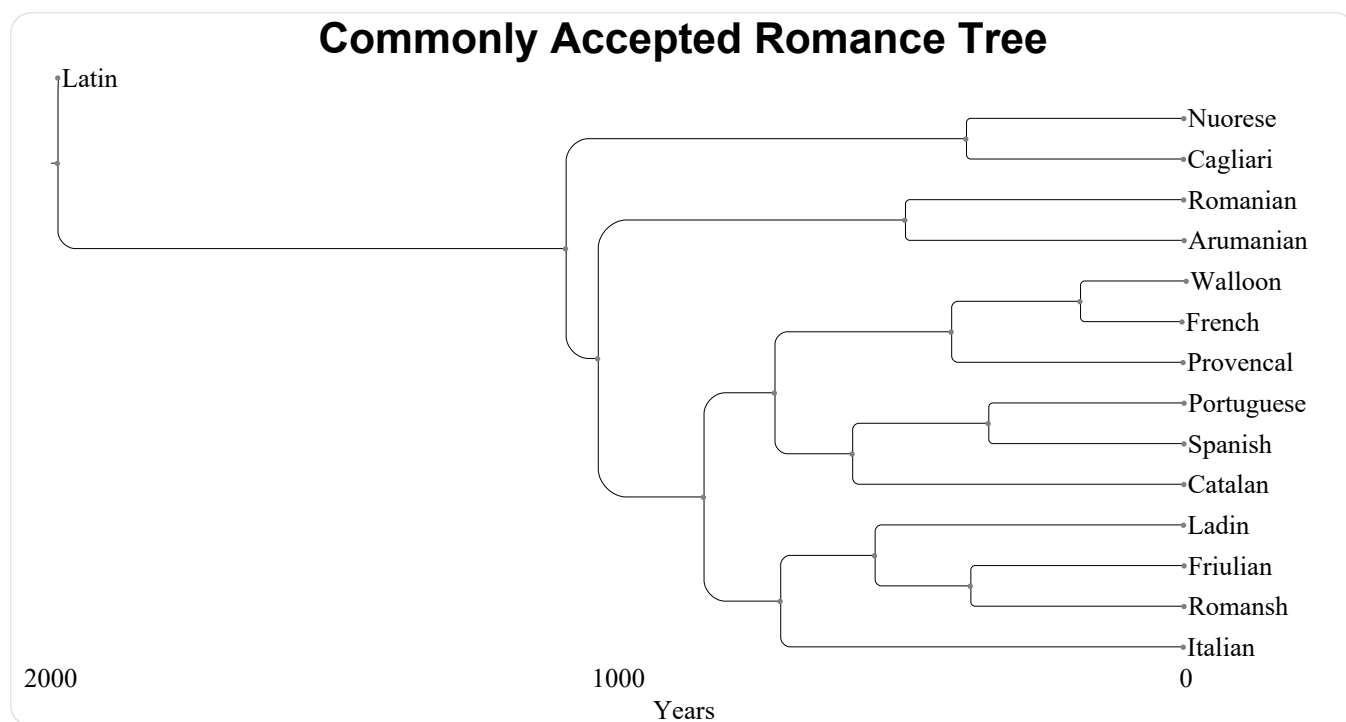
### No verbs

300,000 generations



### Prior





## Appendix 2 - Character Assignments

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Each segment gets a different number

1	f	2	e:	3	m	4	i	5	n	6	a	7	e	8	b	9	r	10	ẽ	11	ɐ	12	œ	13	ɛ	14	j
15	u	16	l	17	r	18	x	19	o	20	ʎ	21	ɾ	22	i:	23	d	24	ɲ	25	ɔ	26	õ	27	ə		
28	ɔa	29	t	30	ã	31	ĩ	32	ẽ	33	ʈ	34	i	35	ẽj	36	ẽj	37	s	38	p	39	z	40	ʃ		
41	o:	42	k	43	ts	44	a:	45	aj	46	θ	47	ej	48	ɐj	49	w	50	õ	51	h	52	v				
53	au	54	ẽ	55	ẽw	56	c	57	ij	58	a	59	u:	60	ɥ	61	y	62	g	63	iw	64	ɔj				
65	dz	66	j	67	oj	68	g <sup>w</sup>	69	dʒ	70	ø	71	ɛa	72	ɾ	73	ɛj	74	k <sup>j</sup>	75	ʒ	76	ʃ				
77	k <sup>w</sup>	78	ũ	79	ł	80	ũj	81	œ	82	ɳ	83	ø:	84	ɣ	85	ʈ <sup>j</sup>										

Model: “Linguistically Informed”

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1) e	e: e
2) i	i i:
3) a	a a:
4) u	u u:
5) o	o o:
6) ε	ε
7) ø	ø ø:
8) Nasal Vowel	ẽ õ ã ĭ ĕ ěj ěj ỹ ẽ ĕw ũ ũj œ
9) Vowel	ɐ œ ɔ ə ɔa ɪ aj ej ej au ĭj ɑ y iw ɔj oj ɛa ej
10) Nasal Consonant	m n ɲ ŋ
11) Non Syllabic Sonorant	j l r w
12) Consonant	f b ɾ x ʎ ɸ d t ʈ s p z ʃ k ts θ h v c ɥ g dz ɟ g <sup>w</sup> dʒ ɾ k <sup>j</sup> ʒ ʃ k <sup>w</sup> ɬ ɣ ʈ <sup>j</sup>