

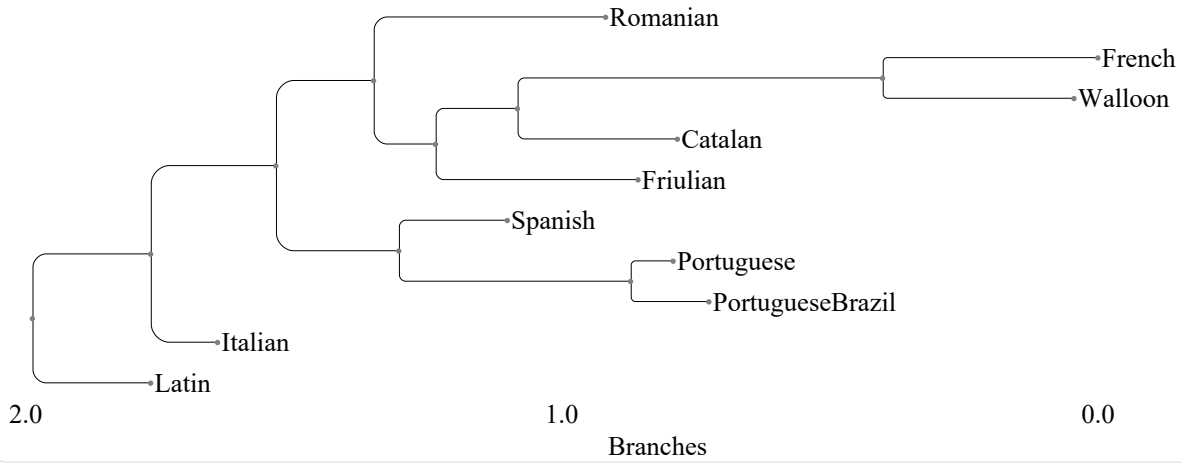
# Understanding Language Evolution Using an Event-Based Model

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

## Appendix 1 - Experimental Runs

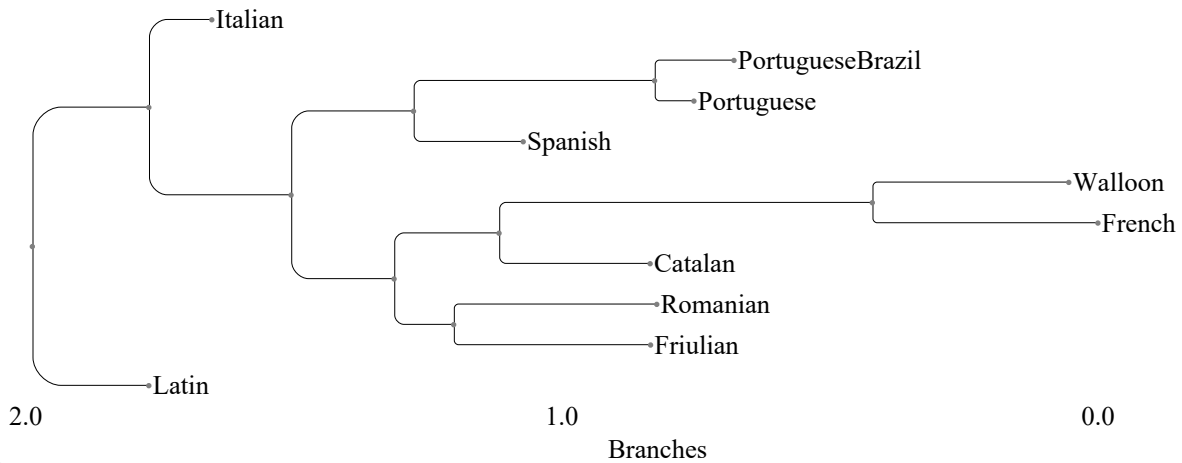
### All words

100,000 generations



### All words

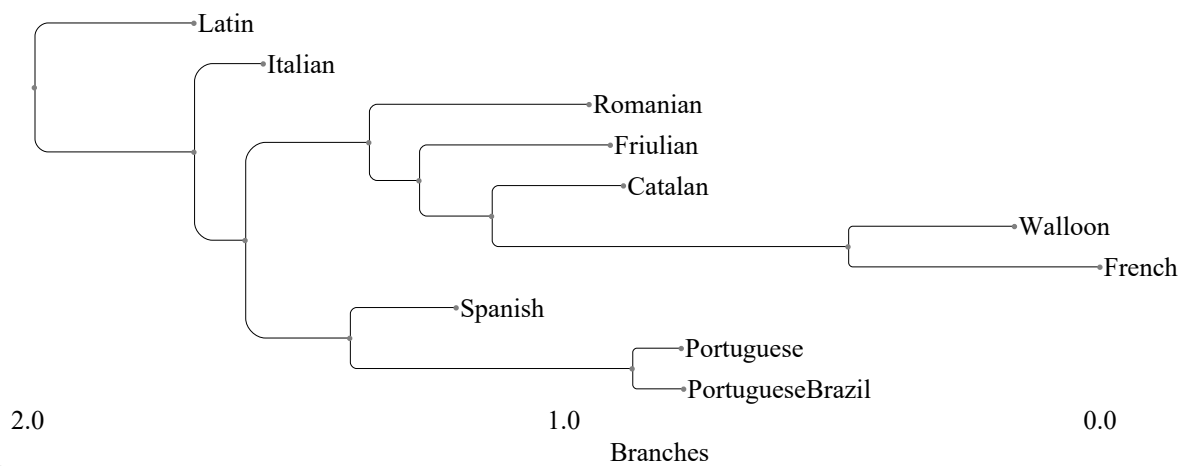
300,000 generations



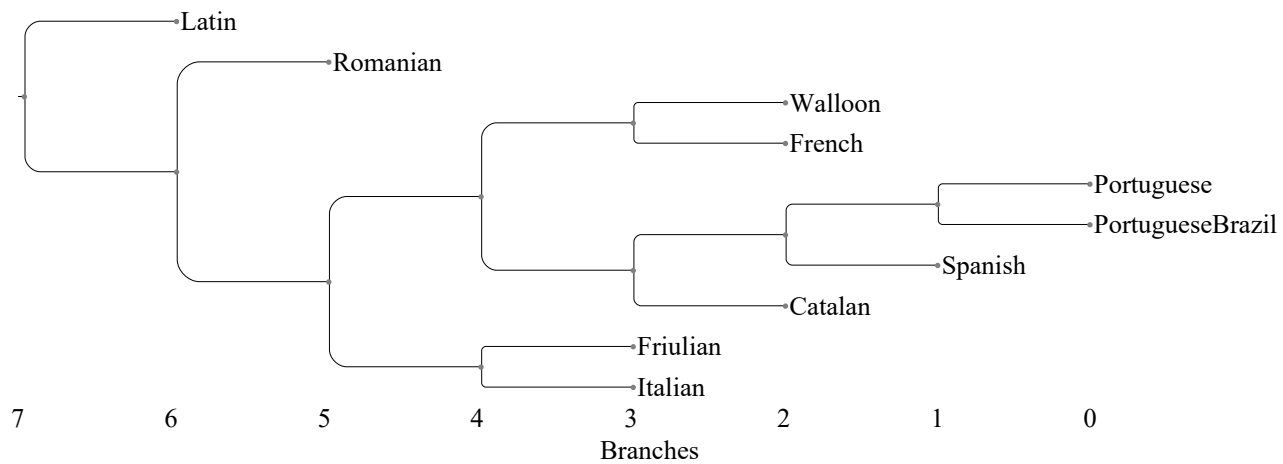
## Appendix 1 - Experimental Runs

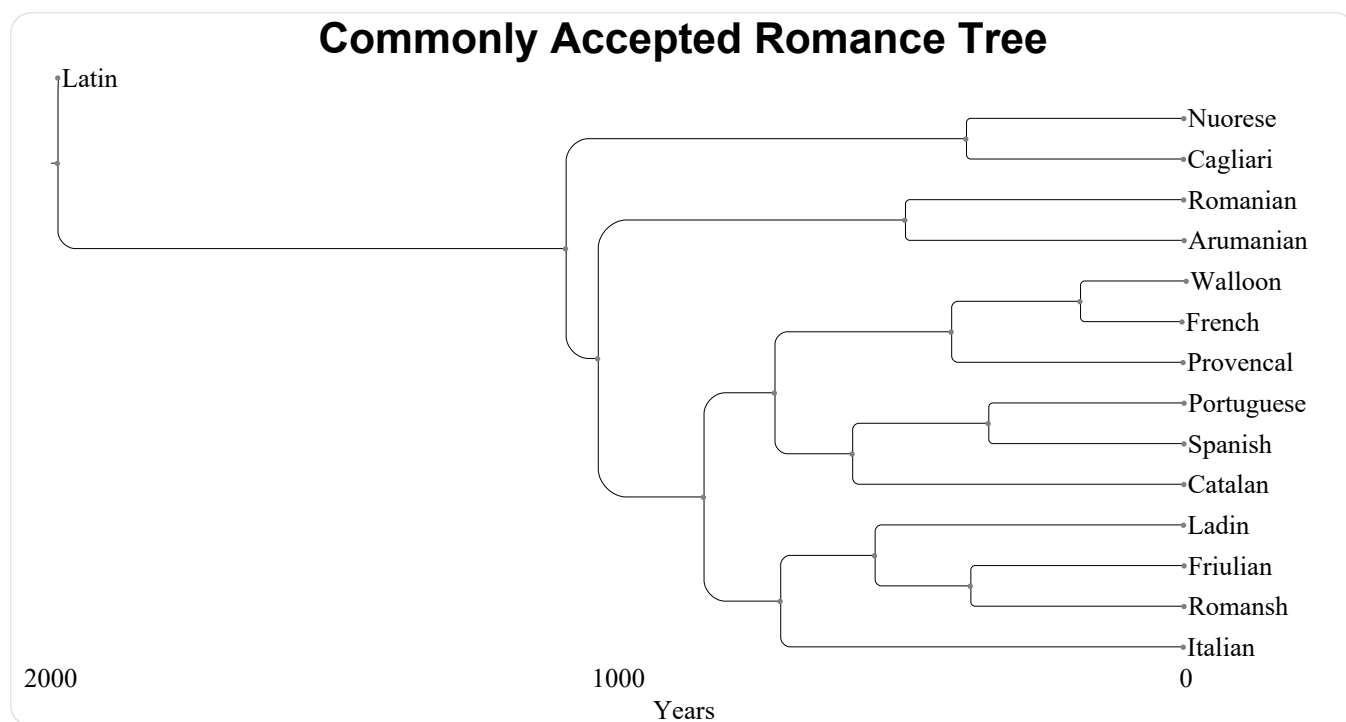
### No verbs

300,000 generations



### Prior





## Appendix 2 - Character Assignments

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Each segment gets a different number

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

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
8) Nasal Vowel	ã ĩ ẽ ě ĵ õ õ̃ ẽw̃ ẽ œ ù ẽj
9) Vowel	ɨ ej ej au̯ ɐ ə ɨj ɔ œ ɔj ɔa oj ɑ ej ɪ ɛa aj y ʊ
10) Nasal Consonant	n m ɲ ŋ
11) Non Syllabic Sonorant	w l j r
12) Consonant	f t ʈ p s k θ ʃ h b v z ʎ x r c d ɖ ɟ gʷ g j β ʀ kʲ ʒ ʃ ʎ ɔ̃ kʷ ɥ ts ɬ