

# Glides on the syllable margins: strengthening and weakening fates

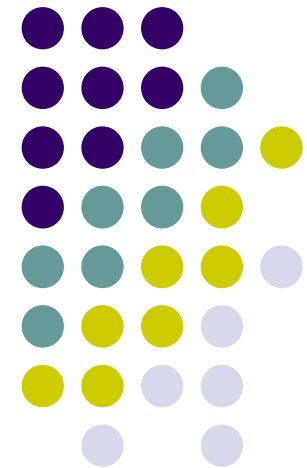
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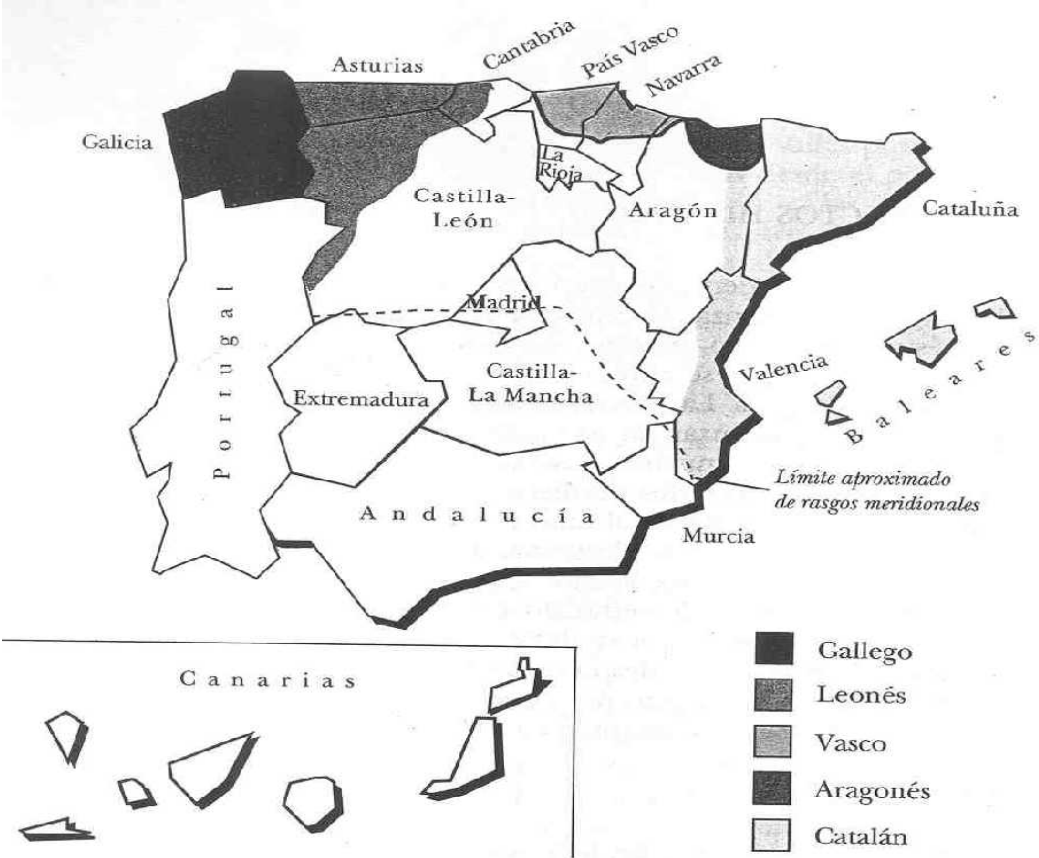
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**Journées d'étude «Autour de la syllabe: phonétique, phonologie, psycholinguistique, acquisition», 12-13 nov. 2015, Univ. de Poitiers**

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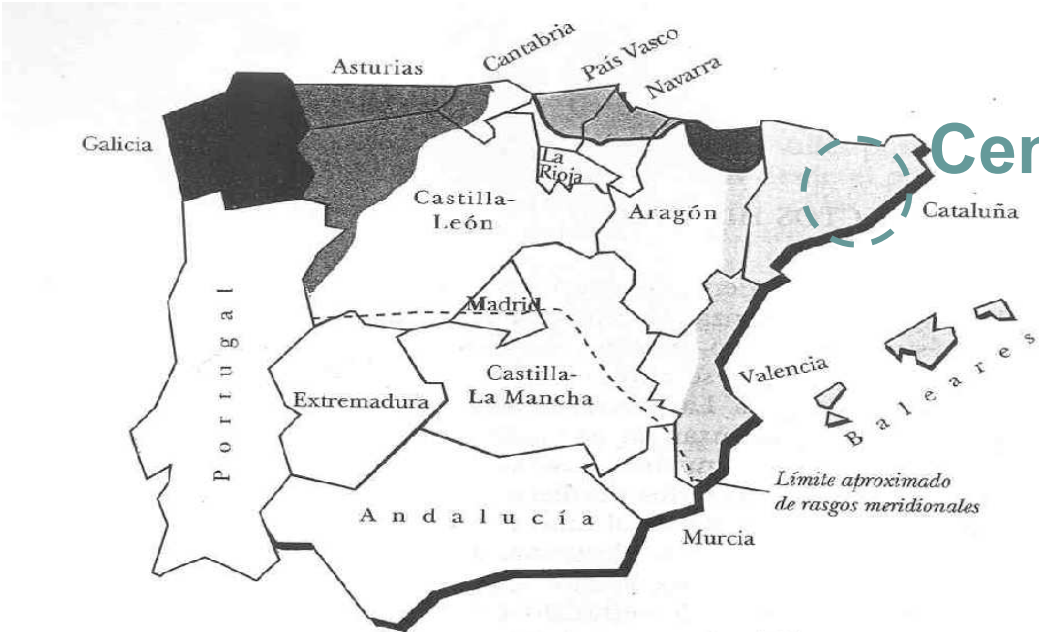


# Presentation

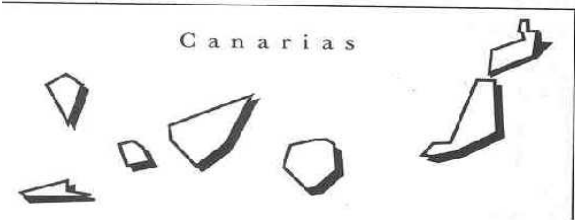


*Mapa aproximado de las lenguas y las variedades de España.*

# Presentation



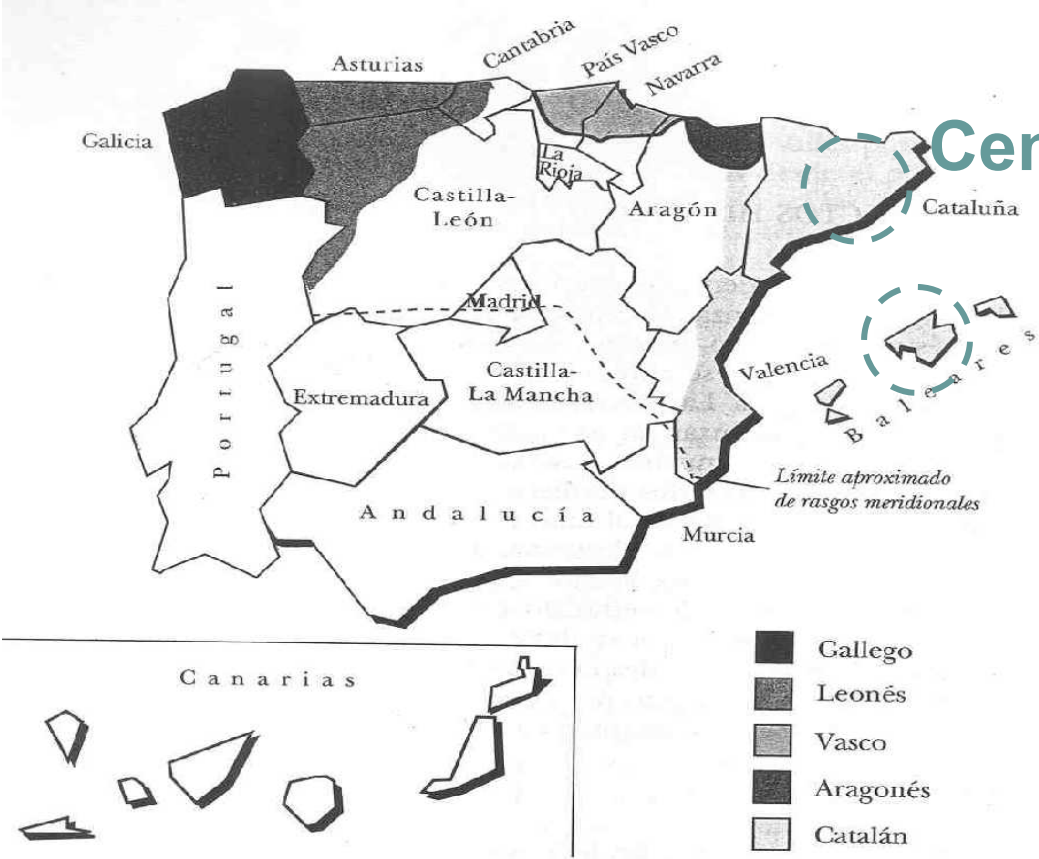
Central Eastern Catalan



- Gallego
- Leonés
- Vasco
- Aragonés
- Catalán

Mapa aproximado de las lenguas y las variedades de España.

# Presentation



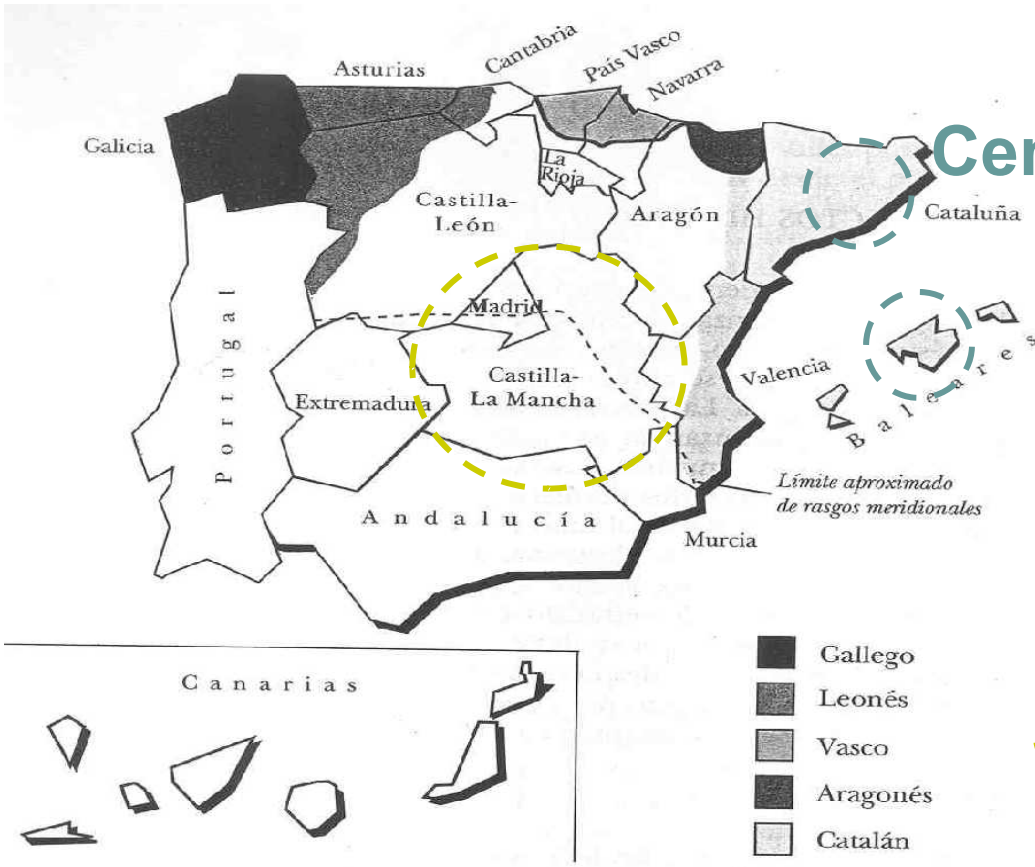
Central Eastern Catalan

Majorcan (Eastern) Catalan

Mapa aproximado de las lenguas y las variedades de España.



# Presentation



Central Eastern Catalan

Majorcan (Eastern) Catalan

Castilian Spanish (ALECMAN)

*Mapa aproximado de las lenguas y las variedades de España.*



# Presentation

## Variability & regularity:

- The palatal glide /j/ & the labiovelar glide /w/ display a vast array of **variation** in Catalan & in Castilian Spanish, according to the syllabic position in which they occur.



# Presentation

## Variability & regularity:

- The palatal glide /j/ & the labiovelar glide /w/ display a vast array of **variation** in Catalan & in Castilian Spanish, according to the syllabic position in which they occur.
- Although in **some positions** there is almost **no variation**.



# Presentation

## Assumed syllable structure:

- Syllable positions of Spanish [ɣwaj] in *Uruguay*, following Baertsch (2002):

Margin1	Margin2	Peak	Margin2
(M1)	(M2)	(Pk)	(M2)
ɣ	w	a	j

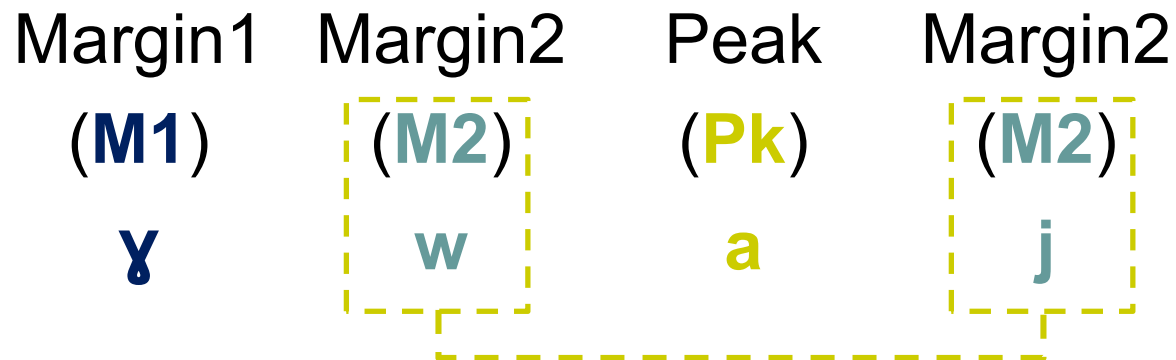




# Presentation

## Assumed syllable structure:

- Syllable positions of Spanish [ɣwaj] in *Uruguay*, following Baertsch (2002):



# Data



## Lack of variation:

- In the second position of an onset and in coda position (**M2 margins**), both glides **always remain unaltered**:

### Spanish

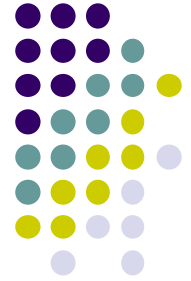
d[w]eño 'owner'

ja[w]la 'cage'

p[j]e 'foot'

re[j] 'king'

# Data



## Faithful mapping:

- In the second position of an onset and in coda position (**M2 margins**), both glides **always remain unaltered**:

### Catalan

q[w]an ‘when’

di[w] ‘it says’

miss[j]ó ‘mission’

re[j] ‘king’



# Data

## Faithful mapping in M1:

- **Eastern Central Catalan:** In the first position of an onset (**M1**), glides are **also maintained** unchanged (in patrimonial words and in loanwords):

[w]eb	‘web’	di[w]en	‘they say’
[j]ogurt	‘yogurt’	fe[j]a	‘it did’

# Data



## Unfaithful mapping in M1:

- **Castilian Spanish:** In the first position of an onset (**M1**), glides are always **reinforced** (in patrimonial words and in loanwords):

### Maximally

[gw]elo ‘I smell’

[dʝ]ugo ‘yoke’

### Non maximally

a[ɣw]ecar ‘to hollow’

ma[ʝ]o ‘May’



# Data

## (Un)faithful mapping in M1:

- **Majorcan Catalan:** Glides remain unchanged in the first position of word-initial onsets, as in Central Catalan (**M1**):

[w]eb    ‘web’

[j]ogurt    ‘yogurt’



# Data

## (Un)faithful mapping in M1:

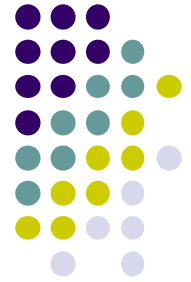
- **Majorcan Catalan:** Intervocally, though, /w/ is usually **strengthened** into a fricative **[v]**,....:

**[w]**eb    ‘web’

di**[v]**en    ‘they say’

**[j]**ogurt    ‘yogurt’

# Data



## (Un)faithful mapping in M1:

- **Majorcan Catalan:** ...whereas /j/ either is realized as a slightly more centralized and open glide ([e̞]; cf. Mascaró & Rafel 1981; Recasens & Espinosa 2005) or is completely deleted:

[w]eb	‘web’	di[v]en	‘they say’
[j]ogurt	‘yogurt’	fe[e̞]a ~ fe[∅]a	‘it did’



# Data



## Summary. Glides outcomes:

Position	Spanish	Eastern Central Catalan	Majorcan Catalan
M2 glide	<b>Maintenance</b>	<b>Maintenance</b>	<b>Maintenance</b>
Initial M1 glide	<b>Strengthening</b>	<b>Maintenance</b>	<b>Maintenance</b>
Intervocalic M1 /w/	<b>Strengthening</b>	<b>Maintenance</b>	<b>Strengthening</b>
Intervocalic M1 /j/	<b>Strengthening</b>	<b>Maintenance</b>	<b>Weakening</b>

# How productive are these processes?



## Castilian Spanish:

- One could certainly suggest that the underlying representations of *huelo* and *yugo* already contain the consonants /g/ and /j/ (or /dj/), respectively, but...

# How productive are these processes?



## Castilian Spanish:

- The strengthening affects likewise glides deriving from underlying vowels; for instance /i/ in the conjunction *y* ‘and’:

**[i]** tú ‘and you’

**[dʝ]** un día ‘and one day’

amigo **[j]** amiga ‘boyfriend and girlfriend’

# How productive are these processes?



## Castilian Spanish:

Ex. :Underlying /i/ y ‘and’:

*Y una mierda voy a ser yo foca* 

[**dj**ùna mjérða βja se **jo** fóka]

*Lit.* ‘And a shit am I going to be a seal’

*Transl.* ‘No way am I going to be a seal’

(From TV series [Los hombres de Paco](#))

# How productive are these processes?



## Castilian Spanish:

- The process is also active in recent loanwords: *wasapear* ~ ***guasapear*** ‘to whatsapp’.
- We find similar processes in second language acquisition:

English: **[gw]**ater ‘water’, **[dʝ]**ou ‘you’

French: **[gw]**i *oui* ‘yes’

# How productive are these processes?



## Majorcan Catalan:

- The reinforcement of the labiovelar glide as [v] is a dubiously productive process, since loans or learned words such as *Hawaii*, *Power* or *PowerPoint* are realized with [w].

# How productive are these processes?



## Majorcan Catalan:

- The weakening of /j/ as [e̞], instead, seems an active process, affecting any palatal glide appearing in an intervocalic M1:

ta[j] ‘I cut’

ta[e̞]ar ‘to cut’

ma[j]

‘never’

ma[e̞] he dit

‘I have never said’

# How productive are these processes?



## Majorcan Catalan:

- The weakening of /j/ as [e] can affect recent loanwords as well:

Pla [j]

‘Play (Station)’

Juga a la Pla [e] ara

‘Play with the Play now’

Estàs on [faeər]

‘You are on fire’





## Goals of the presentation

- To study the **variation** that glides present in syllable margins in Spanish & Catalan.
- To prove that the elements replacing the glides **fit better** in the syllabic position in which they appear.



## Goals of the presentation

- To show that **M1** & **M2** positions make opposite requirements wrt the sonority of the segments (in line with Baertsch 2002).
- To demonstrate that, to formalize the whole variation, we need constraints related to the syllable (**intrasyllabic**; cf. Baertsch 2002) and constraints referred to segmental strings (**intersyllabic**).



# Outline of the analysis

1. The basic constraint set
2. When glides generally fit: M2
3. Adjusting to the syllable margins: M1
  - 3.1. A non-adjusting variety: Central Eastern Catalan
  - 3.2. A one-way adjusting variety: Castilian Spanish
  - 3.3. A two-way adjusting variety: Majorcan Catalan



# 1. The basic constraint set



# 1. The basic constraint set

## The split margin hierarchy

- In **M1**, less sonorous segments are preferred:

\*M1/GLIDE<sub>[-HI]</sub> >> \*M1/GLIDE<sub>[+HI]</sub> >> \*M1/LIQUID  
>> \*M1/NASAL >> \*M1/FRICATIVE >> \*M1/STOP



Glides are not optimal outputs in M1

**Glide<sub>[+HIGH]</sub> = j, w**      **Glide<sub>[-HIGH]</sub> = [ɛ̥, ɔ̥]**  
(in Baertsch 2002 Vowel/Glide<sub>[+HI]</sub> and Vowel<sub>[-HI]</sub>)



# 1. The basic constraint set

## The split margin hierarchy:

- In **M2**, more sonorous segments are preferred:

\*M2/STOP >> \*M2/FRICATIVE >> \*M2/NASAL >>

\*M2/LIQUID >> \*M2/GLIDE<sub>[+HI]</sub> >>

\*M2/GLIDE<sub>[-HI]</sub>



High glides, almost the optimal output in M2



# 1. The basic constraint set

## Beyond the split margin hierarchy:

- In **intervocalic M1**, more sonorous segments are preferred as well:

\*VSTOP<sub>M1</sub>V >> \*VFRICATIVE<sub>M1</sub>V >>

\*VNASAL<sub>M1</sub>V >> \*VLIQUID<sub>M1</sub>V >>

\*VGLIDE<sub>[+HI], M1</sub>V >> \*VGLIDE<sub>[-HI], M1</sub>V



Again, high glides,  
almost the optimal output in intervocalic M1



# 1. The basic constraint set

**Faithfulness constraints**, among which:

1. **ID-[HIGH]**: Assign one violation mark for every input [High] glide when some of its output correspondents is not [High].

Input: /j <sub>1</sub> /	ID-[HIGH]
a. [j <sub>1</sub> ]	√
b. [e <sub>1</sub> ]	*





# 1. The basic constraint set

**Faithfulness constraints**, among which:

2. **ID-GLIDE**: Assign one violation mark for every input glide when some of its output correspondents is not a glide.
3. **ID-GLIDE<sub>EXISTENTIAL</sub>**: Assign one violation mark for every input glide when none of its output correspondents is a glide. (De Lacy and Struijke 2000; Struijke 2002)



# 1. The basic constraint set

## ID-GLIDE VS ID-GLIDE<sub>EXISTENTIAL</sub>:

Input: /w <sub>1</sub> /	ID-GLIDE	ID-GLIDE <sub>EX</sub>
a. [w <sub>1</sub> ]	√	√
b. [g <sub>1</sub> ]	*	*
c. [g <sub>1</sub> w <sub>1</sub> ]	*	√



# 1. The basic constraint set

**Faithfulness constraints**, among which:

4. **INTEGRITY:** Assign one violation mark for every input segment that has more than one output segment correspondent.

Input: /w <sub>1</sub> /	INTEGRITY
a. [w <sub>1</sub> ]	√
b. [g <sub>1</sub> ]	√
c. [g <sub>1</sub> w <sub>1</sub> ]	*



## 2. When glides generally fit: M2



## 2. When glides generally fit: M2

**M2:** More sonorous segments are preferred. Therefore, glides tend to be maintained in that position. Ex: **Eastern Central Catalan** simple codas:

Input: re/ $j_1$ /	ID-GLIDE	ID-[HIGH]	*M2/Glide <sub>[+HI]</sub>	*M2/Glide <sub>[-HI]</sub>
☺ a. re $[j_1]$			*	
b. re $[e_1]$		*!		*
c. re $[j_1]$	*!			



### **3. Adjusting to the syllable margins: M1**

# 3.1. A non-adjusting variety: Central Eastern Catalan



- **Central Eastern Catalan** is a faithful variety in which the markedness constraint **\*M1/GLIDE<sub>[+HI]</sub>** (and **\*M1/GLIDE<sub>[-HI]</sub>**) are consistently outranked by the faithfulness constraints INTEGRITY & ID-GLIDE:

INTEGRITY, ID-GLIDE, ID-[HIGH] >>

**\*M1/GLIDE<sub>[-HI]</sub>** >> **\*M1/GLIDE<sub>[+HI]</sub>**

# 3.1. A non-adjusting variety: Central Eastern Catalan



- Hence, in **Central Eastern Catalan**, /j/ & /w/ also tend to be maintained in simplex onsets (M1) **word-initially**:

/w <sub>1</sub> ε/b	INTEGRITY	ID-GLIDE	*M1/GLIDE <sub>[+HI]</sub>
☺ a. [w <sub>1</sub> ε]			*
b. [v <sub>1</sub> ε]		*!	
c. [g <sub>1</sub> w <sub>1</sub> ε]	*	*!	

/j <sub>1</sub> u/gurt	INTEGRITY	ID-GLIDE	*M1/GLIDE <sub>[+HI]</sub>
☺ a. [j <sub>1</sub> u]			*
b. [ɟ <sub>1</sub> u]		*!	



# 3.1. A non-adjusting variety: Central Eastern Catalan



- **Between vowels**, the constraint against high glides in M1,  $VGL_{[+HI], M1} V$ , is not strong enough to enforce changes (i.e., lowering) in glides:

$d/iw_1\theta/n$	ID-GLIDE	ID-[HIGH]	$VGL_{[+HI], M1} V$
☺ a. [i.w <sub>1</sub> θ]			*
b. [i.ɔ <sub>1</sub> θ]		*!	

$f/\varepsilon j_1+\theta/$	ID-GLIDE	ID-[HIGH]	$VGL_{[+HI], M1} V$
☺ a. [ε.j <sub>1</sub> θ]			*
b. [ε.ɛ <sub>1</sub> θ]		*!	

## 3.2. A one-way adjusting variety: Castilian Spanish



- In **Castilian Spanish**, **\*M1/GLIDE<sub>[+HI]</sub>** is located at the top of the ranking, crucially above the relevant faithfulness constraints:

**\*M1/GLIDE<sub>[+HI]</sub>** >> \*M1/FRIC, ID-GLIDE, ID-GLIDE<sub>EX</sub> >> INTEGRITY

## 3.2. A one-way adjusting variety: Castilian Spanish



- In this variety, /j/ & /w/ are **maximally reinforced** in **word-initial M1**:

/w <sub>1</sub> e/lo	*M1/GLIDE <sub>[+HI]</sub>	*M1/FRIC	ID-GLIDE	ID-GLIDE <sub>EX</sub>	INTEGRITY
a. [w <sub>1</sub> e]	*!				*
b. [g <sub>1</sub> e]			*	*!	
c. [ɣ <sub>1</sub> w <sub>1</sub> e]		*!	*		
☺ d. [g <sub>1</sub> w <sub>1</sub> e]			*		

/j <sub>1</sub> u/go	*M1/GLIDE <sub>[+HI]</sub>	*M1/FRIC	ID-GLIDE	ID-GLIDE <sub>EX</sub>	INTEGRITY
a. [j <sub>1</sub> u]	*!				
b. [ɟ <sub>1</sub> u]			*	*	
☺ c. [dɟ <sub>1</sub> u]		*!	*	*	

## 3.2. A one-way adjusting variety: Castilian Spanish



- **Intervocalic M1** are reinforced, but **not maximally**. In our approach, this is due to the conjoined action of  $*M1/GLIDE_{[+HI]}$  and  $*VSTOP_{M1}V$  at the top of the ranking as well:

$*VSTOP_{M1}V, *M1/GLIDE_{[+HI]} \gg *M1/FRIC,$   
 $ID-GLIDE, ID-GLIDE_{EX} \gg INTEGRITY$

## 3.2. A one-way adjusting variety: Castilian Spanish



- Therefore, /j/ & /w/ are strengthened only into **fricatives**:

/aw <sub>1</sub> e/car	*VSTOP <sub>M1</sub> V	*M1/GL <sub>[+HI]</sub>	*M1/FRIC	ID-GL	ID-GL <sub>EX</sub>	INTEGRITY
a. [a.w <sub>1</sub> e]		*!				
b. [a.g <sub>1</sub> e]	*!			*	*	
☺ c. [a.ɣ <sub>1</sub> w <sub>1</sub> e]			*	*		*
d. [a.g <sub>1</sub> w <sub>1</sub> e]	*!			*		*

m/aj <sub>1</sub> o/	*VSTOP <sub>M1</sub> V	*M1/GL <sub>[+HI]</sub>	*M1/FRIC	ID-GL	ID-GL <sub>EX</sub>	INTEGRITY
a. [a.j <sub>1</sub> o]		*!				
☺ b. [a.ɟ <sub>1</sub> o]			*	*	*	
c. [a.dɟ <sub>1</sub> o]	*!			*	*	

### 3.3 A two-way adjusting variety: Majorcan Catalan



- **Majorcan Catalan** allows, as Eastern Central Catalan, **glides as M1 word-initially**; that is, the markedness constraint **\*M1/GLIDE<sub>[+HI]</sub>** (and **\*M1/GLIDE<sub>[-HI]</sub>**) must also be consistently outranked by the faithfulness constraints INTEGRITY & ID-GLIDE:

INTEGRITY, ID-GLIDE >> **\*M1/GLIDE<sub>[+HI]</sub>**

# 3.3 A two-way adjusting variety: Majorcan Catalan

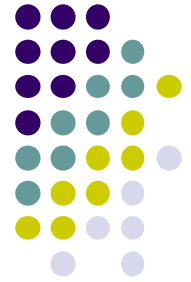


- Hence, glide reinforcements are discarded in favor of the faithful mapping:

<b>/w<sub>1</sub>ε/b</b>	<b>INTEGRITY</b>	<b>ID-GLIDE</b>	<b>*M1/GLIDE<sub>[+HI]</sub></b>
☺ a. [w <sub>1</sub> ε]			*
b. [v <sub>1</sub> ε]		*!	
c. [g <sub>1</sub> w <sub>1</sub> ε]	*	*!	

<b>/j<sub>1</sub>o/gurt</b>	<b>INTEGRITY</b>	<b>ID-GLIDE</b>	<b>*M1/GLIDE<sub>[+HI]</sub></b>
☺ a. [j <sub>1</sub> o]			*
b. [ɟ <sub>1</sub> o]		*!	

### 3.3 A two-way adjusting variety: Majorcan Catalan



- Given that glides are allowed in the strongest position —the initial position—, we expect them to be allowed intervocalically as well, unless...
- ...even less constricted segments are required by the pressure of the constraint **\*VGLIDE<sub>[+HI],M1</sub>V** in the ranking:

**\*VGLIDE<sub>[+HI],M1</sub>V**, ID-GLIDE >> **\*M1/GLIDE<sub>[-HI]</sub>**



# 3.3 A two-way adjusting variety: Majorcan Catalan



- With this ranking, the high glide [j] is **not open enough** to appear intervocalically and is replaced by the non-high glide [ɛ]:

f/əj <sub>1</sub> +ə/	*VGLIDE <sub>[+HI], M1</sub> V	ID-GLIDE	*M1/GLIDE <sub>[-HI]</sub>
a. [ə.j <sub>1</sub> ə]	*!		
☺ b. [ə.ɛ <sub>1</sub> ə]			*
c. [ə.ɰ <sub>1</sub> ə]		*!	

### 3.3 A two-way adjusting variety: Majorcan Catalan



- **Problem of the analysis:** We would expect the labiovelar glide to surface intervocalically as **a non-high glide [ɔ̞]**: i. e., *diuen* \*[di.ɔ̞ən].
- That is, it does not seem possible to derive the opposite outcomes for the intervocalic palatal glide and labiovelar glide from the same ranking.

### 3.3 A two-way adjusting variety: Majorcan Catalan



- Possible solution:

For alternations such as *diu* [diw] / *diuen* [di.vən], we could assume that the root displays **two allomorphs**, one with the labiovelar glide (/diw/) and the other with the labiodental fricative (/div/).

### 3.3 A two-way adjusting variety: Majorcan Catalan



- Moreover, we presume that the two allomorphs appear with the **lexical precedence** ‘fricative>glide’, as in **{div>diw}** for the root of *diuen*.
- The preference for the dominant allomorph is ensured by the **PRIORITY** constraint: “Respect lexical priority (ordering) of allomorphs” (Bonet *et al.* 2007: 902; Mascaró 2007: 726).

# 3.3 A two-way adjusting variety: Majorcan Catalan



- The fricative is selected between vowels, even though this outcome violates

**\*VFRIC**<sub>[+HI], M1</sub> **V**:

<i>/{/div/</i> <sub>1</sub> > <i>/diw/</i> <sub>2</sub> }+ən/	PRIORITY	VFRIC <sub>[+HI], M1</sub> V	*VGL <sub>[+HI], M1</sub> V	ID-GL	*M1/GL <sub>[-HI]</sub>
a. [i.w <sub>2</sub> ə]	*!		*!		
b. [i.ɔ <sub>2</sub> ə]	*!				*
☺ c. [i.v <sub>1</sub> ə]		*			

# 3.3 A two-way adjusting variety: Majorcan Catalan



- Yet, in M2 the constraint **\*M2/FRICATIVE** could still enforce the selection of the form with a high glide:

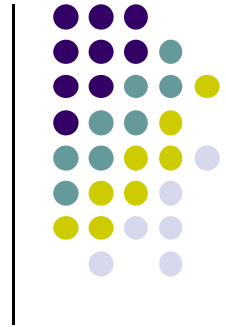
<i>/{/div/₁ &gt; /diw/₂}/</i>	<b>*M2/FRIC</b>	<b>PRIORITY</b>	<b>ID-GL</b>	<b>ID-[HI]</b>	<b>*M2/GL<sub>[+HI]</sub></b>
☺ a. [diw₂]		*			*
b. [di <sub>o</sub> ₂]		*		*!	
c. [div₁]	*!		*		



## Conclusions

- **Different languages** can make **different requirements** with respect to the presence of glides in the syllable margins.

# Conclusions



Faithfulness



\*M2/GL<sub>[+HI]</sub>



# Conclusions



Faithfulness



$*M2/GL_{[+HI]}$



Faithfulness



$*M1/GL_{[+HI]}$   
 $(*VGLIDE_{[+HI]}, M1 V)$

# Conclusions



Faithfulness



\*M2/GL<sub>[+HI]</sub>



Faithfulness

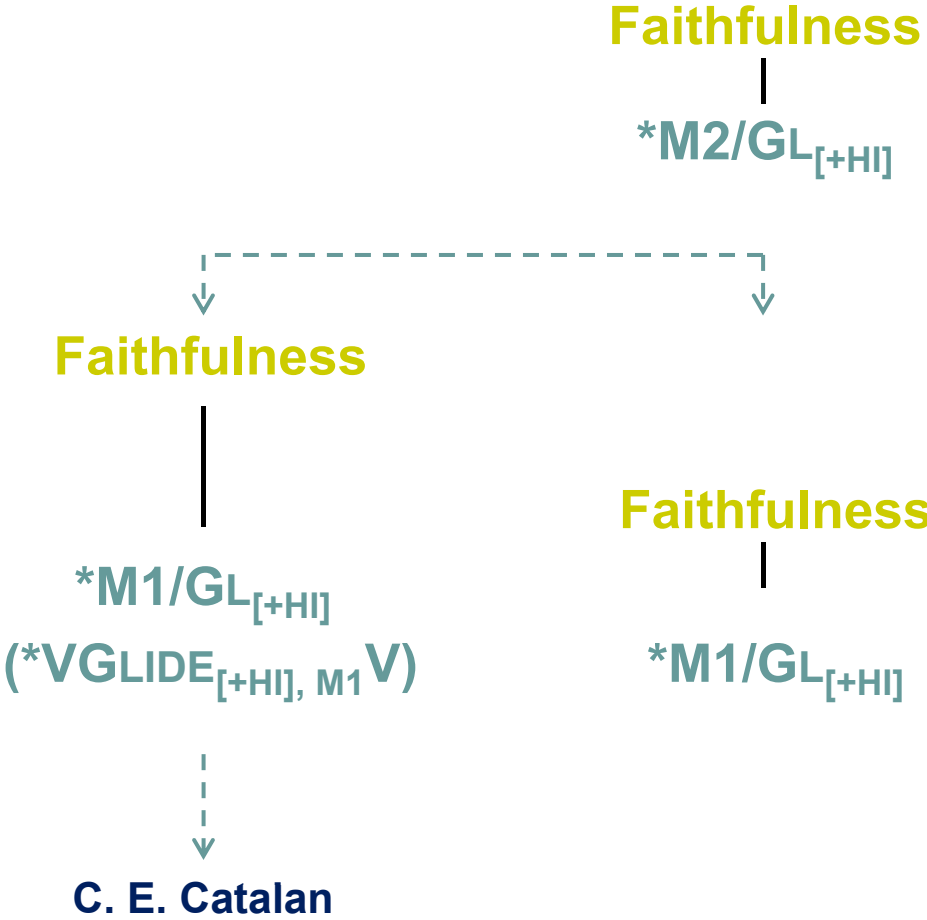


\*M1/GL<sub>[+HI]</sub>  
(\*VGLIDE<sub>[+HI]</sub>, M1 V)

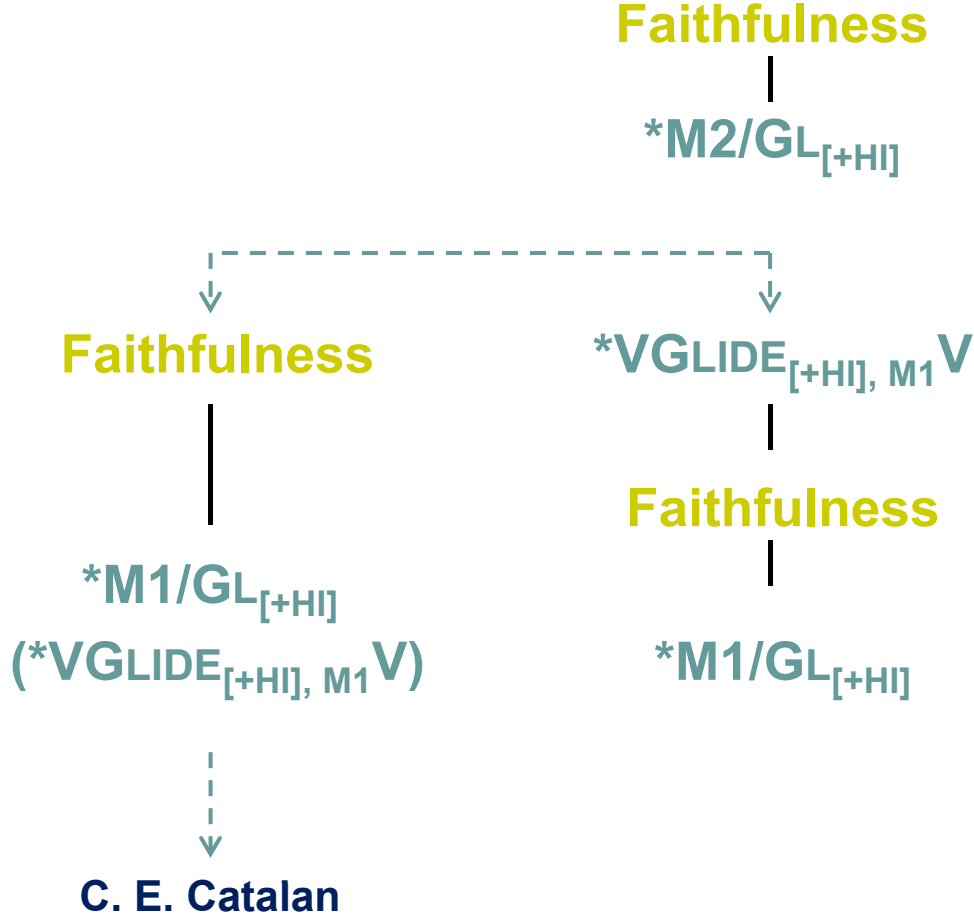


C. E. Catalan

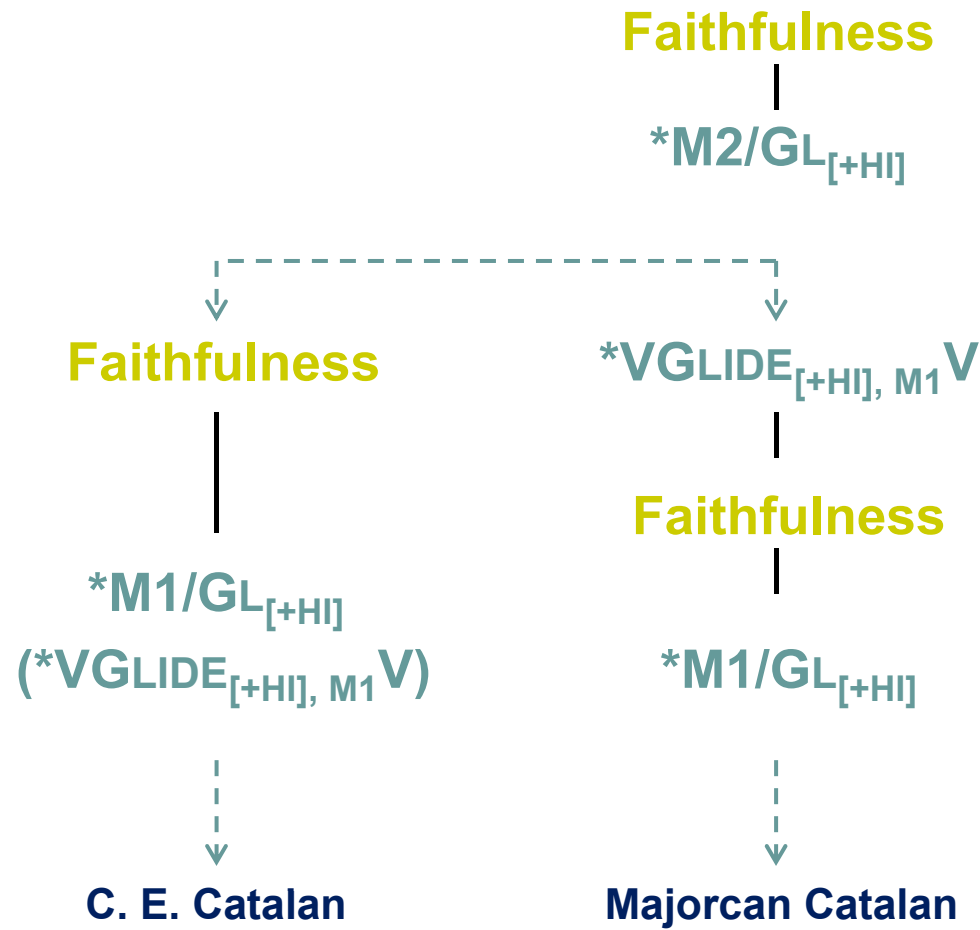
# Conclusions



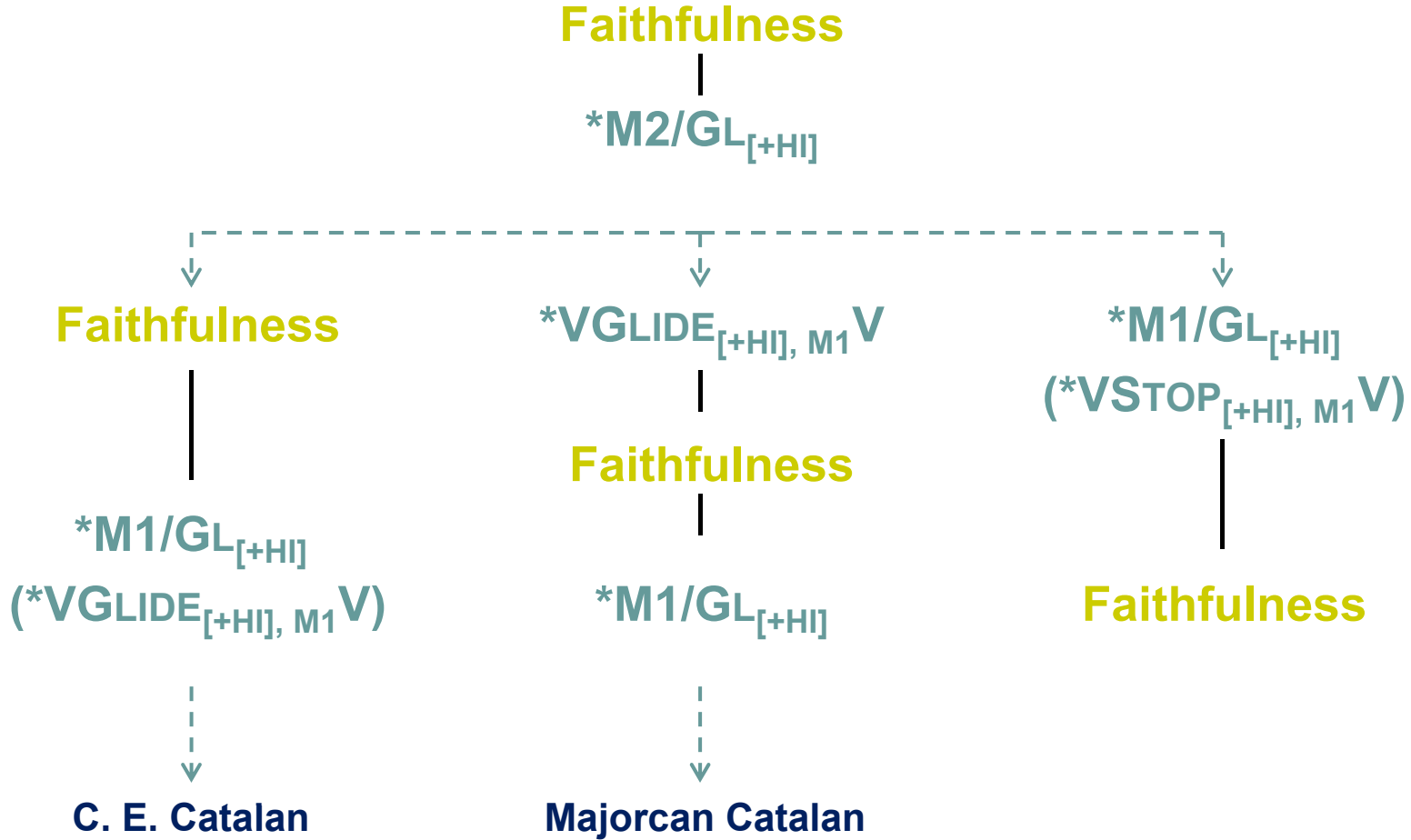
# Conclusions



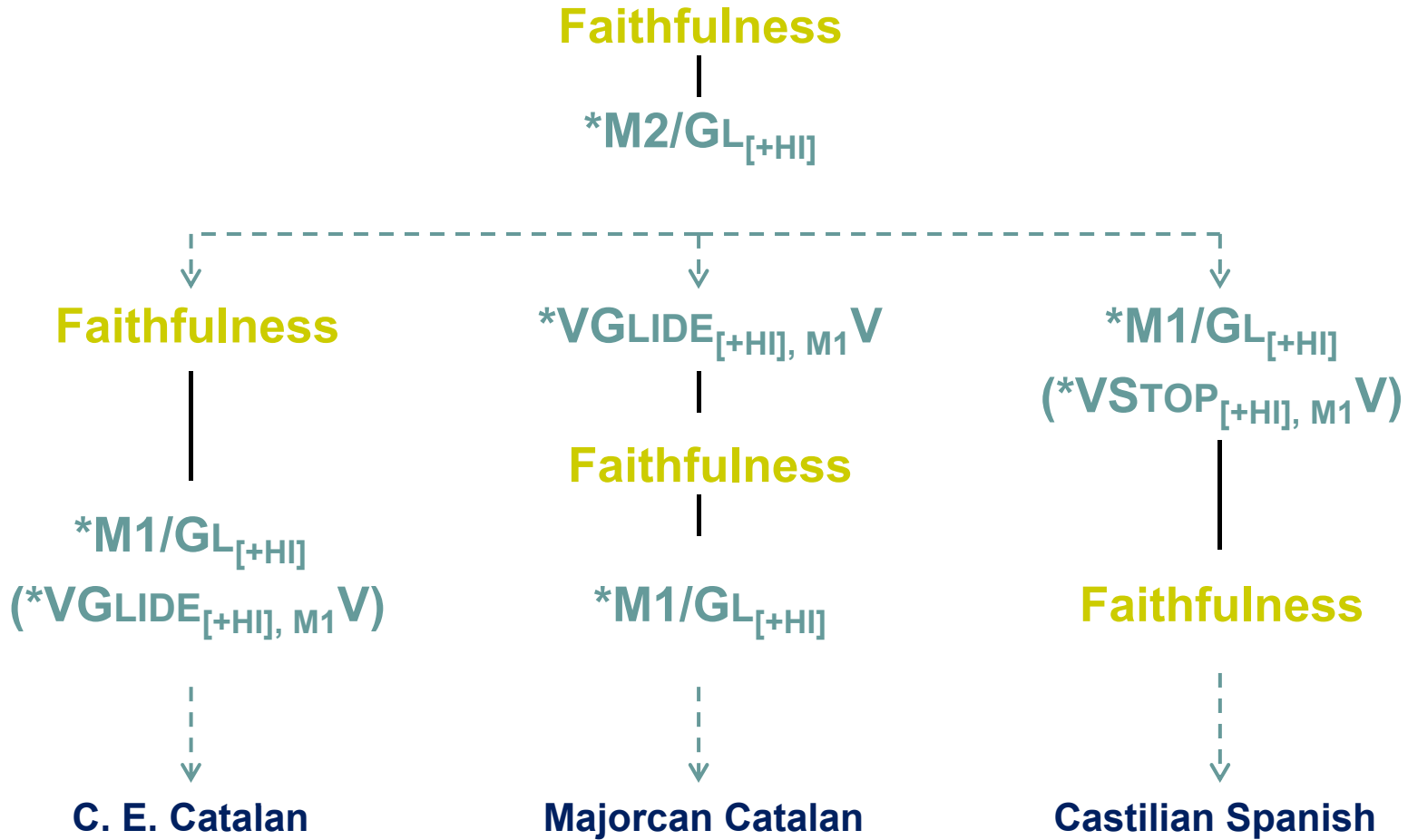
# Conclusions



# Conclusions



# Conclusions





## Conclusions

- The **split margin hierarchy** (Baertsch 2002) motivates most of the variation that Catalan & Spanish display:
  - More sonorous segments are preferred in M2
  - Less sonorous segments are preferred in M1





## Conclusions

- We must consider, though, **segmental strings** to incorporate specific requirements affecting intervocalic onsets.
- The behavior of /j/ in Majorcan Catalan shows that the **intervocalic position** is not a structural version of M2, but a **position with specific demands**; in this case, a lower degree of stricture than M2.

# References

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**Et ça [j] est. Merci pour votre attention!**

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