The Spelling

of

<rough>

<rough>

↑   ↑

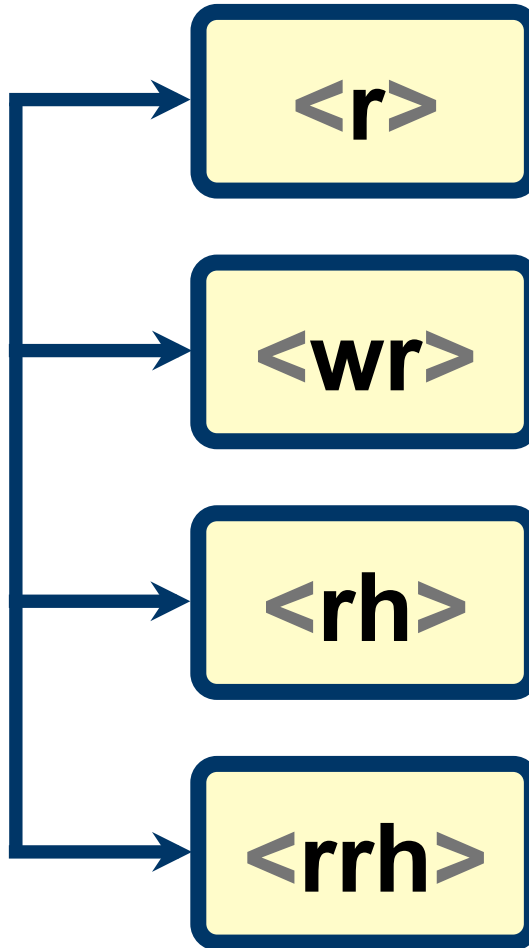enclosing
alphabetic letters

/rʌf/

↑   ↑

enclosing
IPA symbols

/rʌΛf/

<rough> /rʌf/

/ r /
→ **<r>**
→ **<wr>**
→ **<rh>**
→ **<rrh>**

/rʌf/

<other

<does>

<month>

<some>

/rʌf/

<double>
<couple>
<cousin>
<touch>

<rough>   /rʌf/

?

<ou gh>

<o ugh>

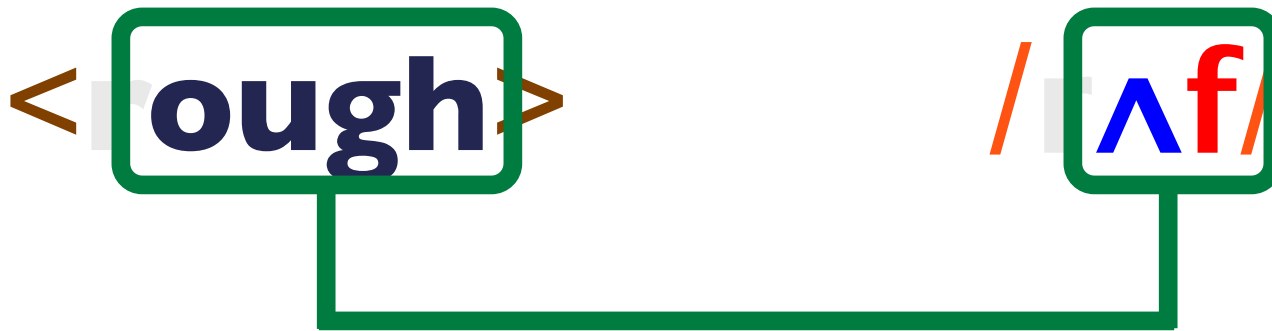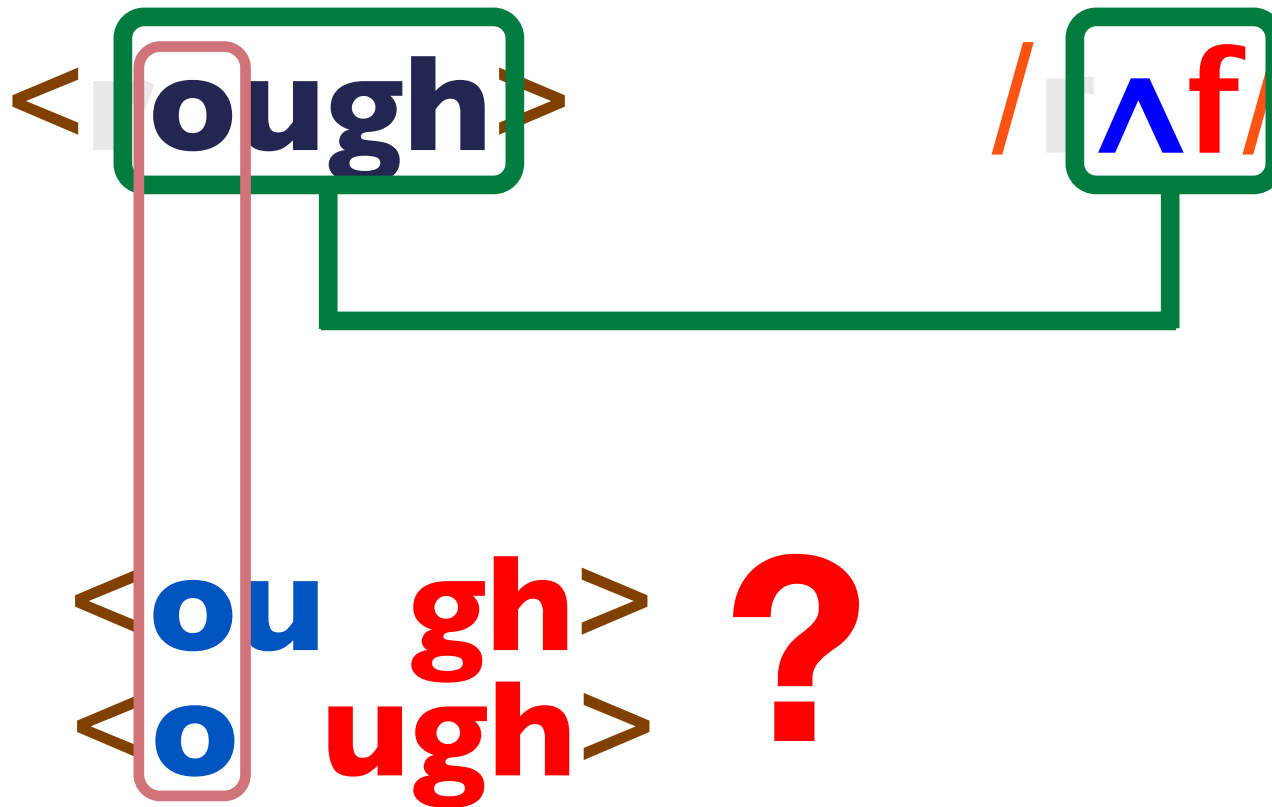<R**ough**> /rʌf/

<**ou** gh> <**o** ugh> **?**

We need to assemble an evidence bank of words
whose spellings have final <**ugh**>
and whose final phoneme is /**f**/.

Evidence Bank

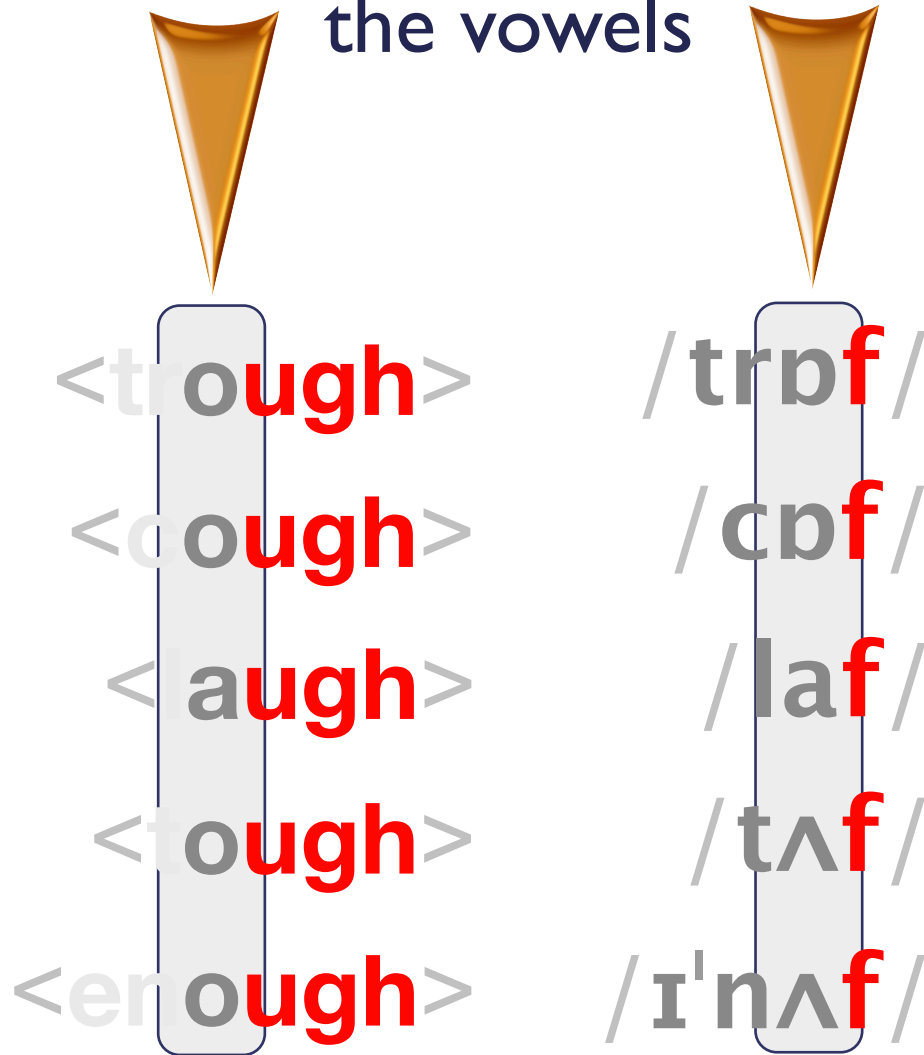| Spellings with final <**ugh**>	with final phoneme /**f**/
<**tro**ugh>	/trɒf/
<**co**ugh>	/cɒf/
<**la**ugh>	/laf/
<**to**ugh>	/tʌf/
<**eno**ugh>	/ɪˈnʌf/

<**ugh**> *in the spellings corresponds with* /**f**/

The position occupied by the vowels

Further evidence that the trigraph <ugh> is representing the phoneme /f/

<tr**o**ugh> /tr**ɒf**/

<c**o**ugh> /c**ɒf**/

<l**a**ugh> /l**af**/

<t**o**ugh> /t**ʌf**/

<en**o**ugh> /ɪ'n**ʌf**/

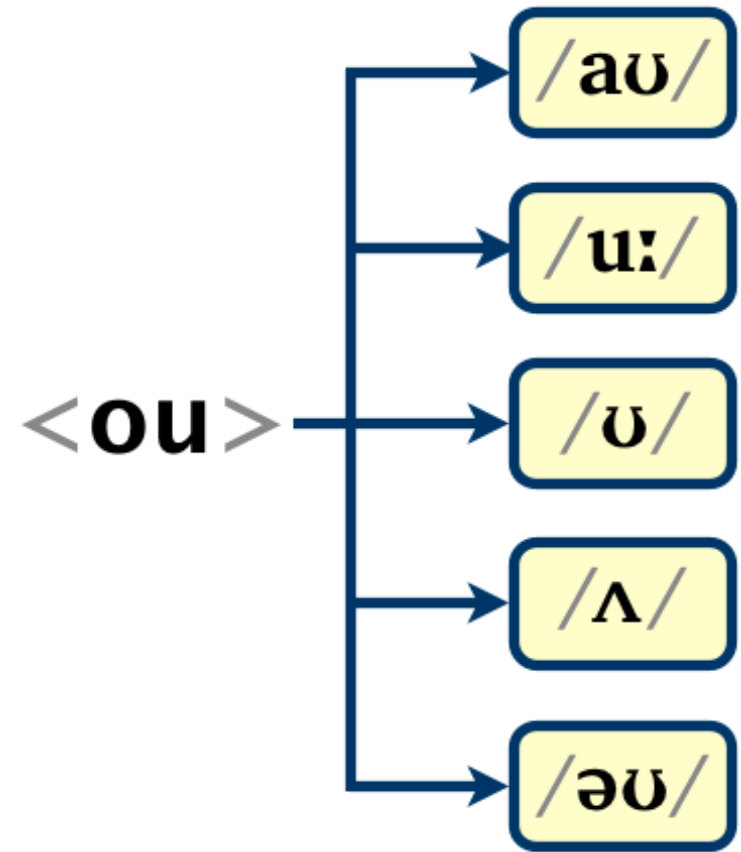*The trigraph <**ugh**> is stable for the phoneme /f/.*

But...

the vowel position in these spellings is occupied by differing graphemes and phonemes.
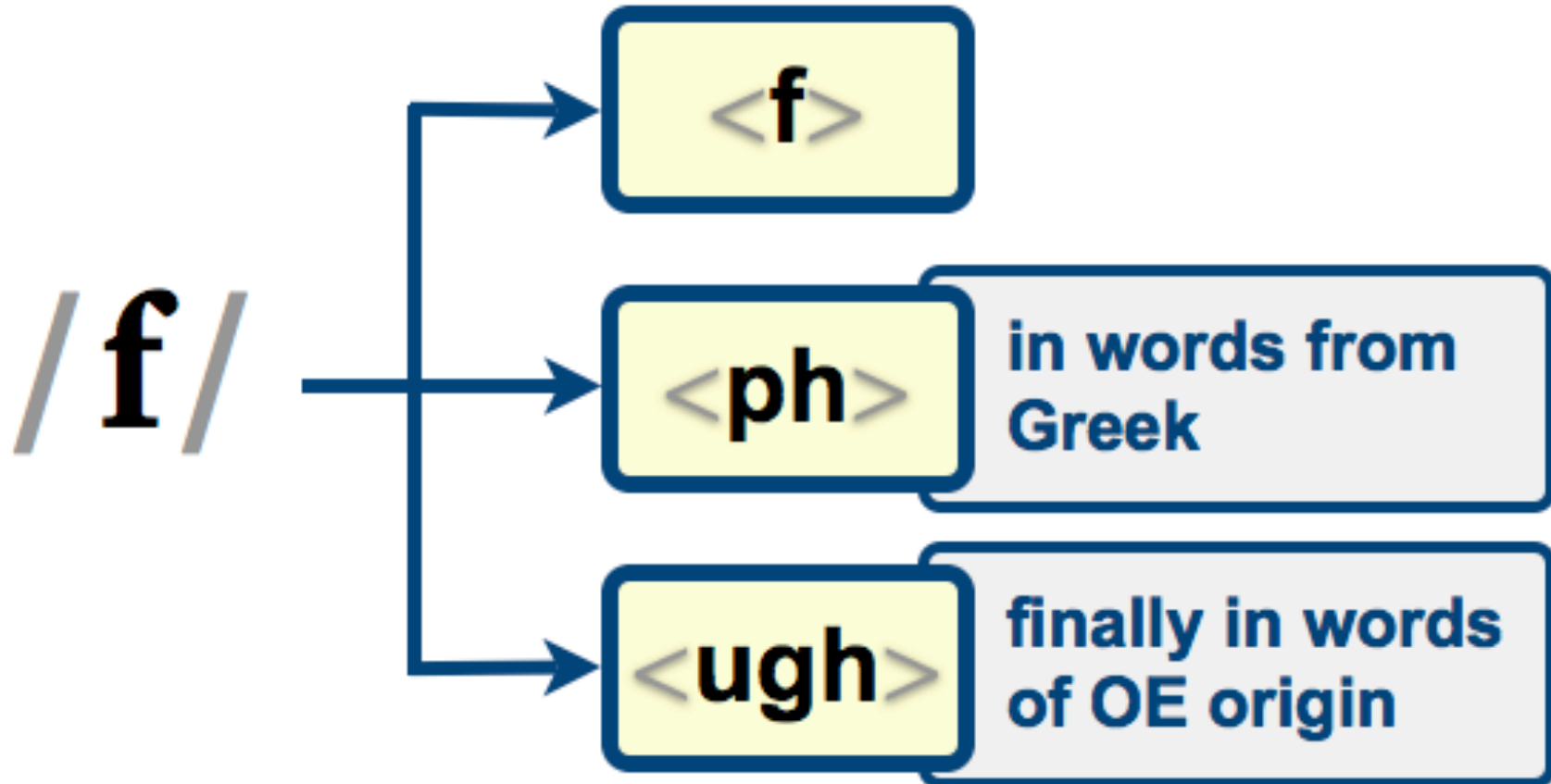
Further evidence that the graphemic analysis is not

<**ou** **gh**>

<tr**ough**> /trɒ**f**/

<c**ough**> /cɒ**f**/

<la**ugh**> /lɑ**f**/

<t**ough**> /tʌ**f**/

<en**ough**> /ɪˈnʌ**f**/

<**ou**> → /aʊ/

<**ou**> → /uː/

<**ou**> → /ʊ/

<**ou**> → /ʌ/

<**ou**> → /əʊ/

<**ou**> ✗→ /ɒ/

The Orthographic Phonology
of the
Phoneme /f/

/ f /

<f>

<ph> in words from Greek

<ugh> finally in words of OE origin

The Homophones
Pronounced /rʌf/

<ruffle>

<rough>

Writing initial /r/

/r/

- **<r>**
- **<wr>** — initial: in words with an idea of "twisting"
- **<rh>** — only initial — in words of Greek origin
- **<rrh>** — medial or final — in words of Greek origin
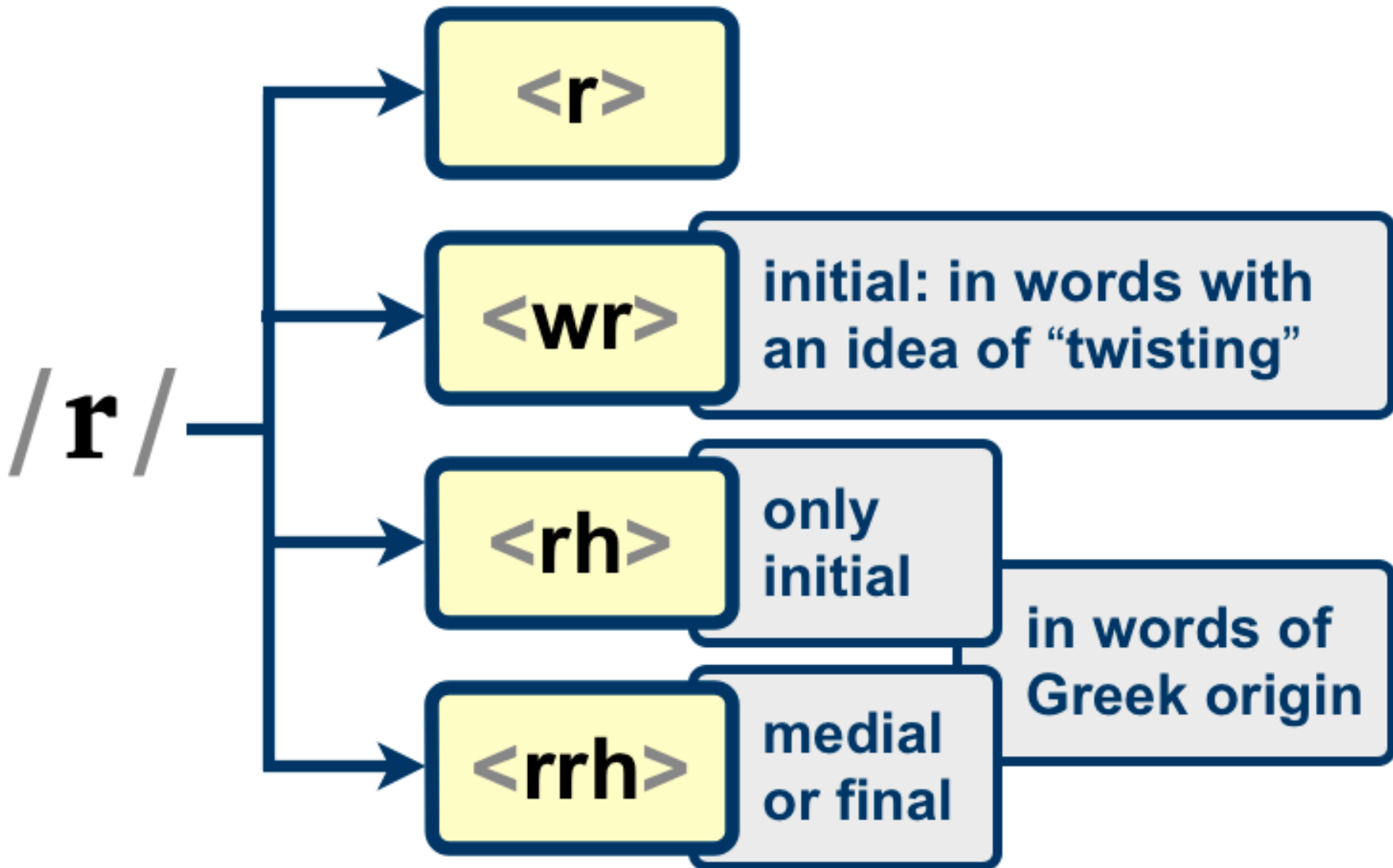
Learning from the Name
of the
Letter <w>

a e i o u   ←single U

y

double U

< w > ←
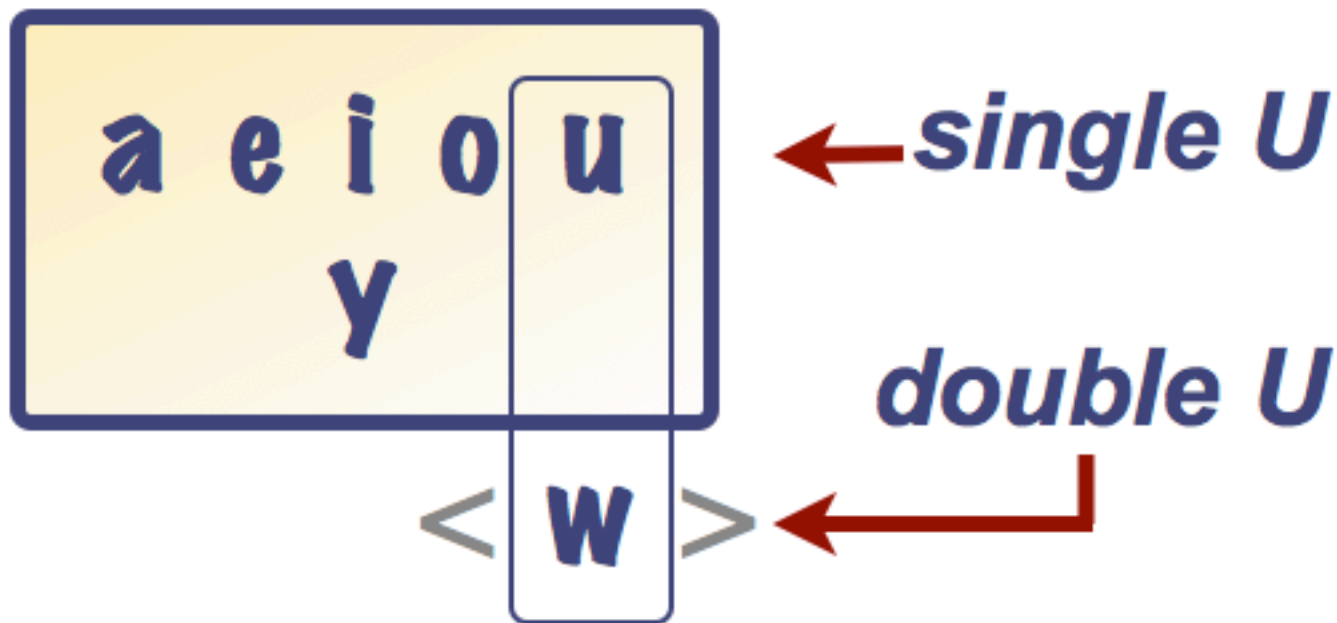
Letter Toggling
In English Orthography

From Phonological Representation To Finished Spelling

/rʌf/

<rough>

<rough>

a	e	i	o	u

y

Tool Box 2
REAL SPELLING
Always making sense

The trigraph <ugh>
and other graphemes
for the phoneme /f/