# Curious Code on on Wikipedia

David Branner Hack && Tell, New York 20150826

## English Wikipedia pages contain some strange code

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```
<div id="p-variants"
    role="navigation"
    class="vectorMenu emptyPortlet"
    aria-labelledby="p-variants-label">
    <h3 id="p-variants-label">
        <span>Variants</span><a href="#"></a>
    </h3>
    <div class="menu">

    </div>
    </div>
</div></div>
```

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This p-variants div generates a "Variants" list, invisible on English pages because of class "emptyPortlet".

• French: ...<span>Variantes</span>...

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- Nepali: ...<span>बहुरुपहरु</span>...

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- Japanese ... < span>変種 < / span>...

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- Russian ...<span>Варианты</span>...

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- Japanese ...<span>変種</span>...
- Russian ...<span>Варианты</span>...
- Georgian ...<span>ვარიანტები</span>...

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none of which heads a list on the page in question.

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- and so on,

none of which heads a list on the page in question.

That is the situation on pages for most languages.

For one, on Serbian pages:

https://sr.wikipedia.org/wiki/Пјатра\_Њамц

### For one, on Serbian pages:

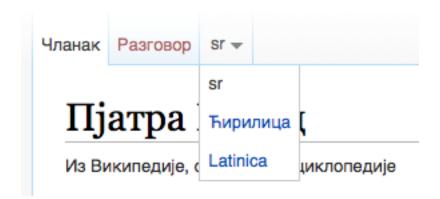
https://sr.wikipedia.org/wiki/Пјатра\_Њамц

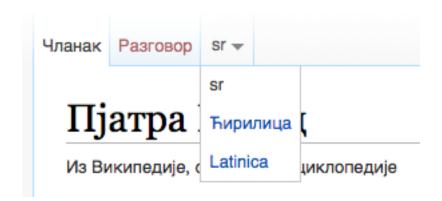
```
... <span>sr</span><a href="#"></a> ...
  <div class="menu">
     <111>
        id="ca-varlang-0" class="selected"><a</li>
href="/sr/Пјатра Њамц" lang="sr" hreflang="sr" >sr</
a>
        id="ca-varlang-1"><a href="/sr-ec/</li>
Пјатра Њамц" lang="sr-EC" hreflang="sr-EC" > Ћирилица</
a>
        id="ca-varlang-2"><a href="/sr-el/"
Пјатра Њамц" lang="sr-EL" hreflang="sr-EL" >Latinica</
a>
     </div>
```

### For one, on Serbian pages:

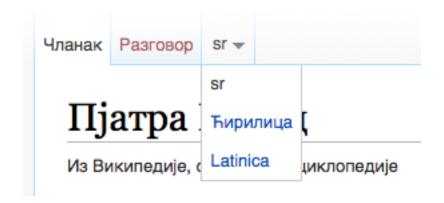
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Пјатра Њамц" lang="sr-EL" hreflang="sr-EL" > Latinica < /
a>
     </div>
```





allowing the user to select which of two scripts

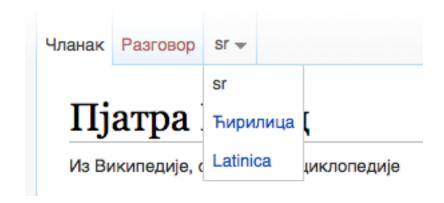


allowing the user to select which of two scripts — "Ћирилица" (Cyrillic) or "Latinica" (Roman) the content appears in.



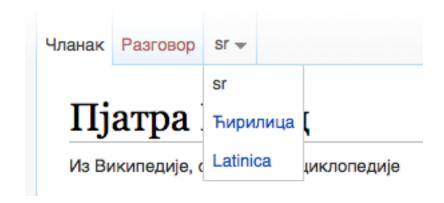
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The two forms of the page have identical content



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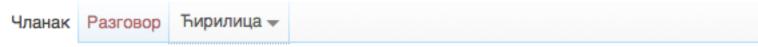
The two forms of the page have identical content — the only difference is which script that content is displayed in.



allowing the user to select which of two scripts — "Ћирилица" (Cyrillic) or "Latinica" (Roman) the content appears in.

The two forms of the page have identical content — the only difference is which script that content is displayed in. Different Serbian-speakers may read in either script.

### Cyrillic:



### Пјатра Њамц

Из Википедије, слободне енциклопедије

Пјатра Њамц (рум. *Piatra Neamt*) је град у Румунији, у источном делу земље, у ист управно средиште округа Њамц.

Пјатра Њамц има површину од 77,4 km, на којој је по последњем попису из 2002. г

### Cyrillic:



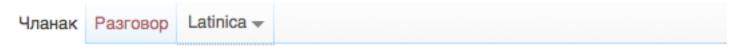
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#### Roman



### Pjatra Njamc

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Pjatra Njamc (rum. Piatra Neamt) je grad u Rumuniji, u istočnom delu zemlje, u isto središte okruga Njamc.

Pjatra Njamc ima površinu od 77,4 km, na kojoj je po poslednjem popisu iz 2002. go

I doubled a word in the Cyrillic version:

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на којој је по последњем попису из 2002.

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and it immediately doubled itself in the Roman version:

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### and it immediately doubled itself in the Roman version:

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## (Yes, I deleted it afterwards. And yes, it disappeared immediately from both versions.)

Cyrillic Roman

Tajik: кирилликй lotinī

Cyrill	lic	Roman
Cyriii	IIC	KOI

Tajik:	кирилликӣ	lotinī
Uzbek:	кирилл	lotin

	Cyrillic	Roman	Arabic
Tajik:	кирилликй	lotinī	
Uzbek:	кирилл	lotin	
Valiala		Tîpên	Tîpên
Kurdish:		latînî	erebî

	Cyrillic	Roman	Arabic
Tajik:	кирилликй	lotinī	
Uzbek:	кирилл	lotin	
Kurdish:		Tîpên latînî	Tîpên erebî
Kazakh:	Кирил	Latin	توته

	Cyrillic	Roman	Arabic
Tajik:	кирилликй	lotinī	
Uzbek:	кирилл	lotin	
Kurdish:		Tîpên latînî	Tîpên erebî
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	Cyrillic	Roman	Arabic	Ś
Tajik:	кирилликй	lotinī		
Uzbek:	кирилл	lotin		
Kurdish:		Tîpên latînî	Tîpên erebî	
Kazakh:	Кирил	Latın	توته	
Ś				1002072P

	Cyrillic	Roman	Arabic	Syllabics
Tajik:	кирил ликӣ	lotinī		
Uzbek:	кирил	lotin		
Kurdish:		Tîpên latînî	Tîpên erebî	
Kazakh:	Кирил	Latin	توته	
Inuktitut:		ilisautik		1002072P PC20

Canadian

**Aboriginal** 

**Aboriginal Syllabics** Roman Arabic Cyrillic Tajik: кириллики lotinī Uzbek: lotin кирилл Tîpên Tîpên Kurdish: latînî erebî توټه Kazakh: Кирил Latin ilisautik Inuktitut:

and Chinese...

Canadian

Chinese has up to eight options in the p-variants menudiv:

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不转换 [no transformation – may be mixed forms]

简体 [generic simplified forms]

繁體 [generic traditional forms]

大陆简体 [Mainland China simplified forms]

香港繁體 [Hong Kong traditional forms]

澳門繁體 [Macao traditional forms]

马新简体 [Malaysia-Singapore simplified forms]

台灣正體 [Taiwan "official" forms (avoids "繁體")]

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Why does Chinese need the last five regional forms? Aren't generic "simplified" and "traditional" enough?

The ideal being followed on Chinese Wikipedia is to have "字词转换" [character or word transformation]

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generic simplified:

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As an example, here are the three names registered for the title of the movie "The Matrix":

#### generic simplified:

黑客帝国 [Hacker Empire]

#### Hong Kong:

廿二世紀殺人網絡 [22nd Century Web of Murder]

#### Taiwan:

駭客任務 [Hacker Duty] (different word for "hacker")

#### Here are transcriptions of Hillary Clinton's name:

Mainland China:希拉里 [Xīlālǐ]

Hong Kong: 希拉莉 [Xīlālì]

Taiwan: 希拉蕊 [Xīlāruǐ]

#### Here are transcriptions of Hillary Clinton's name:

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Hong Kong: 希拉莉 [Xīlālì]

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### Here is Oprah Winfrey:

Mainland China: 奥普拉·温弗里 [Àopǔlā Wēnfúlǐ]

Hong Kong: 奥花·雲費 [Àohuā Yúnfèi]

Taiwan: 歐普拉·溫芙蕾 [Ōupǔlā Wēnfúléi]

"highway junction / interchange":

Mainland China:立交桥 [elevated intersection bridge]

Hong Kong: 交匯處 [convergence place]

Taiwan: 交流道 [exchange road]

"highway junction / interchange":

Mainland China:立交桥 [elevated intersection bridge]

Hong Kong: 交匯處 [convergence place]

Taiwan: 交流道 [exchange road]

"motor":

Mainland China: 电动机 [electric machine]

Hong Kong: 摩打 [módǎ (phonetic transcription)]

Taiwan: 馬達 [mǎdá (phonetic transcription)]

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- Hong Kong often but not always reflects Cantonese pronunciation, but it can be read off in Mandarin.
- Most often it is Taiwan and Mainland China that have different words; Hong Kong appears less often, and Macao and Malaysia-Singapore are very rare.

I attribute this to the Chinese tradition of viewing Chinese language as being a single entity, however varied regionally. I used to teach a course in varieties (accents, syntax, and diction) of Mandarin, and these regional synonyms were a useful resource.

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Not only page titles but sometimes many other words are assigned regional synonyms. The words are placed in a div with a special attribute, data-noteta-code:

```
<div class="noteTA-title"</pre>
    data-noteta-code="zh-cn:贝拉克·奥巴马; zh-tw:巴拉克·歐巴馬; zh-
hk:巴拉克·奧巴馬:">
</div> ...
<div class="noteTA-local">
<div data-noteta-code="zh-cn:肯尼亚; zh-tw:肯亞; zh-hk:肯雅;"></div>
<div data-noteta-code="zh-cn:可卡因; zh-tw:古柯鹼; zh-hk:可卡因;"></
div>
<div data-noteta-code="zh-cn:伊利诺伊州; zh-tw:伊利諾州; zh-hk:伊利諾
伊州:"></div>
<div data-noteta-code="zh-cn:火奴鲁鲁; zh-tw:檀香山; zh-hk:檀香
山:"></div>
<div data-noteta-code="zh-cn:新罕布什尔州; zh-tw:新罕布夏州; zh-hk:新
罕布什爾州;"></div>
<div data-noteta-code="zh-cn:切尔西·克林顿; zh-hk:切爾西·克林頓; zh-
tw: 雀兒喜·柯林頓"></div>
<div data-noteta-code="zh-cn:希拉里; zh-hk:希拉莉; zh-tw:希拉蕊"></
div>
<div data-noteta-code="zh-cn:米歇尔: zh-tw:蜜雪兒: zh-hk:米歇爾"></
div>
<div data-noteta-code="zh-cn:奥普拉·温弗里; zh-hk:奧花·雲費; zh-tw:歐
普拉·溫芙蕾"></div>
<div data-noteta-code="zh-cn:乔治·克鲁尼; zh-tw:喬治·克隆尼; zh-hk:佐
治·古尼:"></div>
<div data-noteta-code="zh-cn:格莱美奖; zh-tw:葛萊美獎; zh-hk:格林美
獎"></div> ...
```

It seems possible that this content is being supplied automatically from an external reference (rather than being assembled descriptively from actual pages), although if so I haven't located such a source yet. It seems possible that this content is being supplied automatically from an external reference (rather than being assembled descriptively from actual pages), although if so I haven't located such a source yet.

In the mean time, it's a simple matter to scrape this content using the 1xm1 module:

Notice how many more words than just the title are supplied:

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```
In [1]: import scrape as S
ln [2]: S.get words('黑客帝国') # English: 'The Matrix'
Out[2]:
[{'zh-hk': '廿二世紀殺人網絡', 'zh-hans': '黑客帝国', 'zh-tw': '駭客任
務'},
 {'zh-hant': '尼歐', 'zh-hans': '尼奥'},
 {'zh-hant': '母體', 'zh-hans': '矩阵'},
 {'zh-cn': '史密斯特工', 'zh-hk': '史特工', 'zh-tw': '史密斯探員'},
 {'zh-cn': '托马斯·安德森', 'zh-hk': '安湯武', 'zh-tw': '湯瑪斯·安德
森'}.
 {'zh-cn': '艾波克', 'zh-hk': '天啟', 'zh-tw': '艾巴'},
 ['zh-cn': '开关', 'zh-hk': '變體', 'zh-tw': '蘇薇琪'},
 {'zh-cn': '塞弗', 'zh-hk': '暗碼', 'zh-tw': '塞佛'},
 {'zh-cn': '坦克', 'zh-hk': '戰車', 'zh-tw': '坦克'},
 {'zh-cn': '多泽', 'zh-hk': '推土機', 'zh-tw': '道瑟'},
 {'zh-cn': '耗子', 'zh-hk': '滑鼠', 'zh-tw': '茂史'},
 {'zh-cn': '先知', 'zh-hk': '祭司', 'zh-tw': '先知'},
 {'zh-cn': '重装上阵', 'zh-hk': '決戰未來', 'zh-tw': '重裝上陣'},
 {'zh-cn': '矩阵革命', 'zh-hk': '驚變世紀', 'zh-tw': '最後戰役'},
 {'zh-hant': '程式', 'zh-hans': '程序'}]
```

```
In [3]: s.get_words('馬達') # English: 'motor'
Out[3]: [{'zh-hk': '摩打', 'zh-hans': '电动机', 'zh-tw': '馬達'}]
```

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In [3]: s.get_words('馬達') # English: 'motor'
Out[3]: [{'zh-hk': '摩打', 'zh-hans': '电动机', 'zh-tw': '馬達'}]

In [4]: S.get_words('程式') # English: 'computer program'
Out[4]:
[{'zh-hant': '電腦程式', 'zh-hans': '计算机程序'},
{'zh-hant': '執行', 'zh-hans': '运行'},
{'zh-hant': '程式設計', 'zh-hans': '编程'},
{'zh-hans': '计算机', 'zh-mo': '電腦', 'zh-sg': '计算机', 'zh-cn': '计算机', 'zh-hant': '電腦', 'zh-tw': '電腦', 'zh-hk': '電腦'},
{'zh-hant': '程式', 'zh-hans': '程序'},
{'zh-hk': '軟件', 'zh-cn': '软件', 'zh-hans': '软件', 'zh-tw': '軟體'}]
```

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'计算机', 'zh-hant': '電腦', 'zh-tw': '電腦', 'zh-hk': '電腦'},
 {'zh-hant': '程式', 'zh-hans': '程序'},
{'zh-hk': '軟件', 'zh-cn': '软件', 'zh-hans': '软件', 'zh-tw': '軟
體'}]
In [5]: S.get_words('滑鼠') # English: 'computer mouse'
Out[5]:
[{'zh-hant': '滑鼠', 'zh-hans': '鼠标', 'zh-sg': '滑鼠'},
{'zh-hant': '滑鼠', 'zh-hans': '鼠标', 'zh-sg': '滑鼠'},
{'zh-hk': '鐳射', 'zh-hans': '激光', 'zh-tw': '雷射', 'zh-sg': '镭
射'}.
 {'zh-hant': '簡報', 'zh-hans': '演示'},
 {'zh-hant': '光學', 'zh-hans': '光电', 'zh-sg': '光学'}]
```

```
In [3]: s.get words('馬達') # English: 'motor'
Out[3]: [{'zh-hk': '摩打', 'zh-hans': '电动机', 'zh-tw': '馬達'}]
In [4]: S.get_words('程式') # English: 'computer program'
Out[4]:
[{'zh-hant': '電腦程式', 'zh-hans': '计算机程序'},
 {'zh-hant': '執行', 'zh-hans': '运行'},
 {'zh-hant': '程式設計', 'zh-hans': '编程'},
 {'zh-hans': '计算机', 'zh-mo': '電腦', 'zh-sg': '计算机', 'zh-cn':
'计算机', 'zh-hant': '電腦', 'zh-tw': '電腦', 'zh-hk': '電腦'},
 {'zh-hant': '程式', 'zh-hans': '程序'},
{'zh-hk': '軟件', 'zh-cn': '软件', 'zh-hans': '软件', 'zh-tw': '軟
體'}]
In [5]: S.get_words('滑鼠') # English: 'computer mouse'
Out[5]:
[{'zh-hant': '滑鼠', 'zh-hans': '鼠标', 'zh-sg': '滑鼠'},
 {'zh-hant': '滑鼠', 'zh-hans': '鼠标', 'zh-sg': '滑鼠'},
{'zh-hk': '鐳射', 'zh-hans': '激光', 'zh-tw': '雷射', 'zh-sg': '镭
射'}.
 {'zh-hant': '簡報', 'zh-hans': '演示'},
 {'zh-hant': '光學', 'zh-hans': '光电', 'zh-sg': '光学'}]
```

#### Lesson? Be surprised at what is hidden on the Web...

# End