





World languages / leithoedd y Byd

- > 7,000 language / iaith
- 90% <100,000 speakers / siaradwr
- 832 Papua New Guinea
- 260 Ewrop
- 46 with one speaker / 46 gydag un siaradwr

(UNESCO, Infolang, BBC Languages)

League position Ble mae'r Gymraeg?

Where does Welsh come in the league table of the 7,000 world languages, listed by 'number of speakers'?

Wrth resti'r 7,000 o ieithoedd y byd yn nhrefn nifer siaradwyr, ble mae'r Gymraeg?

172

SUIT YOUR STYLE



Customise your Amazon Echo Dot for any room with the optional Echo Dot Case. Available in leather or fabric and a range of colours.



Saddle Tan Leather



Bordeaux Leather



Midnight Leather



Indigo Fabric



Charcoal Fabric



Sandstone Fabric

Simple to Set Up & Use

The challenge for all Celtic and other languages

The **technology** can dictate which language your family can speak at home.

So you've got to try to make the technology understand and speak **your** language.

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amazon echo

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Roll over image to zoom in

Amazon Echo

from Amazon

★★★★☆ 26,048 customer reviews

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- Plays music from Amazon Music, Prime Music, Pandora, iHeartRadio, TuneIn, and more

[Jump to: Key features](#) | [Technical details](#)



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“A perfect 10”
— ZDNet

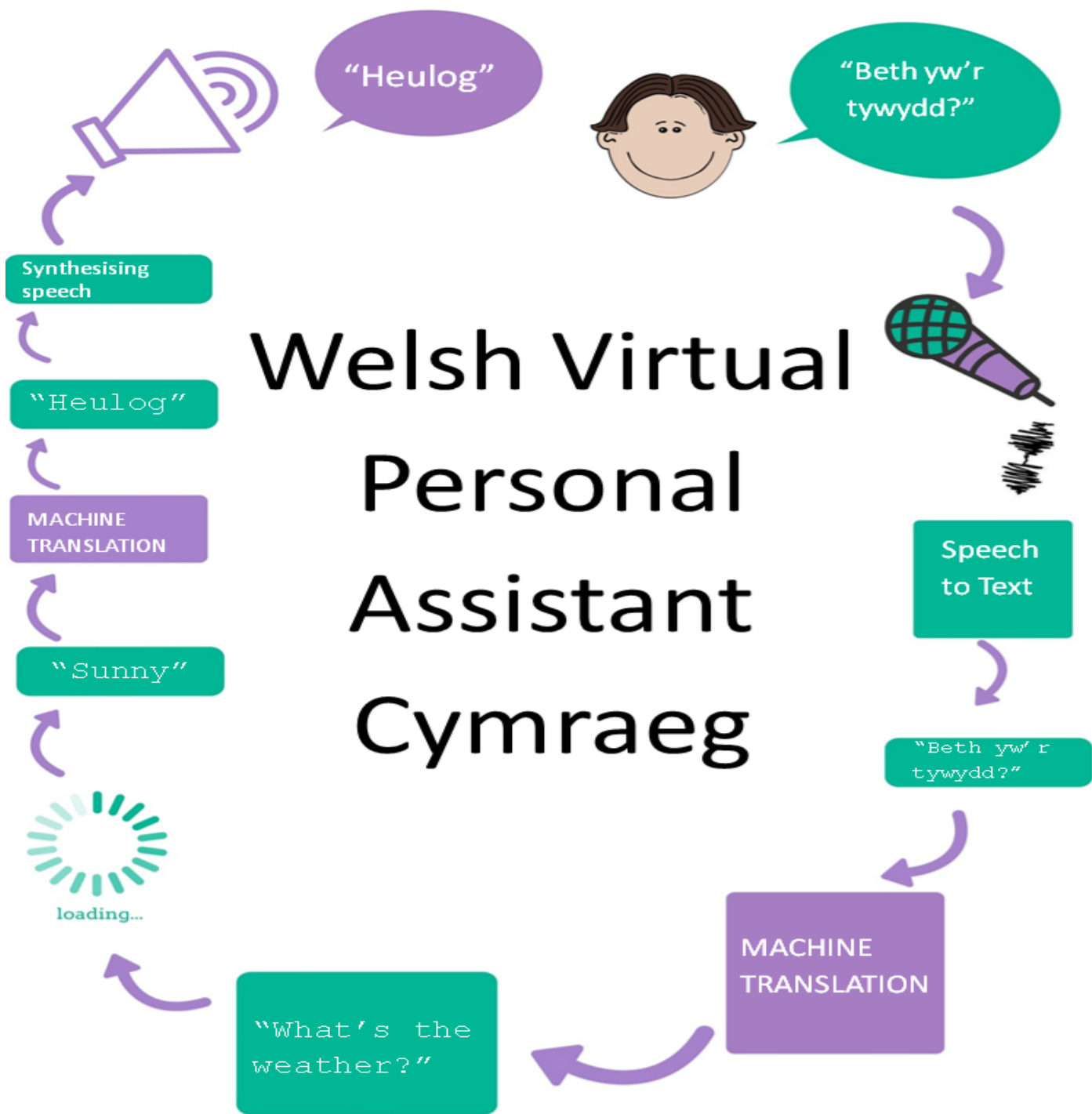
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— CNET

“Echo could hear my voice even when music was playing loudly...”
— USA Today

“With Amazon Echo, it was love at first sight.”
— Re/code

To make a Siri, Dot or Google Home, you need:

1. **Speech to text** in your language (matched audio/text, pronunciation dictionary, Kaldi or similar)
2. **Machine translation** which is good in both directions (neural networks helping)
3. Some kind of **artificial intelligence** to make sense of the semantics (I'm simplifying)
4. Synthetic **voice** or text to speech
5. **Buy-in** from Google, Nuance, Apple, Amazon..



**So, how many
languages do the
big guns support?**

Sawl iaith mae'r cwmnïau mawrion yn cefnogi go iawn?

**Gareth Morlais**

@digitalst

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Change your basic account and language settings.

Thanks, your settings have been saved.

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Security and privacy

Password

Cards and shipping

Order history

Mobile

Email notifications

Web notifications

Find friends

Muted accounts

Blocked accounts

Design

Apps

Username

Email

Language

Time zone

Content

Country

Tweet media

Select Language...

Bahasa Indonesia - Indonesian

Bahasa Melayu - Malay

Català - Catalan

Čeština - Czech

Dansk - Danish

Deutsch - German

English

English UK - British English

Español - Spanish

Euskara - Basque (beta)

Filipino

Français - French

Gaeilge - Irish (beta)

Galego - Galician (beta)

Hrvatski - Croatian

Italiano - Italian

LOLCATZ - Lolcat (beta)

Magyar - Hungarian

Nederlands - Dutch

Norsk - Norwegian

Polski - Polish

Português - Portuguese

Română - Romanian

Slovenčina - Slovak

Suomi - Finnish

Svenska - Swedish

Tiếng Việt - Vietnamese

Türkçe - Turkish

Ελληνικά - Greek

 Mark media I tweet as containing material that may be sensitive

Please check this box if your Tweets contain sensitive media so that us



Gareth Morlais
@digitalst

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Twitter
interface
languages**

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- Čeština - Czech
- Dansk - Danish
- Deutsch - German
- English
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- Español - Spanish
- Euskara - Basque (beta)
- Filipino
- Français - French
- Gaeilge - Irish (beta)
- Galego - Galician (beta)
- Hrvatski - Croatian
- Italiano - Italian
- LOLCATZ - Lolcat (beta)
- Magyar - Hungarian
- Nederlands - Dutch
- Norsk - Norwegian
- Polski - Polish
- Português - Portuguese
- Română - Romanian
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- Suomi - Finnish
- Svenska - Swedish
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Muted accounts

Blocked accounts

Design

Apps

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Email

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| <input type="radio"/> español | <input type="radio"/> Nederlands | <input type="radio"/> Türkçe | <input type="radio"/> 中文 (简体) |
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| <input type="checkbox"/> Deutsch | <input type="checkbox"/> latviešu | <input type="checkbox"/> Tiếng Việt | <input type="checkbox"/> हिन्दी |
| <input type="checkbox"/> eesti | <input type="checkbox"/> lietuvīų | <input type="checkbox"/> Türkçe | <input type="checkbox"/> ไทย |
| <input checked="" type="checkbox"/> English | <input type="checkbox"/> magyar | <input type="checkbox"/> Ελληνικά | <input type="checkbox"/> 한국어 |
| <input type="checkbox"/> español | <input type="checkbox"/> Nederlands | <input type="checkbox"/> беларуская | <input type="checkbox"/> 中文 (简体) |
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| <input type="checkbox"/> hrvatski | <input type="checkbox"/> română | <input type="checkbox"/> українська | |

46
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Google

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iOS 9

Siri

- | | | | |
|--------------------------|------------------|---------------------------------------|-------------------------------|
| Australia | Austria | Belgium (French, Dutch) | Brazil |
| Canada (English, French) | China (Mandarin) | Denmark | Finland (Finnish) |
| France | Germany | Hong Kong (Cantonese) | India (English) |
| Israel (Hebrew) | Italy | Japan | Malaysia (Malay) |
| Mexico | Netherlands | New Zealand | Norway |
| Republic of Korea | Russia | Saudi Arabia (Arabic) | Singapore (English) |
| Spain | Sweden | Switzerland (French, German, Italian) | Taiwan (Mandarin) |
| Thailand | Turkey | UK | United Arab Emirates (Arabic) |
| USA | | | |

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ieithoedd Apple Siri languages

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iOS 9

Siri

Australia

Canada (English, French)

France

Israel (Hebrew)

Mexico

Republic of Korea

Spain

Thailand

USA

Austria

China (Mandarin)

Germany

Italy

Netherlands

Russia

Sweden

Turkey

Belgium (French, Dutch)

Denmark

Hong Kong (Cantonese)

Japan

New Zealand

Saudi Arabia (Arabic)

Switzerland (French, German,
Italian)

UK

Brazil

Finland (Finnish)

India (English)

Malaysia (Malay)

Norway

Singapore (English)

Taiwan (Mandarin)

United Arab Emirates (Arabic)

[Back to Top ▲](#)

20 ieithoedd Apple Siri

www.apple.com/siri

iOS 9

Siri

Australia

Canada (English, French)

France

Israel (Hebrew)

Mexico

Republic of Korea

Spain

Thailand

USA

Austria

China (Mandarin)

Germany

Italy

Netherlands

Russia

Sweden

Turkey

Belgium (French, Dutch)

Denmark

Hong Kong (Cantonese)

Japan

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★★★★☆ 26,048 customer reviews

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- Far-field voice recognition hears you from across the room
- Connected to the cloud so it's always getting smarter
- 360° omni-directional audio to fill the room with immersive sound
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— ZDNet

“The Echo may be the closest thing we’ll have to a Star Trek computer at home.”
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ieithoedd Amazon Alexa – Echo, Dot languages

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Another challenge for your language

Plan to edge your language up into the world's Top 50, so the big companies introduce support for it

But, hang on, Welsh is down at #172 in the league table!

Wikistats

Show 50 entries



Wikistats
2.2
[beta]

No	Project	No
1	wikipedias	29
2	wiktionaries	17
3	wikiquotes	89

	A	B	C	D	E	F	G	H	I	J	K	L
1	Language	Prim.+Sec. spkrs	Views perhr	Article count	Amazon Alexa	Google Allo	MS Cortana	Apple Siri	Google Search	Twitter-rhyngwyneb		
2	English	1,500,000,000	5,995,601	5,327,192	x	x	x	x	x	x		
3	Chinese	1,200,000,000	2,014,525	522,214								

Sort by number of speakers first (Col B),
Then by number of Wikipedia articles in that language (Col D)

Key: yellow rows have support of 2+ companies

1	Language	Prim.+Sec. spkrs	Views perhr	Article count	Amazon Alexa	Google Allo	MS Cortana
2	English	1,500,000,000	5,995,601	5,327,192	x	x	x
3	Chinese	1,300,000,000	294,526	923,341			x
4	Hindi	550,000,000	6,106	119,288		x	
5	Arabic	530,000,000	86,329	460,561			
6	Spanish	500,000,000	770,102	1,311,997			x
7	Malay	300,000,000	5,336	287,535			
8	Portuguese	290,000,000	190,861	954,970		x	x
9	Russian	278,000,000	851,142	1,370,090			
10	Indonesian	250,000,000	91,477	394,272			
11	Bengali	230,000,000	2,429	47,638			
12	French	200,000,000	555,145	1,837,556			x
13	German	185,000,000	829,439	2,026,481	x	x	x
14	Japanese	132,000,000	688,427	1,047,714		x	x
15	Persian	107,000,000	47,950	521,093			
16	Puniabi	104,000,000	482	26,205			
17	Tagalog	90,000,000	5,292	65,993			
18	Marathi	90,000,000	1,761	46,353			
19	Vietnamese	80,000,000	33,581	1,153,285			
20	Telugu	80,000,000	1,381	66,444			
21	Javanese	80,000,000	571	49,888			

(<http://wikistats.wmflabs.org/> 16
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1	Language	Prim.+Sec. spkrs	Views perhr	Article count	Amazon Alexa	Google Allo	MS Cortana
22	Korean	78,000,000	42,064	371,048			
23	Wu	77,000,000	214	5,683			
24	Egyptian Arabic	76,000,000	1,363	16,225			
25	Thai	73,000,000	33,353	114,706			
26	Cantonese	71,000,000	2,840	50,715			
27	Italian	70,000,000	326,017	1,331,600			x
28	Turkish	70,000,000	78,080	290,336			
29	Tamil	66,000,000	2,513	92,517			
30	Urdu	60,000,000	1,893	112,277			
31	Western Panjab	60,000,000	420	43,688			
32	Burmese	52,000,000	491	36,960			
33	Swahili	50,000,000	612	34,929			
34	Min Nan	49,000,000	679	202,625			
35	Kannada	47,000,000	804	21,751			
36	Gujarati	46,000,000	481	27,019			
37	Ukrainian	45,000,000	40,275	678,250			
38	Polish	43,000,000	231,338	1,205,248			
39	Sindhi	41,000,000	208	8,693			
40	Hausa	39,000,000	76	1,734			
41	Malayalam	37,000,000	1,494	48,320			

1	Language	Prim.+Sec. spkrs	Views perhr	Article count	Amazon Alexa	Google Allo	MS Cortana
42	Gan	35,000,000	241	6,426			
43	Hakka	34,000,000	247	7,396			
44	Oriva	31,000,000	343	12,283			
45	Nepali	30,000,000	419	32,347			
46	Maithili	30,000,000	172	11,382			
47	Romanian	28,000,000	23,085	374,260			
48	Dutch	27,000,000	113,858	1,892,217			
49	Azeri	27,000,000	4,923	114,242			
50	Sundanese	27,000,000	402	19,230			
51	Kurdish	26,000,000	468	23,028			
52	Pashto	26,000,000	359	8,420			
53	Zulu	26,000,000	110	1,021			
54	Oromo	26,000,000	88	919			
55	Yoruba	25,000,000	347	31,655			
56	Amharic	25,000,000	353	13,913			
57	Uzbek	24,000,000	1,303	128,946			
58	Serbo-Croatian	23,000,000	5,168	437,470			
59	Laotian	22,000,000	169	2,804			
60	Ibo	22,000,000	131	1,327			
61	Cebuano	20,000,000	994	3,851,589			

1	Language	Prim.+Sec. spkrs	Views perhr	Article count	Amazon Alexa	Google Allo	MS Cortana
75	Assamese	13,000,000	5,554	4,493			
76	Setswana	13,000,000	48	710			
77	Fulfulde	13,000,000	56	263			
78	Czech	12,000,000	66,655	372,713			
79	Serbian	12,000,000	15,394	344,568			
80	Bulgarian	12,000,000	18,080	226,585			
81	Kazakh	12,000,000	11,520	222,124			
82	Haitian	12,000,000	310	52,322			
83	Bavarian	12,000,000	508	21,866			
84	Kinvarwanda	12,000,000	103	1,897			
85	Swedish	10,000,000	59,667	3,782,499			
86	Low Saxon	10,000,000	436	25,782			
87	Quechua	10,000,000	469	20,165			
88	Ilokano	10,000,000	435	10,139			
89	Dutch Low Sax	10,000,000	243	6,723			
90	Uyghur	10,000,000	170	4,954			
91	Ganda	10,000,000	48	1,917			
92	Catalan	9,000,000	17,389	533,036			
93	Turkmen	9,000,000	331	6,381			
94	Min Dong	9,000,000	210	4,257			

1	Language	Prim.+Sec. spkrs	Views perhr	Article count	Amazon Alexa	Google Allo	MS Cortana
2	English	1,500,000,000	5,995,601	5,327,192	x	x	x
3	Cebuano	20,000,000	994	3,851,589			
4	Swedish	10,000,000	59,667	3,782,499			
5	German	185,000,000	829,439	2,026,481	x	x	x
6	Dutch	27,000,000	113,858	1,892,217			
7	French	200,000,000	555,145	1,837,556			x
8	Russian	278,000,000	851,142	1,370,090			
9	Italian	70,000,000	326,017	1,331,600			x
10	Spanish	500,000,000	770,102	1,311,997			x
11	Waray-Waray	3,000,000	958	1,262,234			
12	Polish	43,000,000	231,338	1,205,248			
13	Vietnamese	80,000,000	33,581	1,153,285			
14	Japanese	132,000,000	688,427	1,047,714		x	x
15	Portuguese	290,000,000	190,861	954,970		x	x
16	Chinese	1,300,000,000	294,526	923,341			x
17	Ukrainian	45,000,000	40,275	678,250			
18	Catalan	9,000,000	17,389	533,036			
19	Persian	107,000,000	47,950	521,093			
20	Norwegian	5,000,000	25,577	460,858			
21	Arabic	530,000,000	86,329	460,561			

1	Language	Prim.+Sec. spkrs	Views perhr	Article count	Amazon Alexa	Google Allo	MS Cortana
22	Serbo-Croatian	23,000,000	5,168	437,470			
23	Finnish	6,000,000	40,010	407,883			
24	Hungarian	15,000,000	39,247	402,720			
25	Indonesian	250,000,000	91,477	394,272			
26	Romanian	28,000,000	23,085	374,260			
27	Czech	12,000,000	66,655	372,713			
28	Korean	78,000,000	42,064	371,048			
29	Serbian	12,000,000	15,394	344,568			
30	Turkish	70,000,000	78,080	290,336			
31	Malay	300,000,000	5,336	287,535			
32	Basque	635,000	3,222	275,659			
33	Esperanto	2,000,000	2,086	236,950			
34	Bulgarian	12,000,000	18,080	226,585			
35	Danish	6,000,000	20,212	223,115			
36	Kazakh	12,000,000	11,520	222,124			
37	Minangkabau	6,000,000	153	221,982			
38	Slovak	7,000,000	11,218	215,930			
39	Armenian	6,000,000	4,065	215,160			
40	Min Nan	49,000,000	679	202,625			
41	Hebrew	8,000,000	35,217	201,548			

1	Language	Prim.+Sec. spkrs	Views perhr	Article count	Amazon Alexa	Google Allo	MS Cortana
42	Lithuanian	3,000,000	10,474	180,721			
43	Croatian	6,000,000	13,390	171,913			
44	Chechen	1,000,000	313	159,980			
45	Slovene	2,000,000	6,825	154,477			
46	Estonian	1,000,000	8,955	153,866			
47	Galician	2,000,000	2,294	135,739			
48	Nynorsk	5,000,000	1,654	132,169			
49	Uzbek	24,000,000	1,303	128,946			
50	Greek	15,000,000	21,817	126,867			
51	Belarusian	6,000,000	1,678	125,353			
52	Volapük	20	342	120,494			
53	Hindi	550,000,000	6,106	119,288		x	
54	Thai	73,000,000	33,353	114,706			
55	Azeri	27,000,000	4,923	114,242			
56	Georgian	4,000,000	5,855	112,593			
57	Urdu	60,000,000	1,893	112,277			
58	Tamil	66,000,000	2,513	92,517			
59	Welsh	740,000	1,076	90,053			
60	Macedonian	2,000,000	2,468	88,379			
61	Malagasy	20,000,000	353	83,329			

Ordered by number of speakers

- Catalan 91
- Galician 143
- Scots Gaelic 168 (!)
- **Welsh 172**
- Basque 174 (!)
- Irish 159
- Breton 206

(Wikimedia)

Number/(position in table) of Wikipedia articles

- Catalan 541k (17)
- Basque 280k (31)
- Galician 139k (47)
- **Welsh 91k (60)**
- Breton 62k (74)
- Irish 40k (89)
- Scots Gaelic 14k (118)
- Manx 5k (165)

(<http://wikistats.wmflabs.org/> 16 Chwefror 2017)

How we've started to help tackling this for Welsh

- Open licencing of public sector data and content
- Robin Owain Wikimedia UK had already been automating using **AutoWikiBrowser**
- Advice from Basque country: Gorka Julio, Josu Waliño, Galder Gonzalez
- **Galder Gonzalez:** "The best way is determining what you want to create, and having a bit with bot permissions. Also **pywikibot** installed and running."
- Grants for #wicipop #wicimon and #wikiiechyd (pop, science and health, all with editathons as well as automation)

Apart from appealing to multinationals

Ar wahân i geisio swyno'r cwmnïau mawr...

- Wikipedia gets people speaking & writing in their own language
- Creating a valuable and important resource for everyone
- Schools – Digital Competence Framework, literacy, photography, Welsh Baccalaureate..
- Golygathonau (editathons) are fun. (Like the Papur Bro folding sessions)



But beware Gofal...

- **Quality** of content and production experience is more important than **quantity** of articles
- Machine translation yields scale but needs to be used with awareness of **cultural sensitivities**
- Risk: Celtic languages have low number of **'views per hour'**. How can we boost these?

<i>Welsh</i>	<i>1,076</i>	<i>(67)</i>
<i>Breton</i>	<i>765</i>	<i>(75)</i>
<i>Irish</i>	<i>621</i>	<i>(80)</i>
<i>Scots Gaelic</i>	<i>352</i>	<i>(111)</i>
<i>Manx</i>	<i>231</i>	<i>(144)</i>
<i>Cornish</i>	<i>172</i>	<i>(172)</i>

The challenge for Celtic and other languages

Technology is dictating which languages our families can speak at home.

So we've got to make the technology understand and speak **our** languages

To do this, we need to raise our languages' profiles in the eyes of the big companies.

Wikipedia in our own language is an important part of this.

Diolch Thanks

Gareth Morlais
@digitalst



Llywodraeth Cymru
Welsh Government

www.cymru.gov.uk

CYMRAG

Byw Dysgu Mwynhau

Mae Cyw yn add
gwyn sy'n byw m
blu.

