

Greek etymologies

“If you recognize the parts, you'll understand the whole”

Context of the problem

The Spanish is one of the most spoken languages in the world. If we only consider the number of native speakers, Spanish is the second language most spoken in the world with approximately 400 million of speakers.

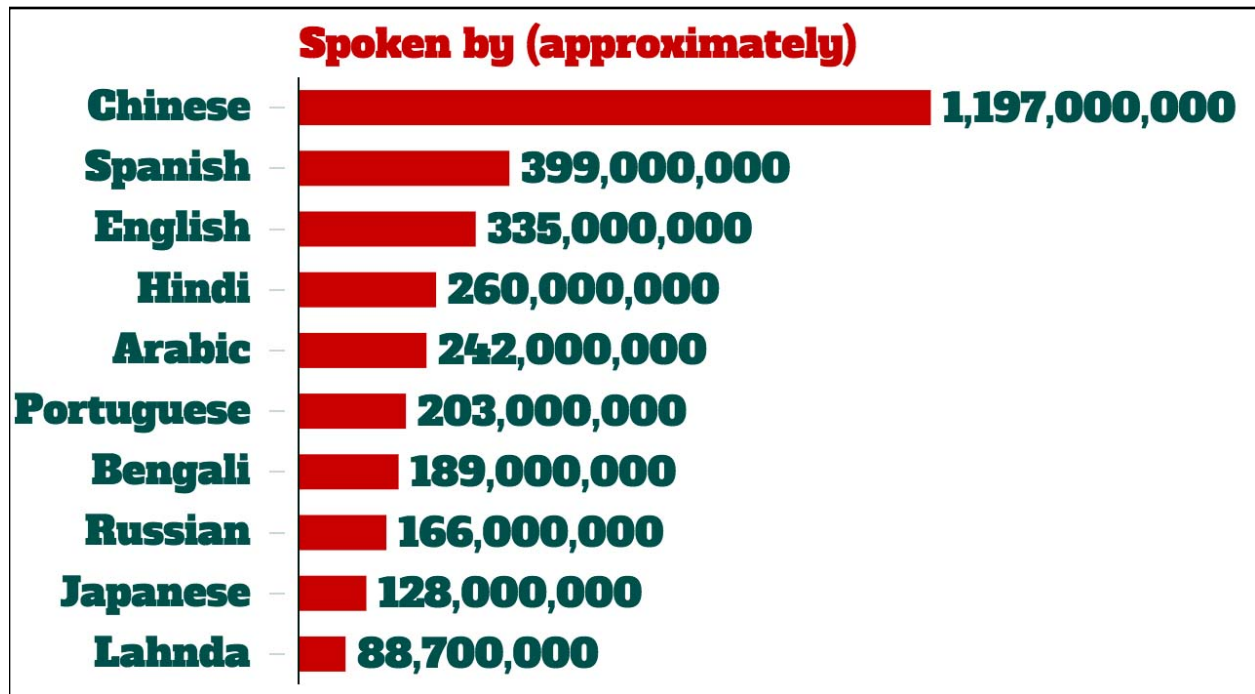


Image 1.1 List of top 10 most spoken languages in the world

Most of people who tries to learn Spanish, claim that this language is very difficult to learn because it contains a lot of different words to learn. The RAE dictionary (Real Academia de la lengua Española) says that the Spanish is composed by more than 93.000 words.

I listened this same problem when I talked with two students from UK and USA respectively, who told me that they really needed to speak and understand the Spanish fluently for their jobs, but they did not have a lot of time to learn it.

There are many people like them, that do not have a lot of time to memorize most of Spanish words, but they need to learn it as fast as possible for different reasons.

Solution

Since, I listened this problem for foreign students, I started to think which would the best option to learn a language of this characteristics.

I remembered my high school, one of the classes I took there was “latin and greek etymologies” where I understood that the meaning of a word depend on its roots, prefixes or suffixes.

The etymology is a science that studies the meaning of the words through the knowledge of their origin, structure and transformations over time. Therefore you can use it to learn the origin of our language, understand the meaning of the words, extend your personal vocabulary, decipher the meaning of unknown words, identify links between some words, understand and better orthography and learn faster a language.

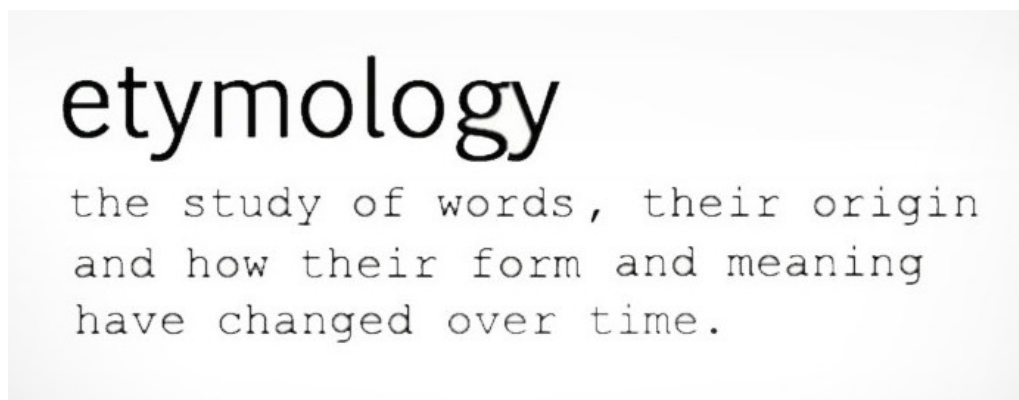


Image 2.1 Meaning of the word “etymology”

Latin and greek roots are used by languages like Italian, French, Spanish and English which are some of the most popular languages in the world, that’s why the importance of them. You can use them to learn these languages easier and faster.

My solution is an Scheme program that contains a dictionary with 213 greek roots, 23 prefixes and 19 suffixes to improve the learning or understanding of Spanish language, you can see the entire dictionary or search possible meanings for an specific word.

Results

The Scheme program shows the roots, prefix and suffix for the word searched, it's important that you know that this is a greek dictionary, therefore, if you look for a word that contains a latin root, prefix or suffix, it will not appear.

One example could be the word “psicología” which returns:

```
> (meaning "psicología")
Possible meanings for a word

Roots
psico
Meaning(s) = Alma. Espíritu. Aliento vital.
Greek root = ψυχή
Spanish patron(s) = psico, psicó, sico, psiqui.

logos
Meaning(s) = Palabra. Tratado. Estudio.
Greek root = λόγος
Spanish patron(s) = logía, logismo.

Suffixes
-ía
Meaning(s) = Acción. Cualidad.
Greek root = -ια, -εια
Spanish patron(s) = ía.
```

As you can see, the program returns a two possible roots and one possible prefix, so you can infer the meaning for this word, which would be “Estudio del alma” in Spanish.

To create this program, I had to implement different functions that returns the possible meanings for a word depending on its patron in roots, prefixes and suffixes. I made a lot of functions, some of them fills the dictionaries with all the roots, prefixes and suffixes, others make the search of which roots, prefixes and suffixes are inside the word selected, etc.

Conclusions

I have developed a program that could be useful for the people who is trying to learn a lot of vocabulary in the Spanish language, for native speakers that want to improve their knowledge and orthography, understand faster not common or popular words and obviously for people who wants to learn Greek.

Setup instructions

Start DrRacket IDE (If you do not have it, download it here: <https://download.racket-lang.org>)

Run the program “Project.rkt”

To see al the dictionary roots, prefixes and suffixes, type:

(complete-dictionary)

To search the possible meanings for a word, type:

(meaning word)

One example could be:

(meaning “psicología”)

To see the number of entries in root, prefix or suffix dictionary, first type:

(fill_root_dictionary roots) or

(fill_prefix_dictionary prefixes) or

(fill_suffix_dictionary suffixes)

Then:

(dict-count roots) or

(dict-count prefixes) or

(dict-count suffixes)

Evidence or references to back up claims

N, Gill. (2017). A Little Etymology: Greek and Latin Roots. November 20, 2017, de ThoughtCo. Sitio web: <https://www.thoughtco.com/greek-latin-roots-stems-prefixes-affixes-4070803>

Lane, J. (2014). The 10 Most Spoken Languages in the World. November 20, 2017, de Babbel Sitio web: <https://www.babbel.com/en/magazine/the-10-most-spoken-languages-in-the-world>

Anonymous. (2012). Etimologías griegas, prefijos, sufijos y raíces más frecuentes. October 22, 2017, de Webdiocesis.net Sitio web: <https://webdiocesis.net/wp-content/uploads/2017/07/griego.pdf>

Pajula, L. (2011). How Difficult Is It to Learn Spanish?. November 20, 2017, de Teacher Finder Sitio web: <https://www.weareteacherfinder.com/blog/how-difficult-is-spanish/>
