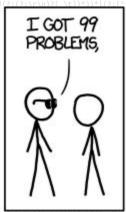
Losing the fear of

```
^[Reg]ular[Ex]pressions$
```

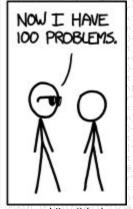
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For this talk, the idea is to go from here...



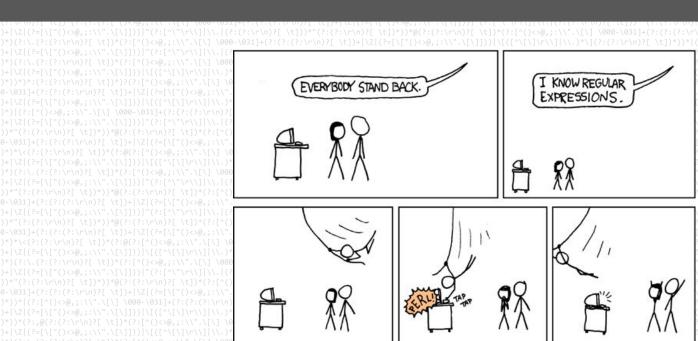






https://xkcd.con

to here



https://xkcd.com

... or at least, from here

Αυτή είναι μια πρόταση μπορείτε να διαβάσετε για σίγουρος. Είτε κατανόηση νόημά της ή όχι είναι ένα άλλο ζήτημα.

... to here

you can read for sure. Whether you're understanding the whole meaning or not is another question.

What is Regular Expression?

"A way to describe a set of strings."

Why should I learn it?

 You can quickly find, replace, change or validate text using lots of program languages, text editors or command line tools.

The possibilities increase even more when you understand how to combine them.

To understand RegEx, first remember...

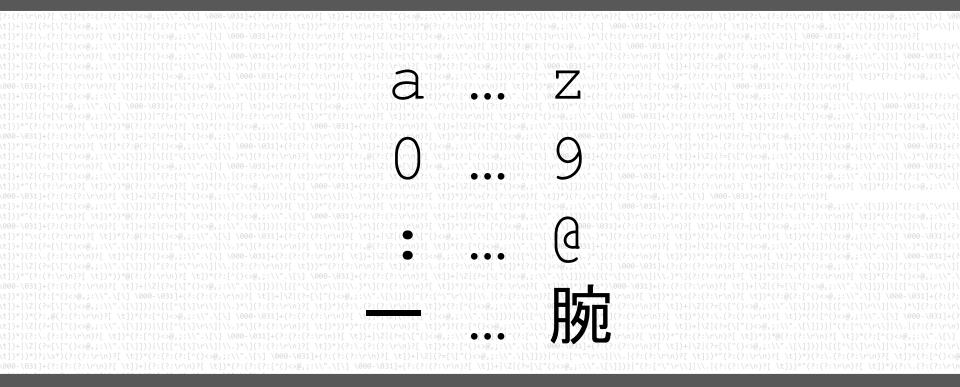
- There is a single idea, but there are many implementations.
 - BRE (POSIX Basic RegEx)
 - grep, ed, sed
 - ERE (GNU Extended RegEx)
 - egrep, gawk, emacs
 - PCRE (Perl 5 Compatible RegEx)
 - Apache, PHP, Java, JavaScript, PCRE Library, Python, Ruby, .NET

To understand RegEx, think about these statements...

- "RegEx are imperative specification of actions to be taken on Strings."
- "They are subroutines."
- "They are an (ugly) program language."
- "Start thinking of each character as an instruction."

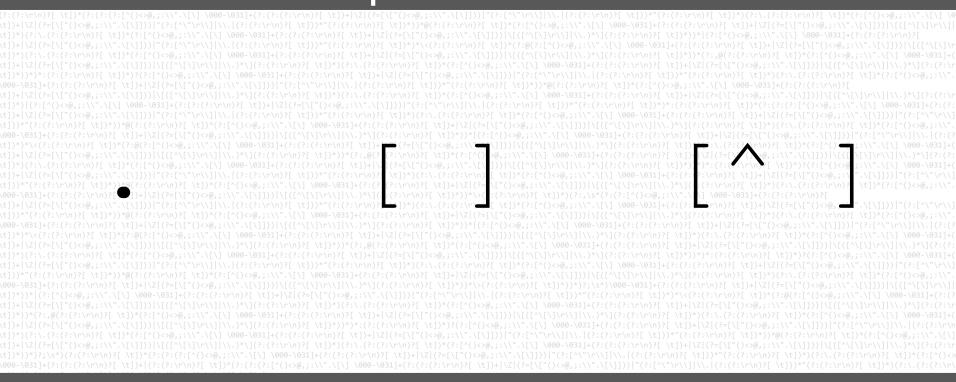
-Damian Conway

Metacharacters Literals

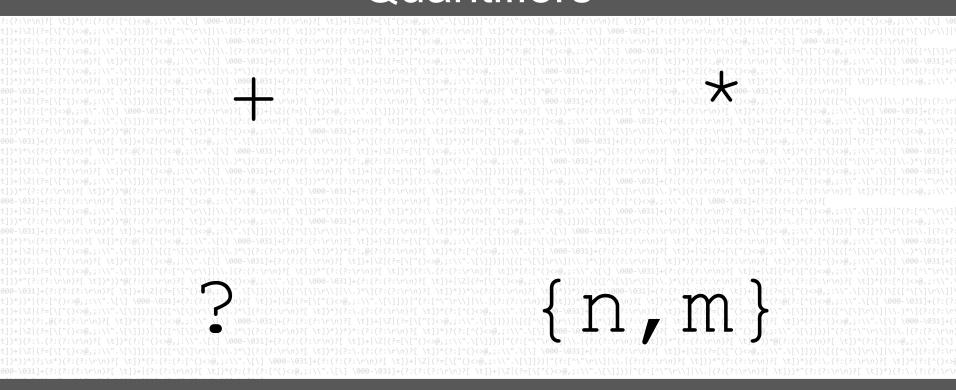


Metacharacters Anchors

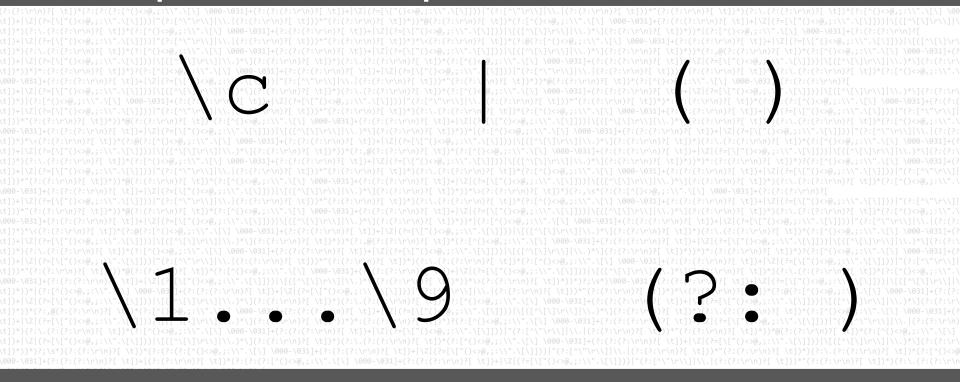
Metacharacters Representatives



Metacharacters Quantifiers



Metacharacters Escape, Or, Groups and Backreferences



Metacharacters \letter

Tips to use RegEx better

- Be as specific as possible
- Do not complicate
- Avoid .*
- Avoid [^]
- For accented letters try [À-Üà-ü]
- Prefer non-capturing groups
- When available and applicable, prefer ignore case options
- Sometimes worth to prefer some false-positives instead of creating huge
 RegExes to exact match

More about RegExes



Lea Verou

Best of Fluent 2012: /Reg(exp){2}lained/: Demystifying Regular Expressions

https://www.youtube.com/watch?v=EkluES9Rvak

Demian Conway

Understanding and Using Regular Expressions

https://www.infog.com/presentations/regex



More about RegExes



Aurelio Marinho Jargas

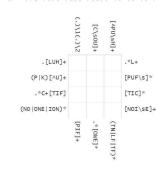
Expressões Regulares - Uma abordagem divertida

http://piazinho.com.br http://aurelio.net/regex/

Regex Cross-word

Crossword puzzle game, where the crossword clues are defined using regular expressions.

https://regexcrossword.com



[\t])*(?:[^()<>@,;:\\".\[\] @,;:\\".\[\]]))\\[([^\[\]\r\ -\031]+(?:(?:(?:(?:\r\n))? ()<@,;:\\".\[]))\\[([^\[\ [(]^\[\]\r\]\,)*\](?:(? :\r\n)?[\\[(]\\\]\\.)*\](?:(? \r\n)?[\\[([^\[\]\r\\]\\.)*\](?:(? \@,;;\\".\[\]\\009-\031]+(?: <>@,;;\\".\[\])\)"(?:[^\\r\

\\[([^\[\]\r\\]|\\.)*\](?:(i ^()<@,;:\\".\[\] \000-\033))|"(?:[^\".\]|\\.[?:(?:\))[\t])*(?:[^()<@,;:\\".\ \\[([^\[\]\r\\]|\\.)*\](?:(i \\.(?:(?:(?:\r\n)?[\t])*(?:[^\

Questions\?