BASICS

- . matches any character
- [] matches any character between the []
- E.g. [123] matches 1 or 2 or 3
- [] matches any character from the range
- E.g. [a-f] is the same as [abcedf]
- means "or" E.g. June|July

EXAMPLES

reali[sz]e matches British and USA spelling

[a-fA-F0-9] matches a hexadecimal character

[\<wind] matches wind and window, but not whirlwind.

^[a-zA-Z0-9_-]{3,16}\$ username 3 to 16 characters in length. Numbers, letters and dashes only.

ANCHORS

- matches at beginning of string/line
- \$ matches at end of string/line
- matches at beginning of a word
- > matches at end of a word
- \b matches at beginning or end of a word

REGULAR EXPRESSIONS CHEAT SHEET

CLASSES of CHARACTERS - Used within bracket expressions

[:alnum:] matches letters and numbers

[:alpha:] matches just letters

[:digit:] matches just numbers

[:lower:] or [:upper:] matches lower/uppercase letters [:punct:] matches punctuation !"#\$%&'()*+,./:;<=>?@ etc

E.g. [[:digit:]][[:alpha:]] matches any digit followed by any letter

REPETITION

- ? Preceding item is optional and matched at most once.
- Preceding item will be matched zero or more times.
- Preceding item will be matched one or more times.
- {n} Preceding item is matched exactly n times.
- {n,} Preceding item is matched n or more times.
- {n,m} Preceding item is matched >= n times, but < m times.
- E.g. [[:digit:]]{4} matches four digits like 1901 or 9876

DIFFERENT FLAVORS

There are different versions of regular expression syntax: "basic" (BRE), "extended" (ERE) and "perl" (PRCE).

E.g. | means "or" in ERE and BRE, but in BRE you need to use |