

Python Regular Expression

- Jupyter Notebook Usage
- RE Module, Operations, Processing match
- Interactive Tool

Jupyter Notebook

To launch from Anaconda Command Prompt

➤cd C:\Git\PyRegex\UsageExample

➤jupyter notebook

Purpose	Keyboard Short Cut
To execute contents of a cell	Shift-Enter (run content of a cell and move focus to next cell) Ctrl-Enter (run content of a cell and stay in the same cell)
To insert cell	Esc-A (above current cell) Esc-B (below current cell)
Auto Complete	Tab
Tool Tip/Help	Shift-Tab, Shift-Tab-Tab (detailed help)
List of Keyboard Shortcuts	Help -> Keyboard Shortcuts

Python Regular Expression Terminology

Pattern - A text pattern of interest expressed in Regular Expression Language

Example: `\b\d+\b` matches a word made up of one or more decimal digits.

Text – String in which to look for a match with a given pattern

Regex Engine - Regular Expression Engine that does the actual work

Regex Module – Python module for interacting with Regex Engine.

Module: `re`

Find First Match

Method	Purpose
<code>re.match</code>	Find first match at start of text
<code>re.search</code>	Find the first match anywhere in the text

Find All Matches

Method	Purpose
<code>re.findall</code>	Find all matches in a single call
<code>re.finditer</code>	Iterate through matches one by one

Group

Method	Purpose
group	Retrieve value by name or number
groupdict	Retrieve values as dictionary

Find and Replace

Method	Purpose
re.sub	Replace a text that matches Find Pattern
	Replace match with another text or another pattern or another function that provides a replacement value

Split

Method	Purpose
re.split	Split text based on Pattern



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