Regular Expression Cheat Sheet

Guidelines:

- Use raw strings for your regexes, e.g. r "\d+", to avoid backslash problems
- Use this syntax to store a regular expression for repeated use: p = re.compile(<re>)
- p.match(str) matches the beginning of the string
- p.search(str) finds the leftmost match
- p.findall(str) returns a list of all matching substrings

Special Characters

- \ escape special characters
- . matches any character
- matches beginning of string
- \$ matches end of string
- [5b-d] matches any chars '5', 'b', 'c' or 'd'
- [^a-c6] matches any char except 'a', 'b', 'c' or '6'
- R|S matches either regex R or regex S
- () creates a capture group and indicates precedence

Quantifiers

- • 0 or more (append? for non-greedy)
- + 1 or more (append ? for non-greedy)
- ? 0 or 1 (append ? for non-greedy)
- {m} exactly mm occurrences
- {m, n} from m to n. m defaults to 0, n to infinity
- {m, n}? from m to n, as few as possible

Special sequences

- 🙀 start of string
- \b matches empty string at word boundary (between \w and \w)
- \B matches empty string not at word boundary
- \d digit
- \D non-digit
- \s whitespace: [\t\n\r\f\v]
- \s non-whitespace
- \w alphanumeric: [0-9a-zA-Z_]
- w non-alphanumeric
- \z end of string
- \g<id>matches a previously defined group

Extensions

- (?iLmsux) Matches empty string, sets re.X flags
- (?:...) Non-capturing version of regular parentheses
- (?P<name>...) Creates a named capturing group.
- (?P=name) Matches whatever matched previously named

group

- (?#...) A comment; ignored.
- (?=...) Lookahead assertion: Matches without consuming
- (?!...) Negative lookahead assertion
- (?<=...) Lookbehind assertion: Matches if preceded
- (?<!...) Negative lookbehind assertion
- (?(id)yes|no) Match 'yes' if group 'id' matched, else 'no'