Python Regex Cheatsheet

Regular Expression Basics

- . Any character except newline
- a The character a
- ab The string ab
- alb a or b
- a* 0 or more a's
- \ Escapes a special character

Regular Expression Quantifiers

- * 0 or more
- + 1 or more
- ? 0 or 1
- {2} Exactly 2
- {2, 5} Between 2 and 5
- {2,} 2 or more
- (,5) Up to 5

Default is greedy. Append ? for reluctant.

Regular Expression Groups

- (...) Capturing group
- (?P<Y>...) Capturing group named Y
- (?:...) Non-capturing group
- \Y Match the Y'th captured
 - group
- (?P=Y) Match the named group Y
- (?#...) Comment

Regular Expression Character Classes

- [ab-d] One character of: a, b, c, d
- One character except: a, b, c, [^ab-d]
 - d d
- [\b] Backspace character
- \d One digit
- \D One non-digit
- \s One whitespace
- \S One non-whitespace
- \w One word character
- \W One non-word character

Regular Expression Assertions

- Start of string
- \A Start of string, ignores m flag
- \$ End of string
- \Z End of string, ignores m flag
- \b Word boundary
- \B Non-word boundary
- (?=...) Positive lookahead
- (?!...) Negative lookahead
- (?<=...) Positive lookbehind
- (?<!...) Negative lookbehind
- (?()|) Conditional

Regular Expression Flags

- Ignore case
- ^ and \$ match start and
 - end of line
- s . matches newline as well
- Allow spaces and
- comments
- L Locale character classes
- u Unicode character classes
- (?iLmsux) Set flags within regex

Regular Expression Special Characters

- \n Newline
- \r Carriage return
- \t Tab
- \YYY Octal character YYY
- \xYY Hexadecimal character YY

Regular Expression Replacement

- \q<0> Insert entire match
- \g<Y> Insert match Y (name or
 - number)
- \Y Insert group numbered Y