Advanced Regular Expressions: Takeaways

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Syntax

Capture Groups

Extracting text using a capture group:

```
s.str.extract(pattern with capture group)
```

Extracting text using multiple capture groups:

```
s.str.extract(pattern with multiple capture groups)
```

Substitution

Substituting a regex match:

```
s.str.replace(pattern, replacement_text)
```

Concepts

Capture groups allow us to specify one or more groups within our match that we can access separately.

Pattern Explanation

(yes)no Matches yesno, capturing yes in a single capture group.

(yes) (no) Matches yesno, capturing yes and no in two capture groups.

Backreferences allow us to repeat a capture group within our regex pattern by referring to them with an integer in the order they are captured.

Pattern Explanation (yes)no\1 Matches yesnoyes (yes)(no)\2\1 Matches yesnonoyes

Lookarounds let us define a positive or negative match before or after our string.

Pattern Explanation

zzz(?=abc) Matches zzz only when it is followed by abc
zzz(?!abc) Matches zzz only when it is not followed by abc
(?<=abc)zzz Matches zzz only when it is preceded by abc
(?<!zzz)abc Matches zzz only when it is not preceded by abc

Resources

re module RegExr Regular Expression Builder

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