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.

```
PatternExplanationzzz(?=abc)Matches zzz only when it is followed by abczzz(?!abc)Matches zzz only when it is not followed by abc(?<=abc)zzz</td>Matches zzz only when it is preceded by abc(?<&excl;zzz)abc</td>Matches zzz only when it is not preceded by abc
```

Resources

- re module
- RegExr Regular Expression Builder