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.

```
PatternExplanation(yes)no\1Matchesyesnoyes(yes)(no)\2\1Matchesyesnonoyes
```

• 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

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

Resources

- re module
- RegExr Regular Expression Builder

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