

Using Quantifiers Within Regular Expression



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Quantifiers

Metacharacter	Meaning	Example
*	Match zero or more times	<code>e*</code>
+	Match one or more times	<code>\d+</code>
?	Optional match zero or one time	<code>Admins?</code>
<code>{n}</code>	Match exactly n times	<code>\d{4}</code>
<code>{n,}</code>	Match at least n times	<code>\d{3,}</code>
<code>{n,m}</code>	Match at least n times but no more than m	<code>\w{1,3}</code>



```
'admin', 'admins' -match 'admins?$'
```

```
'gbailey' -match '[^:;|=,<>]+'
```

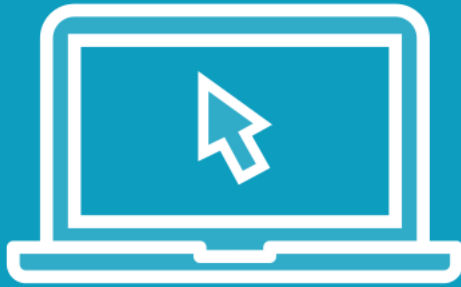
```
'402-583-5366' -match '(\d{3}[-.])+\d{4}'
```

Quantifiers...

Specify how many times to match a character, metacharacter, subexpression, or character class.



Demo



Quantifiers fundamentals

- Repeat metacharacters
- Pitfalls of the star quantifier
- Finding one or more matches with the plus sign quantifier
- Combining anchors and optional matches

Using quantifiers

- Discover service accounts
- Validate phone number



Summary



Quantifiers

- Repeating characters, character classes and subexpressions
- Zero or more matches *
- One or more matches +
- Optional matches ?
- Defining minimum and maximum matches {*min,max*}

Used quantifiers

- Discover active directory service accounts
- Validate phone numbers, phone extensions and long distance numbers

