

Introduction to

Programming with Python

Regular Expressions

regular expressions

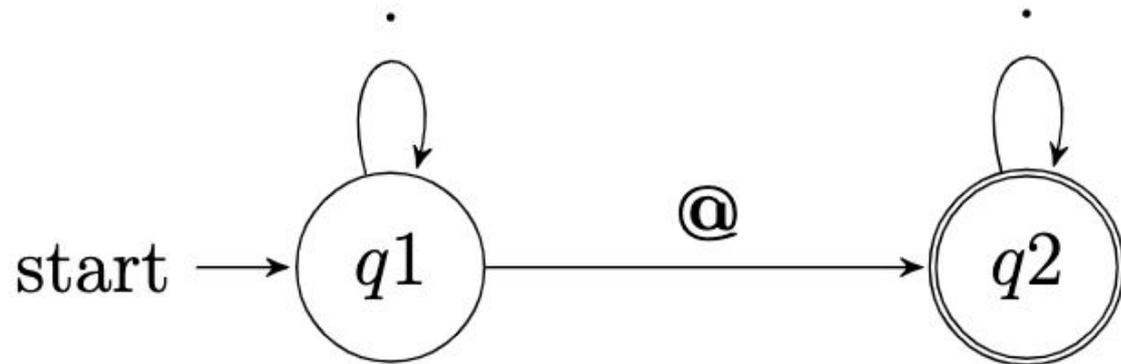
regexes

re

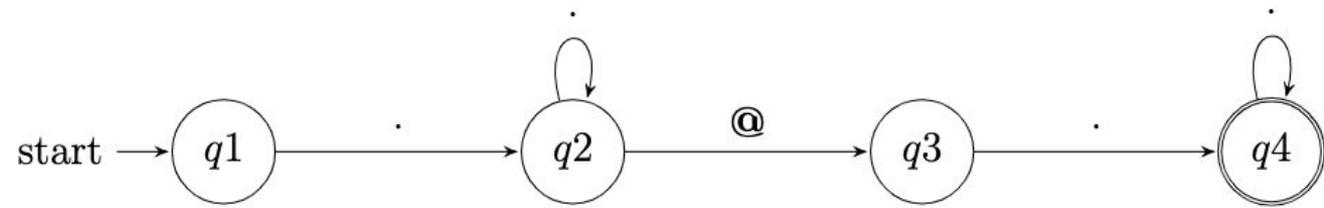
docs.python.org/3/library/re.html

```
re.search(pattern, string, flags=0)
```

.	any character except a newline
*	0 or more repetitions
+	1 or more repetitions
?	0 or 1 repetition
{m}	m repetitions
{m, n}	m–n repetitions



.	any character except a newline
*	0 or more repetitions
+	1 or more repetitions
?	0 or 1 repetition
{m}	m repetitions
{m, n}	m–n repetitions



^

matches the start of the string

\$

matches the end of the string or
just before the newline at the end
of the string

[]

set of characters

[^]

complementing the set

<code>\d</code>	decimal digit
<code>\D</code>	not a decimal digit
<code>\s</code>	whitespace characters
<code>\S</code>	not a whitespace character
<code>\w</code>	word character ... as well as numbers and the underscore
<code>\W</code>	not a word character

re.IGNORECASE

re.MULTILINE

re.DOTALL

^[a-zA-Z0-9. !#\$%&' *+ \/= ? ^ _ ` { | } ~ -] + @ [a-zA-Z0-9] (? : [a-zA-Z0-9 -] { 0 , 61 } [a-zA-Z0-9]) ? (? : \ . [a-zA-Z0-9] (? : [a-zA-Z0-9 -] { 0 , 61 } [a-zA-Z0-9]) ?) * \$

```
re.match(pattern, string, flags=0)
```

```
re.fullmatch(pattern, string, flags=0)
```

$A|B$ either A or B
 (\dots) a group
 $(?:\dots)$ non-capturing version



```
re.sub(pattern, repl, string, count=0, flags=0)
```

```
re.split(pattern, string, maxsplit=0, flags=0)
```

```
re.findall(pattern, string, flags=0)
```

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