

Introduction to

Programming with Python

Regular Expressions

regular expressions

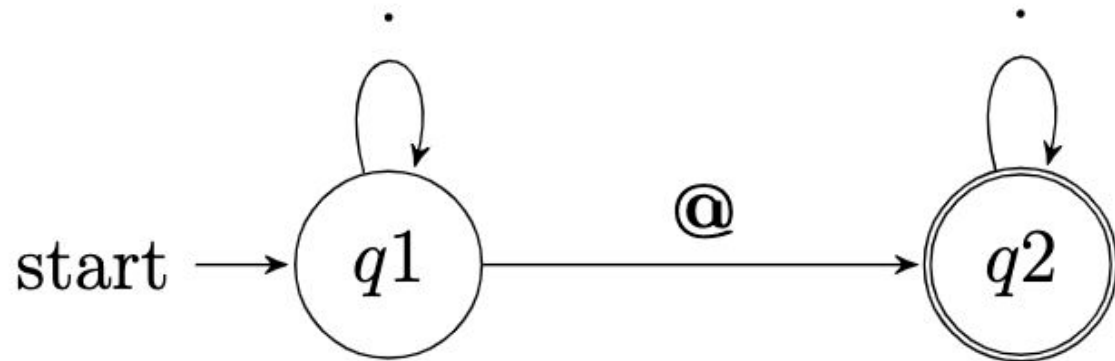
regexes

re

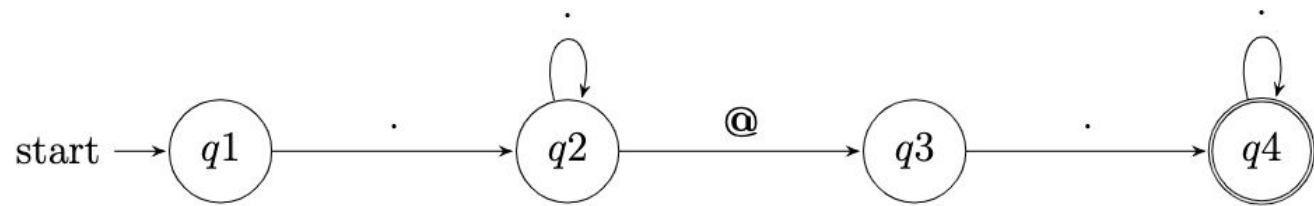
docs.python.org/3/library/re.html

```
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)
```

$A \mid B$ 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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