

# Regular Expressions

# Reminder: Commonly used special symbols in Python regular expressions

Symbol	Meaning
.	matches any character
+	1 or more
*	0 or more
()	capture group
\d	digit
\D	non-digit
\s	whitespace
\S	non-whitespace
\w	alphanumeric
\W	non-alphanumeric

# A few more useful special symbols

Symbol	Meaning
<code>^</code>	beginning of string
<code>\$</code>	end of string
<code>R S</code>	matches either regex R or regex S

^ matches at beginning, \$ matches at end

String: My name is Claus

Regex: ^name

^ matches at beginning, \$ matches at end

String: My name is Claus

Regex: ^name

Match: *Does not match!*

^ matches at beginning, \$ matches at end

String: My name is Claus

Regex: name\$

^ matches at beginning, \$ matches at end

String: My name is Claus

Regex: name\$

Match: *Does not match!*

^ matches at beginning, \$ matches at end

String: My name is Claus

Regex: name



^ matches at beginning, \$ matches at end

String: My name is Claus

Regex: name

Match: My name is Claus

^ matches at beginning, \$ matches at end

String: My name is Claus

Regex: ^My name

^ matches at beginning, \$ matches at end

String: My name is Claus

Regex: ^My name

Match: My name is Claus

^ matches at beginning, \$ matches at end

String: My name is Claus

Regex: Claus\$

^ matches at beginning, \$ matches at end

String: My name is Claus

Regex: Claus\$

Match: My name is Claus

# R|S matches regex R or regex S

String: My name is Claus

Regex: My name (is|was)

# R|S matches regex R or regex S

String: My name is Claus

Regex: My name (is|was)

Match: My name is Claus

# R|S matches regex R or regex S

String: My name was Claus

Regex: My name (is|was)



# R|S matches regex R or regex S

String: My name was Claus

Regex: My name (is|was)

Match: My name was Claus

# Puzzle: What does this regex do?

```
/Susan sings (\.$ | \s+(\S+.*)\.)/
```