Regular Expressions
### Reminder: Commonly used special symbols in Python regular expressions

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>.</td>
<td>matches any character</td>
</tr>
<tr>
<td>+</td>
<td>1 or more</td>
</tr>
<tr>
<td>*</td>
<td>0 or more</td>
</tr>
<tr>
<td>()</td>
<td>capture group</td>
</tr>
<tr>
<td>\d</td>
<td>digit</td>
</tr>
<tr>
<td>\D</td>
<td>non-digit</td>
</tr>
<tr>
<td>\s</td>
<td>whitespace</td>
</tr>
<tr>
<td>\S</td>
<td>non-whitespace</td>
</tr>
<tr>
<td>\w</td>
<td>alphanumeric</td>
</tr>
<tr>
<td>\W</td>
<td>non-alphanumeric</td>
</tr>
</tbody>
</table>
A few more useful special symbols

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>^</td>
<td>beginning of string</td>
</tr>
<tr>
<td>$</td>
<td>end of string</td>
</tr>
<tr>
<td>R</td>
<td>S</td>
</tr>
</tbody>
</table>
String: My name is Claus
Regex: ^name
String: My name is Claus
Regex: ^name

Match: Does not match!
String: My name is Claus
Regex: name$
String: My name is Claus

Regex: name$

Match: *Does not match!*
My name is Claus
Regex: name
String: My name is Claus

Regex: name

Match: My name is Claus
String: My name is Claus
Regex: ^My name
String: My name is Claus

Regex: ^My name

Match: My name is Claus
String: My name is Claus
Regex: Claus$
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
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+.*)\.)/