

The Regex Game

Try to play with regular expressions. Open the regular expressions documentation: <http://docs.python.org/2/library/re.html>. Make some simple regular expressions in the python shell.

To test your expressions, use the following template code. It is easiest to use this code in the python shell.

```
>>> import re
>>> regex = re.compile("YOUR REGEX HERE")
>>> regex.findall("TEST_STRING")
```

As a first example, type:

```
>>> regex = re.compile("test")
>>> regex.findall("test string")
>>> regex.findall("test123")
>>> regex.findall("123test")
```

And see what happens. Then try the following:

Your task, in groups of 3, is to create regular expressions for the following scenarios:

1. You are given an arbitrary string. Your regular expression should find a match if the given string is of the form
ANYTHING/meet/ANYTHING
2. You are given an arbitrary string. Your regular expression should return all the characters in the string without periods (".") and commas (",").
3. You are given a string. Your regular expression should find a match if the given string starts with as many "A"s as you want, immediately followed by a "B"
4. You are given an email address (assume it is in the right format). Return the domain of the email address. For example, if given the email address "meet@mit.edu", your regex should return "@mit.edu".
5. You are given a very large string that contains the strings "<head>" and "</head>" (without the quotation marks). Your regular expression should return the text between these two strings.

Read the online documentation for the python re package to find out exactly what `.findall()` does.