# Python regex `finditer` function

Python regex finditer() function explained with examples.

#### WE'LL COVER THE FOLLOWING ^

- Python string finditer
- Syntax
- Example 1

# Python string finditer #

finditer() is a powerful function in the re module. It returns an iterator yielding MatchObject instances over all non-overlapping matches for the RE pattern in string.

# Syntax #

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

Here the string is scanned **left-to-right**, and matches are returned in the order found. Empty matches are included in the result unless they touch the beginning of another match.

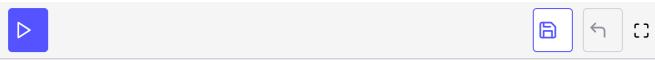
## Example 1 #

Here is a simple example which demonstrates the use of finditer. It reads in a page of html text, finds all the occurrences of the word "the" and prints "the" and the following word. It also prints the character position of each match using the MatchObject's start() method.

```
import re
import urllib2

html = urllib2.urlopen('https://docs.python.org/2/library/re.html').read()
pattern = r'\b(the\s+\w+)\s+'
```

```
regex = re.compile(pattern, re.IGNORECASE)
for match in regex.finditer(html):
    print "%s: %s" % (match.start(), match.group(1))
```



Once you have the list of tuples, you can loop over it to do some computation for each tuple.

### Expected output:

```
output

3261: The Python

4210: the backslash

4451: the same

4474: the same

4651: the pattern

4679: the regular

4930: The solution

5937: The functions

6301: the standard

and so on...
```