

Модуль

```
import re
```

dd

`\d` - stands for a digit character

```
\d\d\d-\d\d\d-\d\d\d\d or \d{3}-\d{3}-\d{4}
```

```
333-333-4444
```

Passing a string value representing your regular expression to `re.compile()` returns a Regex pattern object (or simply, a Regex object). To create a Regex object that matches the phone number pattern, enter:

```
>>>phoneNumRegex = re.compile(r'\d{3}-\d{3}-\d{4}')
```

- by putting an `r` before the first quote of the string value, you can mark the string as a raw string, which does not escape characters.

```
>>>mo = phoneNumRegex.search('My number is 415-555-4242')
```

```
>>>mo.group()
```

```
'415-555-4242'
```

A Regex object's `search()` method searches the string it is passed for any matches to the regex. The `search()` method will return `None` if the regex pattern is not found in the string. If the pattern is found, the `search()` method returns a Match object. Match objects have a `group()` method that will return the actual matched text from the searched string.

Grouping with Parentheses

```
>>>phoneNumRegex = re.compile(r'(\d{3})-(\d{3}-\d{4})')
```

```
>>>mo = phoneNumRegex.search('My number is 431-559-2243')
```

```
>>>mo.group(1)
```

```
'431'
```

```
>>>mo.group(2)
```

```
'559-2243'
```

```
>>>mo.group(0) or >>>mo.group()
```

```
'431-559-2243'
```

```
>>>mo.groups()
```

```
('431', '559-2243')
```

```
>>>areaCode, mainNumber = mo.groups()
```

```
>>>areaCode
```

```
'431'
```

If you need to match an actual parenthesis character, escape it: `\(, \)`



Matching Multiple Groups with the Pipe

```
>>>heroRegex = re.compile(r'Batman|Tina Fey')
>>>heroRegex.search('Batman and Tina Fey').group()
'Batman'
>>>heroRegex.search('Tina Fey and Batman.').group()
'Tina Fey'
```

If you want to match any of the strings 'Batman', 'Batmobile', 'Batcopter', and 'Batbat':

```
>>>batRegex = re.compile(r'Bat(man|mobile|copter|bat)')
>>>mo = batRegex.search('Batmobile lost a wheel')
>>>mo.group()
'Batmobile'
>>>mo.group(1)
'mobile'
```

If you need to match an actual pipe character, escape it with a back- slash, like \.



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