

# Display the result of running python code by shell command (shell\_exec) in PHP

I usually use shell\_exec when I need to run python code. The benefit of shell\_exec is returning the result as string, so I can use it for other purpose.

The below is the example to create graph by python, and display as a result in php.

## matplot\_test.py

```
import matplotlib
matplotlib.use('Agg')

from matplotlib import pyplot as plt

plt.plot(["Seoul", "Paris", "Seattle"], [30, 25, 55])
plt.xlabel('City')
plt.ylabel('Response')
plt.title('Experiment Result')
plt.savefig('test.png')

print("<img src=test.png">")
```

## matplot\_test.php

```
<?php

$locale = 'ko_KR.UTF-8';
setlocale(LC_ALL, $locale);
putenv('LC_ALL='.$locale);

echo shell_exec("python matplot_test.py");

?>
```

You will be able to see a graph when you run your code like [http://your url/.../matplot\\_test.php](http://your url/.../matplot_test.php)

Experiment Result

