

## # Data Augmentor

Data augmentor is a simple way to use the Keras built in ImageDataGenerator class

### ### Prerequisites

What things you need to install the software and how to install them

...

Keras and numpy are the only required packages

...

### ### Installing

Keras installation process

...

<https://github.com/ignaciorlando/skinner/wiki/Keras-and-TensorFlow-installation>

...

Numpy installation process

...

<https://scipy.org/install.html>

...

### ## Running the test

To run the only test provided, uncomment the final line in augment\_data.py

...

python augment\_data.py

...

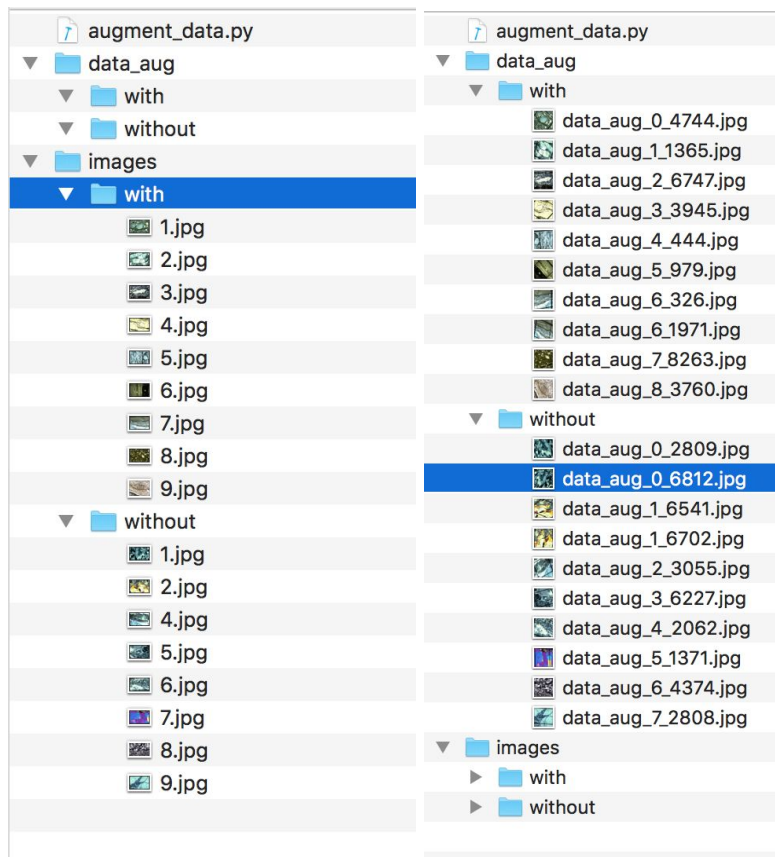
### ### Test output

When running with the test function uncommented. 20 augmented images will be created and placed into the already created folders.

10 images will be placed into the ./data\_aug/with/ folder

10 images will be placed into the ./data\_aug/without/ folder

### ### Pretest file structure / Post test file structure



## ## Deployment

To use this in a live system.

Python:

```
...
```

```
from augment_data import augment_data
```

```
x_aug, y_aug = augment_data(...)
```

```
...
```

## Notable things also mentioned inside the augment\_data.py

The generated images are given a number that references the index number in the provided array.

There are additional parameters that a user can fine tune inside the `augment_data()` function where a variable `datagen` is created. In a comment just above this function call there is a url provided to the Keras function and its adjustable parameters.

This function is not expected to handle any of the folder creation, or image preprocessing. That should be done externally.