

## Heroku

Heroku is a cloud platform-as-a-service that supports multiple programming languages.

In heroku.com I can find the use

I can find the usage documentation on the official website to teach me how to use heroku. I will use this cloud platform to ave and run my robot code.

## Imgur

Imgur is an online photo hosting service. The site was founded on 23 February 2009 by Alan schaa. There are a lot of tutorials in Google helping me to learn how to use it. The `imgsmessage()` method (in the `linechatbot` package) has to use the url to send the image, so I need a website to host the image generated by my code, and imgur is good for this.

```
def get_url(x):
    df = pd.read_csv('dataset.csv', index_col='date', parse_dates=True)
    dft = df.loc[:, x]
    plt.title("CHART")
    plt.figure(figsize=(2,2))
    sns.lineplot(data=dft, label=x)
    plt.ylabel('Confirmed Cases')
    plt.xlabel('Date')
    plt.savefig('send.png')
    temp = Image.open('send.png')
    temp = temp.convert('RGB')
    temp.save('send.jpg')
    CLIENT_ID = "708313906f5b929"
    PATH = 'send.jpg'
    im = pyimgur.Imgur(CLIENT_ID)
    uploaded_image = im.upload_image(PATH, title="Uploaded with PyImgur")
    os.remove('send.jpg')
    os.remove('send.png')
    print("done")
    return uploaded_image.link
```

This is the method in my code that uploads the image and return to the url