

URL on github: <https://tomireg.github.io/PA/>

URL on render: <https://pa-3so9.onrender.com>

Use the url provided by render to access the site

Challenges:

Render.com gives a warning that it treats the generated animation as garbage and it gets deleted. I could not work around this but thanks to the animation being generated already while testing locally, it is working. I left the problematic code in the app because it's working on render despite the warning and I wanted to show how I generated the gif. This web app is a portfolio. I made a game page to showcase some python skills. The projects page contains my previous works. I removed the login forms because it made no sense in the context of a portfolio page. I added other ways to use the post method instead. I wanted to create a proper contact page with email composing and sending however it required a domain, which I don't have, and mailtrap, which I tried to use, would not work without one so I had to remove the code. I also tried to make a more complex classic snake game, written with python, first but render didn't like it so I had to remove that code as well. These took a bit of time that I could have used to write code that works, but I learned a lot from these endeavors and I can use that new knowledge in upcoming projects so I don't regret doing it.

How to deploy on Render.com:

Environment tab on render:

Set the python version to 3.12.2

PYTHON_VERSION 3.12.2

Settings tab on render:

Set the region to Frankfurt.

Use github repository: <https://github.com/Tomireg/PA>

Set the branch to main.

Set the root directory to flask.

Build command: pip install -r requirements.txt

Contents of requirements.txt:

```
blinker==1.7.0
click==8.1.7
colorama==0.4.6
Flask==3.0.2
gunicorn==21.2.0
itsdangerous==2.1.2
Jinja2==3.1.3
MarkupSafe==2.1.5
packaging==24.0
six==1.16.0
Werkzeug==3.0.2
```

```
numpy==1.26.4  
matplotlib==3.9.0
```

Start command: gunicorn app:app

Auto-deploy: yes

Deploy hook: <https://api.render.com/deploy/srv-co8hp2ol5elc738v33r0?key=1v2K2tkFKjA>

Sources:

<https://favicon.io/>

<https://www.techwithtim.net/tutorials/flask/http-methods-get-post>

<https://www.geeksforgeeks.org/python-using-for-loop-in-flask/>

<https://www.geeksforgeeks.org/graph-plotting-in-python-set-1/>

<https://www.geeksforgeeks.org/using-matplotlib-for-animations/>

<https://matplotlib.org/stable/users/explain/animations/animations.html>

<https://matplotlib.org/stable/tutorials/pyplot.html>