

# Face Mask Portraits



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Sunderland**

In this activity you will use Googles MediaPipe AI Models to recognise faces from a webcam.

The idea is to use a web browser application that integrates the webcam and the model and a drawing programme to create masks to overlay onto faces detected in the webcam feed. **You** have control of the masks! Have Fun!



## WARNING

**Be kind with the masks and don't offend anyone!**

# Let's get going!



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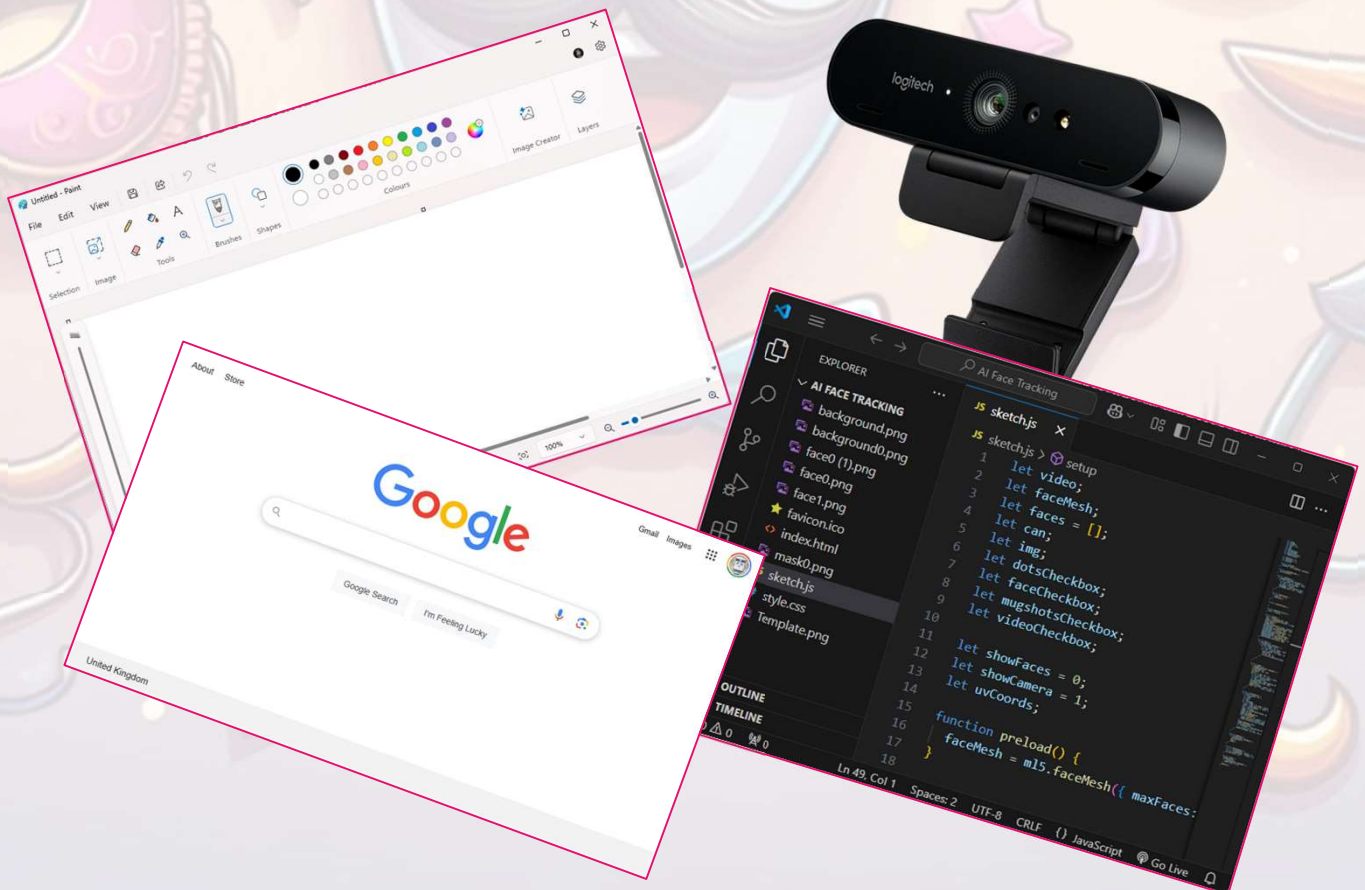
## What do we need!

For this activity we need the following:

- A **web browser** (we recommend you use Chrome).
- A **webcam** connected to the computer.
- A **Drawing Package** (Paint, GIMP, Photoshop).
- **Your Face (and others 😊)!**

The lab computers should already be setup, but if you get stuck at any point, ask for help. We are here to help you. Don't worry if you don't get everything finished in this session there are sample masks in the download.

**Source files: <https://github.com/neliot/Portraits>**





# Let's get going!



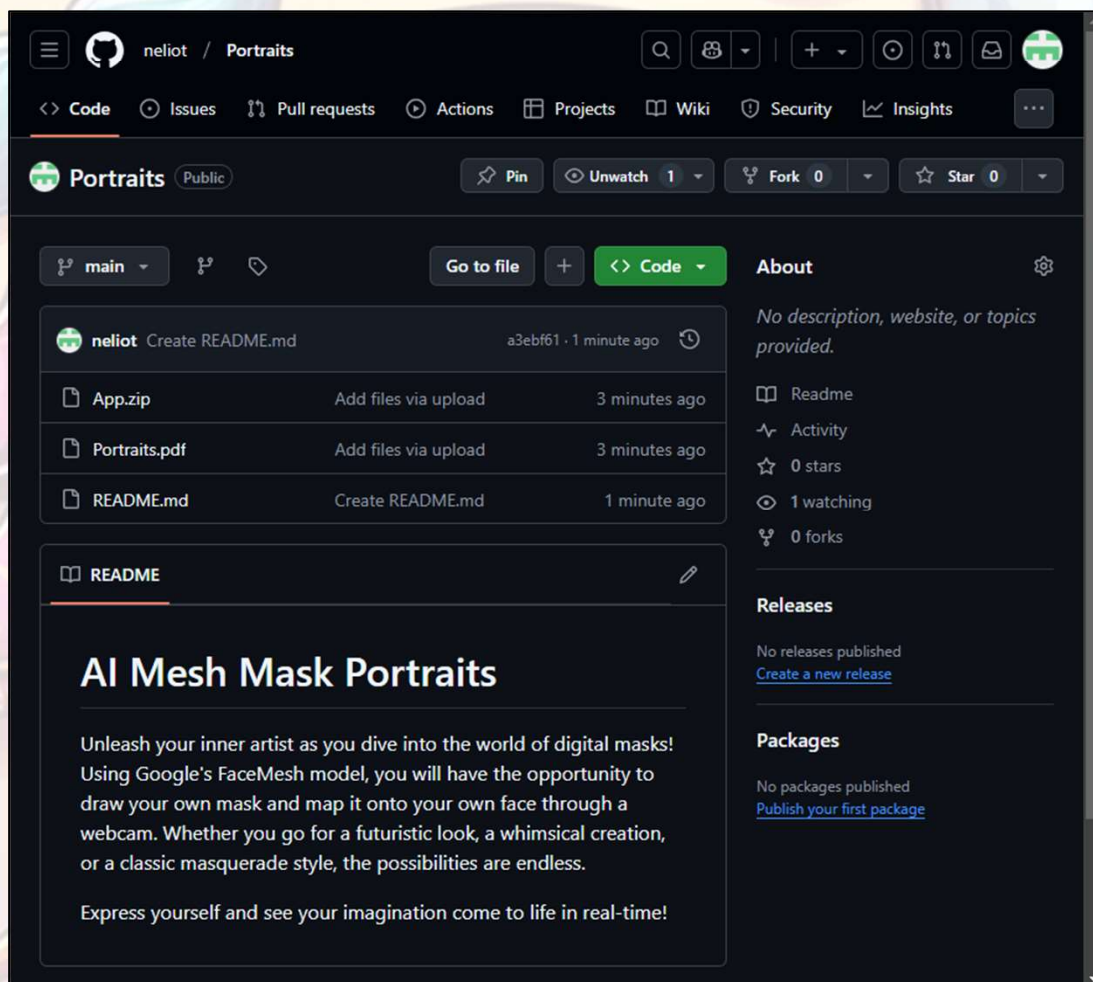
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## Download the application!

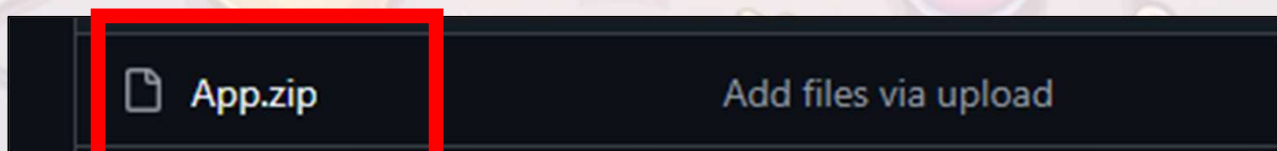
In your browser enter the URL below:

<https://github.com/neliot/Portraits>

You should see a page similar to the one below:



Click on the App.zip file:



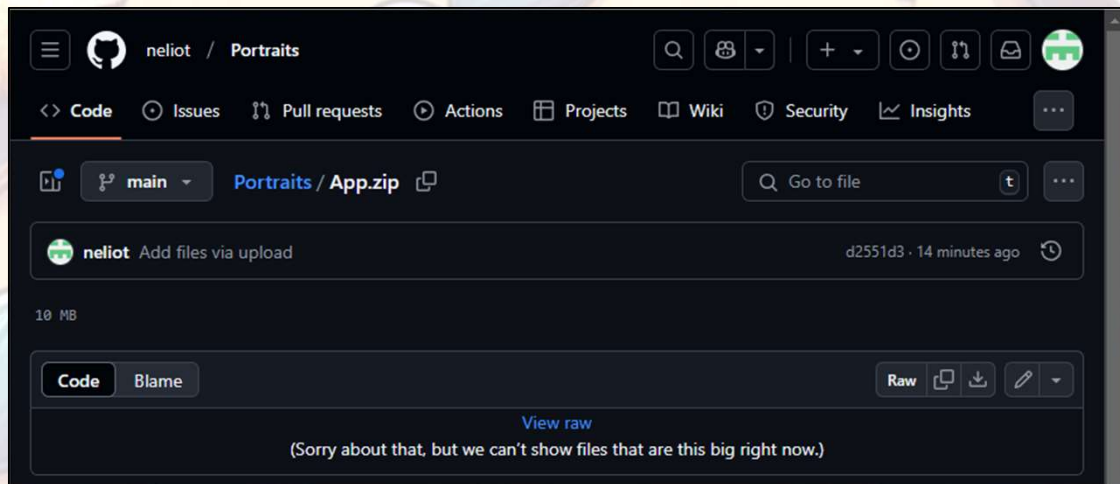
# Let's get going!



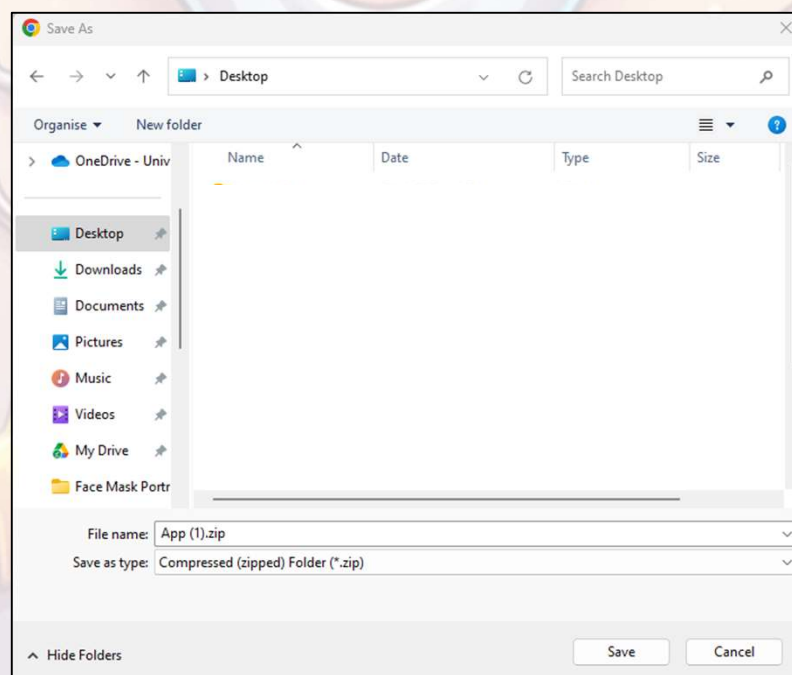
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## Download the application!

You will now be presented with the following screen:



Click on the download icon and save the file to the Desktop:







Now you can launch the application. Start VS Code and select File->Open Folder and navigate to folder where you expanded the zip file.

The screenshot shows a GitHub repository named 'Portraits' by user 'neliot'. The repository is public and has 0 stars, 0 forks, and 1 watcher. The main branch is 'main'. The repository contains four files: 'App.zip', 'Portraits.pdf', 'README.md', and 'Create README.md'. The 'README.md' file is selected and displays the following content:

## AI Mesh Mask Portraits

Unleash your inner artist as you dive into the world of digital masks! Using Google's FaceMesh model, you will have the opportunity to draw your own mask and map it onto your own face through a webcam. Whether you go for a futuristic look, a whimsical creation, or a classic masquerade style, the possibilities are endless.

Express yourself and see your imagination come to life in real-time!

The right sidebar shows the repository's metadata: 'No description, website, or topics provided.', 'Readme', 'Activity', '0 stars', '1 watching', and '0 forks'. Below this, the 'Releases' section shows 'No releases published' with a link to 'Create a new release'. The 'Packages' section shows 'No packages published' with a link to 'Publish your first package'.

# And Finally!



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On the **BSc Computer Science** Programme at the **University of Sunderland** you'll study AI and Machine Learning in more detail, which means you'll be able to create some amazing things and have a good grasp on this important emerging technology.

