

Portfolio Element 1 – Image Manipulation

Description of the technology

In this section, the technology of image manipulation is developed and demonstrated. To be more specific, I have followed and practiced the tutorial of using Photopea to remove the background of a selected picture. Image manipulation technology refers to the process and technique of changing and transforming the original forms of images for various purposes, including art design, business, social media, advertising, etc. Moreover, Photopea, which is the image editing tool used in the selected tutorial, is a free web-based raster graphics editor as an online alternative of the Adobe Photoshop.

Citation for tutorial

- Citation: (Henderson, 2019)
- Title: *“Double Exposure in Photopea”*
- Link: <https://www.youtube.com/watch?v=c5H1L6XSPHw>

Output of that tutorial

By watching the video tutorial and following up every step in my terminal, I have successfully produced a similar double exposed picture to the one demonstrated in the tutorial, which can be checked in the following “Produced output – Result from the following tutorial” section on this page. During this process, I have learned how to operate the primary image manipulation using Photopea online editor to create a double exposed image, and I have gained knowledge and skills to use various photoshop tools, such as “Magic Wand”, “Painting Bucket Tool”, and “Spot Healing Brush Tool”.

Demonstration of ability

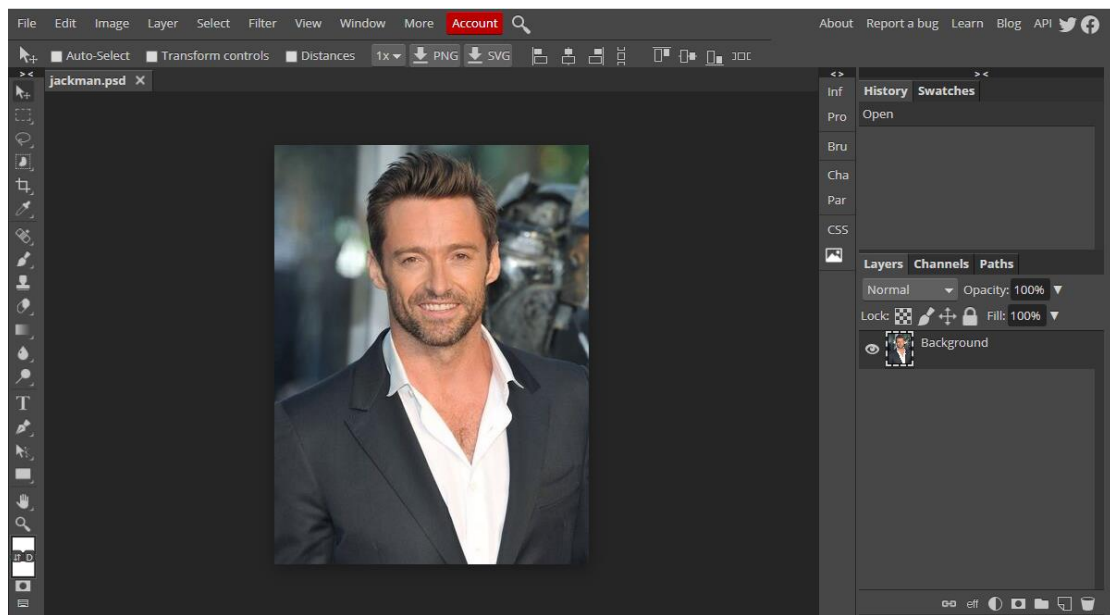
After learning the image manipulation technological skill. i.e. using the Photopea online editor to create a double exposure image artefact, by following the nominated tutorial, I have practiced the gained ability to create a custom version of Hugh Jackman’s portrait with a customized suit jacket containing a Sydney Opera House landscape. The step-by-step demonstration is shown as follows.

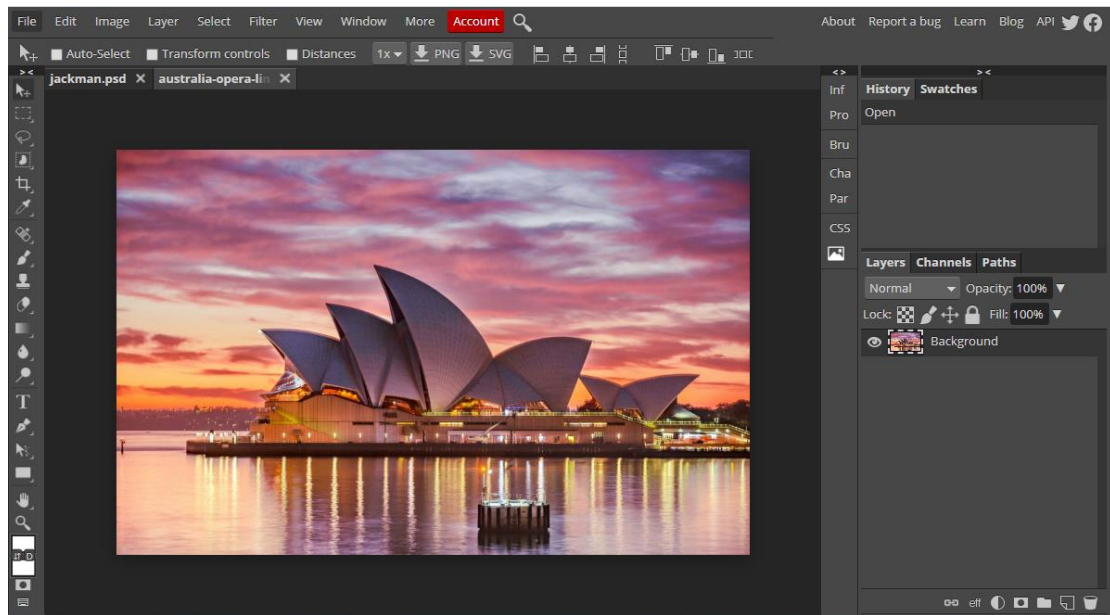
- Seek and download two proper material images, including an Australia actor Hugh Jackman’s portrait and a Sydney opera house photography at night.



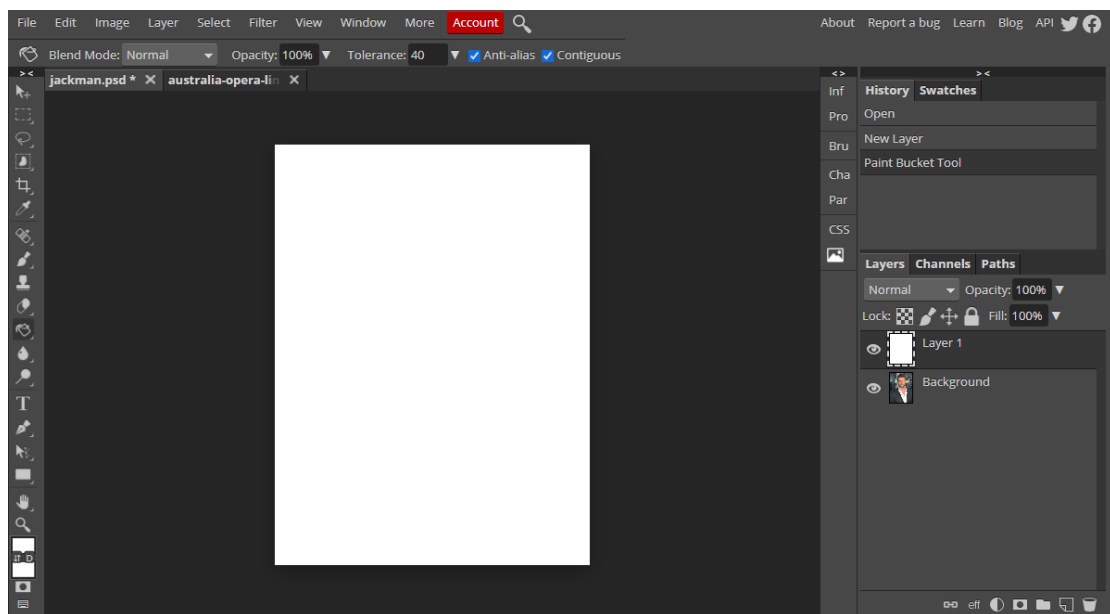


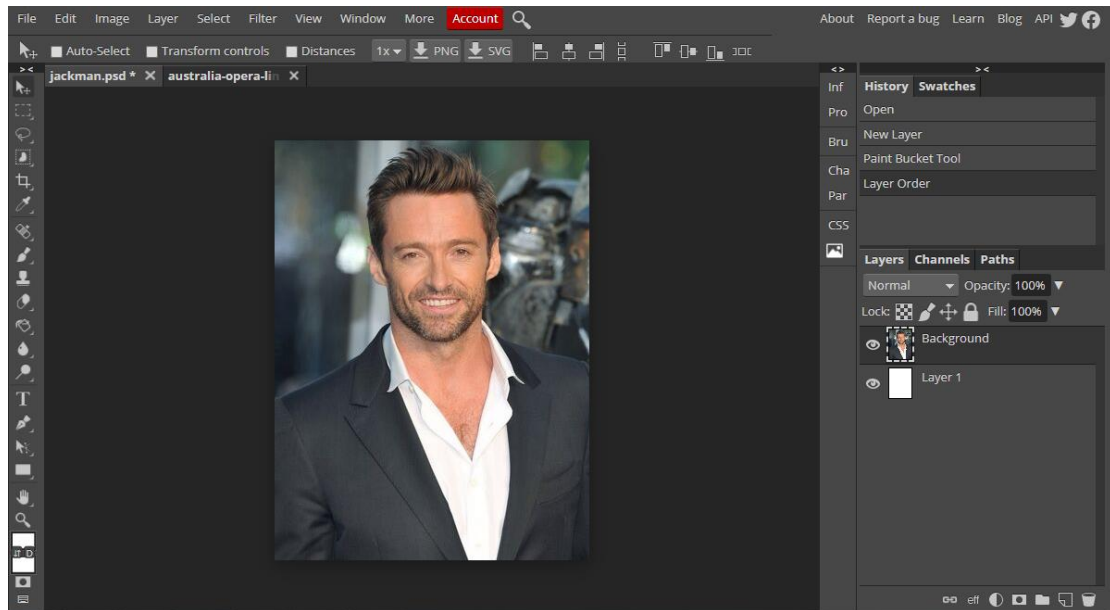
- Open collected images on the Photopea online editor (<https://www.photopea.com/>).



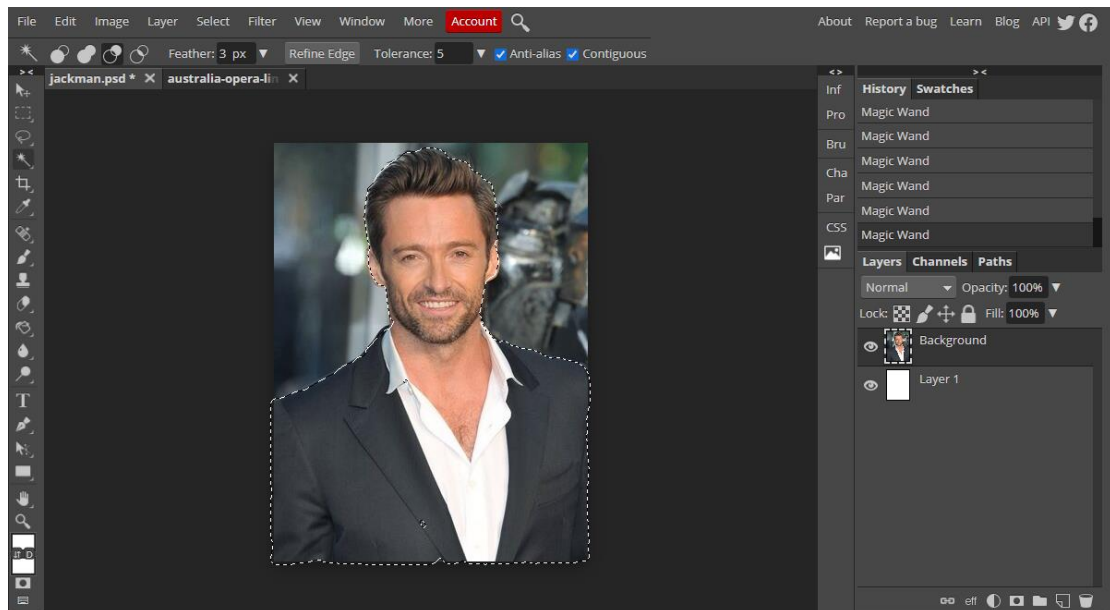


- In the portrait image view, add a new whit background layer and switch the new layer and background layer in “Layers” interface.

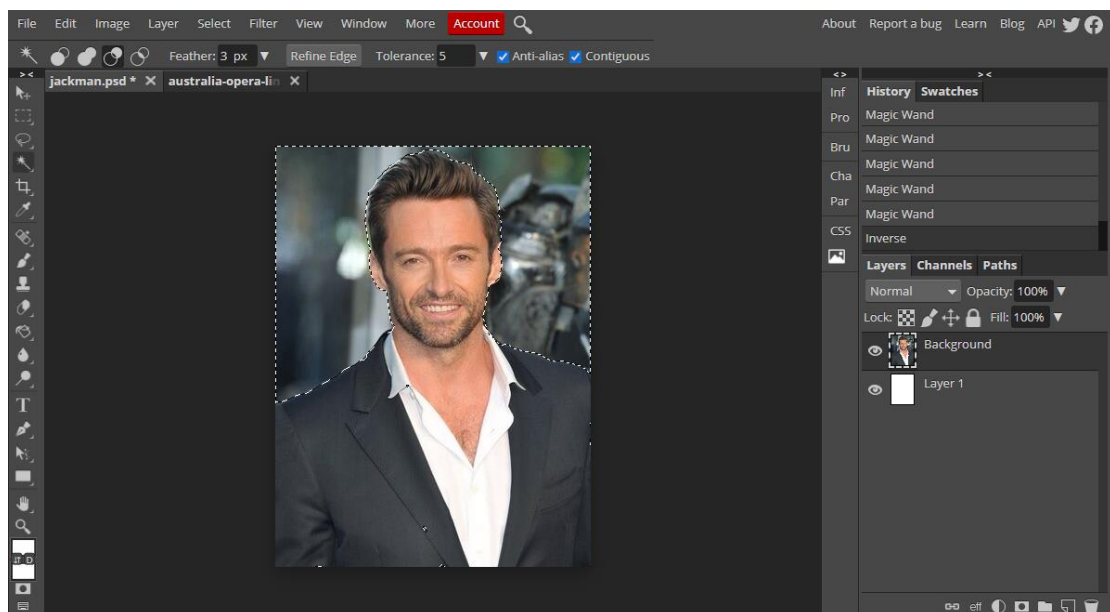
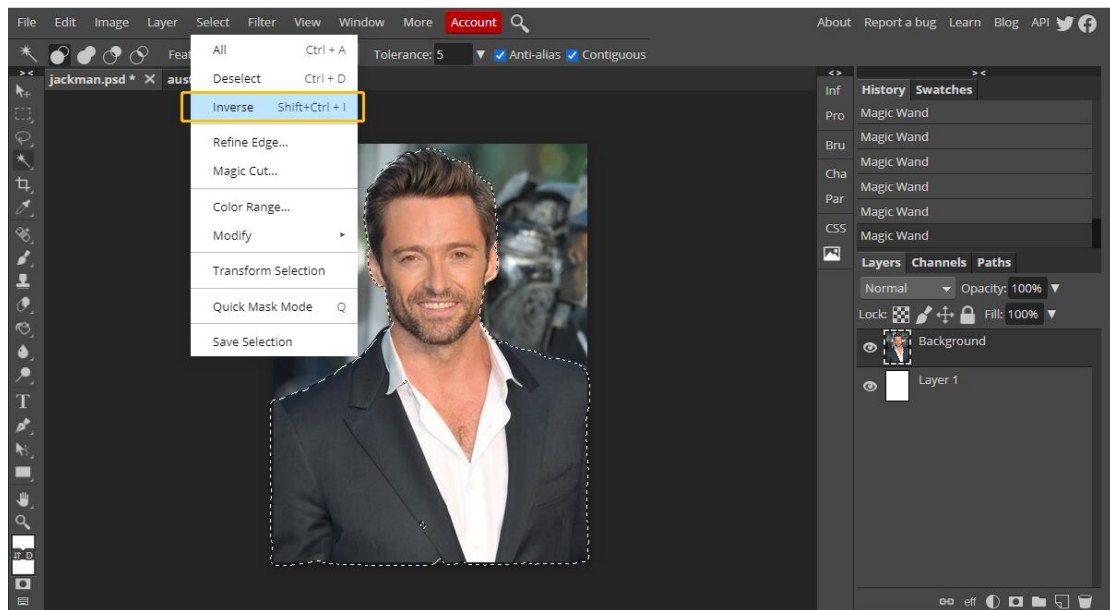




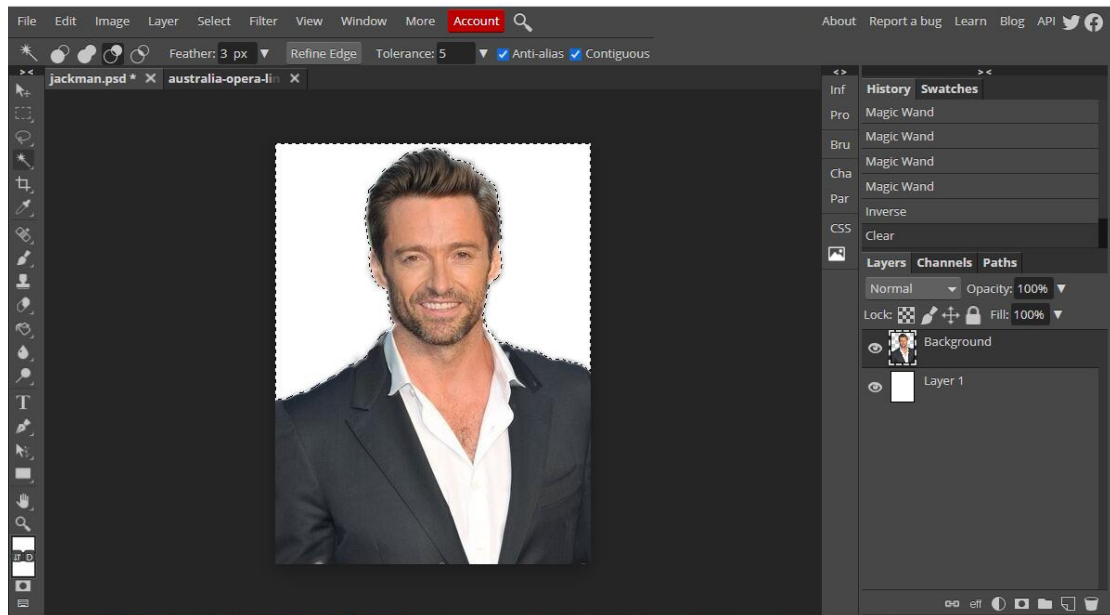
- In the portrait image view, select the non-background part of the portrait using the “Magic Wand” tool that can be found in the “Object Selection” option on the left side bar, where the feather was set to be “3 px” and tolerance was set to be “5”.



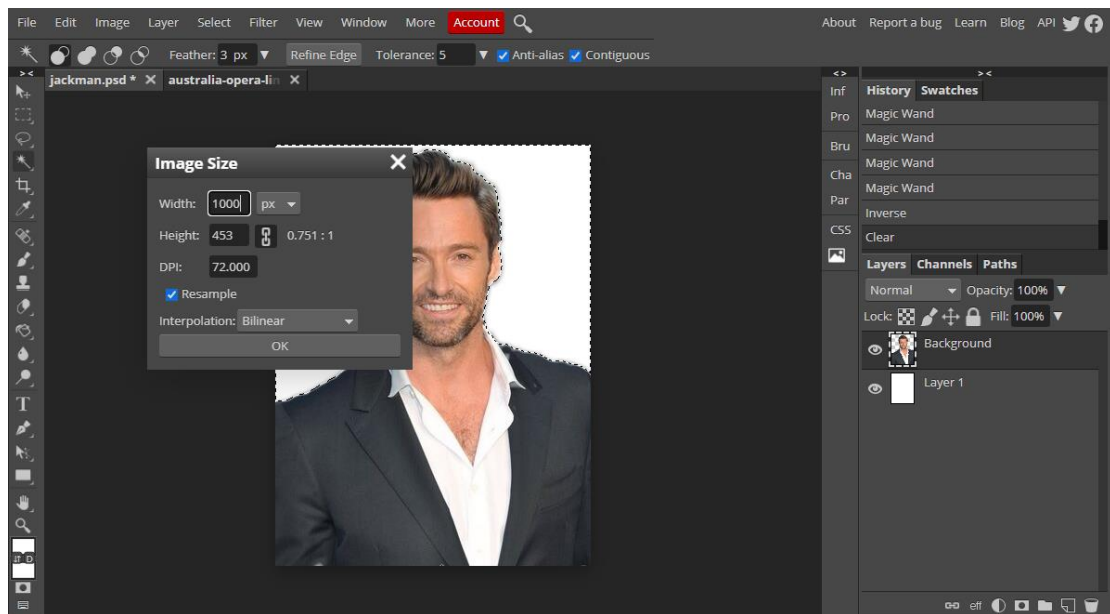
- Select the background part of the portrait image using the “Select - Inverse” option in the top bar.

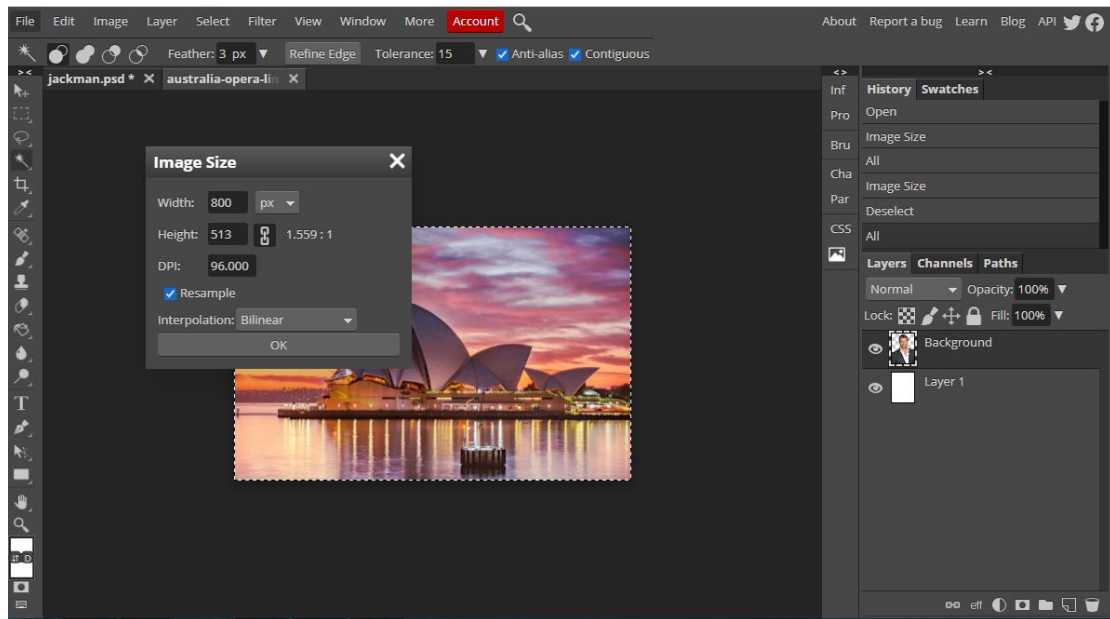


- Remove the selected background part.

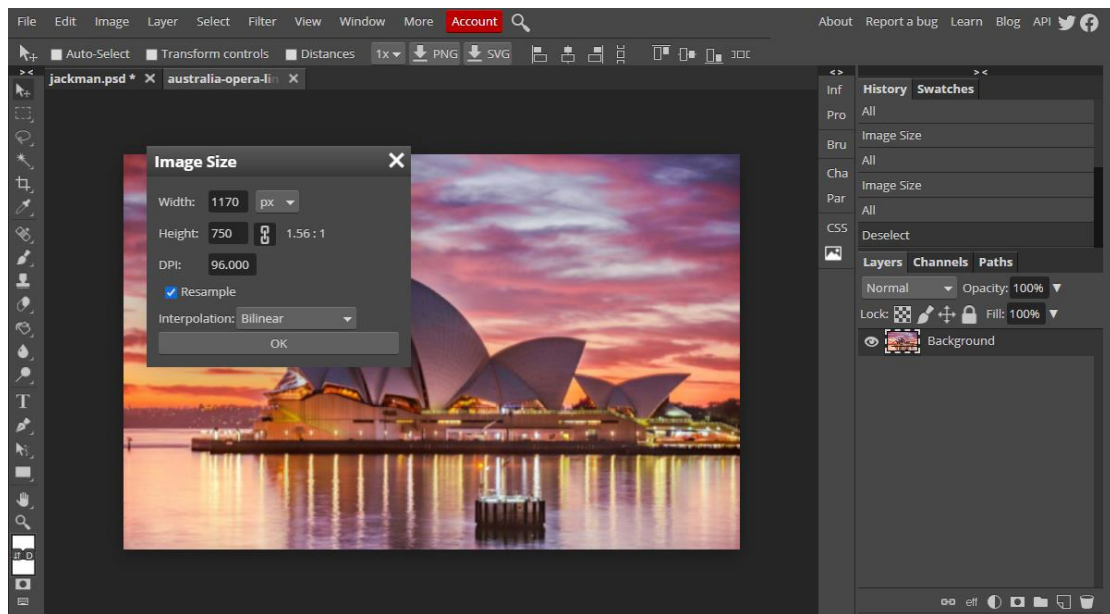


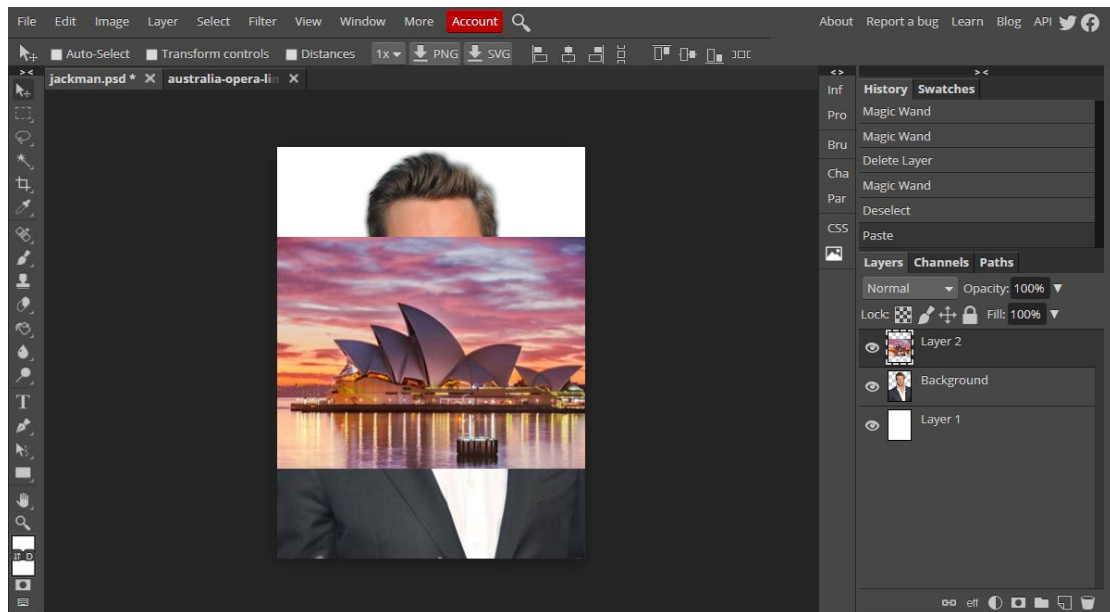
- Adjust the image sizes of both images for a proper view.



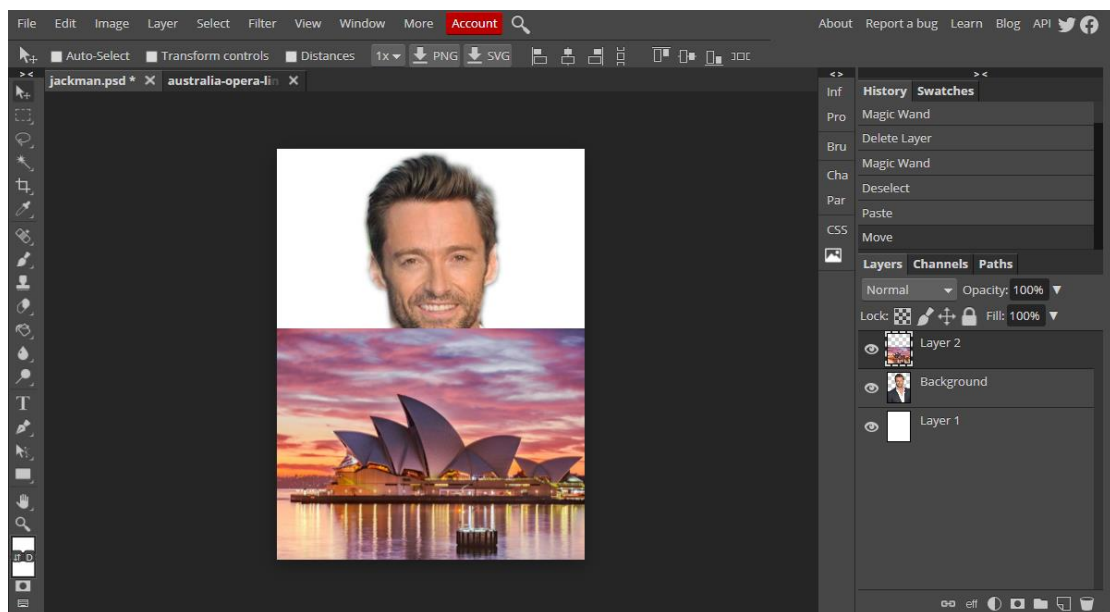


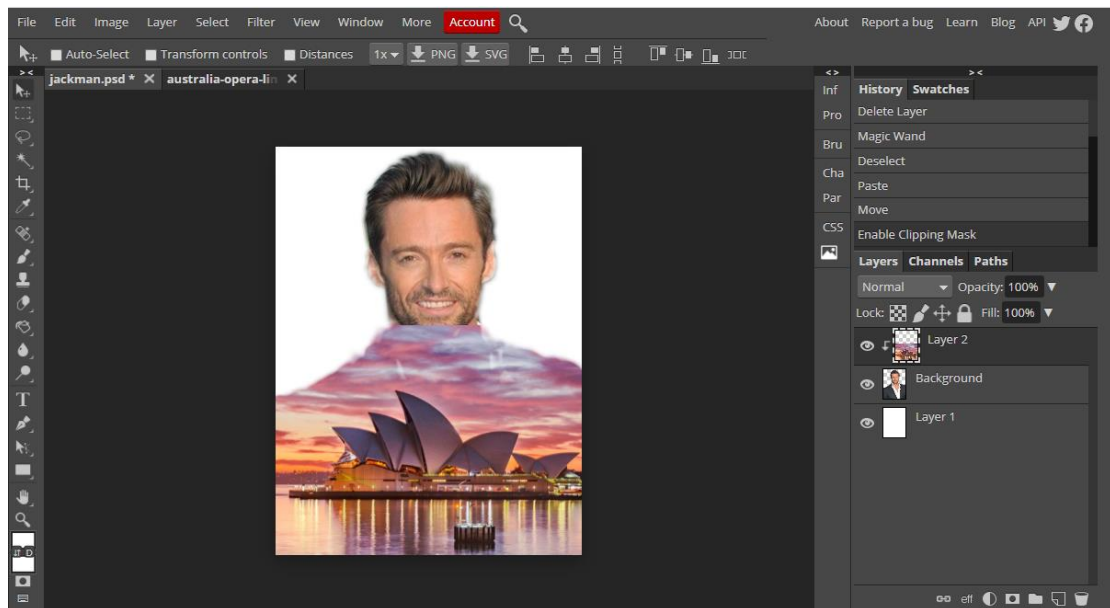
- Copy the opera view image after selecting all and paste to the portrait view image.



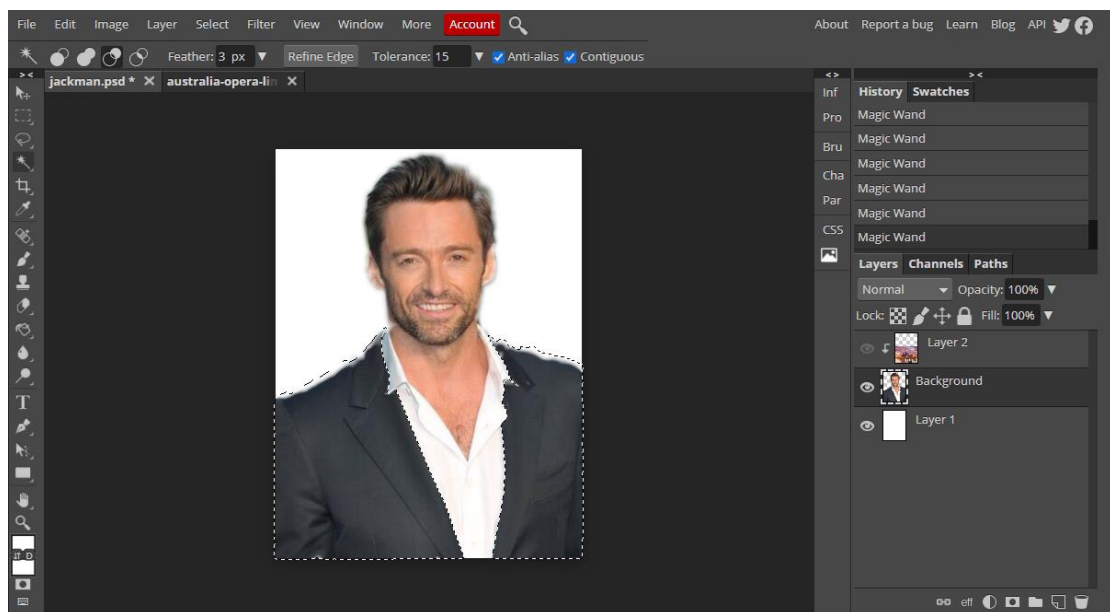


- Adjust the position of opera layer to fit the portrait layer, and then use “Clipping Mask” to clip the layer 2 over the background layer.

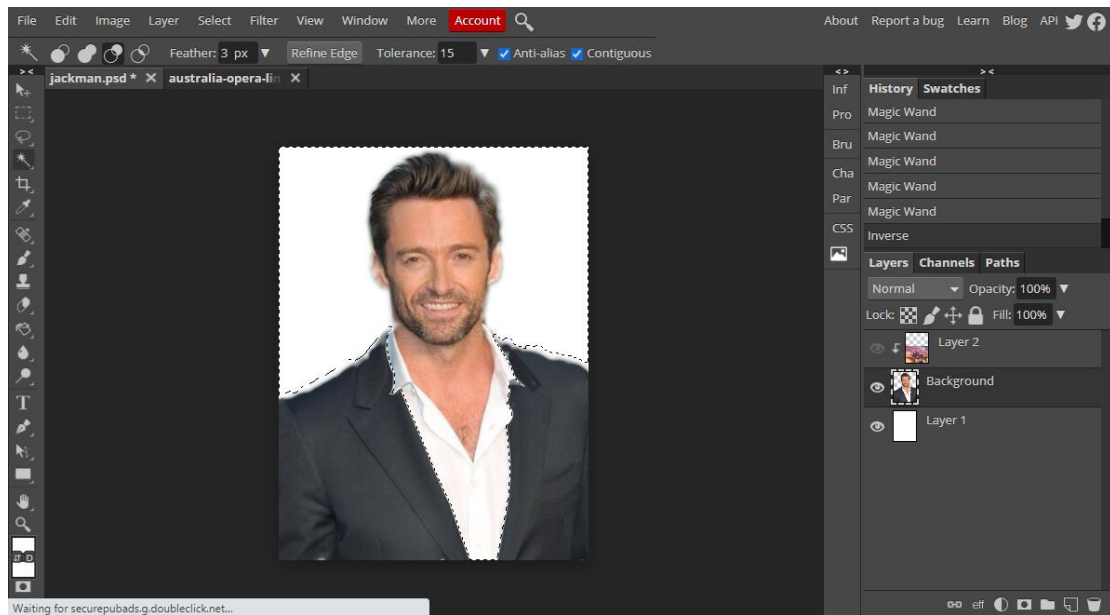




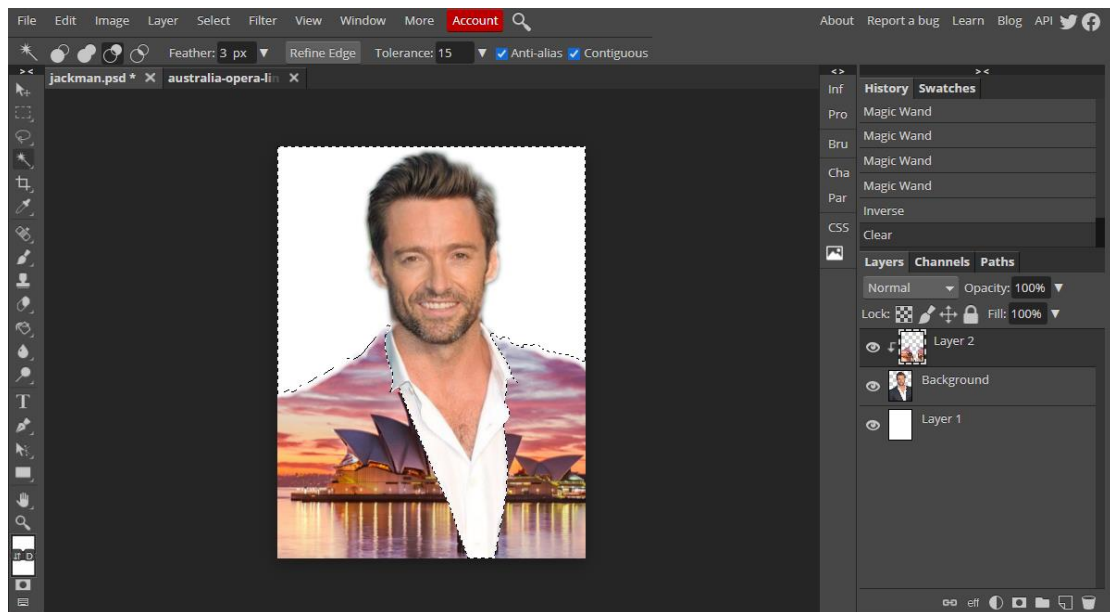
- Switch to the background layer and select Jackman’s suit jacket using the “Magic Wand” tool with tolerance “15”.



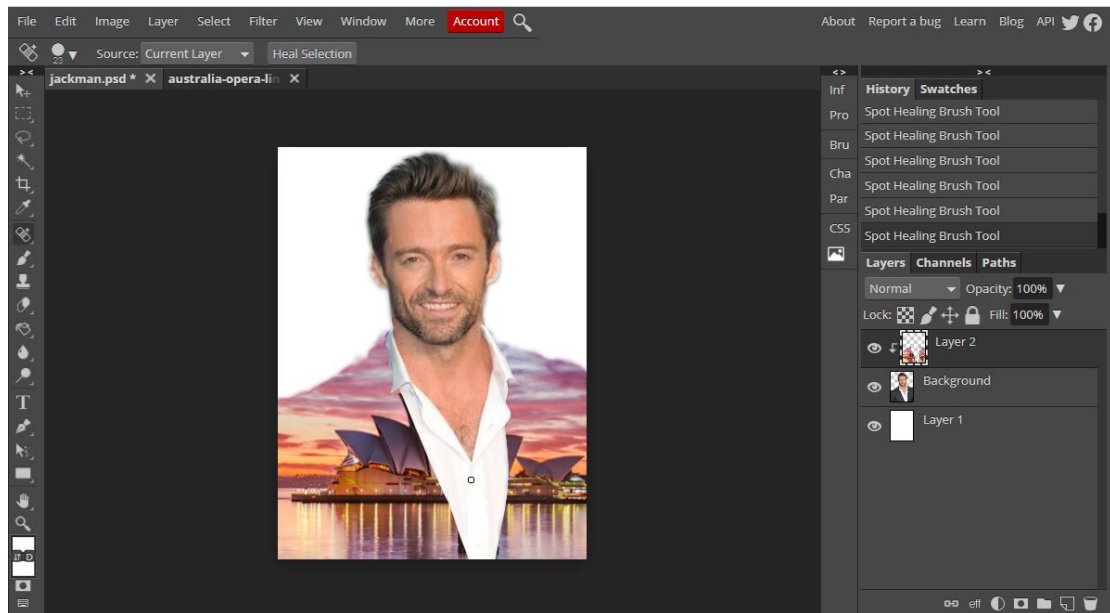
- Select the non-hair part of the portrait image using the “Select - Inverse” option in the top bar.



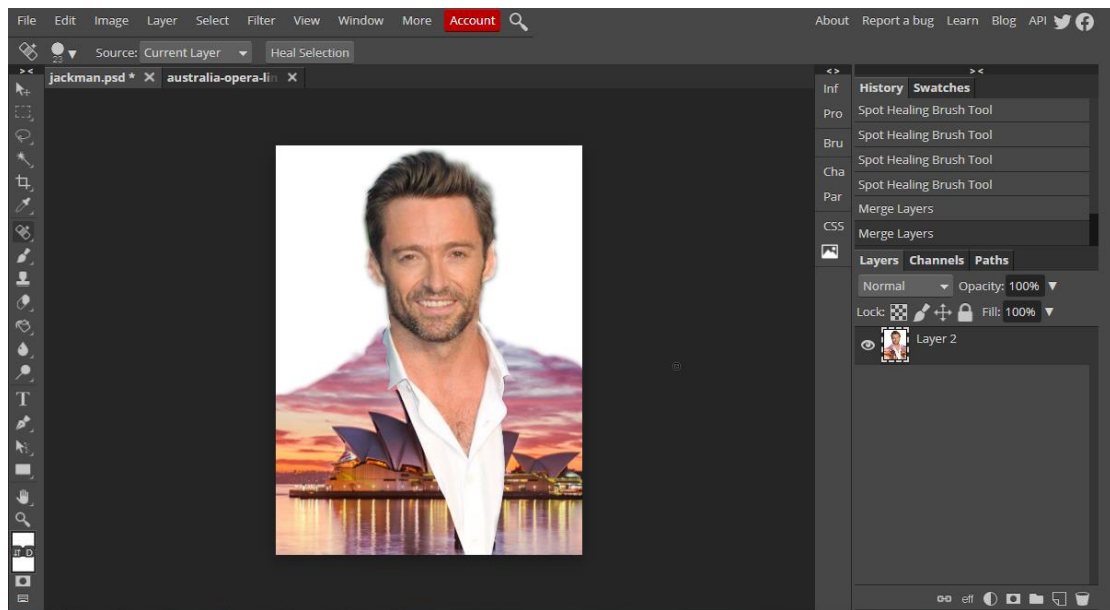
- Switch to the layer 2 and remove all non-suit part.



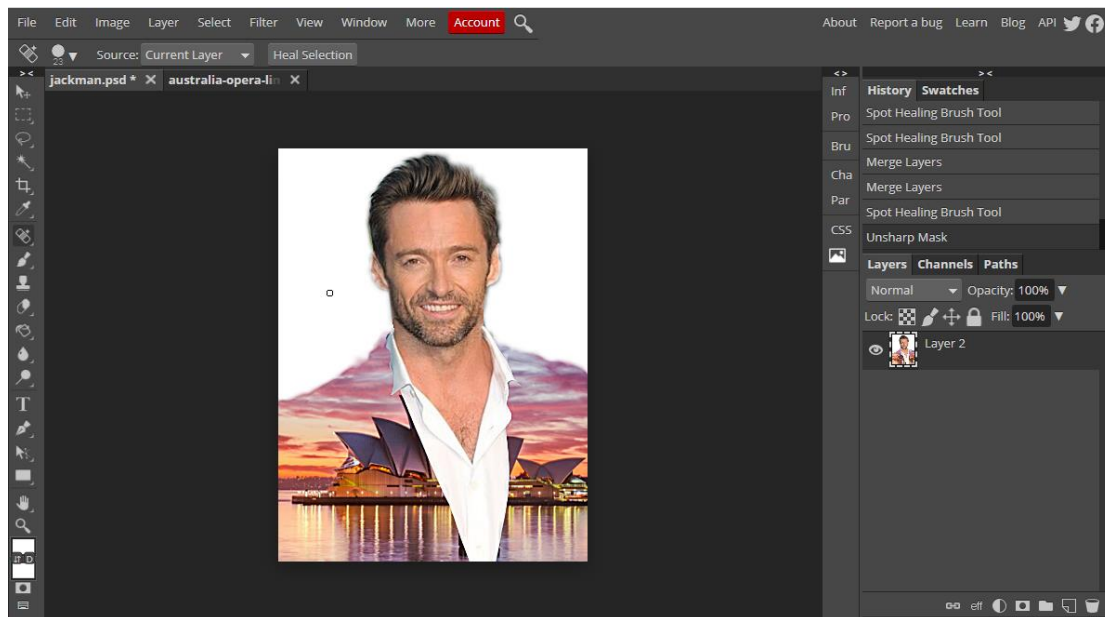
- Fix the unmatched details using the “Spot Healing Brush Tool” on the left side bar.



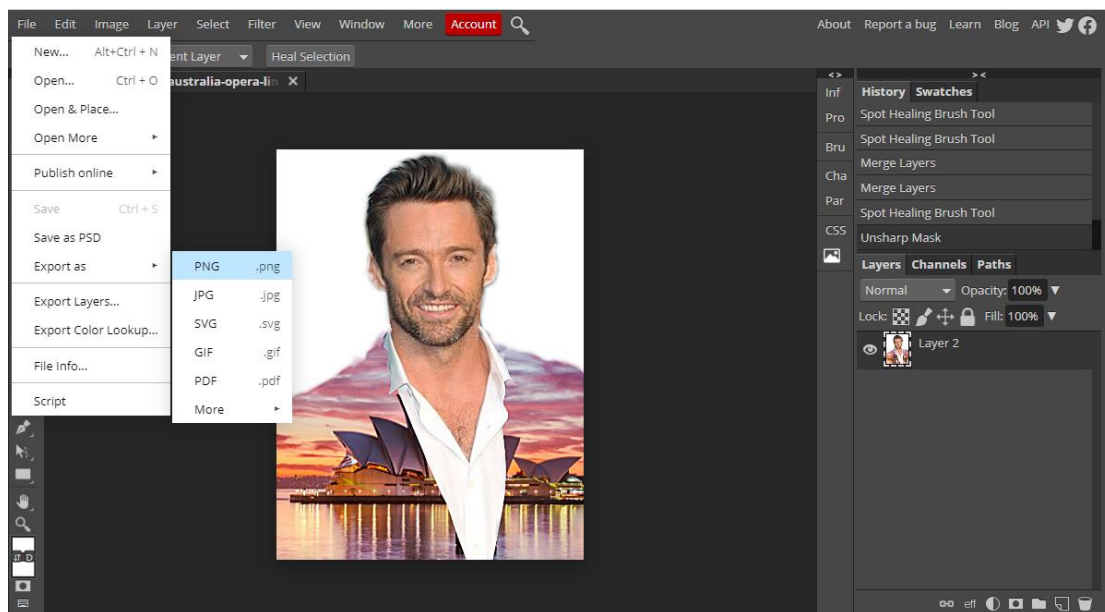
- Merge layers.



- Unsharp mask to 90 degree to make the artefact more natural.

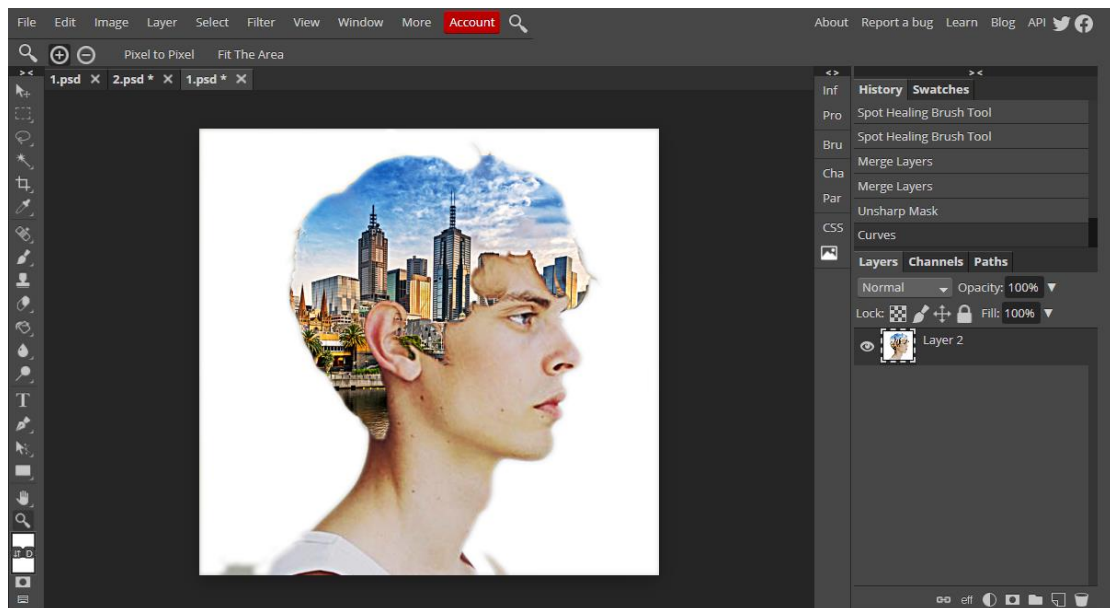


- Export the produced artefact into a new image.

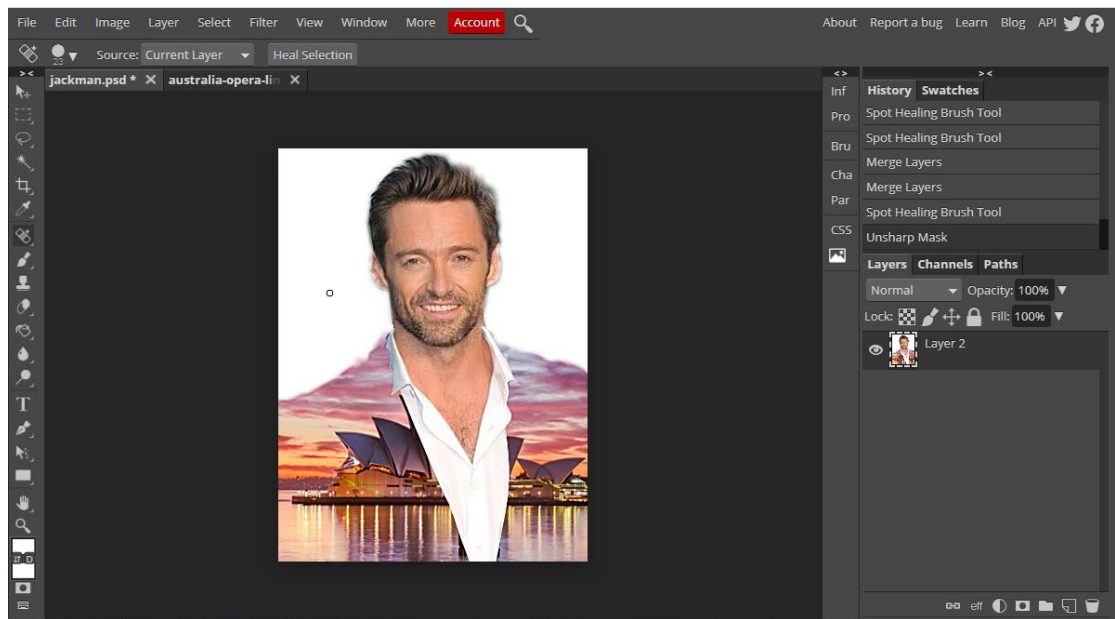


Produced output

- Result from following the tutorial



- Custom version





Notable features

There are defects in details of manipulated image due to the limited time and experience in producing a demo, which is expected to be improve in practical operations.

References

Henderson, J., 2020. Double Exposure In Photopea. [online] Youtube.com. Available at: <<https://www.youtube.com/watch?v=c5H1L6XSPHw>> [Accessed 27 November 2020].

Photopea, 2020. Photopea | Online Photo Editor. [online] Photopea.com. Available at: <<https://www.photopea.com/>> [Accessed 27 November 2020].