

Deep Vision

Final Project

face swap

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- Face swap goal is to transfer a face image of one person to another given person
- It can be also be used to transfer to your face to another domain, for example your face wearing a hat, your face with different hair style etc.

face swap

- The face transfer should **preserve** all other relevant **properties** of the **image**, for example:
 - Background
 - Face pose
 - Face position
 - Etc.

face swap

- The resulting transfer should look as *realistic* as possible

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example

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face swap

- **Input:** an image from your web camera with your face
- **Output:** an image transferred to your selected domain

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Project limitations

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- You can use **any open-source** implementation, including generated code from **ChatGPT**
- You **must train the a DNN** on your **own data** for the project
- You **must understand the theory** implemented in the **source code**
- You must understand and be able to **explain** the **source code**

Project limitations

- You will **defend the project**, and will be asked questions about the implementation
- Deadline for submission: **May 25, 2023**
- Defend your Project: **May 28, 2023**

Project Grading

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- 40% correctness and code readability
- 20% level of understanding (Defend your project)
- 20% Performance on 10 unseen images
- 10% Difficulty level
- 10% Performance on live video stream

there will be a severe enforcement for copying or cheating!

What to submit

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- **All your code**, organized to sections (data set collection, training, inference, etc.)
- **Pdf file**, filling all the blanks according to the instructions
- **Link** to the open-source library used in the project

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Good Luck