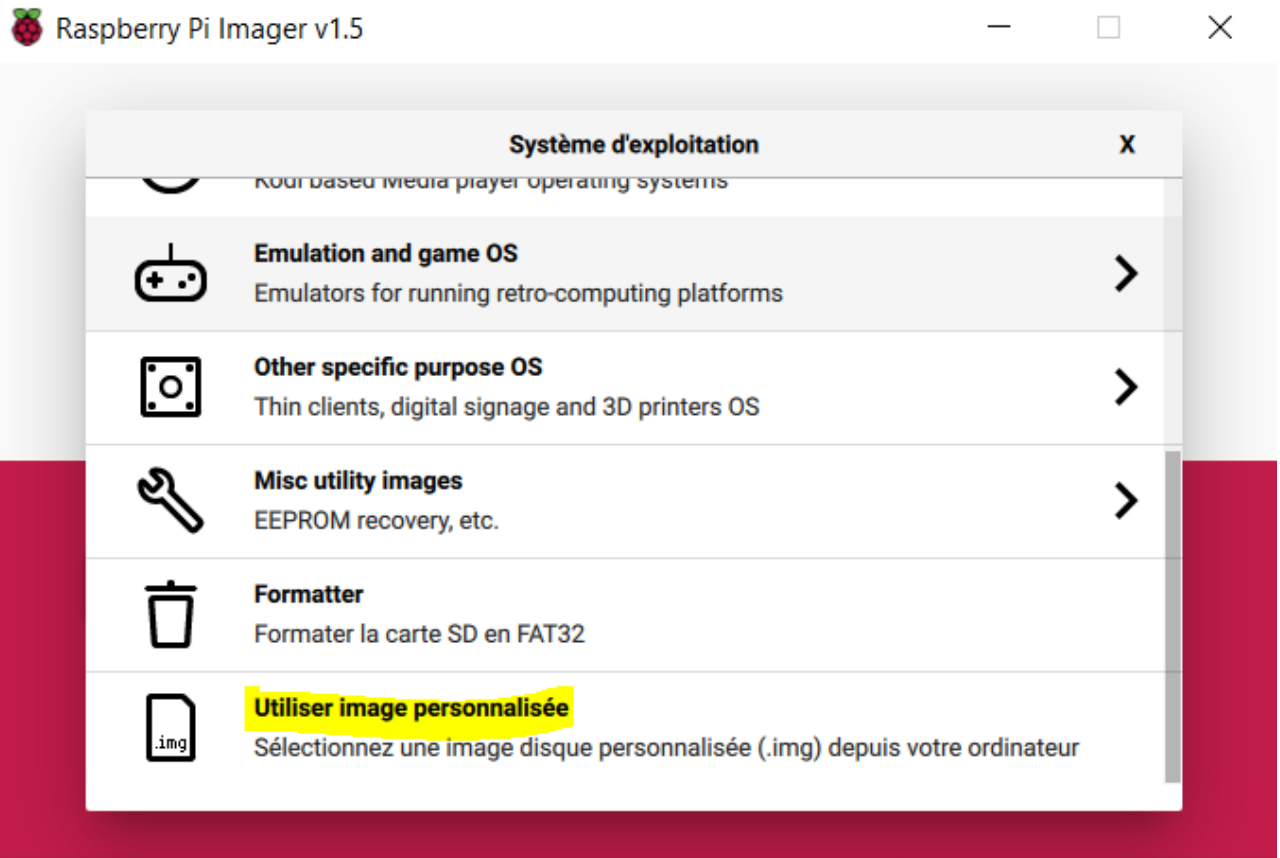


How to flash sd card for our projet

On your Laptop

- download the image: [ubuntu-mate-18.04.2](#)
- download [raspberry pi imager](#), it's helping you to flash the sd card
- then execute the application and select our os image:



- select your sd card and write



Raspberry Pi Imager v1.5



Raspberry Pi

Système d'exploitation

CHOISISSEZ L'OS

Carte SD

CHOISISSEZ LA CARTE ...

ÉCRIRE

Remove your sd card from you laptop and put it in raspberry.

On the raspberry pi 3B

- Powered the raspberry pi
- Follow the configuration
- Choose user and password
 - user: ros-ubuntu
 - password: projet2020

--> Don't upgrade to 20.0 !! ROS will not be compatible with.

- you have to update your package :

```
$ sudo apt update
```

- restart
- install git

```
$ sudo apt-get git
```

- install ROS

following the [ROS wiki installation](#).

If you have enough space on your sd card, install

```
$ sudo apt install ros-melodic-desktop
```

Then ros is installed ! check with the command line:

```
$ ls /opt/ros/melodic
```

and look if it exists.

- install opencv (for object detection):

```
$ sudo apt update  
$ sudo apt install python3-pip  
$ sudo pip3 install opencv-python
```

- On the desktop:

```
$ cd ~/Bureau  
$ git clone --branch dev_briand https://gitlab.com/20-  
21_5ETI_PRJ/Sujet_5__Simulated_robotic_scenario/s5_g7_briand_guy_kahan_martinez.git
```

Now you have your sd card configured correctly