Working with JPG image files

An extension for Mission 8



Displaying images on Codex

The CodeX comes with many images that are codex module. They are **bitmap** images.

You might want to use your own images, wh

- pics.HEART
- pics.HEART SMALL
- pics.MUSIC
- pics.HAPPY
- pics.SAD
 - pics.surprised ough the
- pics.ASLEEP
- pics.TARGET
- pics.TSHIRT
- pics.PLANE
- pics.HOUSE
- pics.TIARA
- pics.ARROW_N
- pics.ARROW_NE
- pics.ARROW E
- pics.ARROW_SE
- pics.ARROW_S
- pics.ARROW_SW
- pics.ARROW W
- · pics.ARROW NW





PG files.

You can add images that are JPG files to your CodeX. Just follow these steps.

- 1. Find an image, or use one of your own images.
 - a. You should be aware of copyright laws. If you look on the internet for images, look for creative commons or royalty free images.
 - b. You should always give credit for the image in a comment in your code.





Making the JPG image useable

Before you can upload and use the image, it needs to be the correct size and compression.

2. Use Photopea



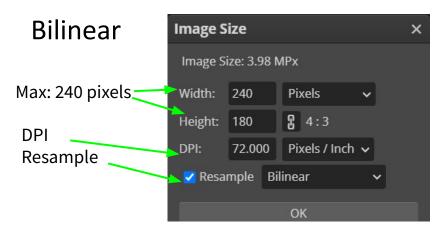
- Click on the link for Photopea, an online photo editor.
- 3. Open your image.
 - This is easiest if it is saved to your computer or a flash drive or Google drive for easy access.

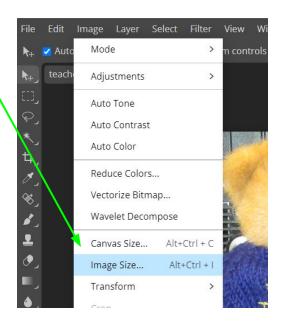




Making the JPG image useable

- 4. Change the image size to **240**x**240** pixels (or smaller)
 - Click on Image Image Size
 - Change Width & Height
 - Change the DPI to 72
 - The RESAMPLE needs to be



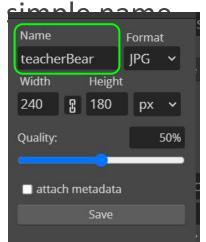


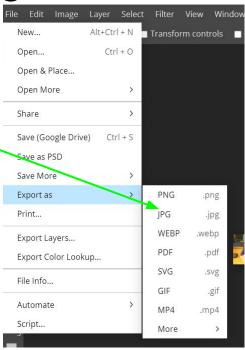




Making the JPG image useable

- 5. Export the image as a JPG
- Click on File Export as
- Choose JPG
- Give the image a (no spaces)
- Save it where you can find it









6. Put your CodeX into USB-writeable mode (<u>youtube video</u> <u>demonstration</u>)

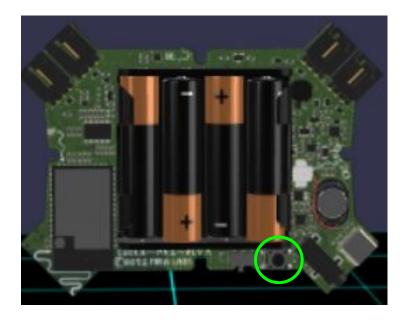
- a. Make sure the CodeX is connected to your computer
- Press and hold the
 L and A buttons
 and keep holding
 them down





6. Put your CodeX into USB-writeable mode

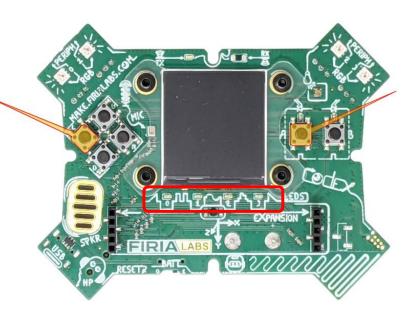
c. Reach around and briefly press the RESET button (press and release)







- 6. Put your CodeX into USB-writeable
 - d. Keep holding buttons ${\bf A}$ and ${\bf L}$ until you in right-to-left order.
 - e. You will see a *double-flash* of ALL red LEI USB-writable mode.







- 6. Put your CodeX into USB-writeable mode
 - f. Now release \mathbf{L} and \mathbf{A} .

g. You are ready to upload your files to the Codex

For more information, check out the documentation: https://docs.firialabs.com/codex/WorkingWithFiles.html











8. Make the CodeX unwritable again by disconnecting it from the computer and then connecting again.





9. Use the display.draw_jpg command to display the JPG image.

or

```
x = "pics/teacherBear.jpg"
display.draw_jpg(x)
```

Use a variable that is assigned the image file name

```
image file (use the path name if in a
folder), put the name here, in "_"
```

Or use a list and choose a random item from the list



