Working with JPG image files

An extension for Mission 8



Displaying images on Codex

The CodeX comes with many images that are available through the codex module. They are bitmap images.

You might want to use your own images, which are often JPG files.

- pics.HEART
- pics.HEART SMALL
- pics.MUSIC
- pics.HAPPY
- pics.SAD
- pics.SURPRISED
- 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





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.

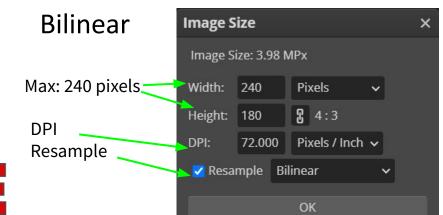
- 2. Use Photopea Photopea
 - Click on the link for Photopea, an online photo editor.
- 3. Open your image.
 - This is easiest if it is saved to your computer or a flash drive or Google drive for easy access.

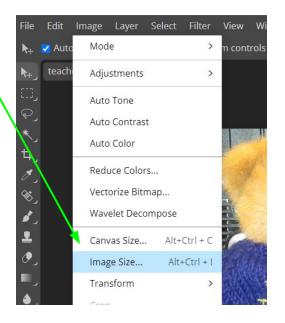




Making the JPG image useable

- 4. Change the image size to 240x240 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

Name teacherBear			Format			
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Save More			>				
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Automate			>	MP4	.mj	o4	
Script				More		>	





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

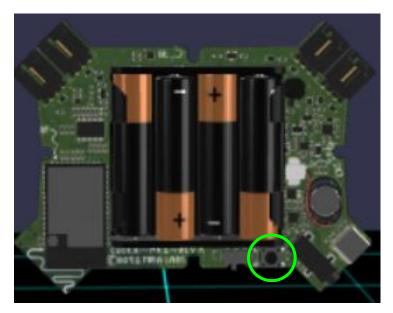
- a. Make sure the CodeX is connected to your computer
- b. Press and hold the
 L and A buttons and keep holding them down





6. Put your CodeX into USB-writeable mode

c. Reach around andbriefly press theRESET button(press and release)





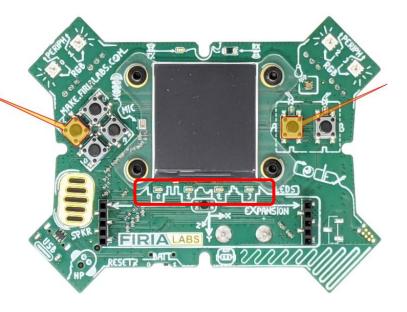


6. Put your CodeX into USB-writeable

d. Keep holding buttons A and 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 **L** and **A**.

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

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





- 7. Upload your image files to the CodeX
 - You can upload write to the CodeX, or you can crea a.



CODEX (D:) > pics

Name

ABS



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)

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

display.draw jpg("pics/teacherBear.jpg")

Use a variable that is assigned the image file name

my_images = ["pics/teacherBear.jpg", "pics/doggie.jpg", "pics/goldfish.jpg"] display.draw_jpg(random.choice(my_images))

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



