CHAPTER 2

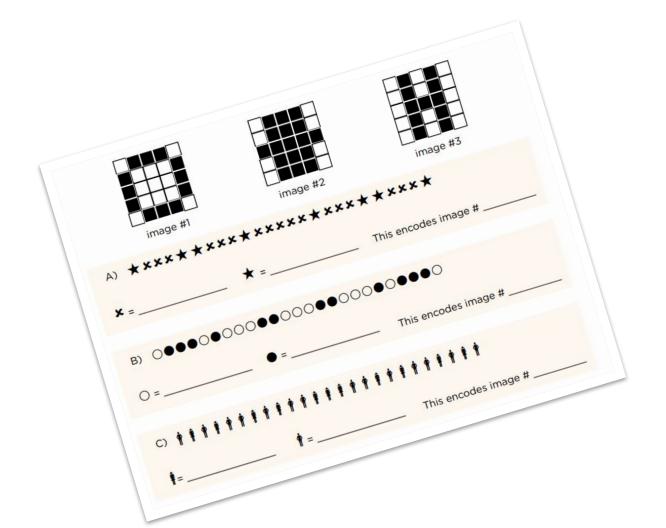
IMAGES PIXELS

PRACTICE



EXERCICE 1



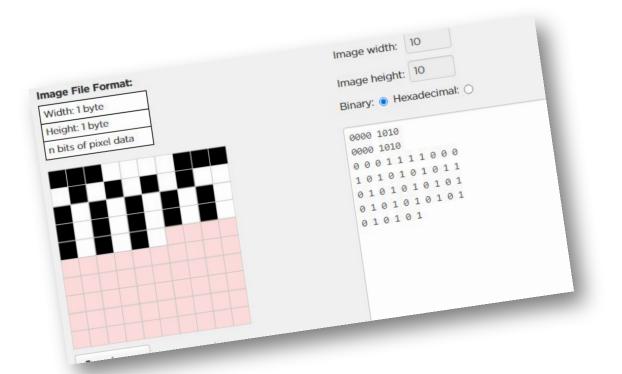






How to use the <u>pixel editor</u>?

https://studio.code.org/s/pixelation/lessons/1/levels/1



- ✓ Define the image size
- Define a white pixel
- Define a black pixel







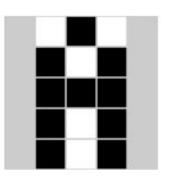
Let's use the <u>pixel editor</u>!

CHALLENGE 1

https://studio.code.org/s/csp1-2021/les sons/7/levels/2?no_redirect=1

Task 1: Make a 3x5 letter 'A'

Start by trying to recreate the 3x5 letter "A" depicted (at right) using the pixelation widget. You'll need to use the sliders to set the correct dimensions before you start entering the pixel data.



CHALLENGE 2

https://studio.code.org/s/csp1-2021/lessons/7/ levels/3?no_redirect=1

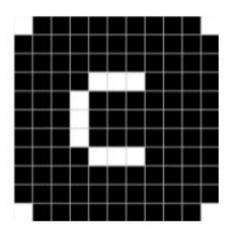
Oh no! An image got messed up during transmission!

The problem: A single extra bit was inserted into the stream of bits that make up the C of the Code.org logo.

That extra bit bumps all of the other bits down the line which makes the logo look messed up.

Your task: Hunt down the extra bit and remove it to fix the Code.org logo.

HINT: One bit early on would make it look like many bits were out of order.

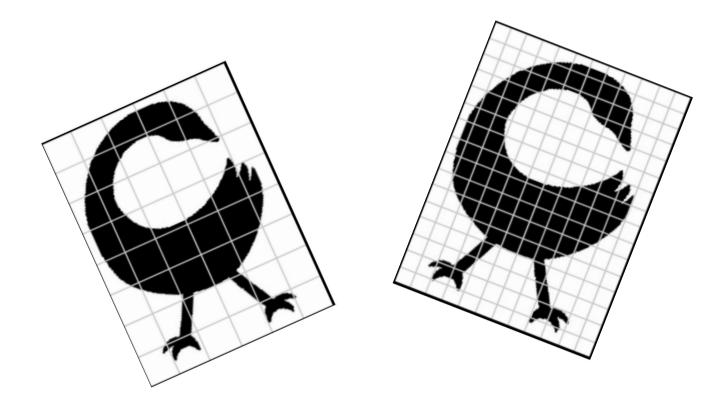


PRACTICE



EXERCICE 2

- Answers on paper
- ✓ Use the <u>pixel editor</u>



PRACTICE



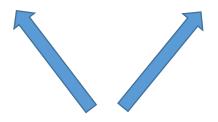
EXERCICE 3

- Draw your favorite logo on paper
- ✔ Decide how you are going to sample this logo
 - ✓ Draw the logo in one of the 4 grids
- ✔ Recreate the logo sing the pixel editor
- ✓ Show it to a classmate. Do they recognize the logo? Make adjustments if needed





What are the + and - of sampling an image more frequently?



= increase the number of pixels



Draw contest

- ✓ Using the pixel editor, draw your <u>best black and white pixel</u> <u>image</u>
- ✓ Submit it on google classroom
- Jury the next session to vote!

