

# draw

January 31, 2024

```
[ ]: import cv2 as cv
import numpy as np
```

```
[ ]: blank = np.zeros((500, 500,3), dtype = 'uint8') # 3 = number of color channels
cv.imshow('Blank', blank)
```

```
[ ]: img = cv.imread('Images/cat.jpg')
cv.imshow('Cat', img)
```

1. Paint the image a certain color

```
blank[:] = 0,255,0 .imshow('Green', blank)
```

2. Draw a Rectangle

```
[ ]: cv.rectangle(blank, (0,0),(blank.shape[1]//2, blank.shape[0]//2), (0, 255, 0),
↳thickness = 2)# thickness = -1 fills the rectangle
cv.imshow('Rectangle', blank)
```

3. Draw a Circle

```
[ ]: cv.circle(blank, (blank.shape[1]//2, blank.shape[0]//2), 40, (0, 0, 255),
↳thickness=3)# thickness = -1 fills the circle
cv.imshow('Circle', blank)
```

4. Draw a Line

```
[ ]: cv.line(blank, (100, 250), (300, 400), (255, 255, 255), thickness=3)
cv.imshow('Line', blank)
```

5. Write text

```
[ ]: cv.putText(blank, "Hello World", (200, 250), cv.FONT_HERSHEY_SIMPLEX, 1, (255,
↳0, 0), thickness=2)
cv.imshow('Text', blank)
```

```
[ ]: cv.waitKey(0)
```