

# Deep Steganography

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*Install the packages*

```
• begin
•   using Colors      , ColorVectorSpace  , ImageShow  , FileIO    , ImageIO
•   using PlutoUI
•   using HypertextLiteral
•   using QuartzImageIO
•   using Images
• end
```

Get the url of the image

```
url =
"https://raw.githubusercontent.com/jonas-kgomo/deep-steganography/main/purplexl.jpg"
```

```
• url =
• "https://raw.githubusercontent.com/jonas-kgomo/deep-steganography/main/purplexl.jpg"
```

```
cover_photo = "/var/folders/sj/0q3_0t_954lfg89yl9zsv3t40000gn/T/jL_RYcNlL"
```

```
• cover_photo = download(url)
```

```
cover =
```



```
• cover = load(cover\_photo)
```

Using computational photography we can find the pixel in position  $(i, j)$

`a_pixel =`



Lets collect an array of pixels in a row  $r$



- `cover[500, :]`

We can also collect a matrix  $M_{n \times n}$

`grid =`



- `grid = cover[1:10, 1:10]`

`(10, 10)`

- `size(grid)`

`new =`

```
3x2 reinterpret(reshape, N0f8, mappedarray(MappedArrays.var"#7#9"{RGB{N0f8}}{()}, MappedArr
0.38  0.322
0.267 0.204
0.518 0.455
```

- `new = channelview(grid[1,1:2])`

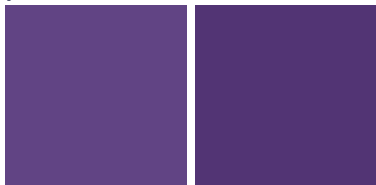
Convert a pixel to bits

`"01100001"`

- `bitstring(new[1])`

- *Enter cell code...*

pnew =



- `pnew = colorview(RGB, new)`

**UndefVarError: colorize not defined**

1. top-level scope @ **(** Local: 1

- `colorize(new)`