DIP 1st Practical Digital Negative

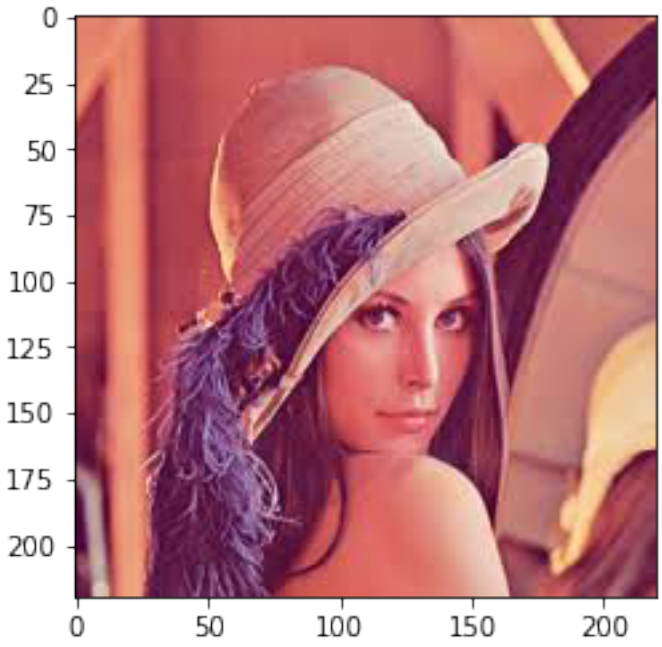
January 14, 2020

[8]:
```
import matplotlib.image as img
import matplotlib.pyplot as plt
```

[9]:
```
image=img.imread("/home/wilcy/Downloads/lenna.jpg")
```

[10]:
```
plt.imshow(image)
```

[10]:
```
<matplotlib.image.AxesImage at 0x7fca5a77f190>
```



[11]:
```
print(image.shape)
```

```
(220, 220, 3)
```

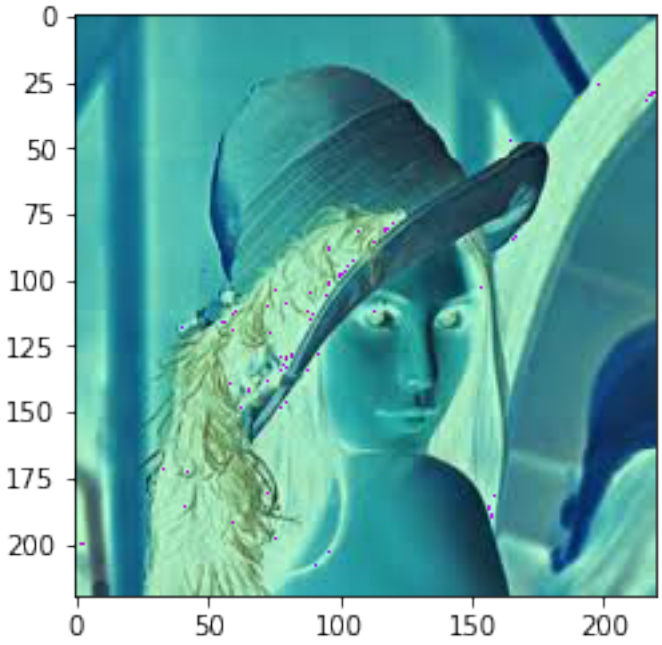
[12]:
```
print(image)
```

```
[[[230 134 118]
```

```
 [230 134 118]
 [229 133 117]
 …
 [220 133 116]
 [232 145 128]
 [209 121 107]]

[[229 133 117]
 [229 133 117]
 [229 133 117]
 …
 [227 140 130]
 [234 147 138]
 [216 129 120]]

[[229 133 117]
 [229 133 117]
 [228 132 116]
 …
 [194 108 109]
 [177  92  95]
 [154  69  74]]

…

[[ 84  22  59]
 [ 92  28  65]
 [ 98  30  67]
 …
 [127  43  67]
 [141  53  75]
 [149  60  78]]

[[ 81  21  59]
 [ 87  25  62]
 [ 95  27  64]
 …
 [140  55  78]
 [154  65  85]
 [163  71  86]]

[[ 77  19  57]
 [ 86  24  63]
 [ 92  26  64]
 …
 [150  62  84]
 [163  72  89]
 [170  76  90]]]
```

[13]:
```
plt.imshow(1-image)
```

[13]:
```
<matplotlib.image.AxesImage at 0x7fca5a6ef090>
```



[14]:
```
print(image.shape[0])
```

```
220
```

[17]:
```
print(image.shape[2])
```

```
3
```