**SIP: A Language for Simple Image Processing**

**\*\*Subject to Change during Implementation**

**Task Division:**

**Scanner and Parser**

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**Intermediate Code**

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* Image Filtering
* Image Features

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* Image Transformations
* Image Colors
* Image Plotting/Reading

**Language Format**

**Note:**

To save image edits, the assignment operator needs to be used. Example: img = img.rotate(direction)

Using the Special SIP format, the original Image is edited and saved with all of the corresponding changes inside the brackets.

*Assignments*

1. Assignment to methods

img = readImage(“/path”)

img = img.rotate(direction)

1. Assignment of image to another image

other = img

*Image Transformations*

img.resize(height, width)

img.translate(mov\_x, mov\_y)

img.rotate(direction)

\*[direction = right or left]

*Image Filtering*

img.enhance(level)

img.sharpen(level)

img.blur(level)

img.denoise(level)

\*[level = medium, low, or high]

se cambio ya no es por porcentaje para simplificar

*Image Colors*

img.greyScale()

img.sepia()

img.getR()

img.getG()

img.getB()

img.tint(R, G, B) (tentative)

*Image Feature Extraction*

img.getEdges()

img.segmentation()

*Image Plotting*

img.show(“plot title”)

*Image Importing*

img.imageRead()

*Special SIP Format*

img{

denoise(level)

blur(level)

sharpen(level)

getEdges()

show(“plot title”)

}