# Basic Image Import,Show,Processing and Export

This example shows how to read an image into the workspace, adjust the contrast in the image, and then write the adjusted image to a file

```
md"""
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"""
```

```
using TestImages,FileIO,Images,ImageView,MosaicViews
```

```
begin
    # Read Image
img1 = testimage("chelsea.jpg"); #one way
img2 = load("assets/reference.jpg"); #second way
end
```
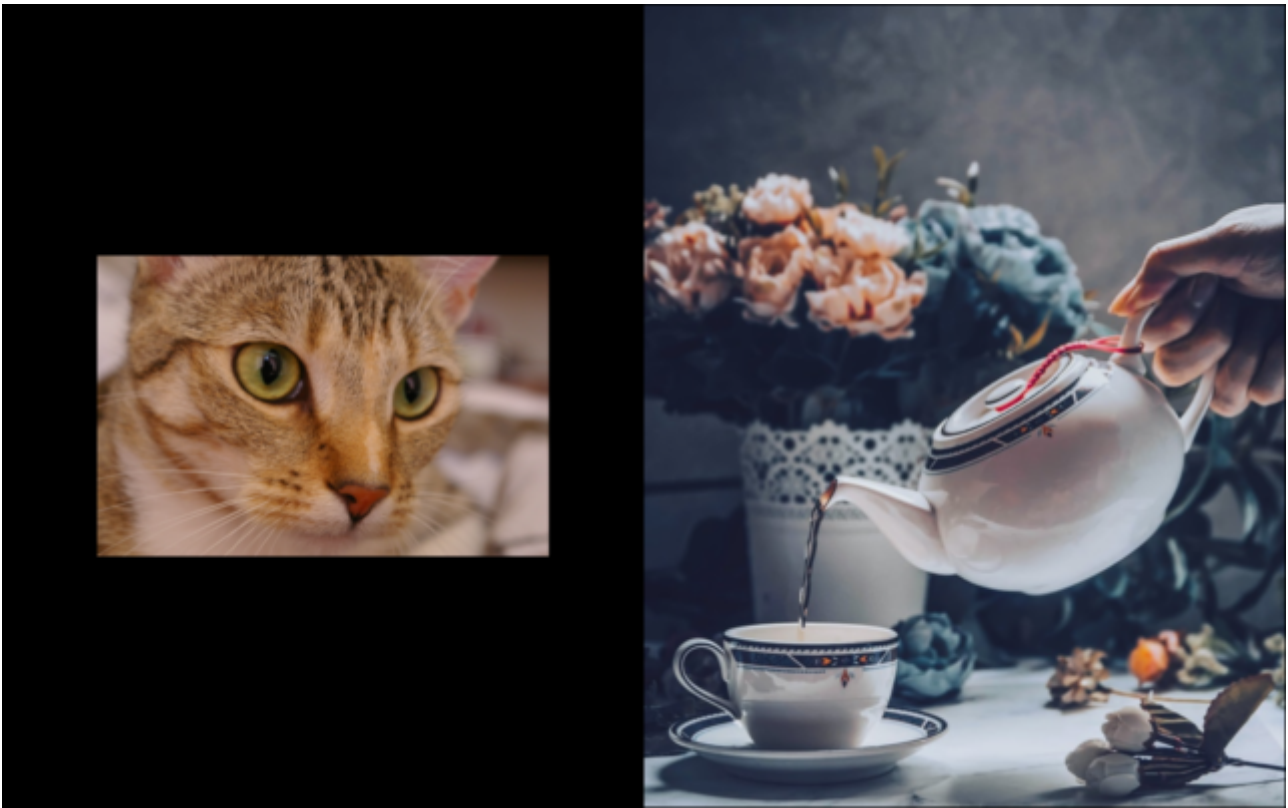
```julia
begin
    imshow(img1); #imported through ImageView.jl
    mosaicview(img1,img2;nrow=1) #imported through MosaiViews.jl
end
```

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```julia
begin
    # Apparently no proper documentation on how to find details on a image
    x=typeof(img1);
    y=size(img1);
    z= sizeof(img1);
end
```

Array{RGB{Normed{UInt8,8}},2}

```julia
x
```

(300, 451)

```julia
y
```

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```julia
z
```

```julia
using Plots,ImageContrastAdjustment
```
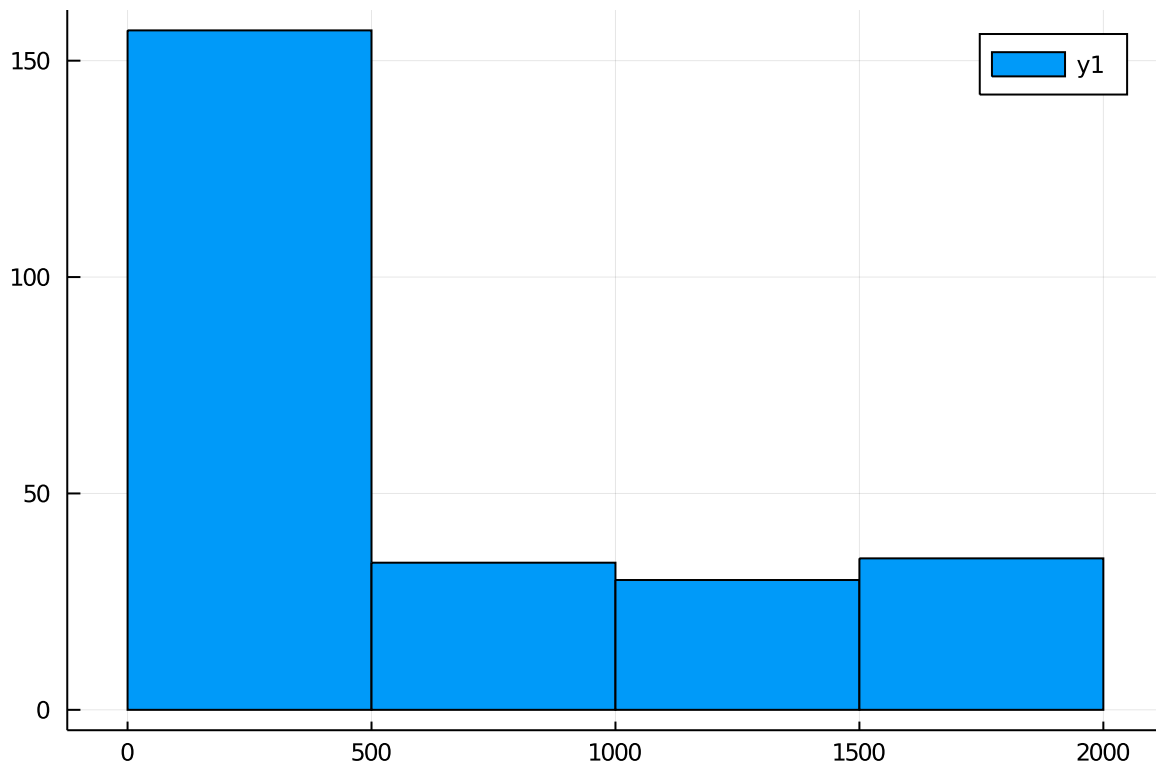
val =
    (0.0f0:0.003921569f0:1.0f0, OffsetArray(::Array{Int64,1}, 0:256): [0, 0, 0, 0, 0, 3

```julia
val=build_histogram(img1)
```

- **histogram**(**val**[2][0:255])

img_equalized =

- **img_equalized = adjust_histogram**(img1, **Equalization**(nbins = 256))

0

```
begin
    #method to save a image with a particular directory in a specific format froma a
    loaded image
    save("assets/cat.png",img1)
    save("assets/img_equalised.png",img_equalized)
end
```