Pipeline

① Load all 600 images in the HSV format

Let I_n = nth image ⇒ Data Set $I = \{I_0, I_1, I_2, \ldots, I_{600}\}$
Each image is of size 219 × 360 × 3

② For each image in set I, decompose image into Hue, Saturation, Value channel

Let h_n = hue channel of nth image in I
S_n = Saturation channel of nth image in I
V_n = value channel of nth image in I

For each image k in I, standardize each channel

1) $h_k / 180$
2) $S_k / 180$
3) $V_k / 180$

③ For each image k in I, flatten I_k from 219 × 360 × 3 to 657 × 360,

Horizontally stack the image such that final matrix is

$$\left[I_0, I_1, I_2, \ldots, I_{600} \right]$$

Size = 657 × 216000