DOCUMENTATION OF PREPROCESSING DATA

I. Data structure:

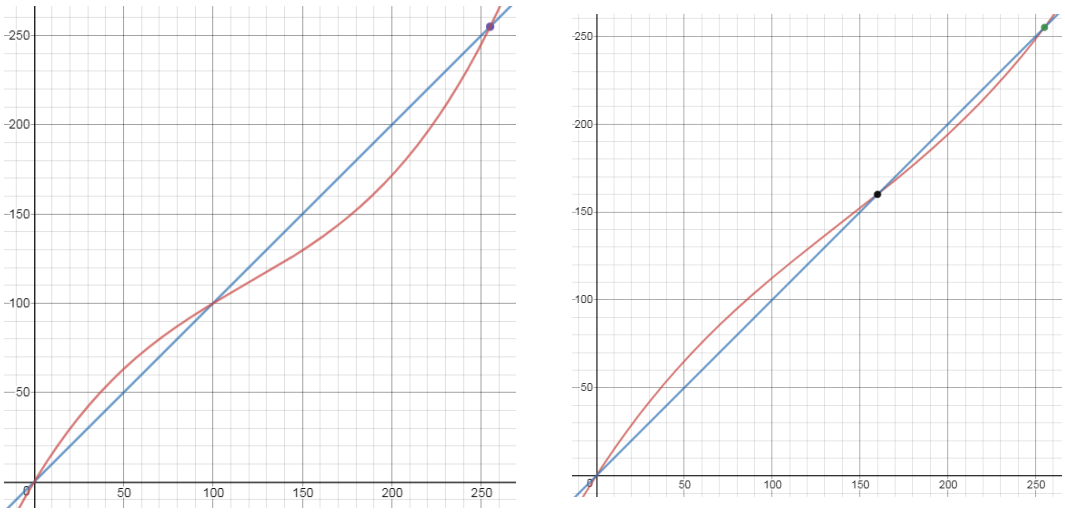
- **Original**: Storage of original images
- **Generated_Image**:
  - **001:** Reduced glare directory (section II – first method)
  - **003:** Reduced glare & enhanced contrast directory
- **helper.py**: necessary functions
- **generate.py**: Do generate!
- **show_case.py**: Run after generating to see deeper

II. Pre-processing data:

- **First processing method:** Reduce glare (RG) for all images in Original, output images are stored at `Generated_Image/001`

  Include a 4-mixed-filter by 4 steps:

  1. First polynomial function (see more at **section II – part 2** in **[v20190404] Reduce Glare - Giảm lóa.pdf**)
  2. Gamma correction: *g = 0.75*
  3. Second polynomial function
  4. Gamma correction: *g = 0.8*



*Left is **first polynomial function** with threshold = 100.*
*Right is **second polynomial function** with threshold = 160.*

- **Third processing method:** Reduce glare + Enhance contrast (RG + EC) for all images in Original, output images are stored at `Generated_Image/003`

Mixed 4 steps:

1. Reduce glare
2. Enhance contract: factor = 1.6
3. Reduce glare
4. Enhance contract: factor = 1.4