

[Pages](#) / [William Collins's Home](#)

/ [CS8674 - Masters Project - Investigation of RAW Log RGB Space for Color Constancy](#)

Color Constancy Datasets

Created by Unknown User (barrelchester), last modified on Jan 26, 2023

Papers and datasets from <https://paperswithcode.com/task/color-constancy> are a good start.

Frequently Sited

Gehler

Peter Gehler and Carsten Rother and Andrew Blake and Tom Minka and Toby Sharp, "Bayesian Color Constancy Revisited," Proceedings of the IEEE Computer Society Conference on Computer Vision and Pattern Recognition, 2008. and <http://www.kyb.mpg.de/bs/people/pgehler/colour/index.html>.

and

Lilong Shi and Brian Funt, "Re-processed Version of the Gehler Color Constancy Dataset of 568 Images,"

https://www2.cs.sfu.ca/~colour/data/shi_gehler/

568 images

CUBE++

Ershov, E., Savchik, A., Semenov, I., Banić, N., Belokopytov, A., Senshina, D., ... Lončarić, S. (2020). The Cube++ Illumination Estimation Dataset. IEEE Access, 8, 227511–227527.

<https://github.com/Visillect/CubePlusPlus>

<https://zenodo.org/record/4153431#.Y9MnYnbMI2w>

4890 images, 200GB, 16-bit pngs, gt.csv r+g+b=1, jpg for visualization

SimpleCUBE

2GB, 2234 images

NUS-8 Camera

https://cvil.eecs.yorku.ca/projects/public_html/illuminant/illuminant.html

Rendered WB dataset

Affi et al. in When Color Constancy Goes Wrong: Correcting Improperly White-Balanced Images

https://cvil.eecs.yorku.ca/projects/public_html/sRGB_WB_correction/dataset.html

65,000 pairs of incorrectly white-balanced images and their corresponding correctly white-balanced images

Other Links:

<https://paperswithcode.com/paper/deep-white-balance-editing>

<https://paperswithcode.com/paper/when-color-constancy-goes-wrong-correcting>

INTEL-TAU

F. Laakom, J. Raitoharju, J. Nikkanen, A. Iosifidis and M. Gabbouj, "INTEL-TAU: A Color Constancy Dataset," in IEEE Access, vol. 9, pp. 39560-39567, 2021

<https://etsin.fairdata.fi/dataset/f0570a3f-3d77-4f44-9ef1-99ab4878f17c>

450GB, 7022 images from 3 cameras Canon 5DSR, Nikon D810, and Sony IMX135
corrected and uncorrected versions of raw data

Misc Other Datasets

Gray Ball Dataset

Synthetic 3D Objects with Background

No labels