Computer Vision A-Z™: Download Code Templates

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Greetings

Welcome to the data repository for the Computer Vision course by Hadelin de Ponteves and Kirill Eremenko. The datasets and other supplementary materials are below. Enjoy!

Welcome to the Course!

- Computer Vision A-Z (https://sds-platform-private.s3-us-east-2.amazonaws.com/uploads/P23-Computer-Vision-AZ-Template-Folder.zip) (Folder Structure. Updated 20171020)
- Installations (https://sds-platform-private.s3-us-east-2.amazonaws.com/uploads/P23-Installations.zip)

Module 1: Face Detection with OpenCV

Additional reading:

- Paul Viola & Michael Jones, 2001 Rapid Object Detection using a Boosted Cascade of Simple Features (http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.10.6807&rep=rep1&type=pdf)
- Constantine P. Papageorgiou et al, 1998 A General Framework for Object Detection (https://www.researchgate.net/publication/3766402_General_framework_for_object_detection)
- Kinh Tieu & Paul Viola, 2000 Boosting Image Retrieval (http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.136.2419&rep=rep1&type=pdf)

Code templates:

- Face Detection (https://sds-platform-private.s3-us-east-2.amazonaws.com/uploads/P23-Module1-Face-Recognition.zip)

Homework Challenge – Build a Happiness Detector

- Homework Challenge Instructions (https://sds-platform-private.s3-us-east-2.amazonaws.com/uploads/P23-Homework-Challenge-Instructions.zip)
- Homework Challenge Solution (https://sds-platform-private.s3-us-east-2.amazonaws.com/uploads/P23-Homework-Challenge-Solution.zip)

Module 2: Object Detection With SSD

Additional reading:

- Wei Liu et al., 2015 SSD: Single Shot MultiBox Detector (https://arxiv.org/pdf/1512.02325.pdf)

Code Templates:

- Object Detection (Mac and Linux) (https://sds-platform-private.s3-us-east-2.amazonaws.com/uploads/P23-Code-for-Mac-and-Linux.zip)
- Object Detection (Windows) (https://sds-platform-private.s3-us-east-2.amazonaws.com/uploads/P23-Code-for-Windows.zip)

Training the SSD:

- Training the SSD (https://www.dropbox.com/s/gwi9fe3jtj3bx3t/Training_SSD.zip?dl=0)

Homework Challenge – Detect Epic Horses galloping in Monument Valley:

- Homework Challenge Instructions (https://sds-platform-private.s3-us-east-2.amazonaws.com/uploads/P23-Module2-Homework-Challenge-Instructions.zip)
- Homework Challenge Solution (https://sds-platform-private.s3-us-east-2.amazonaws.com/uploads/P23-Module2-Homework-Challenge-Detect-Epic-Horses-galloping-in-Monument-Valley.zip)

Module 3: Image Creation with GANs

Additional reading:

- Chanchana Sornsoontorn, 2017, How do GANs intuitively work? (https://hackernoon.com/how-do-gans-intuitively-work-2dda07f247a1)
- Ian Goodfellow et al., 2014, Generative Adversarial Nets (https://arxiv.org/pdf/1406.2661.pdf)
- Matthew D. Zeiler et al., 2011, Adaptive Deconvolutional Networks for Mid and High Level Feature Learning (http://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.227.7393&rep=rep1&type=pdf)
- Alec Radford et al., 2015, Unsupervised Representation Learning With Deep Convolutional Generative Adversarial Networks (https://arxiv.org/pdf/1511.06434.pdf)
- ARTIST Vs. PIX2PIX - Is This Humor Or Horror?! YouTube Video (https://www.youtube.com/watc

h?v=9cgFPttB_RQ) (/)

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Code Templates:

– GANs (https://sds-platform-private.s3-us-east-2.amazonaws.com/uploads/P23-Module3-GANs.zip)

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