**Meetup September 2019 - Jennifer Yoon**

* Coursera DL.AI transfer learning – a major part of modern usage pattern.

Class 3, Week 2, Lesson 7

<https://www.youtube.com/watch?v=yofjFQddwHE>

Class 4, Week 2, Lesson 4

(<https://www.youtube.com/watch?v=RYth6EbBUqM>)

* Coursera DL.AI data augmentation – another major part of modern use. (Can’t remember which video)
* Talk about fast.ai 2018 version lesson 1 - transfer learning.

Lesson 1 video (<http://course18.fast.ai/lessons/lesson1.html>)

Lesson 1 wiki (<https://forums.fast.ai/t/wiki-lesson-1/9398>)

* Top Sobel filter - Convolution demo

<http://setosa.io/ev/image-kernels/>

* Video – Otavio Good at Google Translate

<https://www.youtube.com/watch?v=Oqm9vsf_hvU>

* Fastai - Excel convolution demo
* Talk about fast.ai lesson 2 - data augmentation.

(<http://course18.fast.ai/lessons/lesson2.html>)

**Numpy Tutorial**

\* DLAI has short numpy tutorial

\* CS231n has longer, decent numpy tutorial

\* CS228 also has decent Python Standard Library tutorial.

\* VanderPlas book has best Numpy tutorial.

(link)

\* Has KNN example with 10 data points in 2D.

\* Shows how to use **argsort** and **fancy indexing**.

\* Useful for CS231n class KNN homework.

\* VanderPlas does NOT cover basic Python. Use other sources.

\* Python Crash Course book -- easy for basic Python.

(link)

Do several of the first chapter exercises.

Follow along on the book, cover the code with paper, then type them into you Jupyter notebook. DO NOT copy and paste. You will notice a lot of syntax errors. You won't learn the syntax errors unless you manually type the code yourself.

See later edited version .md file for updated links.