Python for Data Science Aug 2019

Saturday, August 3, 2019 07:54

Duration: 12 weeks / 4 hours per week

#	Schedule	Topic	Book	Website	Demo	Implementation
1	Aug 03	- Philosophy - What to expect / demand - Course outline & schedule - GIT - Jupyter Notebooks - Python:	Pro Git, Scott Chacon and Ben Straub (https://git-scm.com/book/en/v2)	Python 3 Documentation	Face recognition	
2	Aug 04	- Python:	The Art of Computer Programming, D. E. Knuth	What the f*ck Python!	Matrix-vector multiplication (animated)	
3,4	Aug 11	- Jupyter, iPython, PyCharm, Python • Slices as views • Ternary expressions • List comprehensions • Ranges • Random numbers - Applications • Fibonacci • Sieve - Notebooks:	The Visual Display of Quantitative Information, Edward Tufte	Top500 Supercomputers	Moonshift	- Fibonacci - Sieve of Eratosthenes

		 ranges Ternary expr and comprehensions Jupyter notebook Documentation LaTeX Homework: Five ways to Fibonacci!! Runtime measurement & optimization 				
5,6	Aug 18	- Python	Programming Pearls, Jon Bentley	Latency Numbers Every Programmer should know	sig.c	- Bisection Method - Taylor Series
7,8	Aug 25	- Ketchup! • Homework +/- • Git • Generators • Logging(?) - π ^e v. e ^π - Other ways of running • Jupyter • Spyder • Editor + Execute • iPython • PyCharm	Factfulness, Hans Rosling, Ola Rosling and Anna Rosling Ronnlund Also see: <u>The Best Stats You've Ever</u> <u>Seen</u>	https://learngitbranching.js.org	Sig.c	- Packaging!