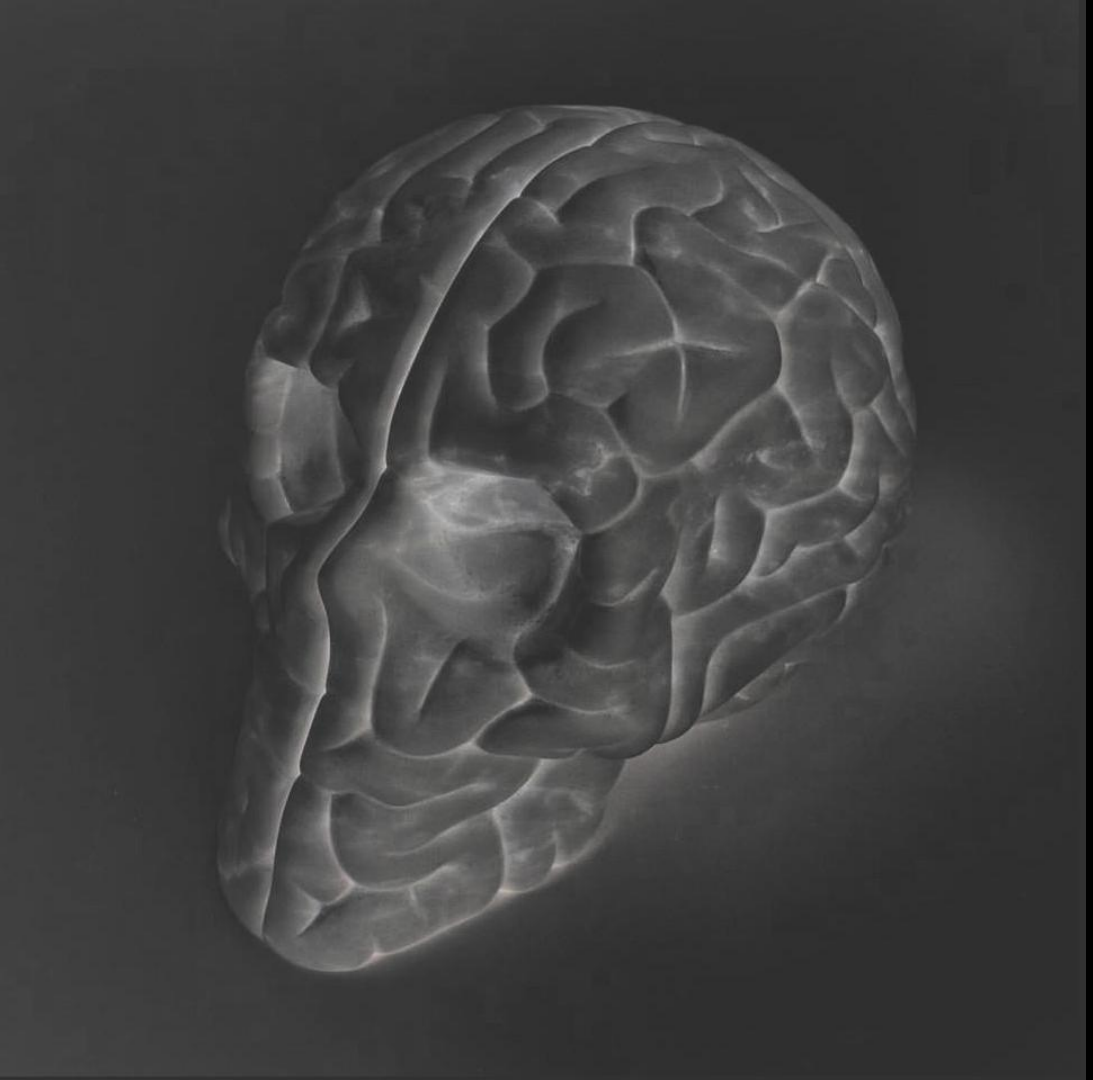
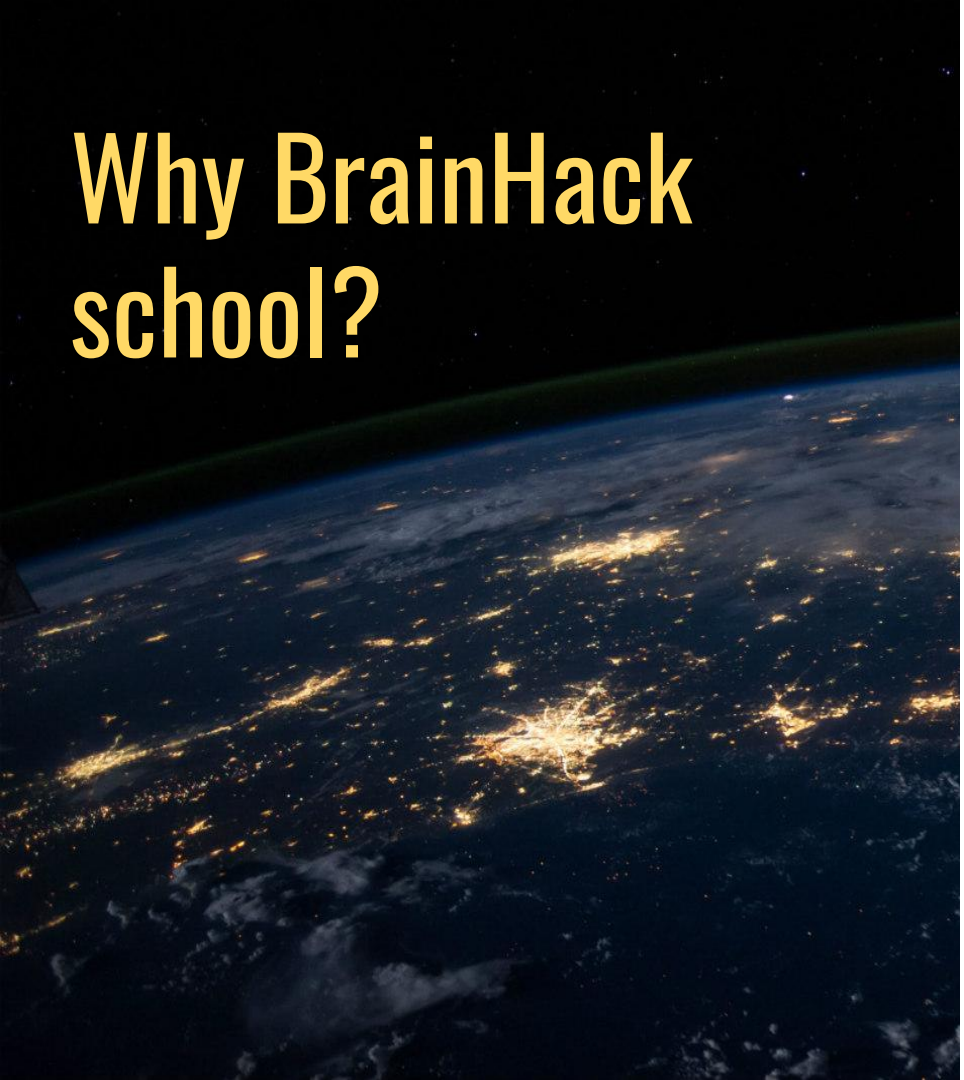
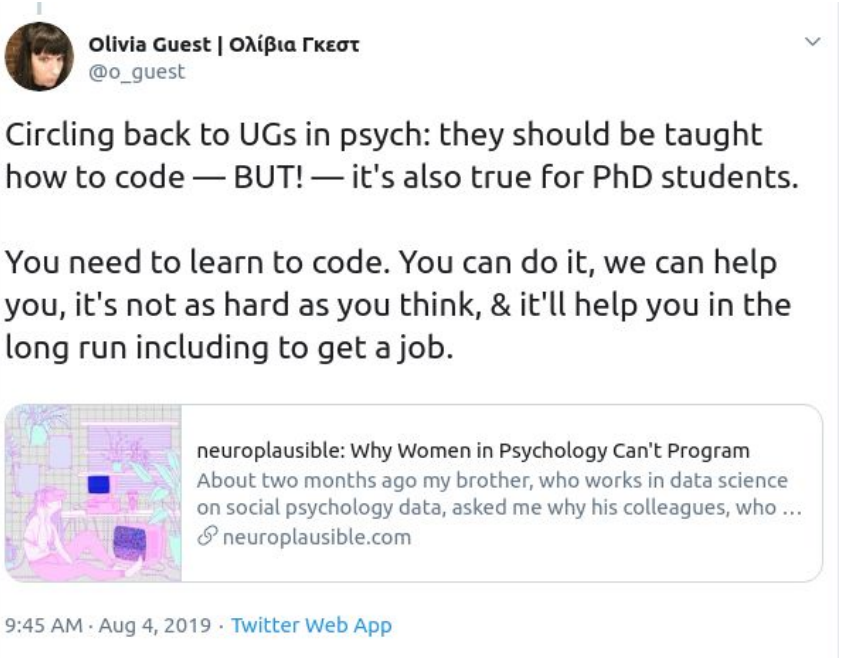


Welcome to BrainHack School MtI 2019!!

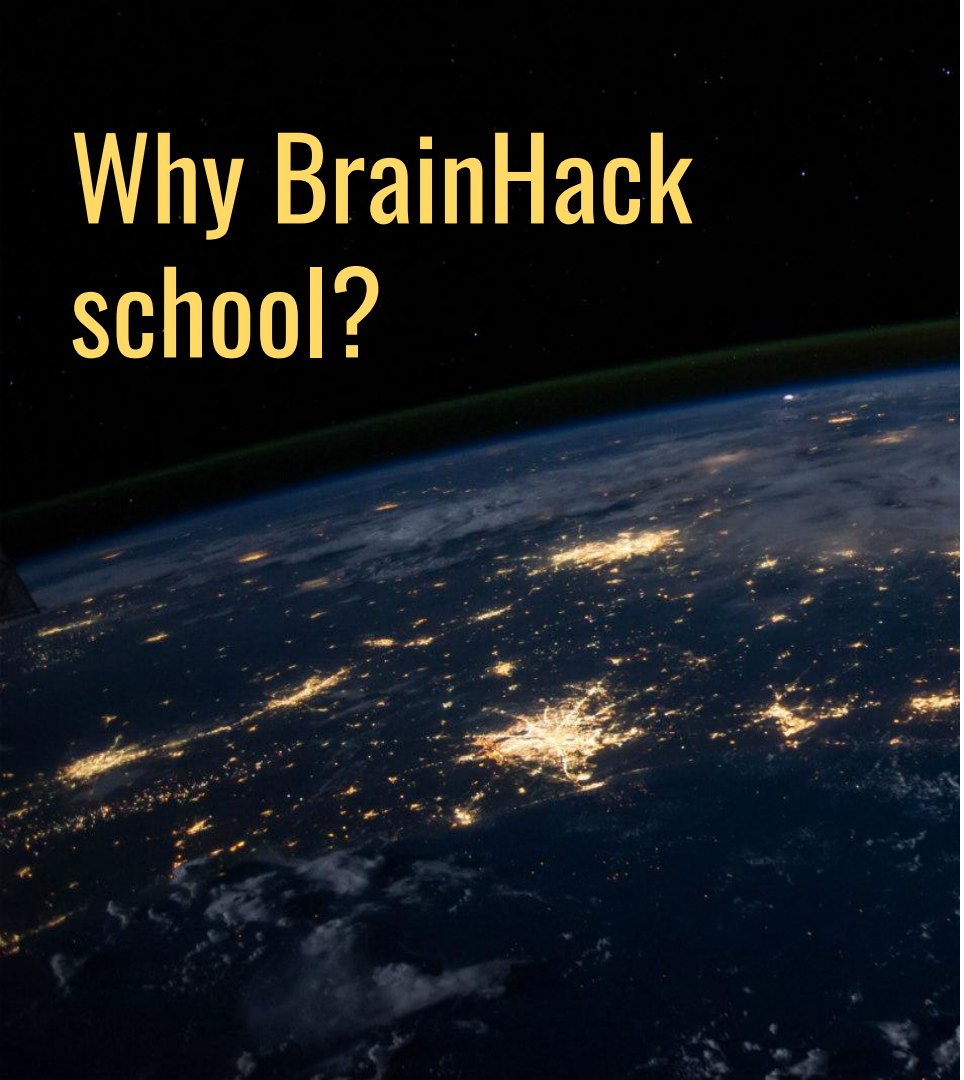
August 5th-August 30th, 2019

Why BrainHack school?





Why BrainHack school?



Jake VanderPlas
@jakevdp

Following

My advice on learning Python:

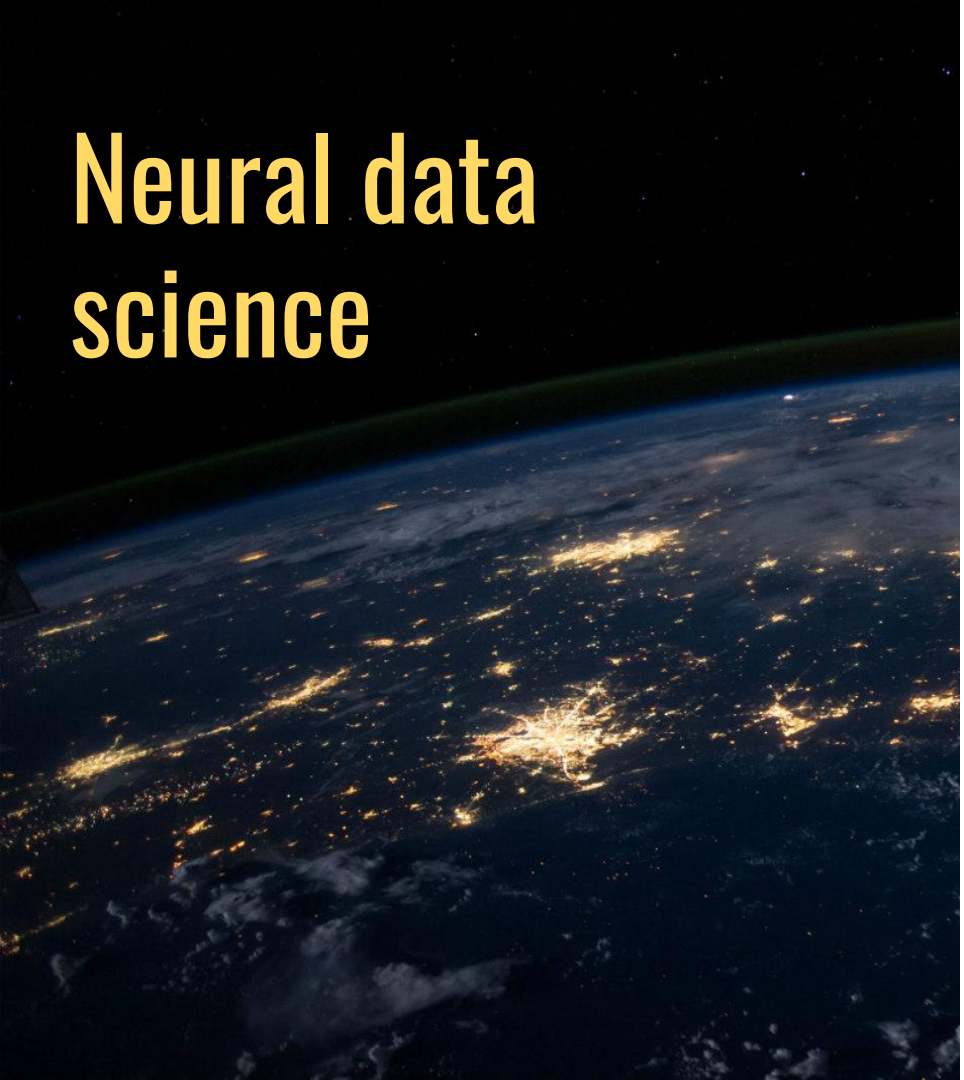
Don't set out to "learn Python". Choose a problem you're interested in and learn to solve it with Python.

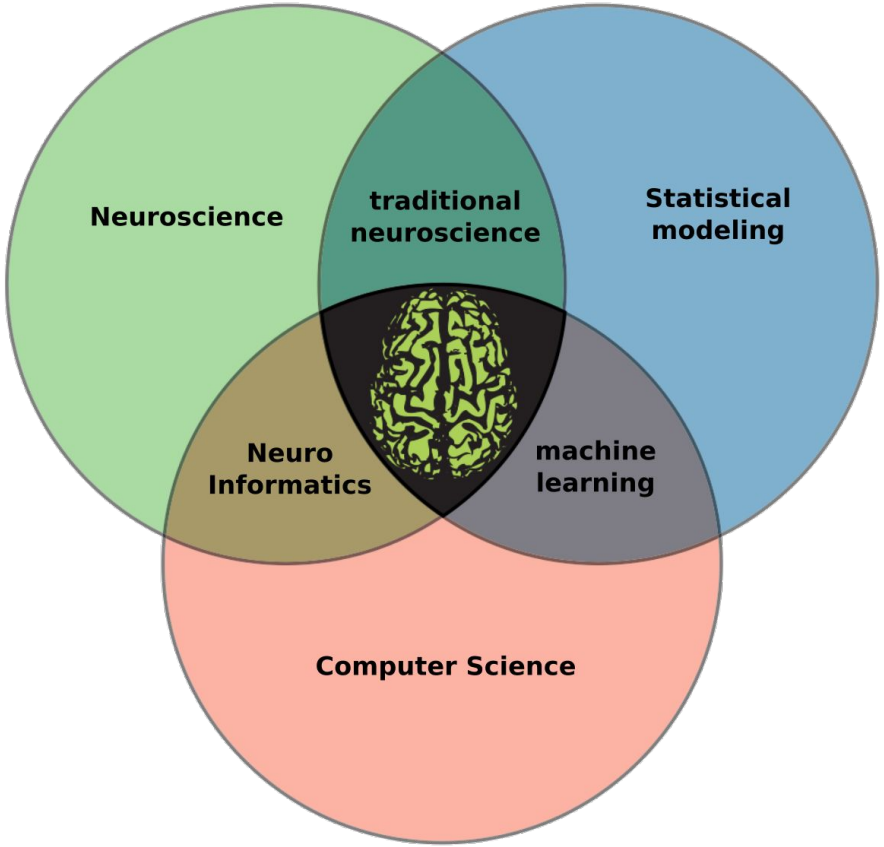
8:24 AM - 10 Sep 2017

2,932 Retweets **8,810** Likes

201 2.9K 8.8K

Neural data science

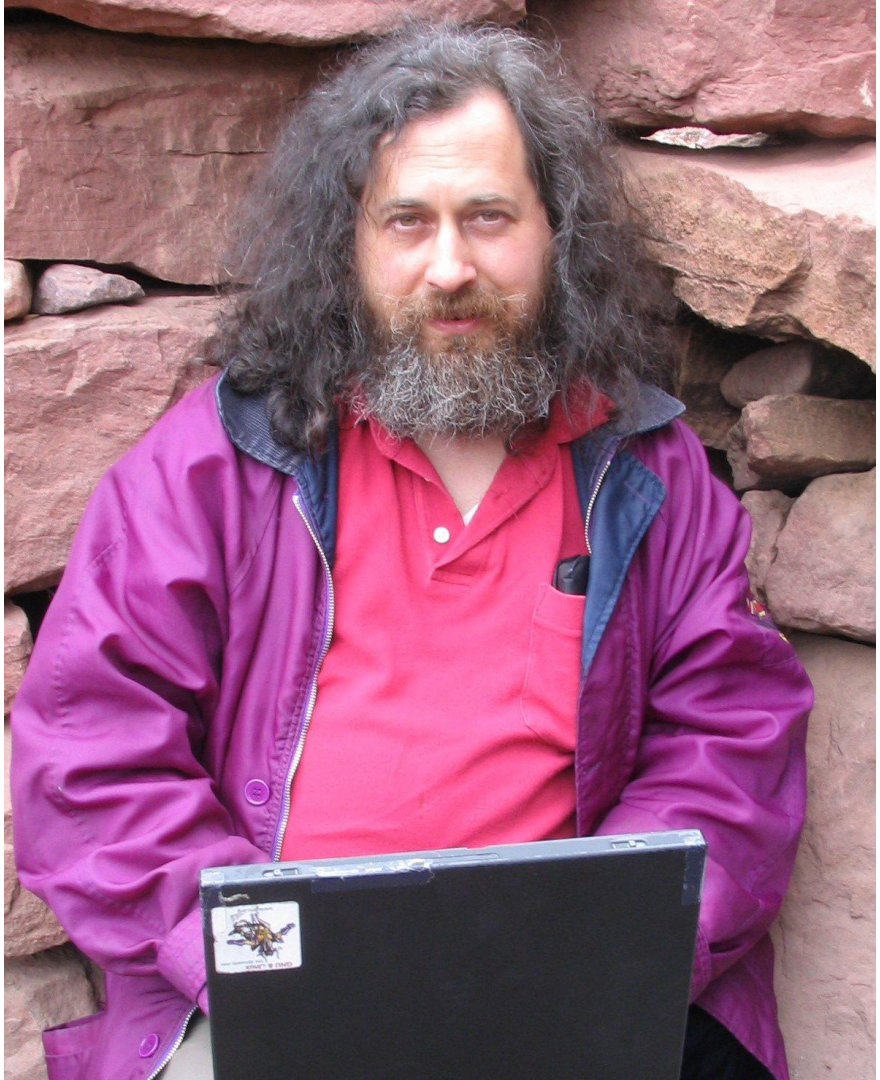




“Being a hacker means appreciating playful cleverness”

“Sharing is good and, with digital technology, sharing is easy”

Richard Stallman



OPEN DATA

ABIDE
Autism Brain Imaging Data Exchange

ADHD 200

CORR
CONSORTIUM FOR RELIABILITY AND REPRODUCIBILITY

OPEN CODE

jupyter

docker

binder

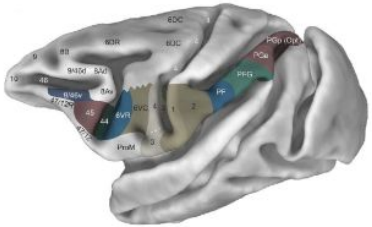
HIGH-PERFORMANCE COMPUTING AND PIPELINES

compute • calcul CANADA

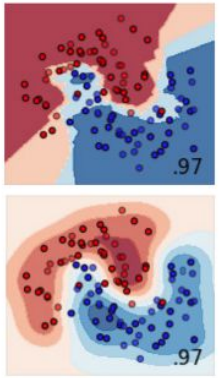
aws

cbrain

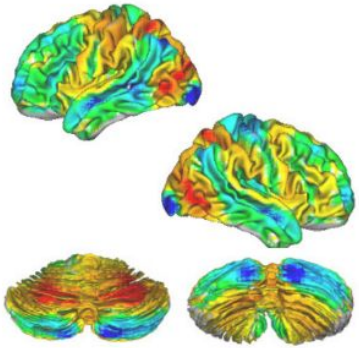
DATA VISUALIZATION



MACHINE LEARNING



NEUROIMAGING

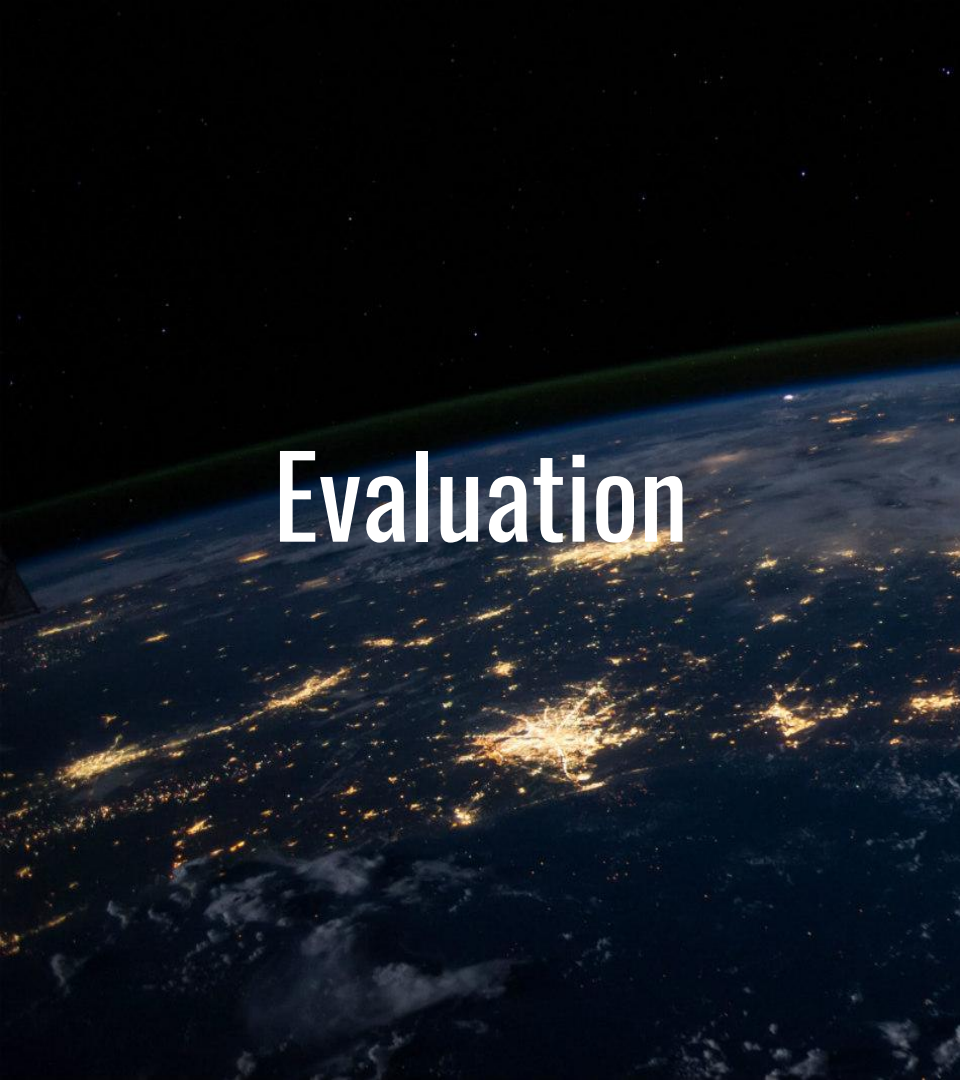


Week 1: A foundational stack for neural data science

Week 2: Project Definition

Week 3: Project Implementation

Week 4: Project Wrap-up



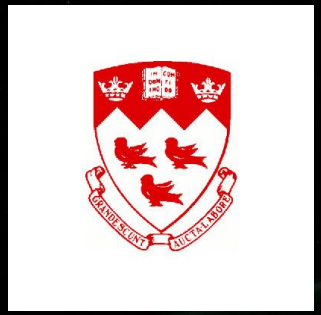
Evaluation

- Week 1: coding quizz (10%)
- Week 2: project description (10%)
- Week 3: video summary (10%)
- Week 4: Oral presentation (28%)
- September 6th: project deliverables are due (30%)
- Overall participation (12%, 3% per week)

Connect...

	https://tinyurl.com/slack-brainhackschool2019
	#brainhackschool
	https://github.com/mtl-brainhack-school-2019

Have fun! Help us create an open and enthusiastic space!



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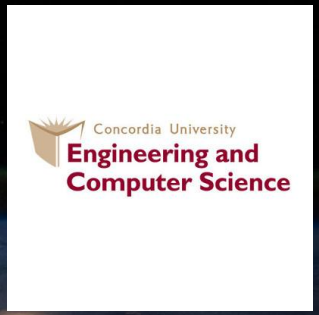
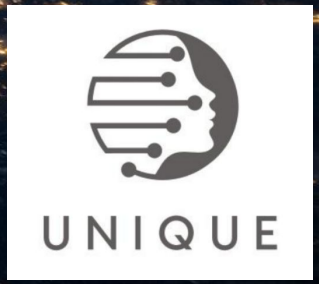
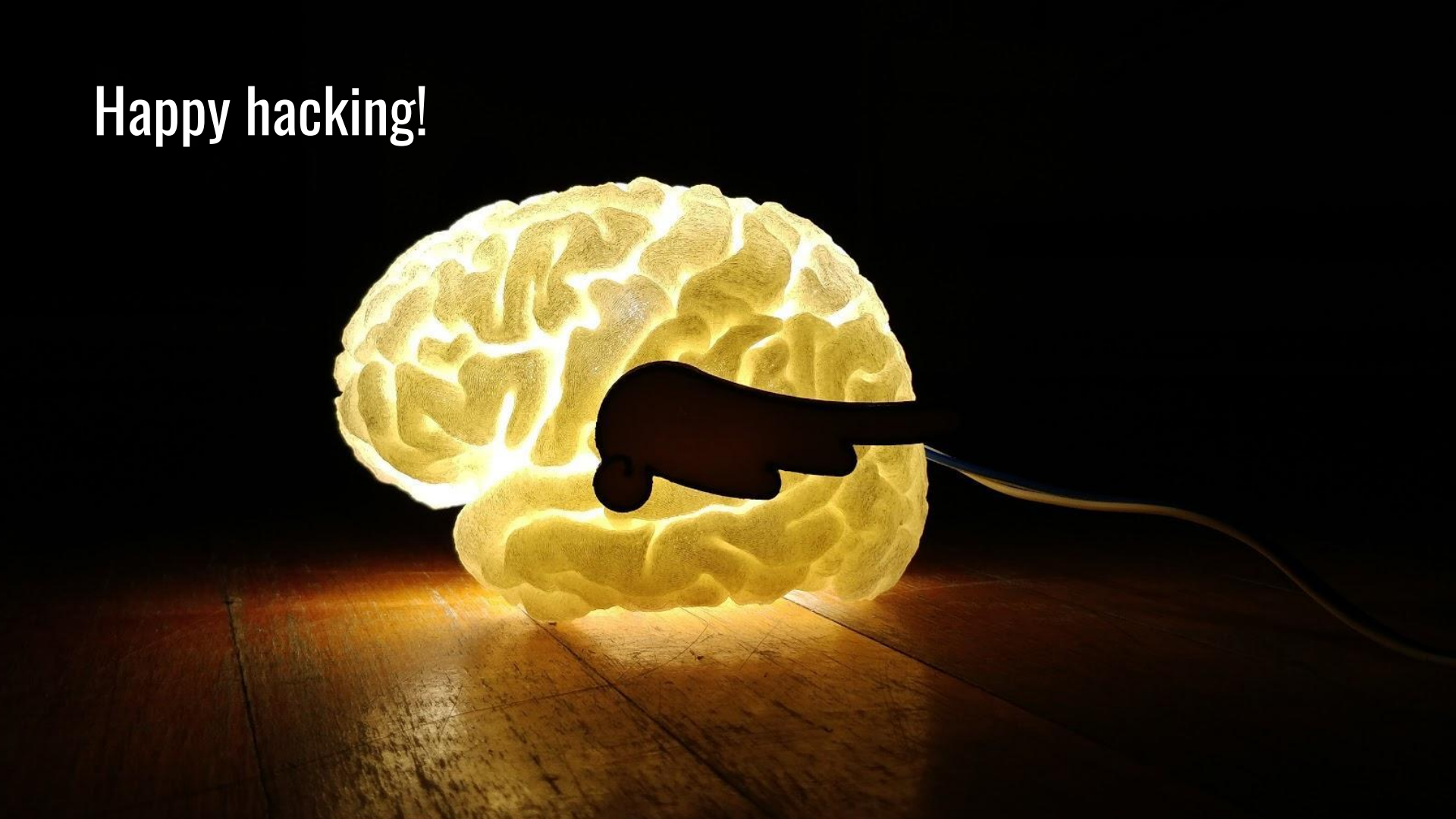
POLYTECHNIQUE
MONTRÉAL
LE GÉNIE
EN PREMIÈRE CLASSE


Concordia University
Engineering and
Computer Science

neuro
Institut et hôpital neurologiques de Montréal
Montreal Neurological Institute and Hospital

Centre de recherche
iugm
Institut universitaire
de gériatrie de Montréal

UNF
Unité de
neuroimagerie
fonctionnelle


UNIQUE

Happy hacking!