GENERAL ASSEMBLY

DATA SCIENCE
11 WEEK PART TIME COURSE

Week 1 – Course Overview & Getting Started
Tuesday 23 May 2017

AGENDA

1. Meet The Instructors
2. Meet Your Classmates
3. Instructor Philosophy
4. Content Philosophy
5. How To Succeed
6. Typical Class
7. Logistics
8. Course Project
9. Setting Up

IAN HANSEL - INSTRUCTOR

Data science contractor, previously at Caltex and working in the areas of retail analytics, fraud detection, insurance and web analytics. Provided analytics services for businesses ranging from startups to ASX100 listed companies

http://www.flickr.com/photos/michaelhooper/7876600000/

BYRON ALLEN- TA

Data Scientist who graduated from General Assembly's Data Science Immersive course in November 2016. Previously, had an agency career in marketing communications and social media for B2B and B2C technology companies.

ABOUT YOU ?

- Who are you?
- Why are you interested in Data Science?
- Have you done anything with Python (or R)?
- What is your exposure to Data Science so far?
- Do you have any applications in mind?

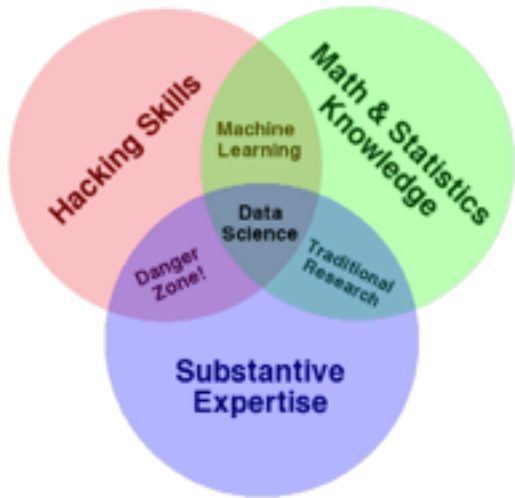
http://www.flickr.com/photos/davefayram/3803310706

- Embrace Diversity
- Seek an Optimal Pace
- Communicate Early and Often
- Success is not a grade, it’s an application

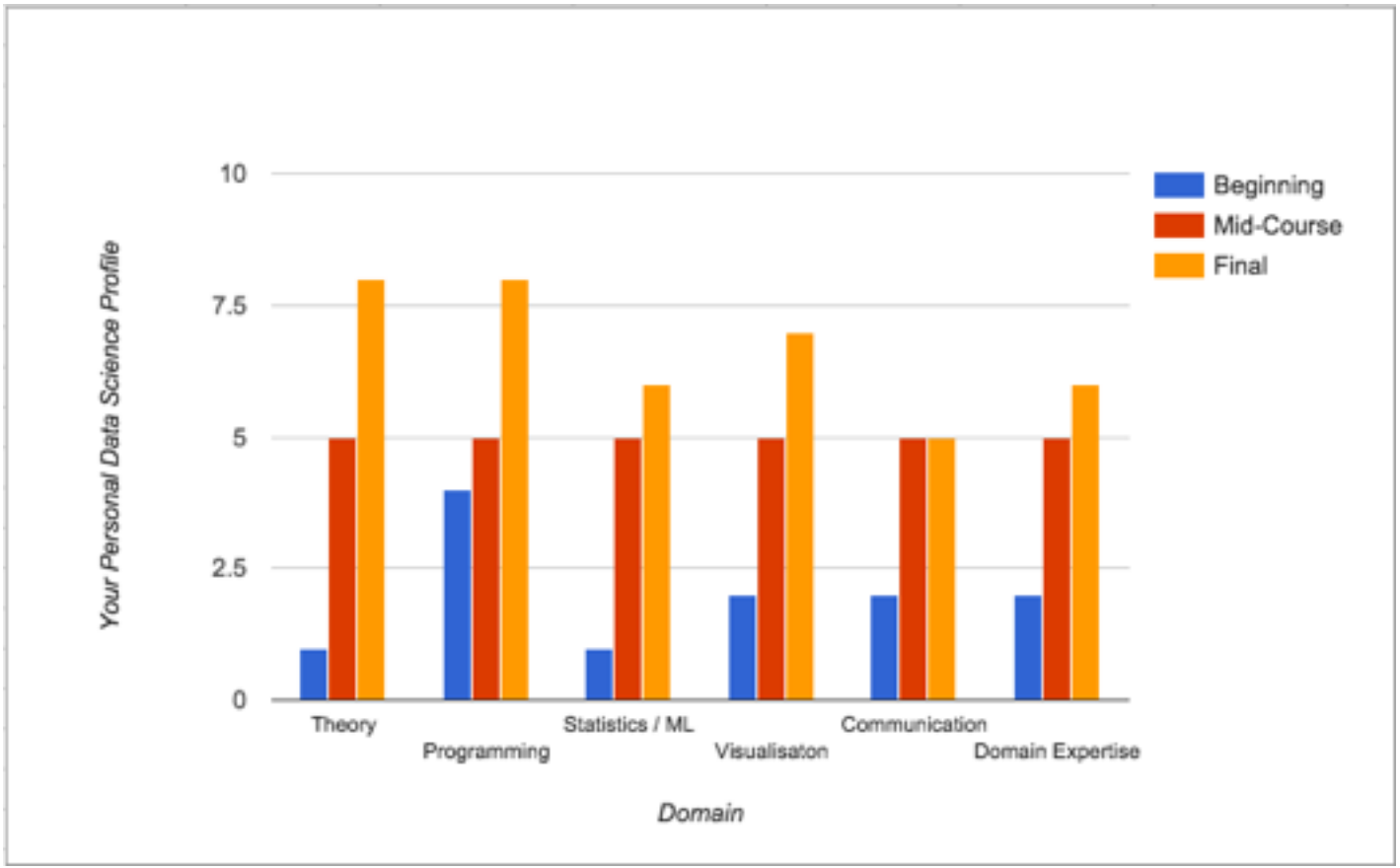
- Application-based Approach
- Understand Key Principles
- Balance Depth and Breadth
- Course Project

- Multidisciplinary Investigations
- Models and Methods for Data
- Computing with Data
- Pedagogy
- Tool Evaluation
- Theory

Data Science: An Action Plan for Expanding the Technical Areas of the Field of Statistics
William S. Cleveland



Drew Conway's
Data Science Venn Diagram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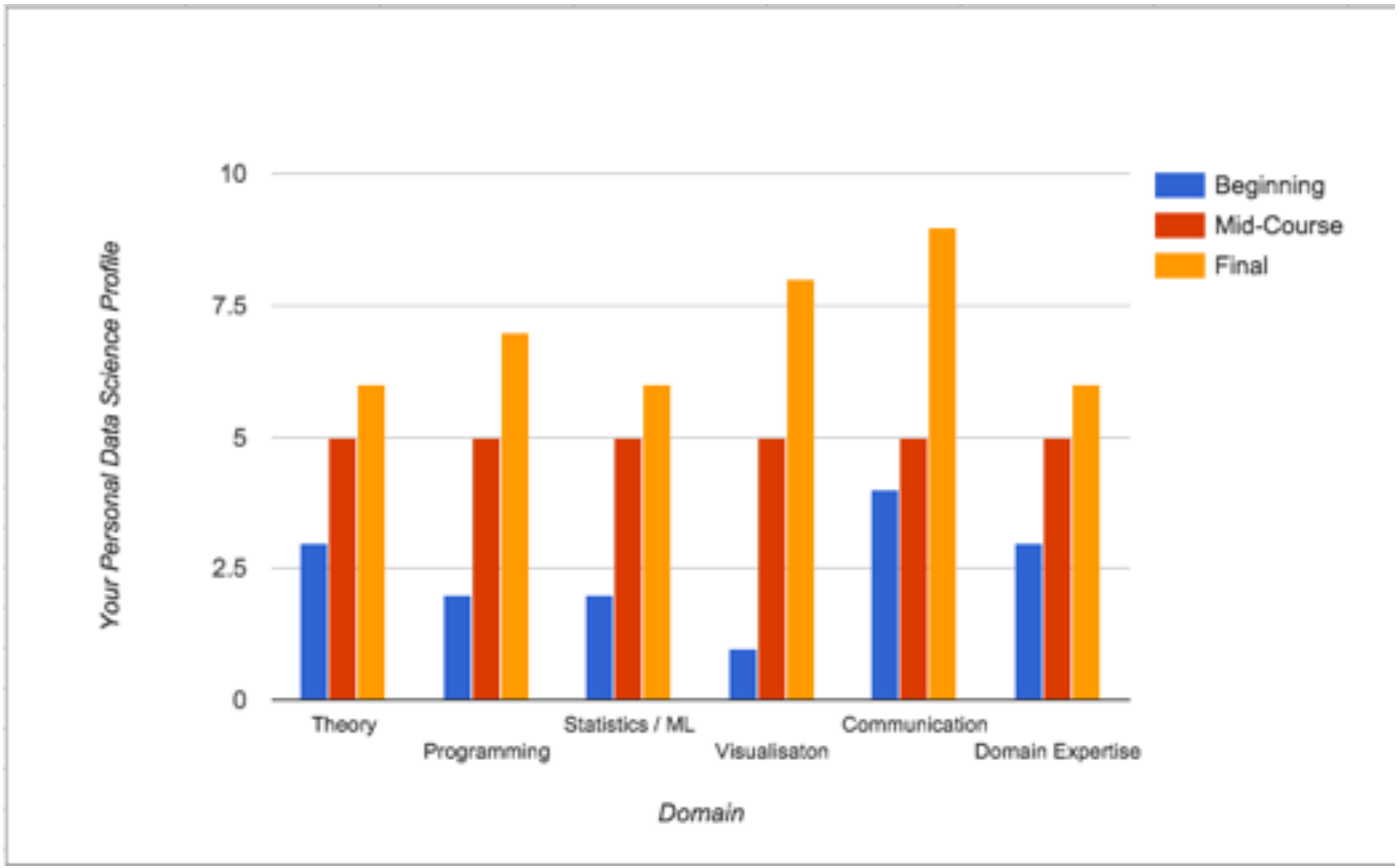
Your Personal Data Science Profile
Beginning
Mid-Course
Final
Theory
Programming
Statistics / ML
Visualisaton
Communication
Domain Expertise
Domain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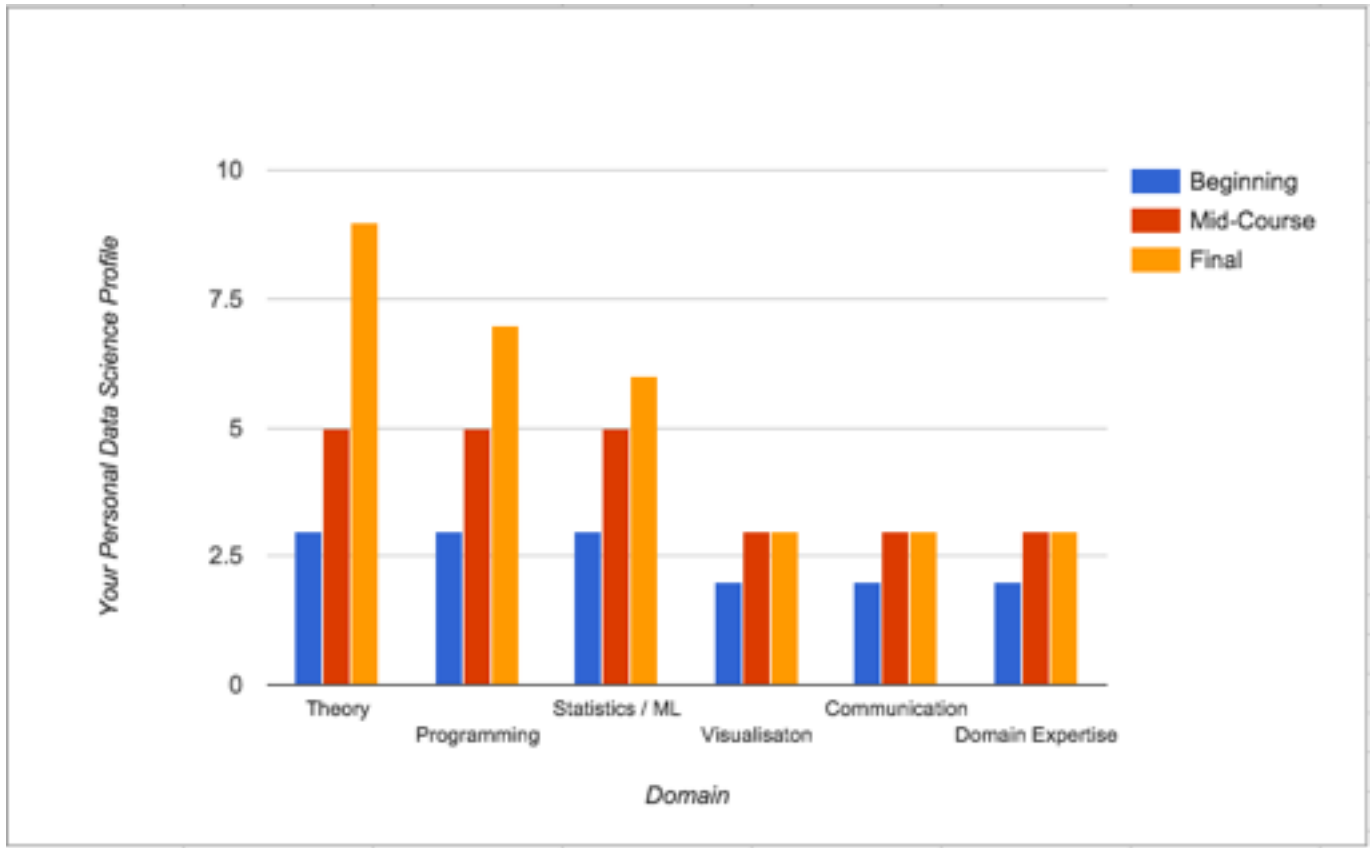
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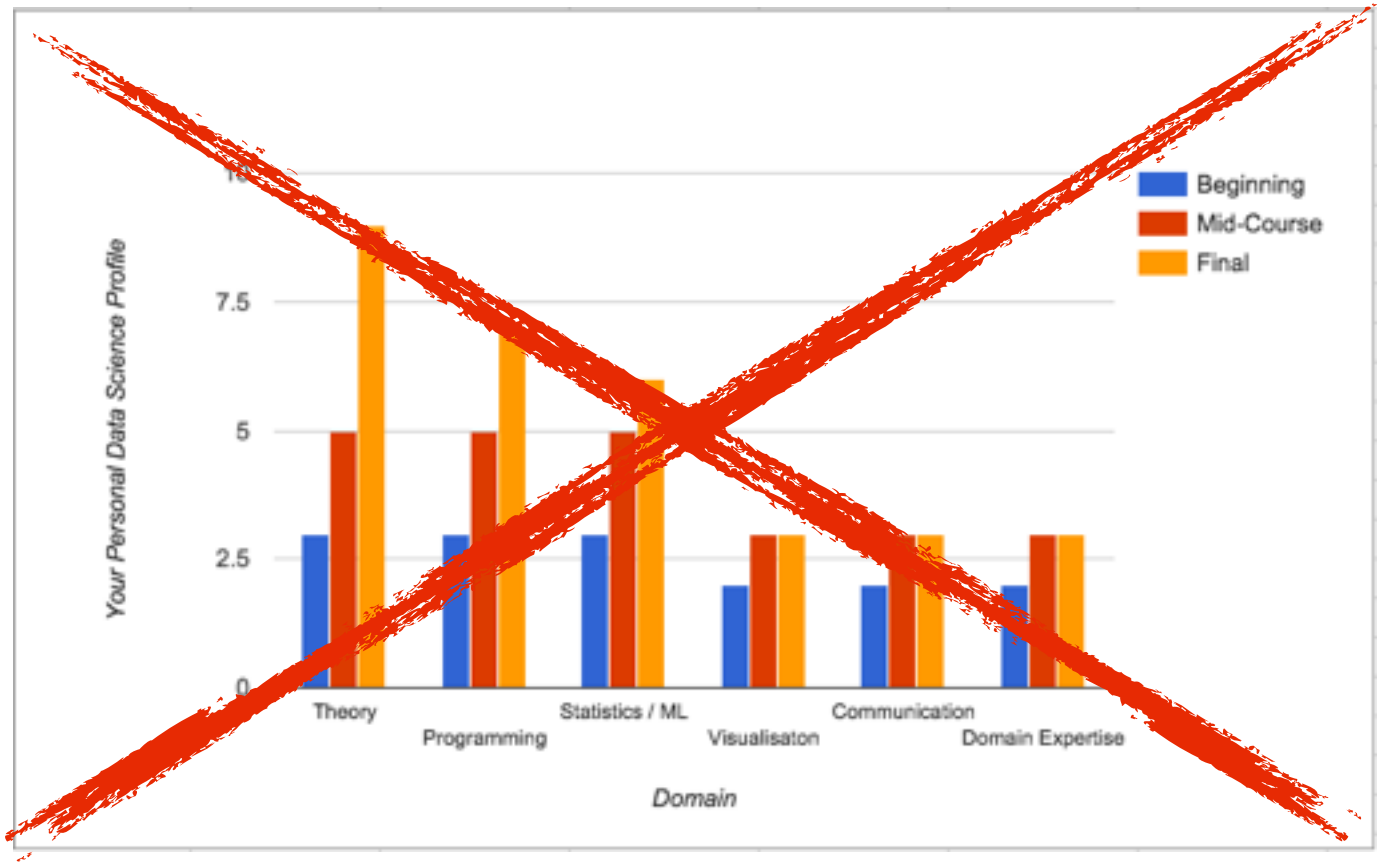
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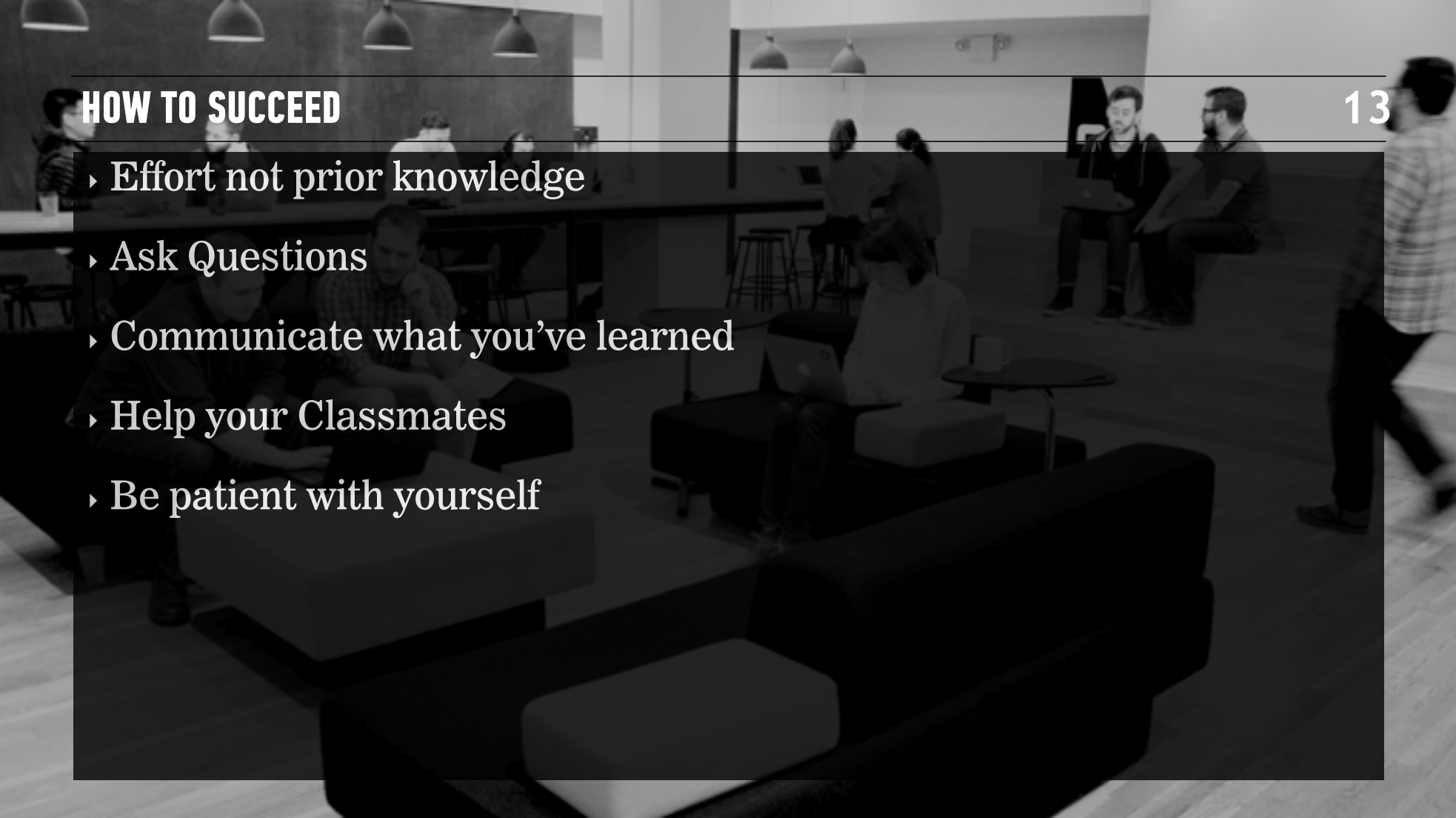

HOW TO SUCCEED

- Effort not prior knowledge
- Ask Questions
- Communicate what you've learned
- Help your Classmates
- Be patient with yourself

- Guest Speaker (sometimes)
- Overview of lesson objectives
- Motivating Problem
- Theory
- Lab
  - Code Walk Through
  - Code Exercises
- Class Discussion
  - Homework
  - Readings

- Food
- Dress Code
- Start and end on time
- Missing Class
- Slack Instead of Email
- Office Hours
- Github for course content and homework




The final project should represent significant original work applying data science techniques to an interesting problem. Final projects are individual attainments, but you should be talking frequently with your instructors and classmates about them.

Address a data-related problem in your professional field or a field you're interested in. Pick a subject that you're passionate about; if you're strongly interested in the subject matter it'll be more fun for you and you'll produce a better project!

Look at past projects on the github account for some ideas.

DISCUSSION TIME

Prework

- **Software installations:**
  - **Install Anaconda with Python 3.6 onto your computer.**
  - **Download and install a Github client and sign up for a Github account.**
  - **Send your Github username to meggan@ga.co.**
  - **Introduce yourself on the DAT8 group on the Part-Time Courses Slack channel and put a picture of yourself in your profile**

DISCUSSION TIME

Prework

- Readings and Courses
  - Read any 2 chapters of the Data Science Handbook
  - Read the first 2 chapters of Introduction to Statistical Learning
  - Complete the Intro to Python for Data Science course on DataCamp
  - Answer all the questions on Data Science in your Student Survey
  - Check out the optional pre-readings to see if you want to complete any of this before class

DISCUSSION TIME

Prework

- Optional
  - Python for Data Analysis: Read chapters 1, 2 and 5. http://shop.oreilly.com/product/0636920023784.do
  - Command Line Crash Course: http://cli.learncodethehardway.org/book/

DISCUSSION TIME

Github Repository for the course:

https://github.com/DAT8SYD/DAT8SYD

Data Science 8 S...
ihansel

All Threads

CHANNELS (4)
bootcamp
general
pre-work
random

DIRECT MESSAGES
slackbot
ihansel (you)
alasdair
alasdair, byron
byron
cfrandall2
gpidc-dssyd17
sashajovanovic
seanryan
steffifernando
stella.steffi

+ Invite people

#general
25 | 0 | Company-wide announcements and work-based matters

Search

May 19th

mikaela 12:57 PM
hey @channel! i'm mikaela - i'm the course producer for your course and also a fellow student (oooooh, ahhhh)! I just wanted to reiterate what both ian and alasdair said above ^^^ the pre-work is super important to making sure you get the most out of the course, and i can attest to the fact that it's quite fun too! set aside some time this weekend to do it if you haven't already, and looking forward to class on tuesday!
3

May 20th

gpidc-dssyd17 9:04 AM
joined #general. Also, @claire joined, @darren joined.

Yesterday

mikaela 1:33 PM
one day to go!

mikaela 1:41 PM
excited
Posted using /giphy (743kB)

3

nickmons 10:54 PM
joined #general

Message #general