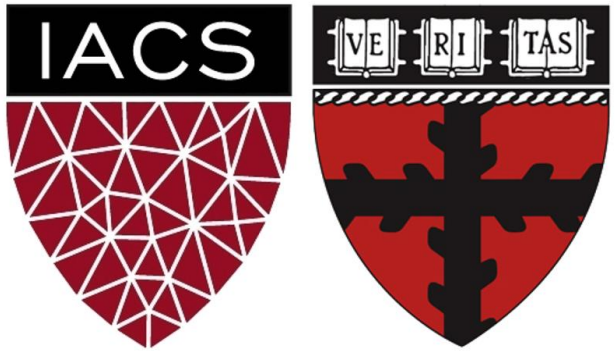
Lecture #1: Introduction

AC295

Advanced Practical Data Science

Pavlos Protopapas



Outline

1 : Why you should take this class and (why not)

2: Who

3: Course Structure and Activities

4: Expectations

5: Workload

6: Logistics

7: Grades

1 : Why you should take this class and (why not)

Learn how to:

> put your model in production

> integrate and orchestrate applications

> deploy increasing amount of data

> take advantage of available models

> evaluate and debug model using visualization

> *Syllabus* <

2: Who

Scientific Director IACS

...

2: Who

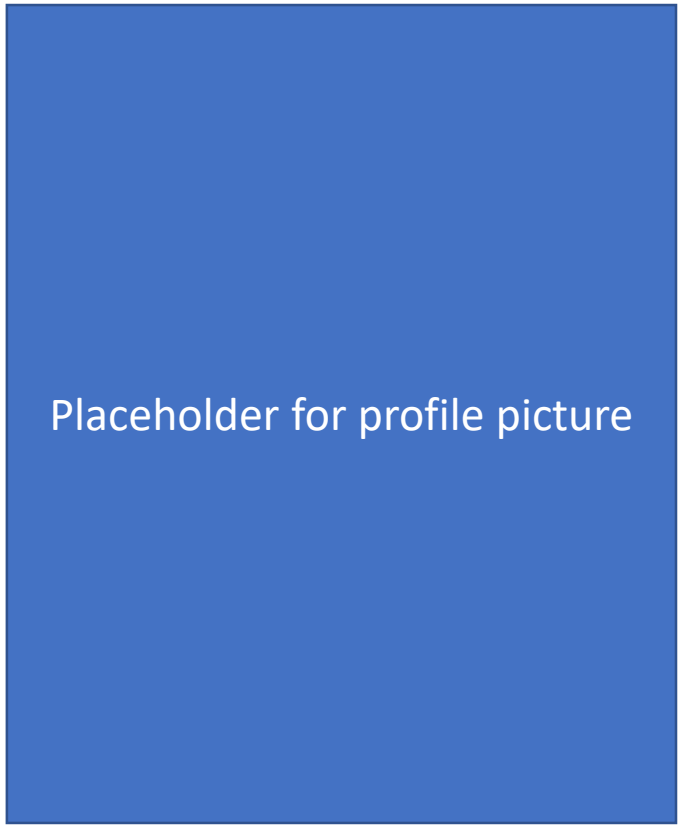
Michael

2: Who

Andrea

2: Who

Giulia



3: Course Structure and Activities

> **Modules:** 1. Deploy data science (integration + scalability)

2. Transfer learning and distillation

3. Visualization as investigative tool

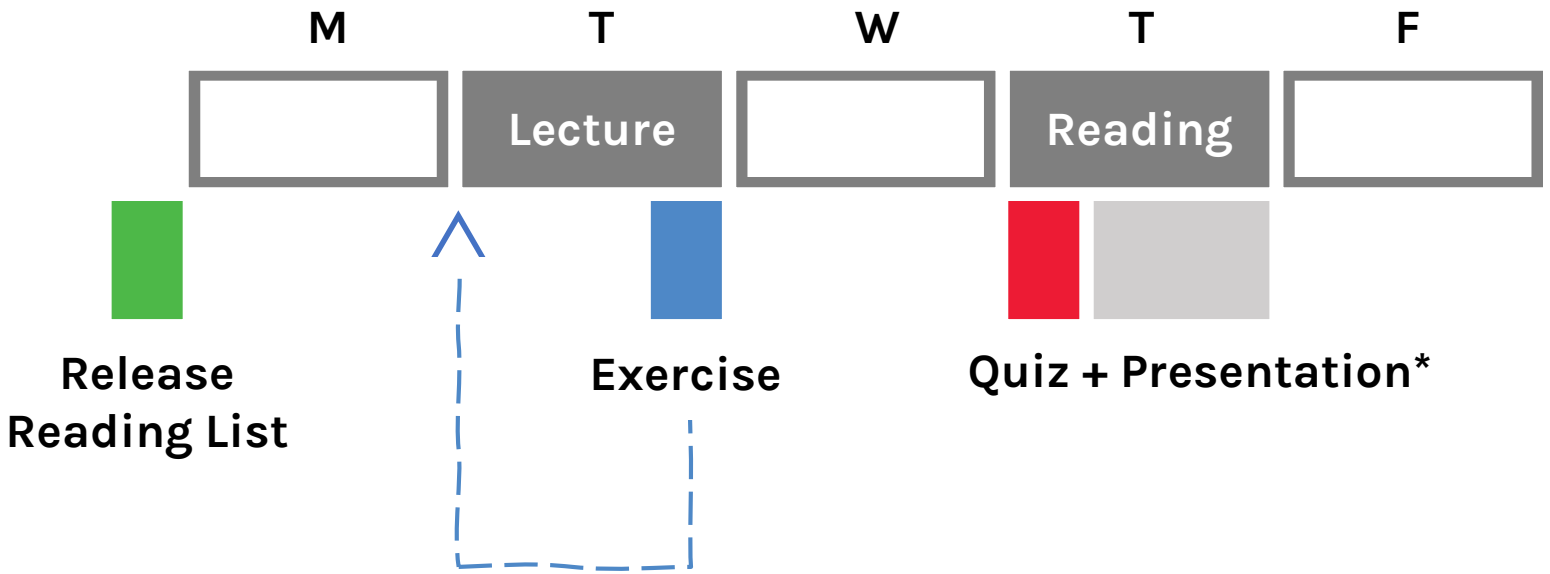
> **Activities:** lectures, reading discussions, practicums, projects

> **Lectures:** Tuesday and Thursday 4:30-5:45 pm in Cruft 309

> *Calendar* <

3: Course Structure and Activities

> Regular week schedule <



4: Expectations

> How to read class material (scientific paper)

> How to present

> Exercise?

> **TODO** add links to guidelines

5: Workload

Regular Week

3 hours in class
3 hours reading
2 hours exercise
2 hours presentation*

~ 10 hours/week

* 1 presentation per module per group (3 total)

Practicum and Project Week

~ 15 hours/week**

* 3 practicums and 1 final project (2 weeks long)

6: Logistics

> Fill up forms <

Make group *

Sign-up presentation**

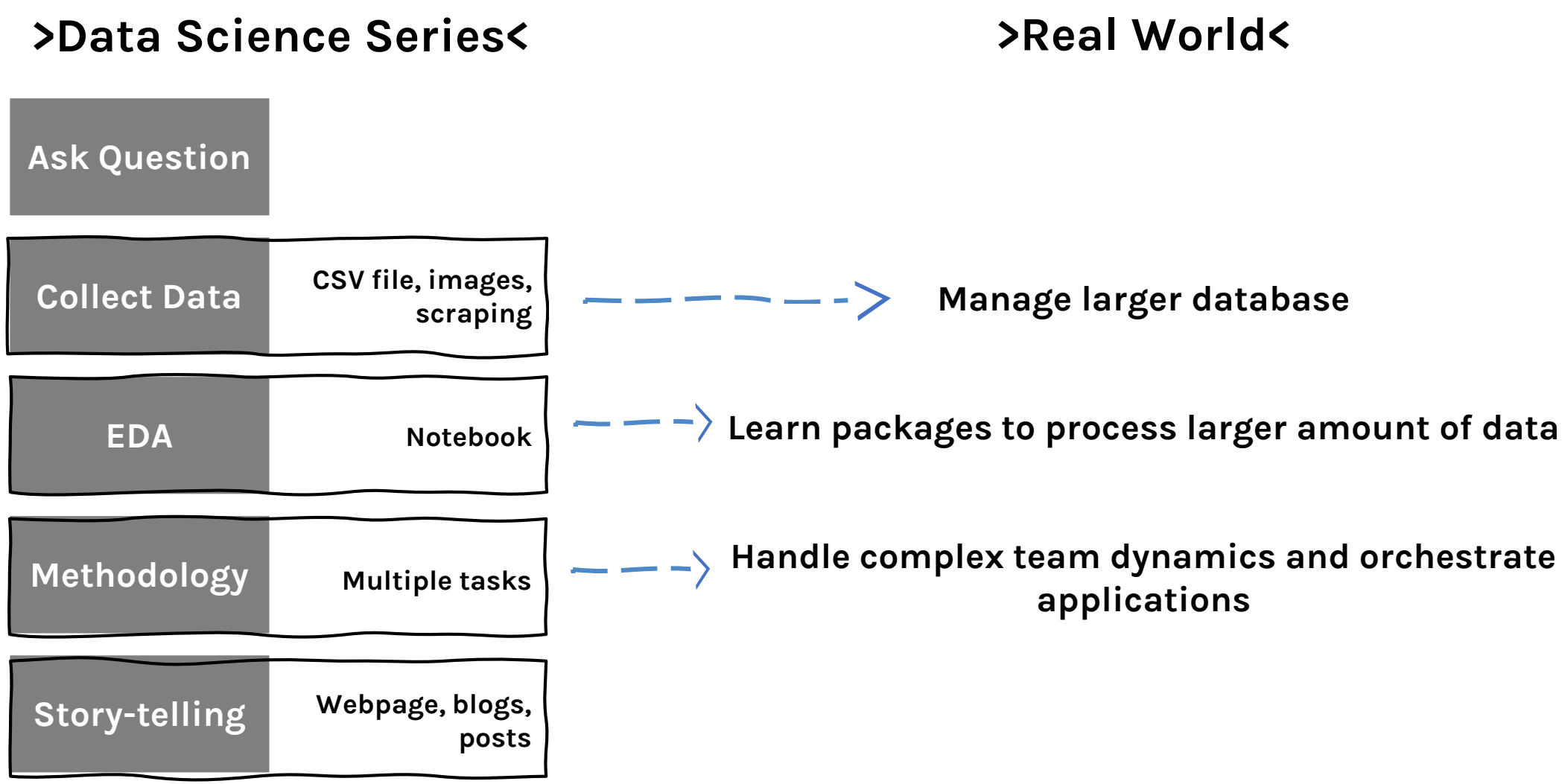
* Fill group components in each row

** Each group should pick one slot in each module

7: Grades

Assignment	Final Grade Weight
Quizzes	9%
Exercises	9%
Presentations	15%
Practicums	45%
Projects	20%
Participation	2%
Total	**100%**

UNK: from Data Science Series to Real World

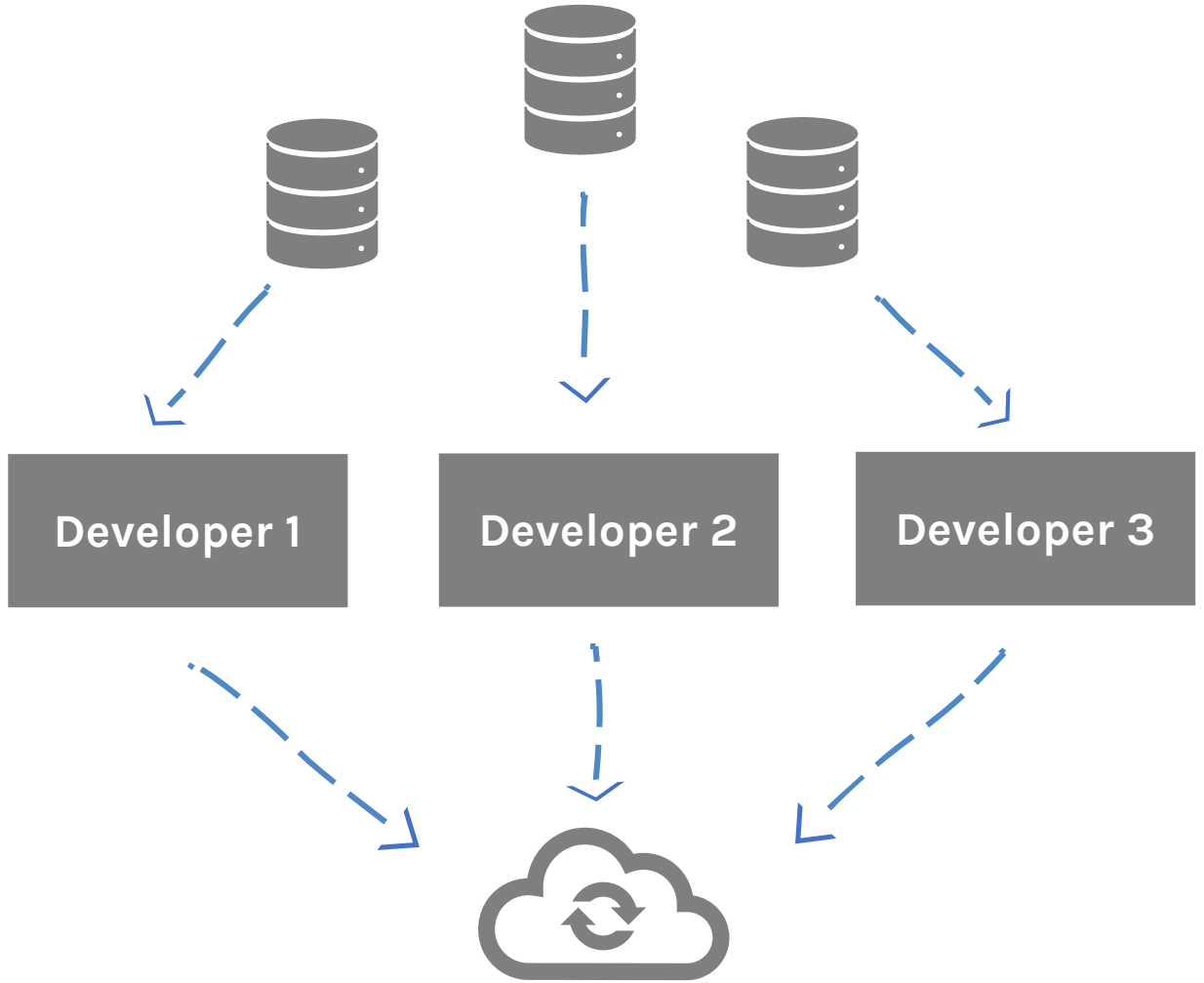


UNK: Real World Example

Fragmented database

Multitude requirements and applications

Recombine and deploy



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