

DATA 311: Fundamentals of Data Science

Lecture 1

Introduction, Logistics,
What is Data Science? What is Data?

Today

Logistics

- Course webpage/syllabus
- Assessment
- Policies
- Books
- Inclusive learning environment
- Feedback

Introduction

- About me
- About you (survey due tonight)
- What is data?
- What is data science?
- Course overview

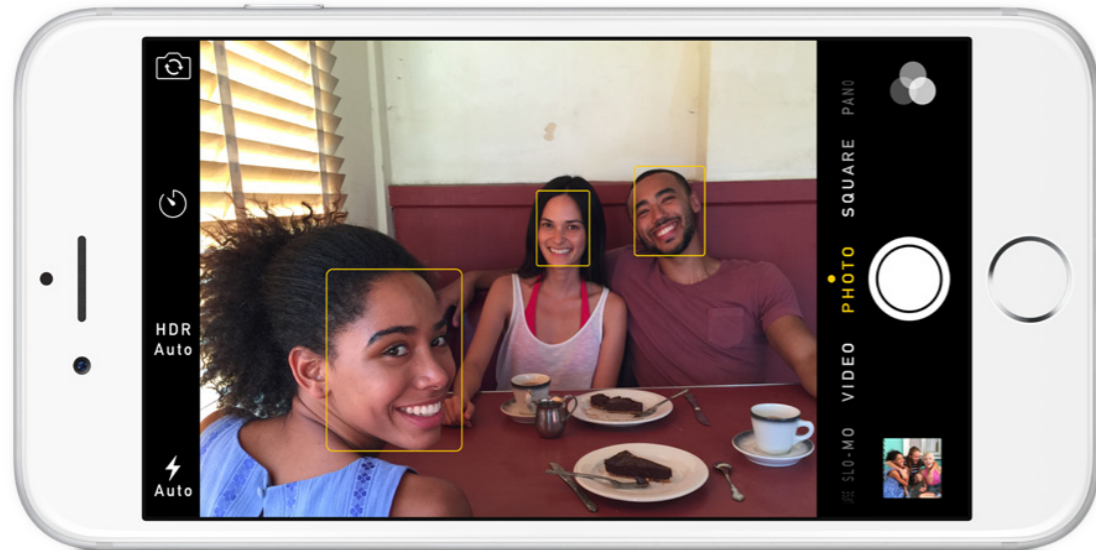
About Me:

Scott Wehrwein

(call me this!)



Computer Vision: Familiar Examples



In-Camera Face Detection



Autonomous Driving



Text-Guided Image Generation

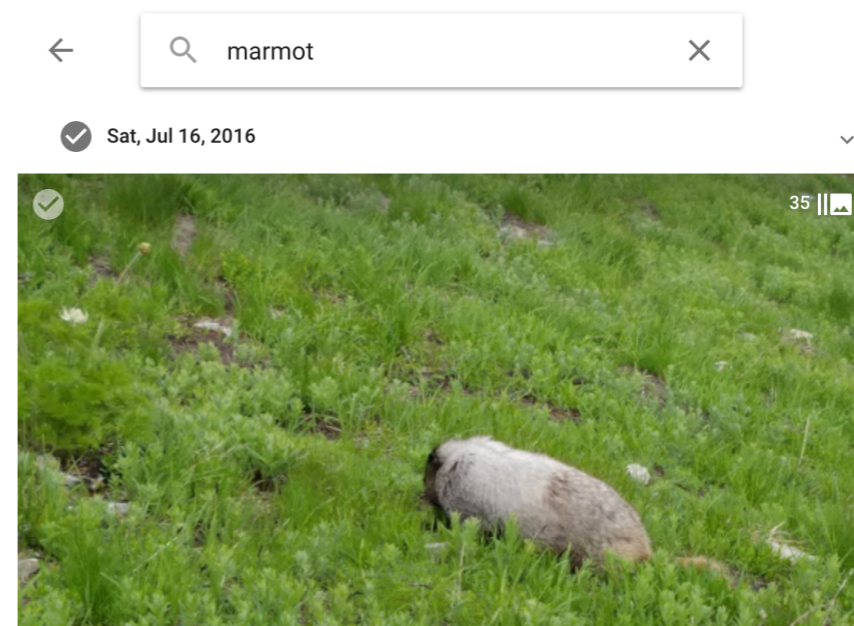


Image Search



Mad River Valley, Vermont 5.3 mi W

58 °F 65 °F
48 °F

Feels like: 93.0 °F

Cloudy

35% 1 mph

October 1 1:07 AM AccuWeather

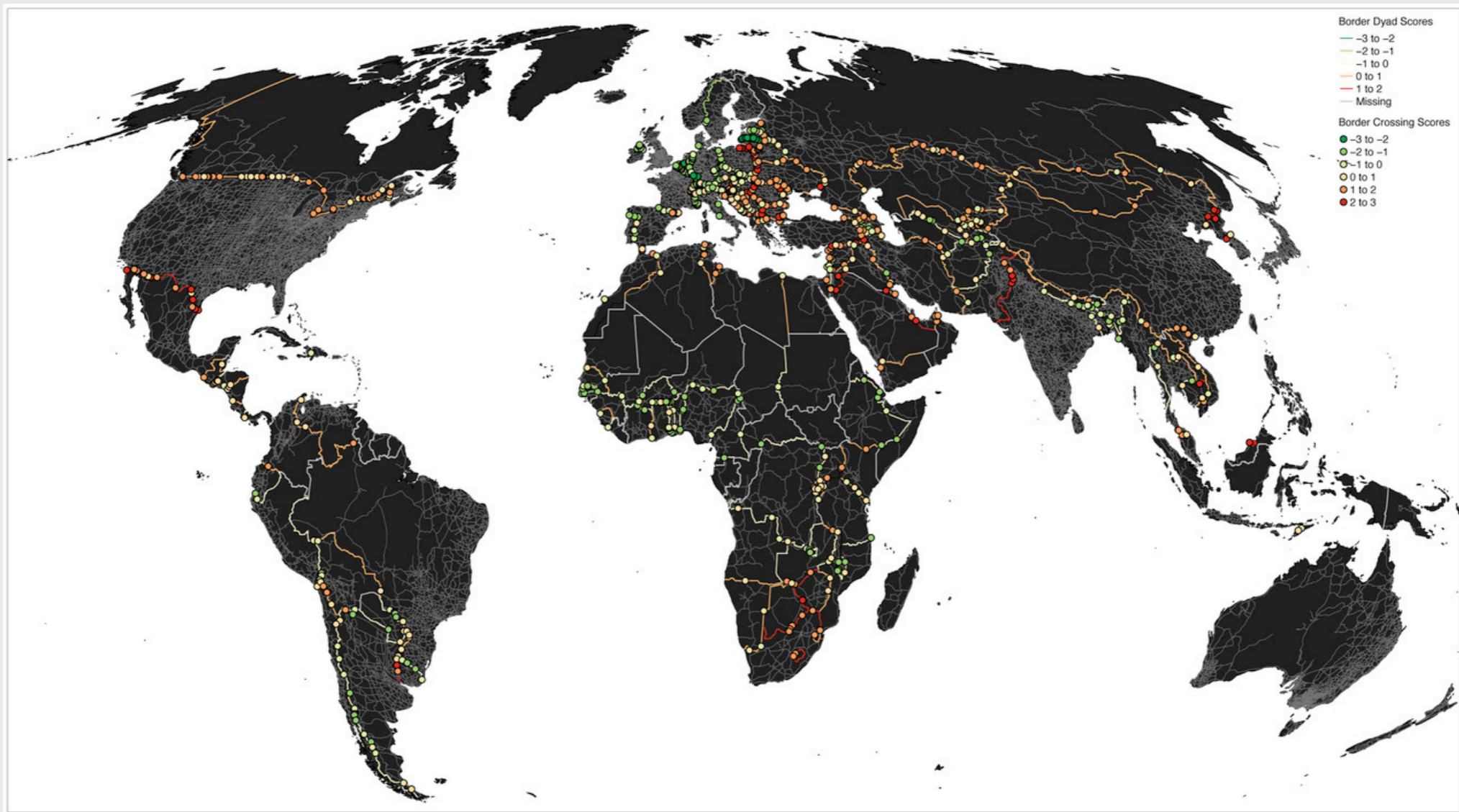


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Warren, Vermont

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Less legible ←

→ More legible

Logistics

The syllabus is [on] the course webpage:

https://facultyweb.cs.wvu.edu/~wehrwes/courses/data311_23w

This link can also be found on the Syllabus page on Canvas.

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Scott Wehrwein

Winter 2023

- [Course Overview](#)
- [Assessment](#)
- [Resources for Getting Help and Support](#)
- [Logistics](#)
- [Schedule](#)
- [Course Policies](#)

Course Overview

Logistics Highlights

- Schedule Table
- Assessment
- Policies
- Books
- Discord
- Inclusive learning environment
- Flexibility
- Feedback

Syllabus Questions?

A couple plots

- A couple plots (whiteboard)

What is **Data Science**?

- Thoughts? (colab)
- My take

What do **Data Scientists** *do*?

- Thoughts? (colab)
- My take

What is **data**?

- Thoughts? (colab)
- Properties of data:

What is data?

- Thoughts?
- Properties of data:
 - structured/unstructured
 - numerical/categorical
 - big/small

Kinds of Structured Data

- Table / matrix
- Tree
- Graph
- Stream / time series