

# W12 COS30045

Lecture

Class

Agenda

Agenda

- Review

- Project

# W12.1 COS30045

## Lecture

### Agenda

- Review

### Reference

NA

# Major Changes to Data Vis in 2025

## Summary of changes

Stronger alignment of lecture content and tutorials

New lectures and tutorial activates

New content

- Data processing
- Data Governance and privacy
- Accessibility

Use of GitHub teams

Higher weight on demonstrations and standups

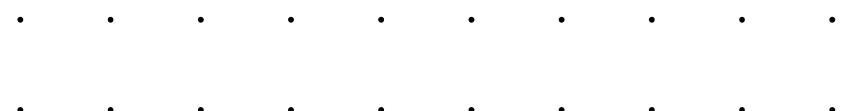
## Project

Creating teams based on engagement in unit

Common critique and project

Late semester formation of teams

More formalised standups



# Unit Review

## Week 0

- Build website with GenAI
- Set up GitHub
- Host webpage on Mercury
- Week 0 expectations
- Was it fair or useful to get started with git, mercury early?

## Week 1

- Intro to data visualisation
- Data processing (KNIME – tv data set)
- How useful was KNIME?
- Did you need more directed/step by step exercises? More time?

## Week 2 Labour day weekend

- Data visualisation design basics
- Data exploration and basic chart types (KNIME)
- Lecture Content online, was this ok?
- Monday missing lab, setback? Or guided exercises enough?

# Unit Review

## Week 3

- Storytelling with data
- Data governance and privacy
- Communicating data insights

## Week 4

- Intro to D3

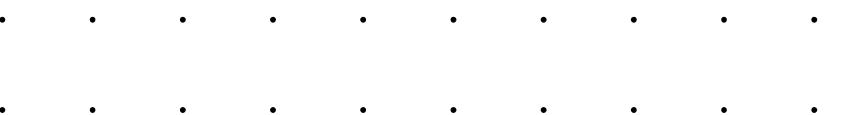
## Week 5-6

- D3 charts

- Was Lecture content useful to help learn D3?
- Were Exercises useful to help learn D3?
- Do you need more step by step?
- How much did you use textbook/lecture notes vs GenAI

## Week 7

- Psychology
- Data vis design review activity



# Unit Review

## Week 8

- Accessibility

## Week 9

- GitHub Teams
- Usability testing

## Week 10

- Interaction design
- Team project management tips

## Week 11

- Data visualisation review
- Stand-ups

- Was team formation smooth?
- Fair?
- How did you go with GitHub teams?

- Are stand-ups too much work, or do they help keep you on track?

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# Visualisation Critique

Aim: Critique visualisation according to data visualisation guidelines

Due: Week 7 (just before Easter)

Structure

- Introduction
- Data Processing and Governance
- Visualisation Design
- Recommendations

The screenshot shows a dark blue header with the Australian Government logo and the text 'Department of Infrastructure, Transport, Regional Development, Communications and the Arts'. Below the header is a navigation bar with tabs: Home, Random breath tests, Drug tests, Mobile phone, Speeding, Non-wearing seatbelts, and Unlicensed driving. The main content area has a dark blue background with white text. The title 'Police Enforcement' is at the top. Below it is a section titled 'Annual Enforcement series' with a list of enforcement types: Random breath tests, Drug tests, Mobile phone fines, Speeding fines, Seatbelt fines, and Unlicensed driving. A note states: 'Arrests and charges have been collected from data reported in 2023, but may not be applicable for all states and territories.' Another note says: 'Data is subject to revision.' At the bottom, there is a 'Notes' section with a list of agencies providing data, including NSW Police Force, Transport for NSW, Revenue NSW, Victoria Police, Department of Transport, Victoria, Queensland Police Service, Department of Transport and Main Roads, Queensland, South Australia Police, Department of Infrastructure and Transport, SA, Western Australia Police Force, Main Roads WA, Tasmania Police, Department of Infrastructure, Planning and Logistics, Tasmania, Northern Territory Police, Department of Infrastructure, Planning and Logistics, NT, and Australian Federal Police, Transport Canberra and City Services Directorate, ACT, Access Canberra.

# Data Visualisation Project

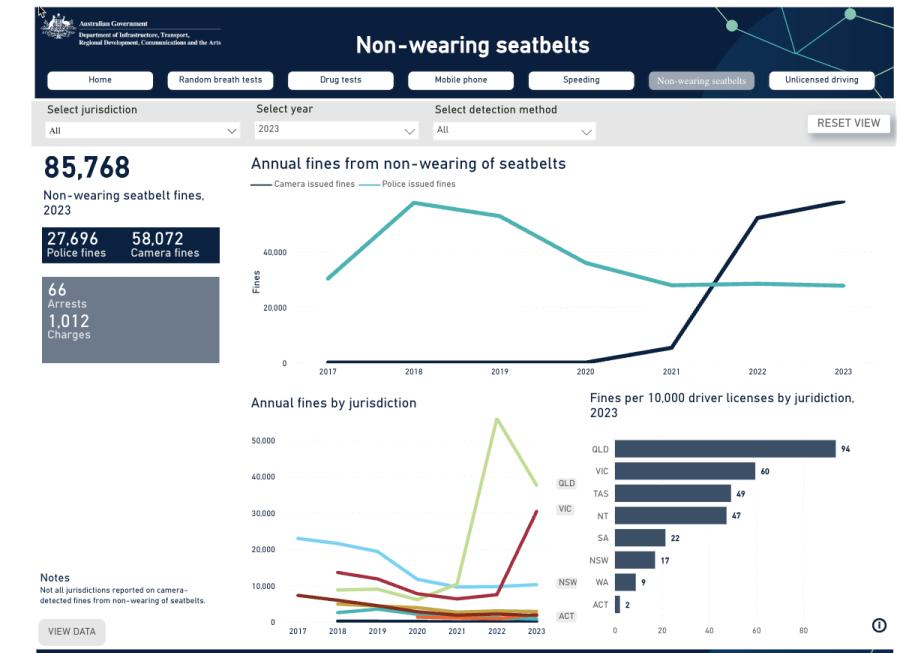
Aim: Design and build visualisations on the Police Enforcement website

Due: Week 13 (after semester)

Pair project (teams formed by tutor) in Week 8

Submission:

- Design Book
  - Purpose, data processing, design, evaluation...
- Website
- Was it helpful to have critique and project on same website?
- Did it make it too easy?



One of the dashboards

# Demonstrations

## Demonstration 1 (week 3)

- Draft website (check on git and Mercury)
- KNIME data analysis

## Demonstration 2 (week 5)

- Answering questions with data
- Chart design
- Adding static charts to website

## Demonstration 3 (week 8)

- D3 charts

- Did you feel exercises and Demo's prepared you to do project?
  - Did you feel labs a 'waste of time' due to tutor assessing demonstrations rather than 'teaching'?
  - Do we need multiple demonstrations, or would one set in mid-sem be enough?
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