

DATA2001

Data Science, Big Data
and Data Variety



THE UNIVERSITY OF
SYDNEY

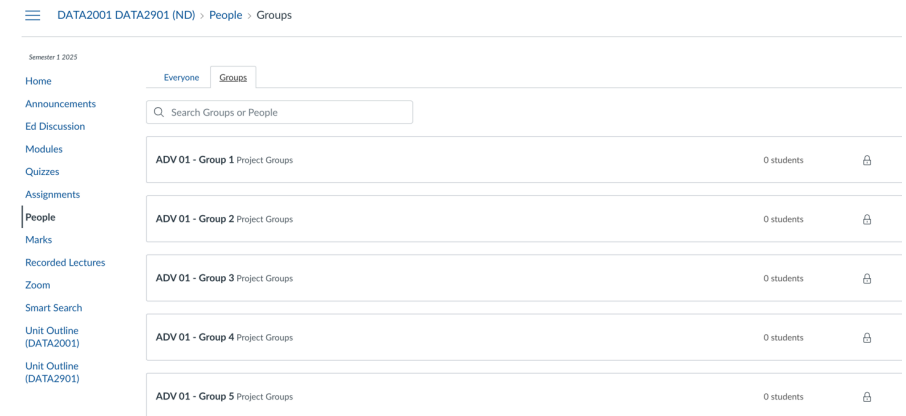
Week 7

Web APIs

Semi-Structured Data

Outline

- SQL Quiz – 60 mins
- Introduction to Web APIs – 20 mins
- Group Assignment Formation – 10 mins



Note: Ensure to register your group on Canvas

(in the “People” tab, you should be able to self-enrol into a group)
(when you have a team, pick one of the “Groups” within your enrolled class code – see “activity” column [here](#))
(e.g. for someone in Tina’s 12pm Thu class, this is activity “3”, so they might select “Class 03 – Group 4” with their agreed colleagues)

Dataset



We'll start by exploring a few simple API examples:
[World Bank Population Estimates](#)
[Stanford Dogs Dataset](#)

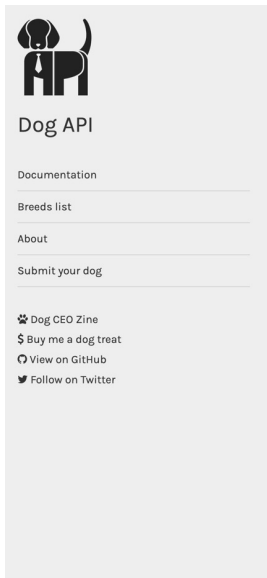
But our main focus will be on [Project Gutenberg](#), a dataset of publicly available, culturally important digitised literature.

We'll also introduce the [NSW Points of Interest](#) API, which will feature in the group assignment, and briefly discuss how APIs can be used for a number of bigger platforms.



Web APIs

Head to the notebook for this week, where we'll be looking into web APIs.



The internet's biggest collection of **open source dog pictures**.

Read our [documentation](#) to find out more or try it out for yourself below.

Want to add your dog to the collection? Submit your photos as a [pull request here](#).

Need more dog in your life? Get issue 1 of [Dog CEO Zine](#) - a quarterly business and lifestyle magazine for the modern dog. Featuring an exclusive interview with Scottie the Monopoly dog. [Order your copy](#) from Side Orders Publishing. Ships worldwide.

`https://dog.ceo/api/breeds/image/random` [Fetch!](#)

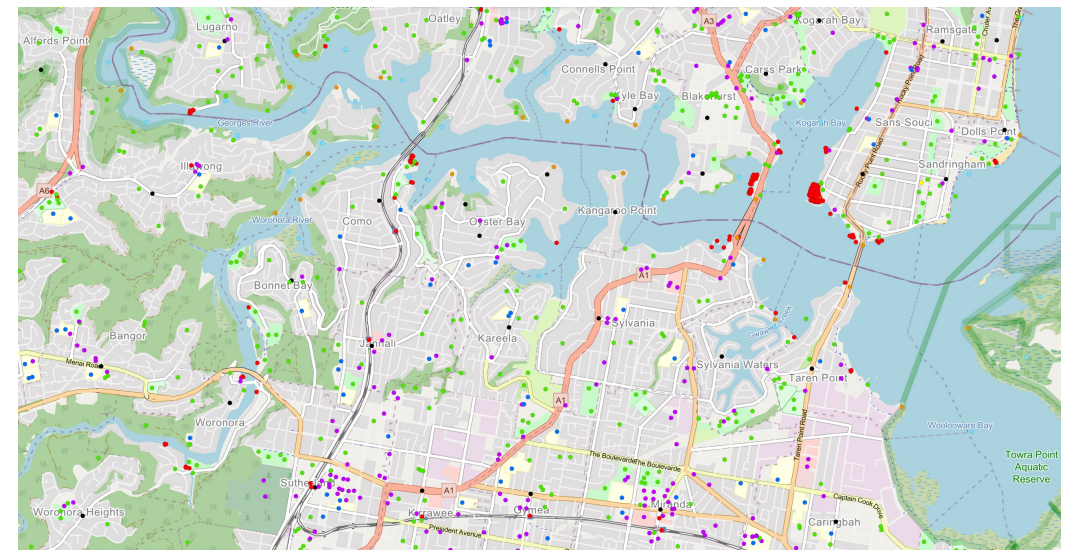
JSON

```
{
  "message": "https://images.dog.ceo/breeds/basenji/n02110886_4792.jpg"
  "status": "success"
}
```

IMAGE



Dog API for retrieving pictures of dogs



Example of the SEED map from the NSW Points of Interest site

See you next week!
(this week's meme posted literally days ago)

