

# Project diary

Week 9 – 30/09/2022

Project ideas:

1. Road works around Christchurch  
<https://ccc.govt.nz/transport/improving-our-transport-and-roads/works>
2. Cafes around Christchurch
  - a. <https://www.police.govt.nz/about-us/publications-statistics/data-and-statistics/policedatanz/victimisation-time-and-place>
  - b. <https://www.audioculture.co.nz/profile/>
3. Fast food rates during COVID-19 - (could link to NZ gas prices if we can find adequate data)
  - a. COVID-19 cases NZ per city  
<https://github.com/minhealthnz/nz-covid-data/blob/main/cases/covid-cases-counts-location.xlsx>
  - b. This link just shows Google search trends and lets you download data as CSVs  
<https://trends.google.com/trends/explore?date=today%205-y&geo=NZ&q=Pizza>
  - c. Gas data  
<https://tradingeconomics.com/new-zealand/gasoline-prices>  
  
<https://www.mbie.govt.nz/building-and-energy/energy-and-natural-resources/energy-statistics-and-modelling/energy-statistics/weekly-fuel-price-monitoring/>
  - d. 105(Police)—Online reports for Breaches of COVID-19 Restrictions  
<https://www.police.govt.nz/about-us/statistics-and-publications/data-and-statistics/covid-19-response>
4. Cafe music around Christchurch – Using a Christchurch Cafe database to generate Spotify playlists of NZ artist music
  - a. Database 1: Cafes around Christchurch -
  - b. Database 2: Music by New Zealand artists -
    - i. Using name and/or description of the cafe to generate a NZ Spotify playlist
    - ii. Possibly filtering the music in each playlist for e.g., 'danceability'

Today was our first meeting. We were brainstorming ideas to run with for the project. We wanted to try and relate our ideas to Christchurch somehow. Ideas we produced were fast food rates during COVID-19. We also thought we could link this to gas prices. Another one had to do with the cafes in Christchurch and roadworks. Last one had to do with Lock-down breaches during COVID-19. Once we had enough ideas we liked, we searched for/found datasets to use.

Ezeckiel created a GitHub group for the project.

Scott uploaded a CSV of COVID-19 breaches in NZ to the GitHub.

## Week 10 – 3/10/2022

We started web-scraping and wrangling data. Scott was web-scraping the NZ Police website for online reports for COVID-19 breaches. Tom was web-scraping the Christchurch cafes website to get café names and descriptions. Ezeckiel was web-scraping the AudioCulture website for NZ music. Anna could not make it, but she worked on the prototyping part/producing ideas as we still were not 100% on what we were doing. We all uploaded our work to the GitHub.

## Week 10 – 7/10/2022

Zheng Chao uploaded data on 105 reports at different Alert levels via GitHub, cleaned out the data and made a graph of changes in cases for the Canterbury region.

Final prototype decided – Cafes in Christchurch and Spotify playlist generation + filtering.

Tom and Ezeckiel kept scraping the Neat Café and AudioCulture sites.

Anna carried on scraping necessary datasets from the web and researching Spotify API in R.

- Spotify R tutorial - <https://msmith7161.github.io/what-is-speechiness/>
- GitHub Spotify R package - <https://github.com/charlie86/spotifyr/>

## Week 11 – 10/10/2022

Our group discussed with another group the difficulties encountered in the project.

Thomas uploaded his Jupiter note on coffee names via GitHub.

Ezeckiel added a function to his code that returns a profile's discography.

Anna began research into using APIs for YouTube and/or Spotify for conversion of playlist Tibbles in code into usable playlists for cafes to access.

## Week 11 - 16/10/2022

Anna shared the PowerPoints of having done rendering and animation design. And continued research into API's. The Spotify package could not be used in the way we intended (to create playlists) but can be used to analyse already functioning playlists, so Anna worked on analysing one of our outputted playlists for different variables within Spotify.

Thomas completed and modified the code about the coffee name.

Zheng started the project report and completed the introduction part.

Ezeckiel added comments to his code and cleaned it up for easier viewing/understanding.

## Week 12 - 17/10/2022

Thomas added part of the code of coffee name and output at power point. Ezeckiel completed the relevant code for NZ music and showed it to the power point, Zheng and Anna completed other parts of the presentation, including explaining why we chose the topic of our group, and how to show the status and way of our daily work. And what research will we do in the future, etc.

Before the afternoon presentation, we made final preparations and tried to simulate the speech a few times, increasing fluency through practice.

Completed our presentation during the lab.

## Week 14 - 26/10/2022

Thomas worked on the report and almost completed the introduction and parts about the Cafe name data set.

## Week 14 – 29/10/2022

Ezeckiel started writing the music database part of the report. Only did its introduction.

Anna did further work on the Spotify API but had trouble finding any functions that would create playlists from the tables generated by our code.

## Week 14 – 30/10/2022

Ezeckiel finished the music database part of the report. Also worked on the music database code. Combined two functions and added reattempt loop in code when trying to find an album.

Anna worked on getting Spotify features of tracks for songs in a 'test playlist' this went well but filtering the music based on these parameters proved difficult.

## Week 15 – 31/10/2022

Ezeckiel put the café and music code into one file. Ezeckiel also updated images in his part of the report. Ezeckiel added a collaboration and conclusion section in the report. Anna finished the API part and formatted the report nicely.