

DawsCon 2023

Data Journalism Challenge

For more information see discord: #challenge-resources- 

Introduction

Mitigating the impact of climate change is one of the most urgent challenges of our century. Understanding where emissions come from, and how they are evolving over time is crucial to making progress. However, the amount of information can be overwhelming, especially when put in context with history and economics. The field of data science offers some tools to help us parse the massive reams of data, and extract insight from interactive visualizations. These visual representations of data can help us make informed arguments and decisions as we collectively work to preserve the health of our planet.

The DawsCon – DawsonAI data challenge this year is meant to help introduce us to the broad field of *Data Journalism*, wherein large datasets from various sources are compiled into a visual aid at the center of a story meant to inform the public. Inspired by the work done at [Our World in Data](#), we will begin with publicly available CO₂ emissions data for Canada at the provincial level, and

Instructions for Warm-up (*completed*)

- Open a new jupyter notebook [Google Colab](#) (requires a Gmail account)
- In a separate window, open the **Tutorial Notebook** The goal of this tutorial is to break down the code required to generate the graphs we see in the [Our World in Data](#) article, which gives the CO₂ emissions over time, for any country, over the last 50 years.
- Cell by cell, follow the tutorial, and copy cell chunks over to your blank notebook. This will allow you to see for yourself how different code chunks work for yourself, without losing your original copy of the tutorial.
- Notice the use of different variables to contextualize the raw data: e.g. country population, economic output

Challenge Accepted!

The overall goal of the challenge is to develop a news story which continues the analysis from the *Warm-up* above, but at the provincial level here in Canada.

- <https://www.statcan.gc.ca/en/start>
- Scroll down and click : “Access our Data”
- Filters
 - o Environment
 - o Province or territory
 - o Annual
- Last item of search results should be : **Physical flow account for greenhouse gas emissions**
- Get data for 2009-2019
- Download data.

- Implement code to at least reproduce graphs from *Warm-up* at the provincial level here in Canada.
- Develop an argument based on what you see. Feel free to leverage other datasets available on Statistics Canada

What to submit

- A representative image of your data visualization.
- 200-word “news story” article about your findings.
- Code used for analysis inside a Colab Notebook (submitted as link)
- 5-minute presentation to the group of judges

Tips

- Try to use data driven arguments
- Be inspired by the original source: Our World in Data
- Explore the use of:
 - Graphs
 - Infographics
 - Animations
 - Video