

# Growing Degree Days - Project

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## Contents

### 1 Motivation

We want to use Python and Bash scripts to analyse growing degree days for cities in Canada. Growing degree days are used to predict when a flower or plant will bloom.

## 2 Minimum core tasks

### 2.1 Files and Scripts

#### **gdd.sh**

Input: temperatures.csv, tbase, tupper

Output:

What it does... maybe adding code

#### **gdd.py**

Input: tbase, tupper

Output: year\_cityName\_gdd.csv

what it does...

#### **create\_plots.py**

Output: CumulativeGDD.png, CompareMaxMinTemp.png

Searches for all *year\_cityName\_gdd.csv* files and generates a subplot for each city. Then saves the generated plot into a PNG-file.

### 2.2 Process flow

### 2.3 Results

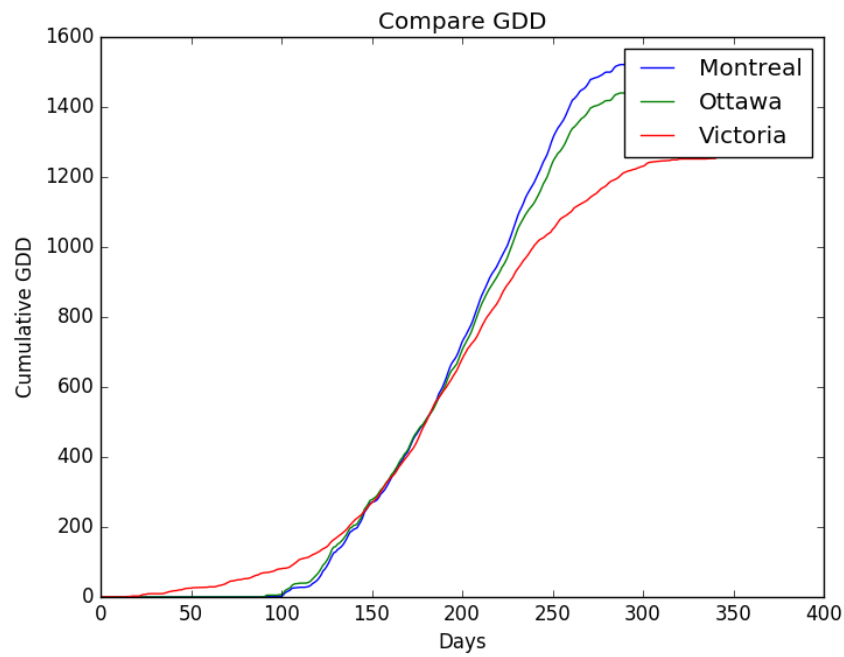


Figure 1: Shows the accumulated GDD vs time for three selected cities.

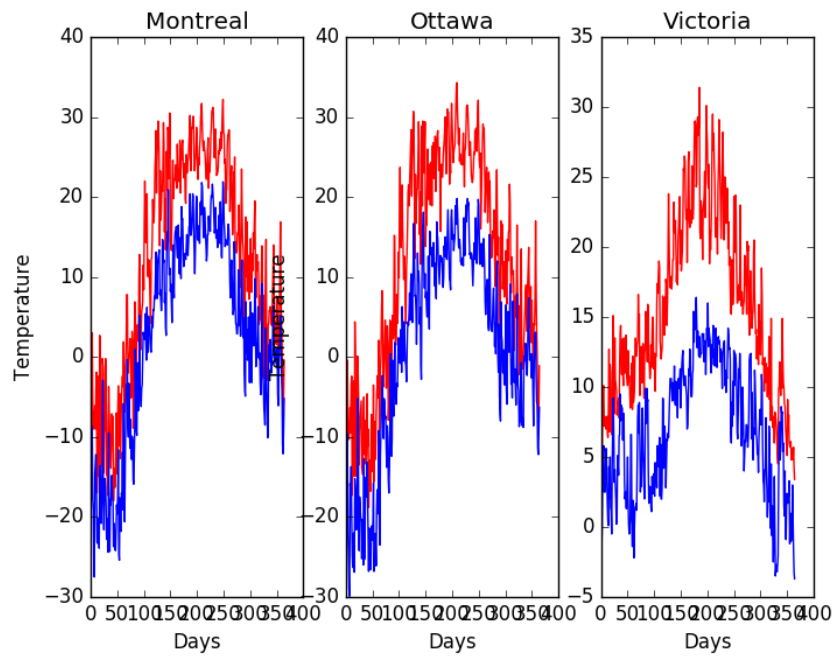


Figure 2: Shows the min and max temperature for three selected cities.

### **3 Secondary tasks**