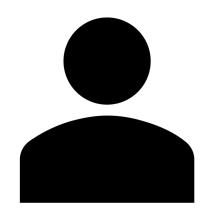# LABORATORY WORK

CMPT 305 2022/23
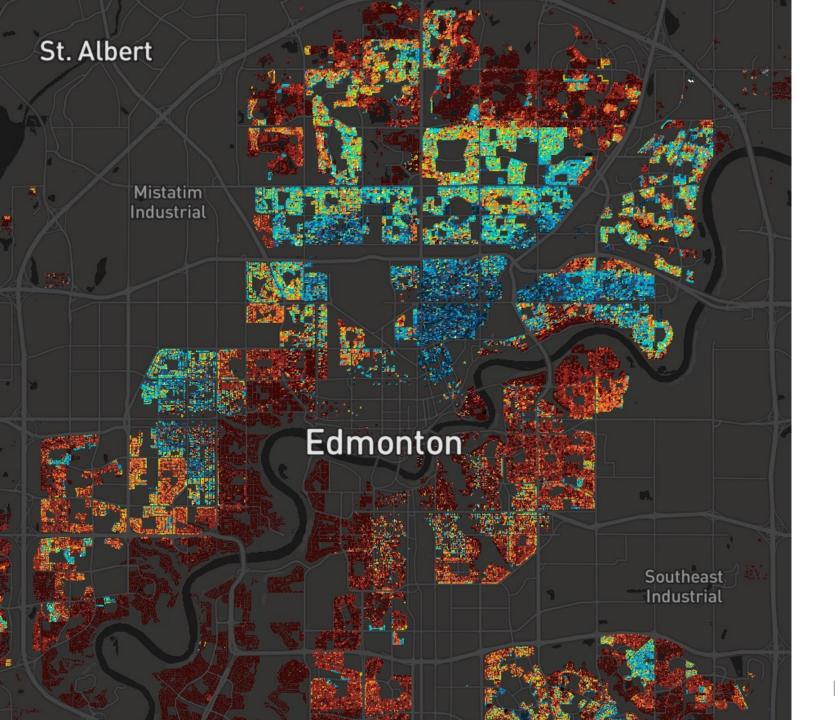
THE BIG PICTURE

Milestone 1: 15%
Milestone 2: 20%

Milestone 3: 15%

INDIVIDUAL PROJECT

- Dataset: Edmonton Property Assessment (Current Year)

- Source: Edmonton's Open Data Portal

- URL: https://bit.ly/38NIOHX

Image source: http://yeg-assess.dha.io/

LAB 1: JAN 9 – 13

Processing and parsing a CSV file, writing static methods, analyzing data, and testing

LAB 1: LEARNING OBJECTIVES

- Getting started with Java

- Reading and processing a CSV file (Property_Assessment_Data_2022.csv)

- Writing static methods

- Exploring the Java library

- Analyzing data

- Testing

TASK

Write a **Java application** to analyze **Property_Assessment_Data_2022.csv** and answer the following questions:

- How many records are in the data set?

- What is the lowest and highest assessed value in Edmonton?

- How many wards are in Edmonton?

- What are the property assessment classes in Edmonton?

THINGS TO CONSIDER

- How can you break down the complexity of your program?

- How do you test the correctness of your program?

- Does your program make certain assumptions? Can you remove any unnecessary assumptions so that your program will work with any data sets with the same structure?

- Does your program contain inefficient code (in terms of algorithm complexity and operations)?

Recommended: discuss your ideas with the lab instructor during the lab session