## INTRODUCTION TO DATA CLEANING

WITH OPENREFINE & WORD CLOUDS

Meg Miller, GIS & Data Visualization Librarian Natalie Vielfaure, Digital Curation Archivist University of Manitoba Libraries



#### SESSION BREAKDOWN



Software Overview



Data Cleaning: What is it?



**Benefits** 



Hands-on Exercises



OpenRefine

What is it?

Uses



Voyant Tools

What is it?

Word Clouds

# SOFTWARE OVERVIEW



**VOYANT-TOOLS.ORG/** 

**EXERCISE I** 

# DATA CLEANING: WHAT IS IT?

Improving the overall quality of your data.

Manitoba

MB

Man.

Manitoba

Manitoab

mb

## RESOLVING INCONSISTENCIES

- Variant spelling
- Inconsistent case
- Duplication

### **FORMATTING**



**UNIT OF MEASUREMENTS** 



DATES, TEXT, NUMBERS



COLUMNS / ROWS



**FORMAT MIGRATION** 

## **NULL VALUES**

- No value
- 0 value
- Errors
  - **Examples:** 
    - =MODE.MULT(A2:G2) → #NULL!
    - =SUM(A2:A5) → #NAME?

#### DATA CLEANING: BENEFITS

Efficient research

Easier conversion

Secondary use

# bit.ly/orf\_2022

HANDS ON EXERCISES