LEARNING GOALS

GRACEY: Integrating different files written in parallel to each other.

SAM: Improve text mining skills and writing well-structured code.

Rowan: Working with hardware and human interfacing.

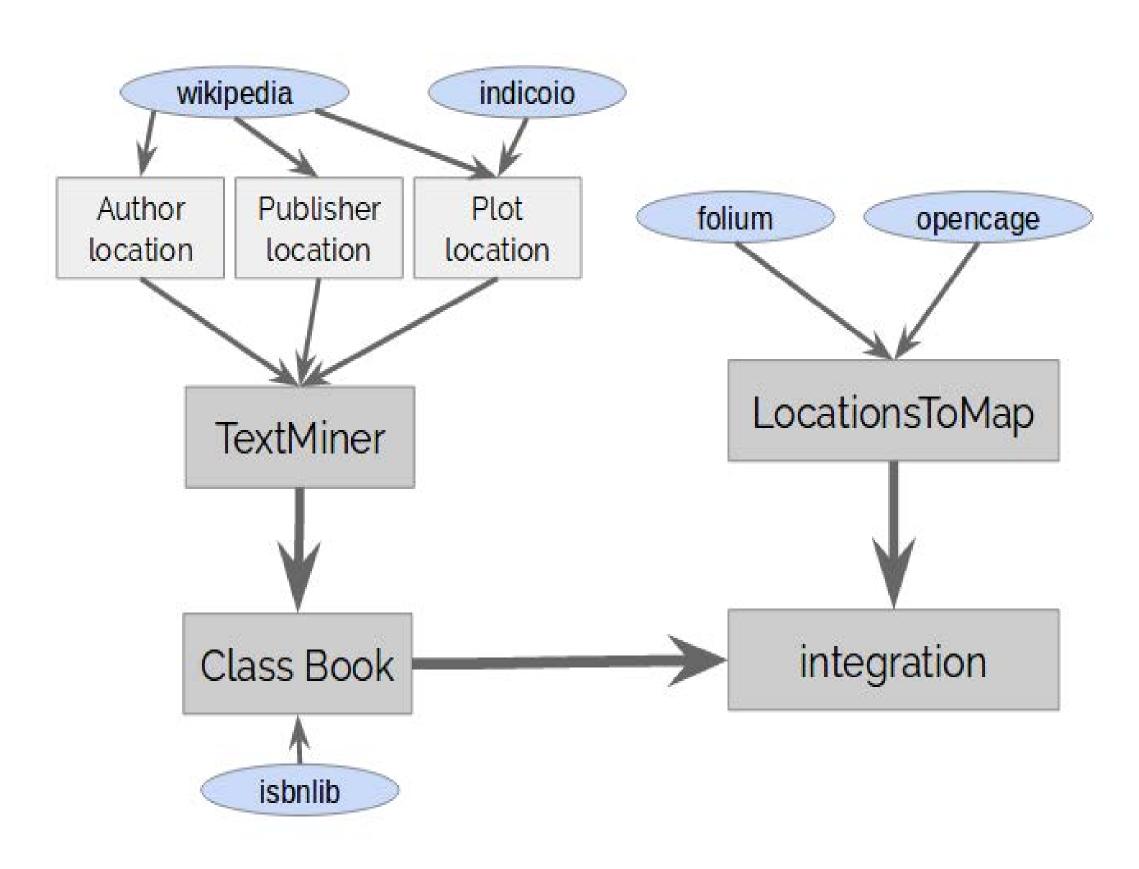
SARAH: Getting familiar with map-plotting libraries and merge conflicts.

TEAM GOAL:

Practicing creating quality documentation (i.e. well-commented code, website, etc.)

CODE STRUCTURE

- 1) Use Python's isbnlib library to get the basic info attached to the inputted ISBN code.
- 2) Use the Wikipedia library to generate HTML code of the book's Wikipedia page and the book's publisher's Wikipedia page.
- Wikipedia API to parse the HTML code of the book's page for the author and publisher locations. Use the indicoio library to parse the book page's HTML code for plot location.
- **4)** Use Python's Folium library to plot the discovered locations on a world map.



A visual representation of the python files we wrote and how they interact with each other.

WTBF: Where's That Book From?

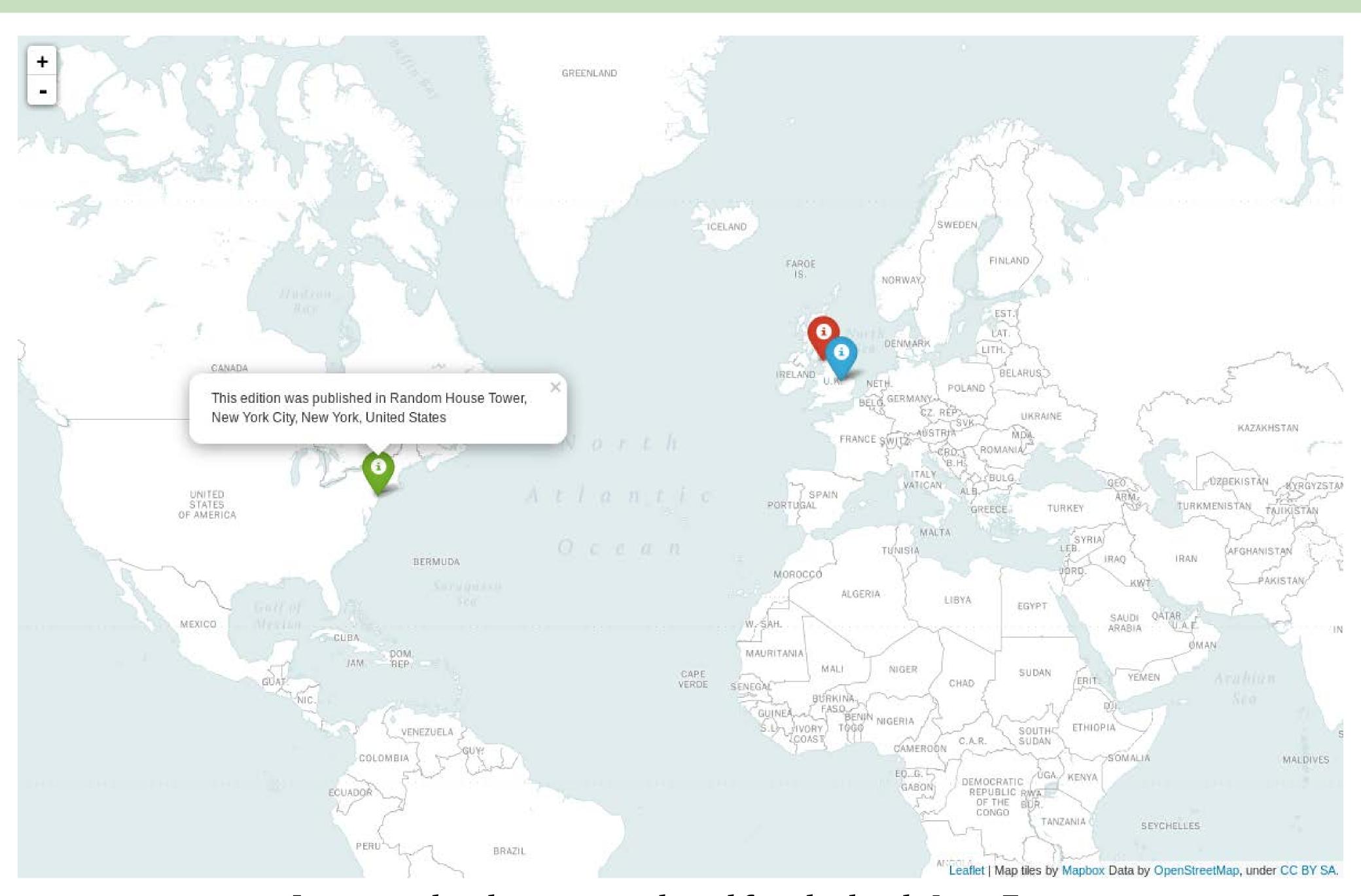
interWEBS: Gracey Wilson, Sam Eppinger, Rowan Sharman, Sarah Barden Olin College of Engineering | Spring 2016 | Software Design

WHAT DOES IT DO?

INPUT:

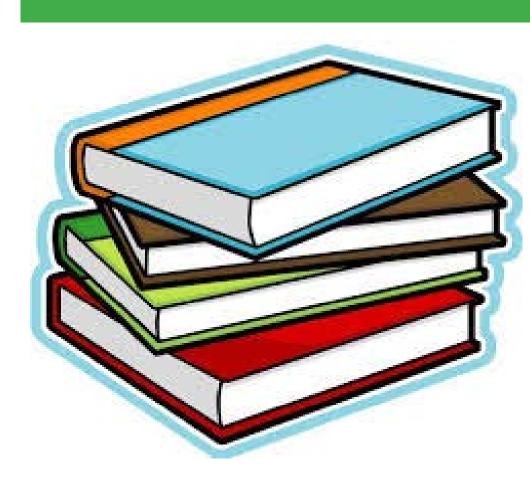
- A book title, or
- A book's ISBN code

Output: A map highlighting the place where the author is from, where the book was published, and where the the story takes place.



An example: the map produced for the book Jane Eyre.

WHY DOES IT MATTER?



In a world where a global mindset and education are highly relevant conversations, our project educates users about where their books come from using a visual, interactive interface. It also provides a visual representation of the way in which goods, knowledge, and stories make their way around the world.



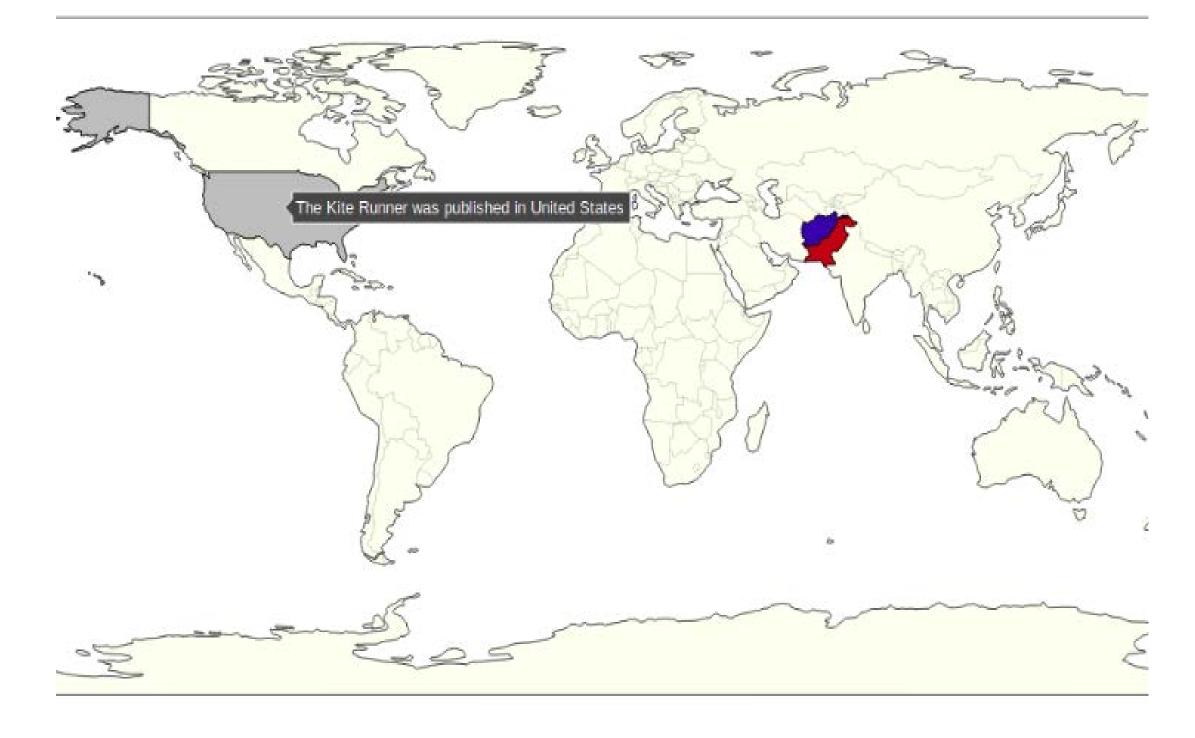
PROCESS

We started out with just 3 things: a desire to work with maps and visualization, a curiosity about where things come from, and a barcode scanner.

This eventually evolved into the "Where's That Book From" program we present to you today, but not without some battles.



Some notable struggles included working with the large but occasionally unreliable Wikipedia API, shown above, and working with the Plotly library, shown below. When we could not find a simple way to plot cities instead of just countries using Plotly, we we chose to work with the Folium plotting library instead.



Sources: http://nur.hmu.edu.krd/

https://pages.shanti.virginia.edu/mcintireabroad/2012/08/08/new-global-commerce-immersion-courses-announced-for-2013/