# Java Project Resources

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## Downloading and Running a BlueJ Project

1. Download the ZIP file for the project linked below (you do not need to expand it).
2. Within BlueJ, choose the File menu and select "Open Project".
3. Select the downloaded ZIP file and choose "Open".
4. The code and data files for the project are now ready to be used.

***Note that you need to right-click on a .atom file link to download it, then save the file in the same folder as your BlueJ project.

## Examples From Videos and Quizzes

## Earthquakes: Programming and Interfaces

### Searching Earthquake Data

**Video: Coding a Magnitude Filter**

- BlueJ Project: Earthquake Magnitude and Distance Demo

**Video: Coding the Closest Quakes**

- BlueJ Project: Closest Quakes Demo

**Programming Exercise: Searching Earthquake Data**

- BlueJ Project: [Searching Earthquake Data Starter Program](#)
- Example text file: [nov20quakedatasmall.atom](#)

**Practice Quiz: Searching Earthquake Data**

- Example text file: [nov20quakedata.atom](#)

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## Filtering Data

**Programming Exercise: Filtering Data**

- BlueJ Project: [Earthquake Filter Starter Program](#)

**Practice Quiz: Filtering Data**

- Example text file: [nov20quakedata.atom](#)

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## Review

**Graded Quiz: Earthquakes: Programming and Interfaces**

- Quiz text file: [nov20quakedata.atom](#)

# Earthquakes: Sorting Algorithms

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## Implementing Selection Sort

**Video: Translating to Code**

- BlueJ Project: [Selection Sort Demo](#)

**Video: In Place**

- BlueJ Project: [In Place Sort Demo](#)

**Programming Exercise: Implementing Selection Sort**

- BlueJ Project: Earthquake Sort Starter Program
- Example text files:
  - earthquakeDataSampleSix1.atom
  - earthquakeDataSampleSix2.atom

**Practice Quiz: Implementing Selection Sort**

- Example text files:
  - earthQuakeDataDec6sample1.atom
  - earthQuakeDataDec6sample2.atom

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## Sorting at Scale

### Video: Introduction

- BlueJ Project: Time Sort Demo

### Video: Ordering Quakes by Magnitude

- BlueJ Project: Quake Sort Demo

### Video: Comparator for Distance from a Location

- BlueJ Project: Distance Comparator Demo

### Programming Exercise: Sorting at Scale

- BlueJ Project: Efficient Sort Starter Program

### Practice Quiz: Sorting at Scale

- Example text files:
  - earthQuakeDataDec6sample1.atom
  - earthQuakeDataDec6sample2.atom

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## Review

### Graded Quiz: Earthquakes: Sorting Algorithms

- Quiz text files:
    - earthQuakeDataWeekDec6sample1.atom
    - earthQuakeDataWeekDec6sample2.atom

# N-Grams: Predictive Text

## Generating Random Text

### Programming Exercise: Generating Random Text

- BlueJ Project: Generating Random Text Starter Program

### Programming Exercise: Interface and Abstract Class

- BlueJ Project: Interface Abstract Starter Program

## Word N-Grams

### Programming Exercise: Word N-Grams

- BlueJ Project: Word N-Gram Starter Program

### Programming Exercise: WordGram Class

- BlueJ Project: WordGram Class Starter Program