Where to Go from Here

Friday Four Square!
4:15PM, Outside Gates

Announcements

- NameSurfer was due Wednesday.
  - Due at 3:15PM today with one late period.
  - Due at 3:15PM Monday with two late periods.
  - Due at 3:15PM Wednesday with three late periods.
- FacePamphlet due next Friday at 11:30AM.
  - **No late submissions –** sorry, this is university policy.
  - Extra LaIR hours next week; more details over email.
- Midterms available for pickup; regrades can be submitted until next Wednesday.

Packaging Your Programs

Packaging Your Programs
-or-
How I Learned to Quit Worrying and Love the JAR

JAR Files

- A **JAR file** (**J**ava **AR**chive) is a packaged set of Java files.
- You can share your programs with others by creating a JAR file for your programs.

Putting Your Programs in JARs

- You can create a JAR file for your programs as follows.
- First, add a **`main`** method to your program that looks like this:

```
public static void main(String[] args) {
    new ClassName().start(args);
}
```

- This **`main`** method will start up the program when you run it.

Step one: Add the `main` method.
Step two: ???
Step three: Profit!

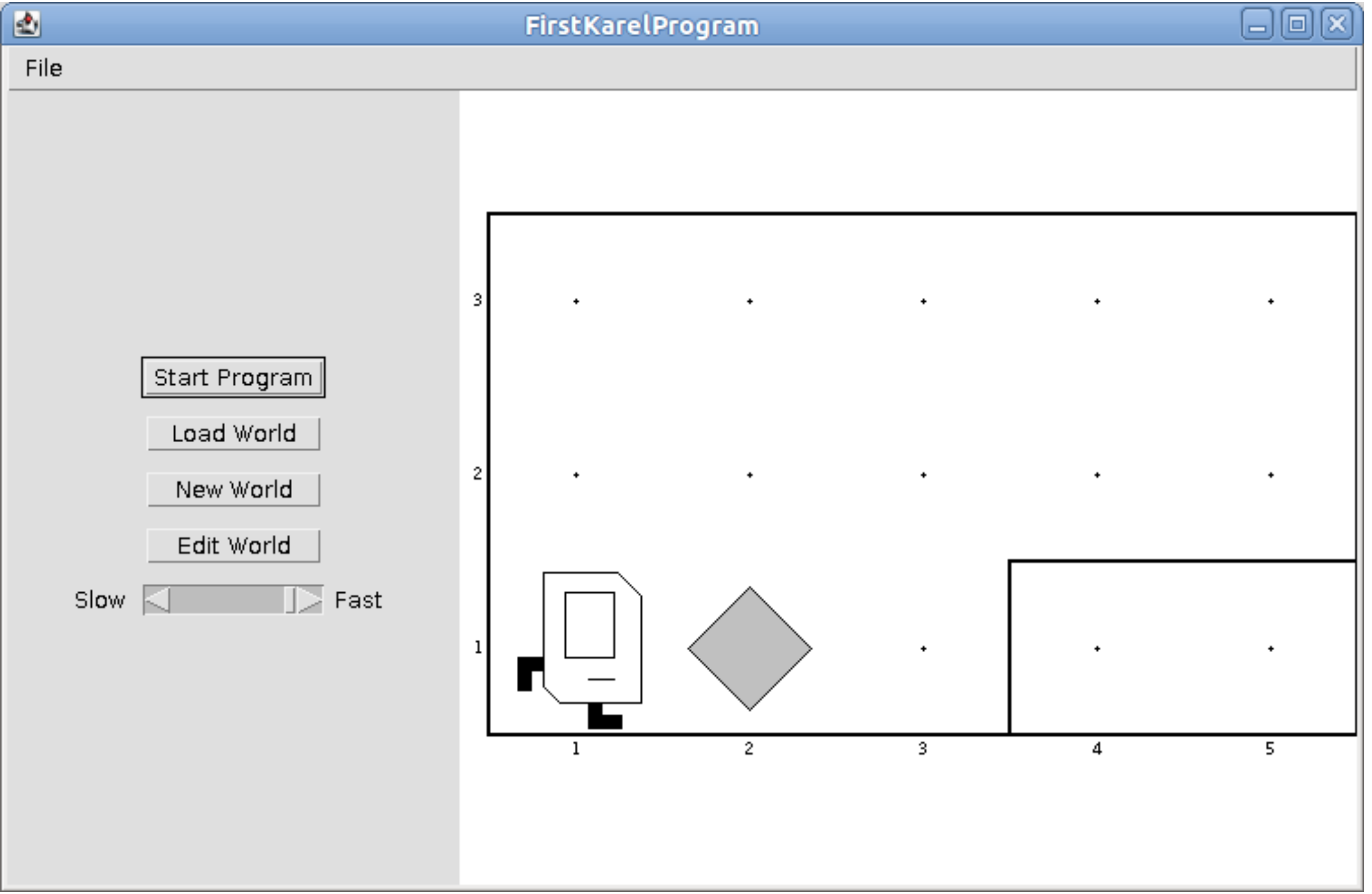
That Middle Step

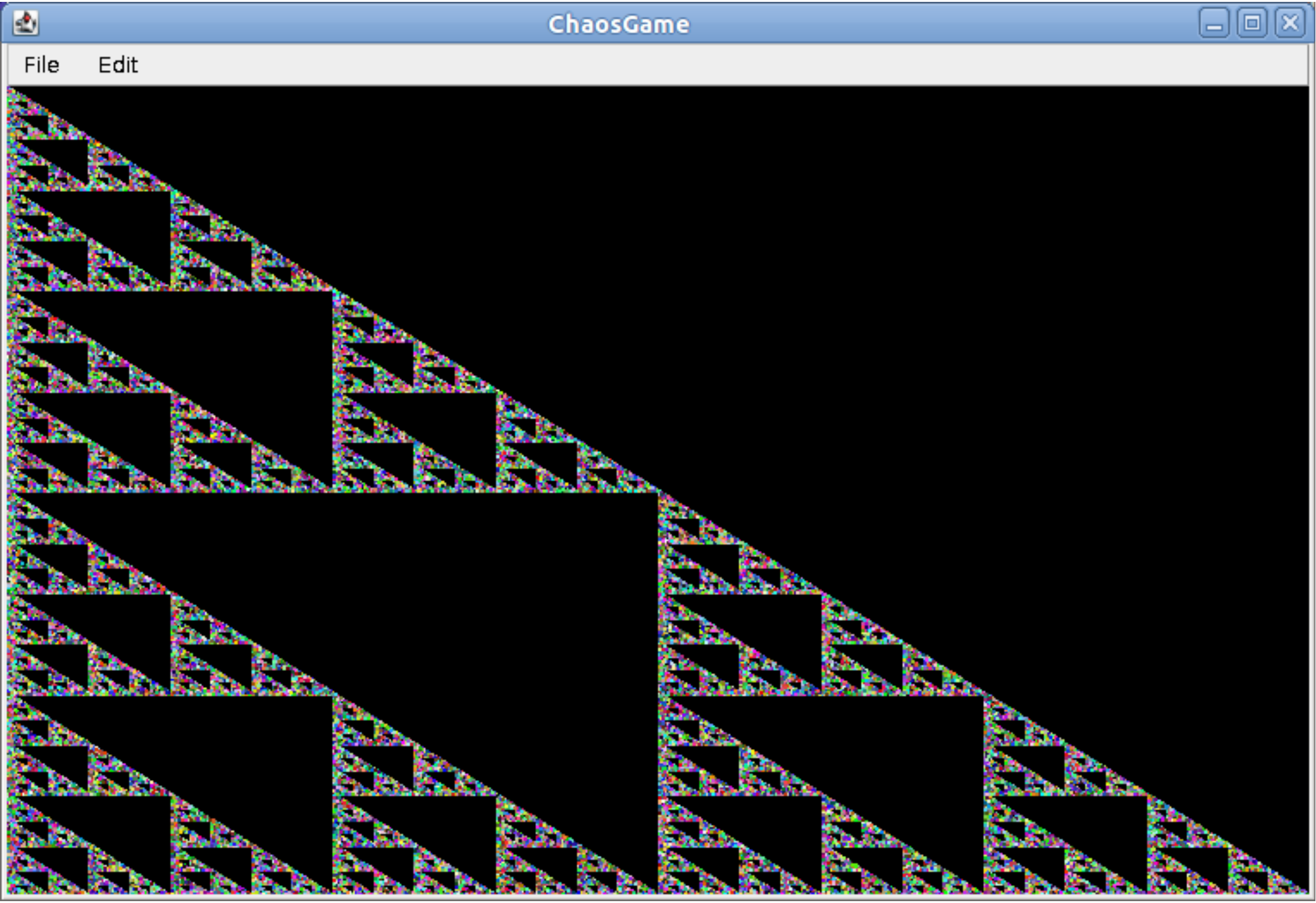
Beyond CS106A

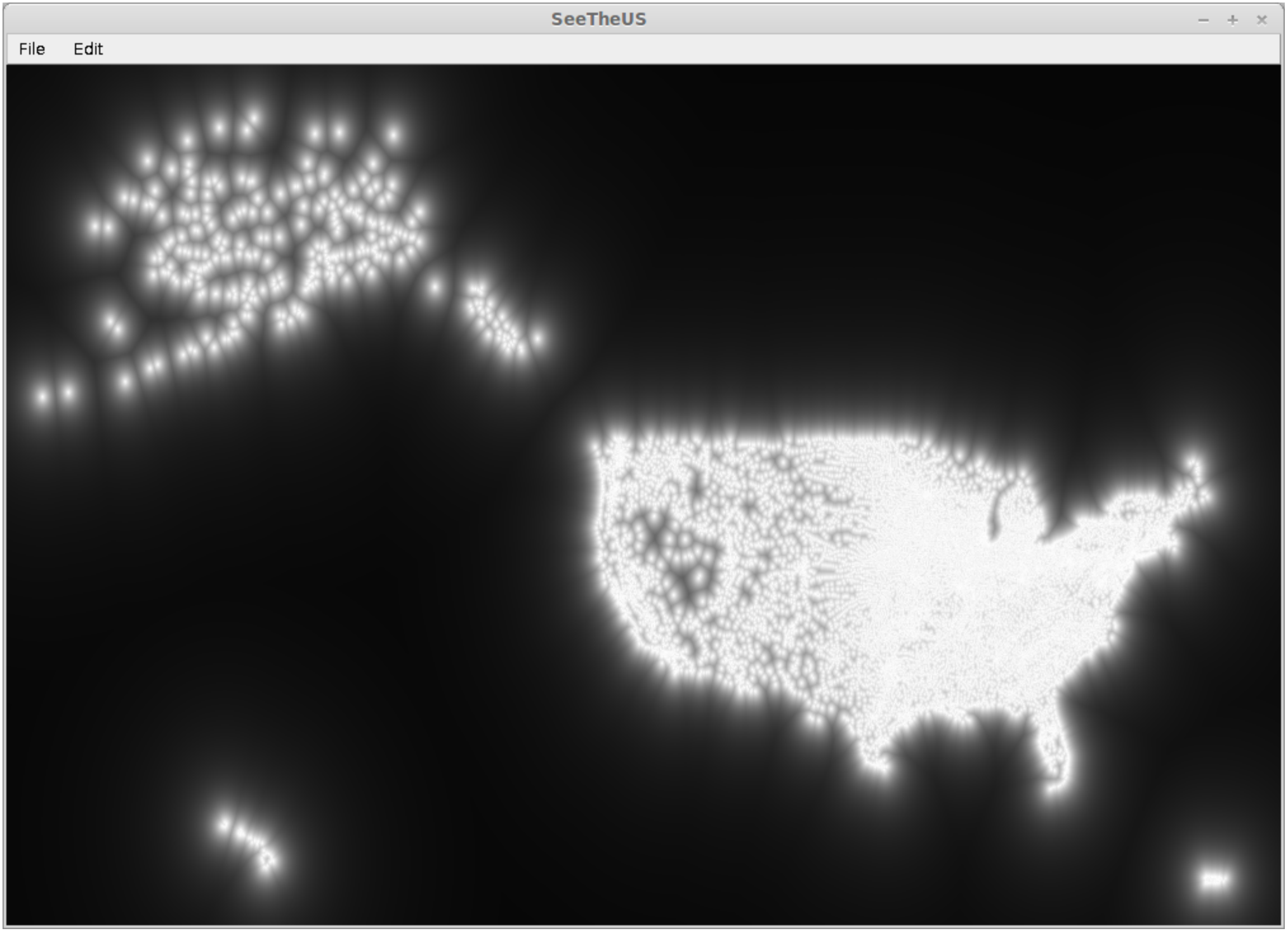
http://i.imgur.com/4fwhe.jpg

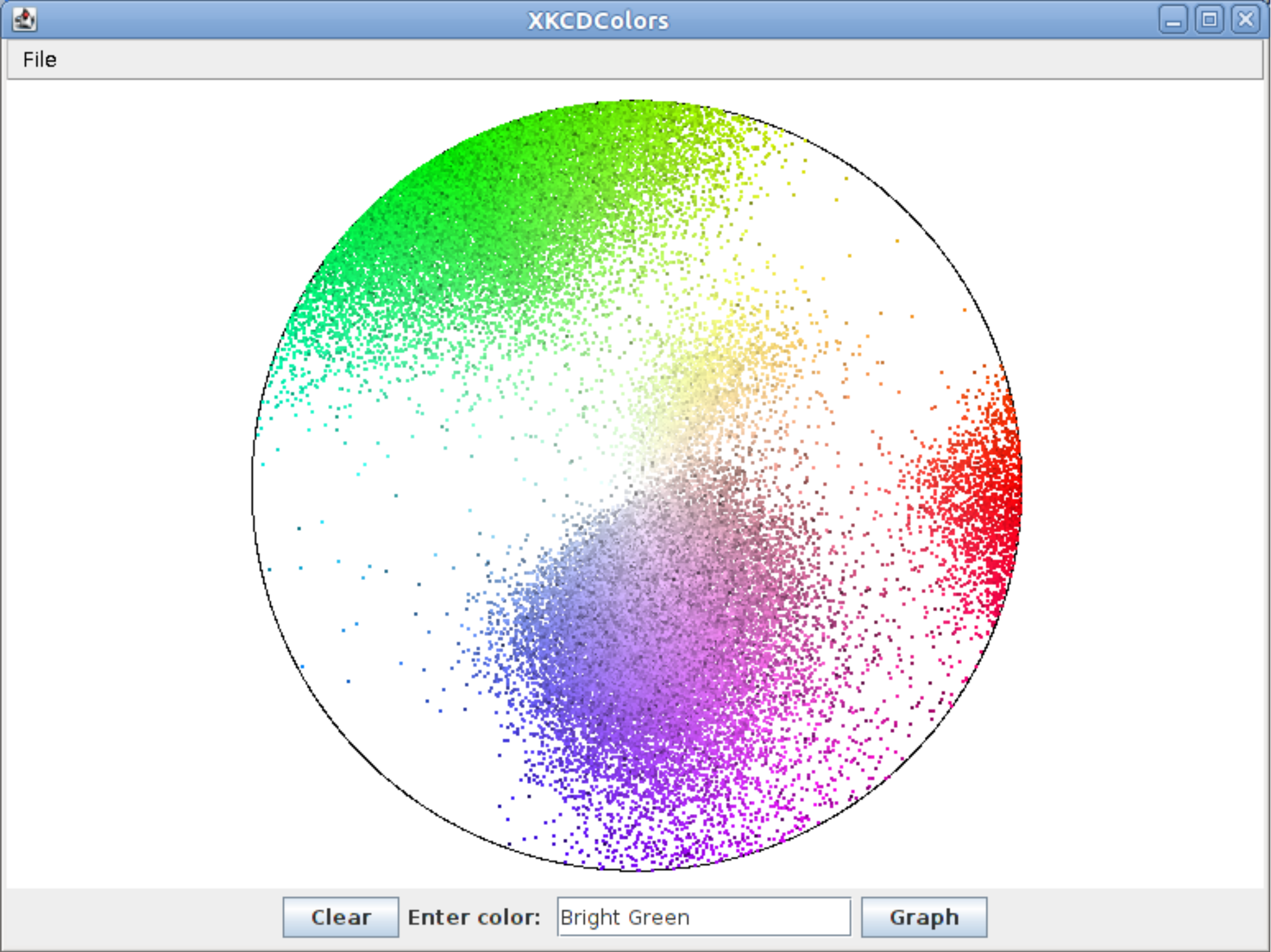
Where We've Been

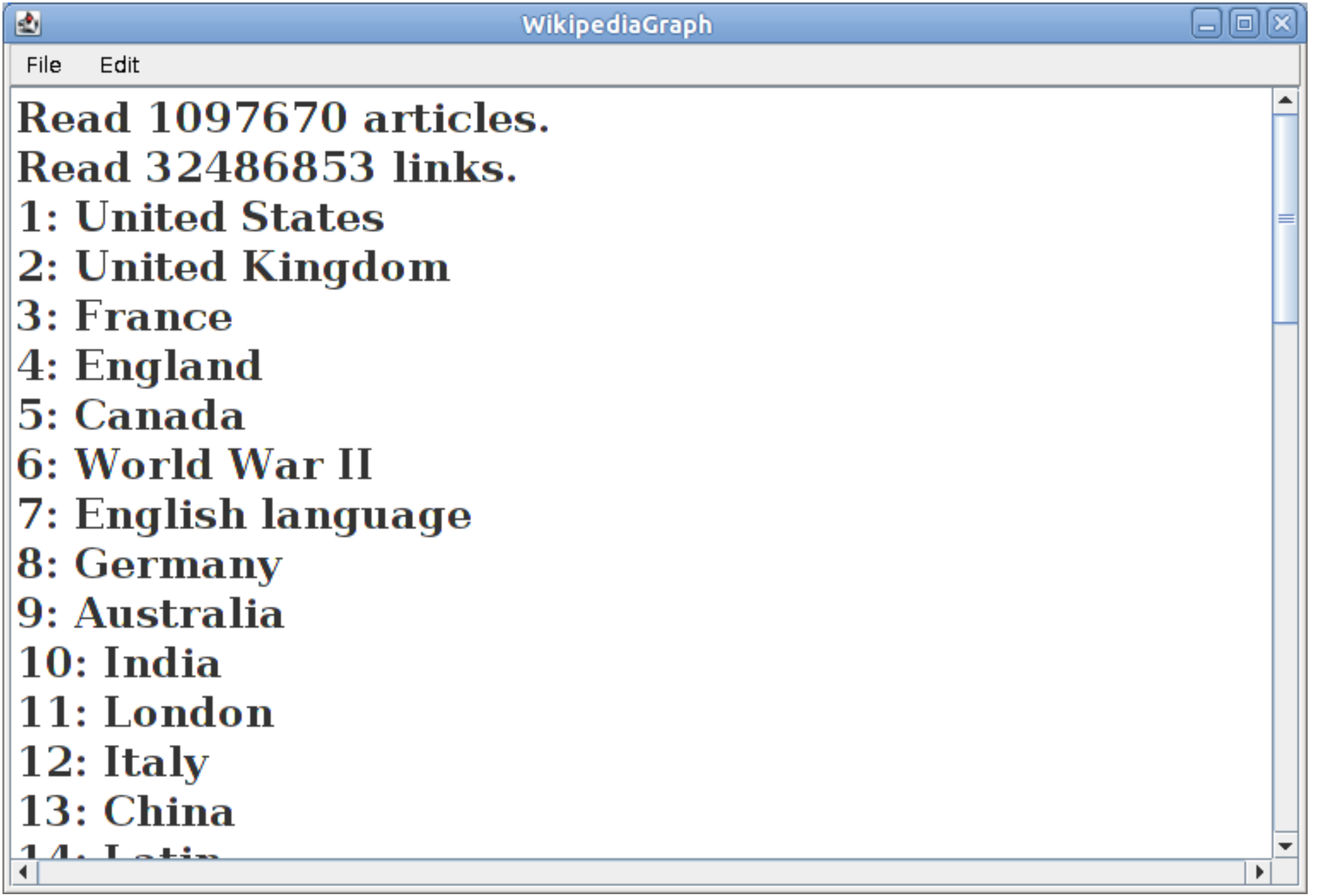
- Variables
- Methods
- Loops
- Statements
- Graphics
- Strings
- Classes
- Files
- Arrays
- **`ArrayList`**
- **`HashMap`**
- Collections
- Images
- Interactors
- Graphs
- Networking

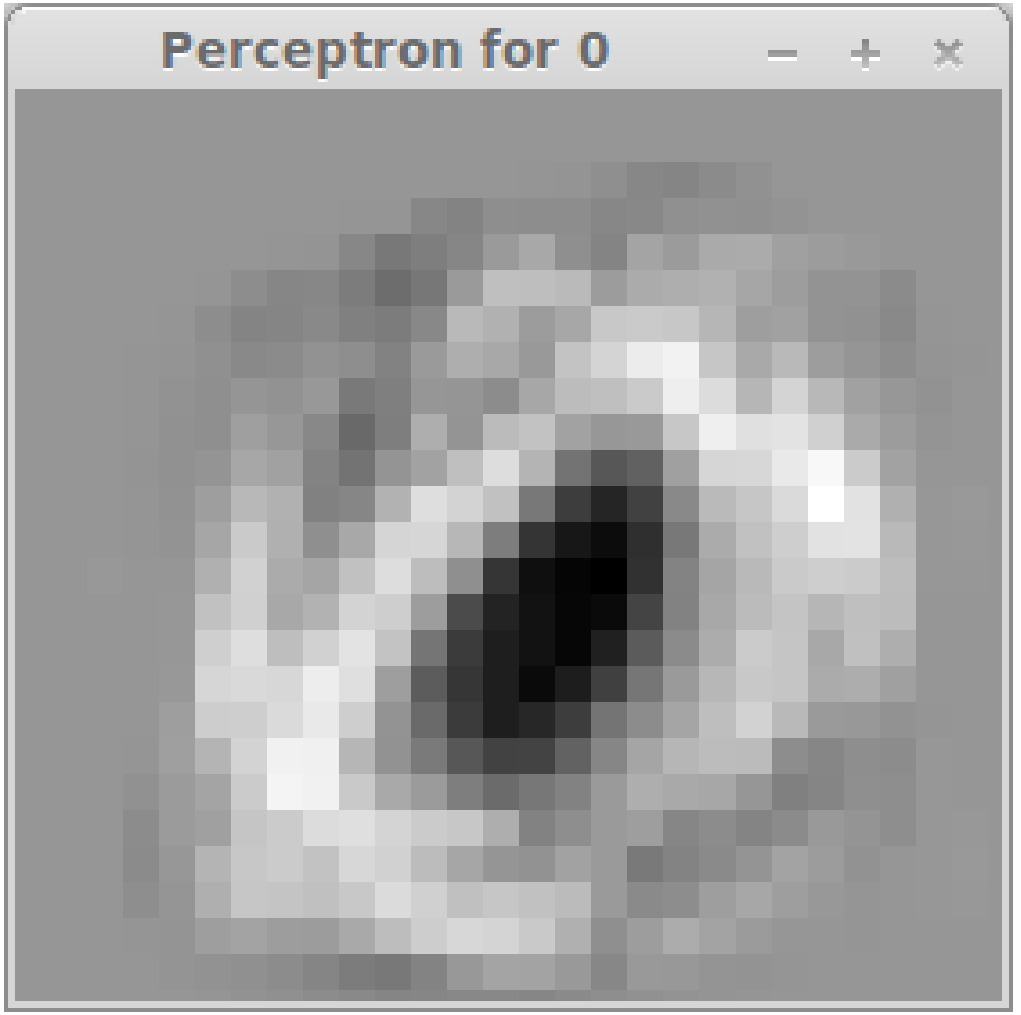

FirstKarelProgram
File
Start Program
Load World
New World
Edit World
Slow
Fast
3
2
1
1
2
3
4
5


ChaosGame
File
Edit


SeeTheUS
File
Edit


XKCDColors
File
Clear
Enter color:
Bright Green
Graph


WikipediaGraph
File
Edit
Read 1097670 articles.
Read 32486853 links.
1: United States
2: United Kingdom
3: France
4: England
5: Canada
6: World War II
7: English language
8: Germany
9: Australia
10: India
11: London
12: Italy
13: China


Perceptron for 0

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Where We've Been

Variables

Methods

Loops

Statements

Graphics

Strings

Classes

Files

Arrays

`ArrayList`

`HashMap`

Collections

Images

Interactors

Graphs

Networking

Where We've Been

- **Learn how to harness computing power to solve problems.**
- To that end:
  - Explore fundamental techniques in computer programming.
  - Develop good software engineering techniques.
  - Gain familiarity with the Java programming language.

Where We're Going: CS106B

- **Learn to model and solve larger and more complex problems.**
- To that end:
  - Explore how to solve a broader and more impressive array of problems.
  - Learn new abstractions for modeling complex problems.
  - Understand algorithmic efficiency and how design decisions influence program runtime.


Which image re
following cod
>> im = imread('rainbow.jpg');
(1:floor(end/2),floor(end/2)+
part)
c)
Cynthia Bailey Lee
Timeline
About
Photos 50
Friends 482

Another Option: CS106X

- “Honors” version of CS106B.
- Covers all of the CS106B material, plus some extra additional topics.
- Not offered next quarter; usually offered Fall/Winter.

Computer science is no more about computers than astronomy is about telescopes, biology is about microscopes or chemistry is about beakers and test tubes. Science is not about tools, it is about how we use them and what we find out when we do.

- Michael Fellows and Ian Parberry,
"SIGACT trying to get children excited about CS"

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Who's Here Today?

- Applied Physics
- Art History
- Art Studio
- Biology
- Biomedical Informatics
- Biophysics
- Business Administration
- Civil/Environmental Engineering
- Classics
- Chemical Engineering
- Communication
- Comparative Race and Ethnicity
- Earth Systems
- Economics
- Electrical Engineering
- Engineering
- English
- French
- Genetics
- Geological Sciences
- Geophysics
- History
- Human Biology
- Immunology
- International Relations
- Italian
- Law
- Linguistics
- Management
- Materials Science
- Math and Computational Sciences
- Mathematics
- Mechanical Engineering
- Medicine
- Modern Languages
- MS&E
- Music
- Political Science
- Physics
- Psychology
- Sociology
- Science, Technology, and Society
- Slavic Languages and Literature
- Statistics
- Symbolic Systems
- Theater and Performing Arts
- **Undeclared!**
- Urban Studies

You're ready to take on big, important challenges with the skills you've just learned.

Best of luck wherever they take you!