

Module 3: Resources

- <http://computer.howstuffworks.com/dns.htm>
This source provides an excellent background to how the Domain Name System (DNS) works and what IP addresses are. The first page of this website would be sufficient for an instructor to understand what is needed to proceed with this project.
- <https://docs.oracle.com/javase/tutorial/essential/regex/index.html>
This online lesson explains how to use Regular Expressions in Java. This will be useful if you require students to perform the part of the project that finds the IP addresses in the output to the traceroute command. That is, since an IP address in IPv4 standard takes on the form of #.#.#.# (where # represents a number) you can use regular expressions to find this pattern in the output. The code provided as part of this module shows how this could be implemented, but this resource gives further explanation of regular expressions for the interested student.
- <http://www.wired.com/2013/07/projection-mercator/>
This article gives a brief overview of what a Mercator projection for a map is and why it is used. This is not explicitly necessary to cover with the students, but is a short informative read if you would like additional information on the map projection used for this project.
- <http://www.mediacollege.com/internet/troubleshooter/traceroute.html>
This website gives a brief overview of the output to the traceroute command. It explains what some of the extra information given as output to the traceroute command means (that is not used in this project). In addition, it shows where the IP addresses are found in the output of the traceroute command which is an essential part of getting this project to work.