Tech Savvy Computing Camp

Instructors
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Principle
Organizer
Wei Ding

You can control the world

- Banking
- Movie Graphics
- Military
- Better Decisions
- No Restrictions

Hacking and Security

Security Analyst - http://www.securityfocus.com/

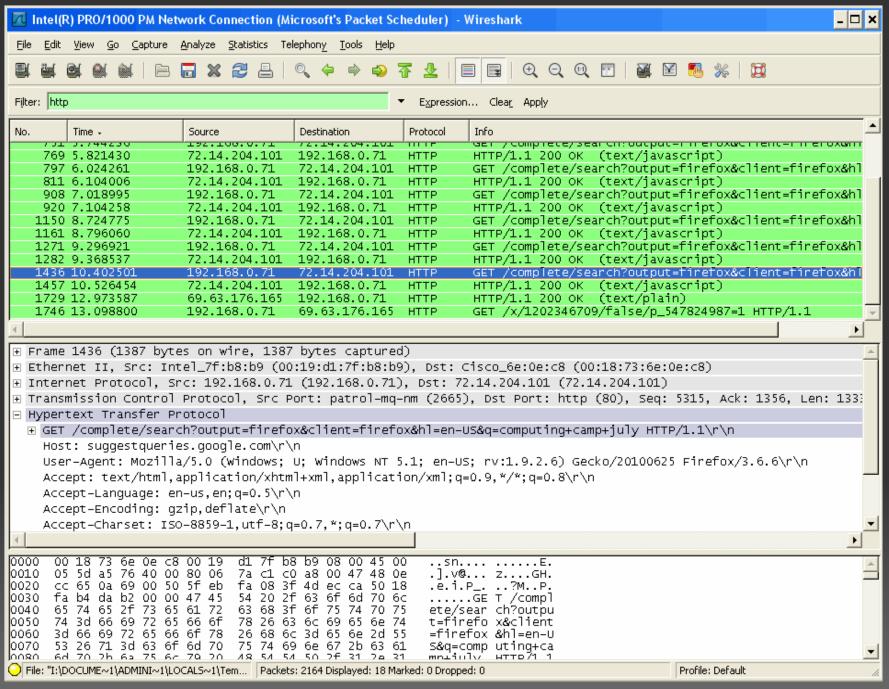
Open Communication

CraigsList
CraigsList
Twitter
PGP

Cure Diseases

Human Gnome is in a digital format

Packet Sniffing



3 Sorting Games

Split the class into 2 groups. Each member of one group will sort the other group.

Each person has a sheet of paper with a number on it. They will hold it so it can not be seen.s

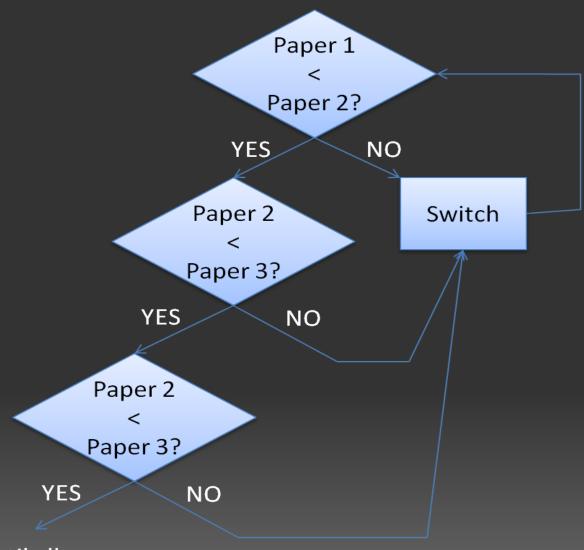
Rule 1: You can only turn over 2 papers at once

Rule 2: You can only switch 2 people at a time

Self Sort

Try to put everyone in order without an algorithm

Bubble Sort



... Until all paper have been checked.

Quick Sort

function quicksort(array)
var list less, greater
select and remove a pivot value pivot from array
for each x in array
if x ≤ pivot then append x to less
else append x to greater

What did you just do?

You used an algorithm to solve that problem.



Processing

 Open up example/Basic/Math/arctangen

2. Edit Source Code

- 1. Change the size of canvas to (600,600)
- 2. Move an Eye to the center of the canvas
- 3. Change the size of the eye.
- 4. Change the background color.
- 5. Change the Eye color.
- 6. Change the movement of the Eye
- 7. Ask the student to create a new eye.



Go through figure skater tutorial

Programming Contest

We will perform a movement of the figure skater and first one to copy it wins that game

There will be 5 games

Best out of 5 wins