

# Project I:

What's in a computer, anyway?!



# Objectives

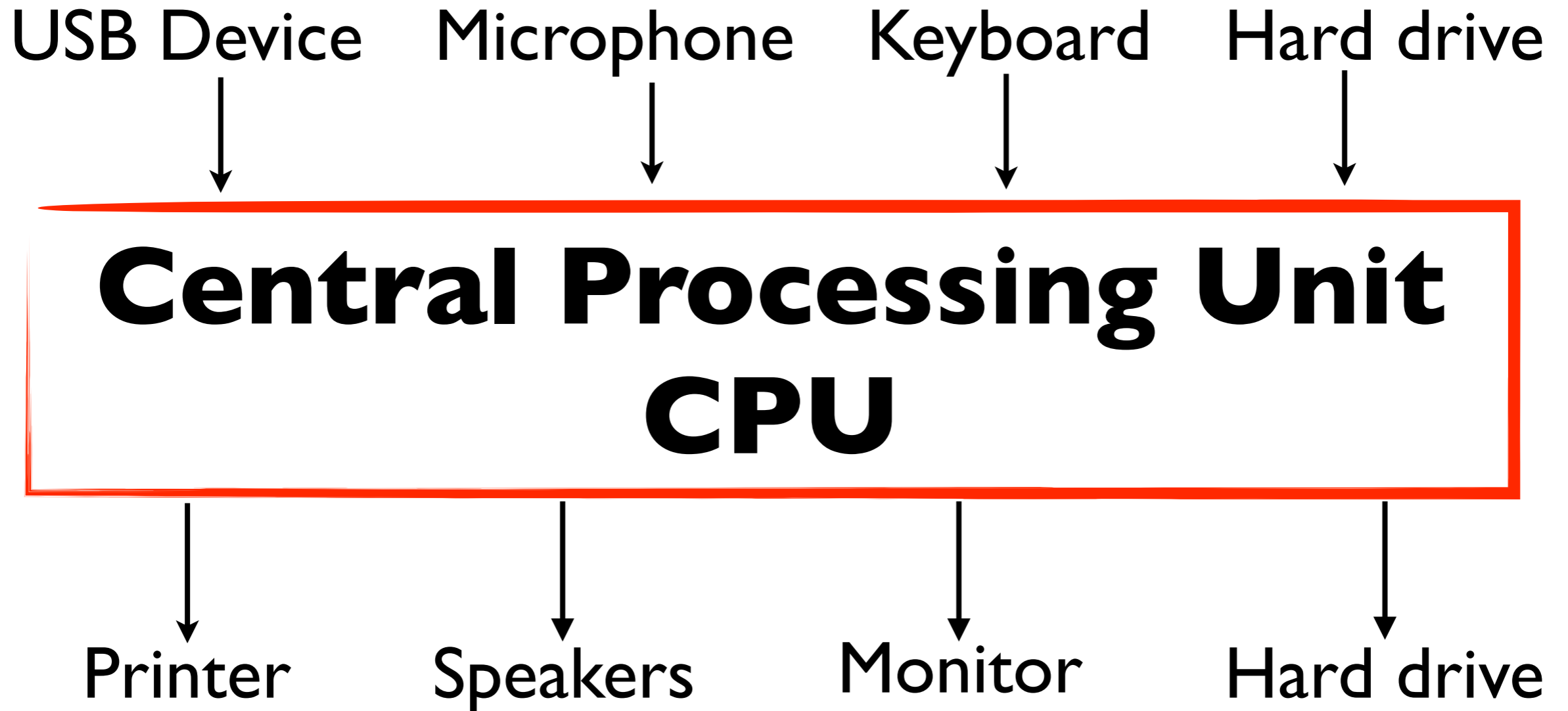
- Learn about computer components
- Practice finding good Internet resources
- Learn about Word Styles

# Computers are digital

- Binary: all data is stored as ones and zeroes
- Computers translate from analog to digital and sometimes back to analog



# Data processing



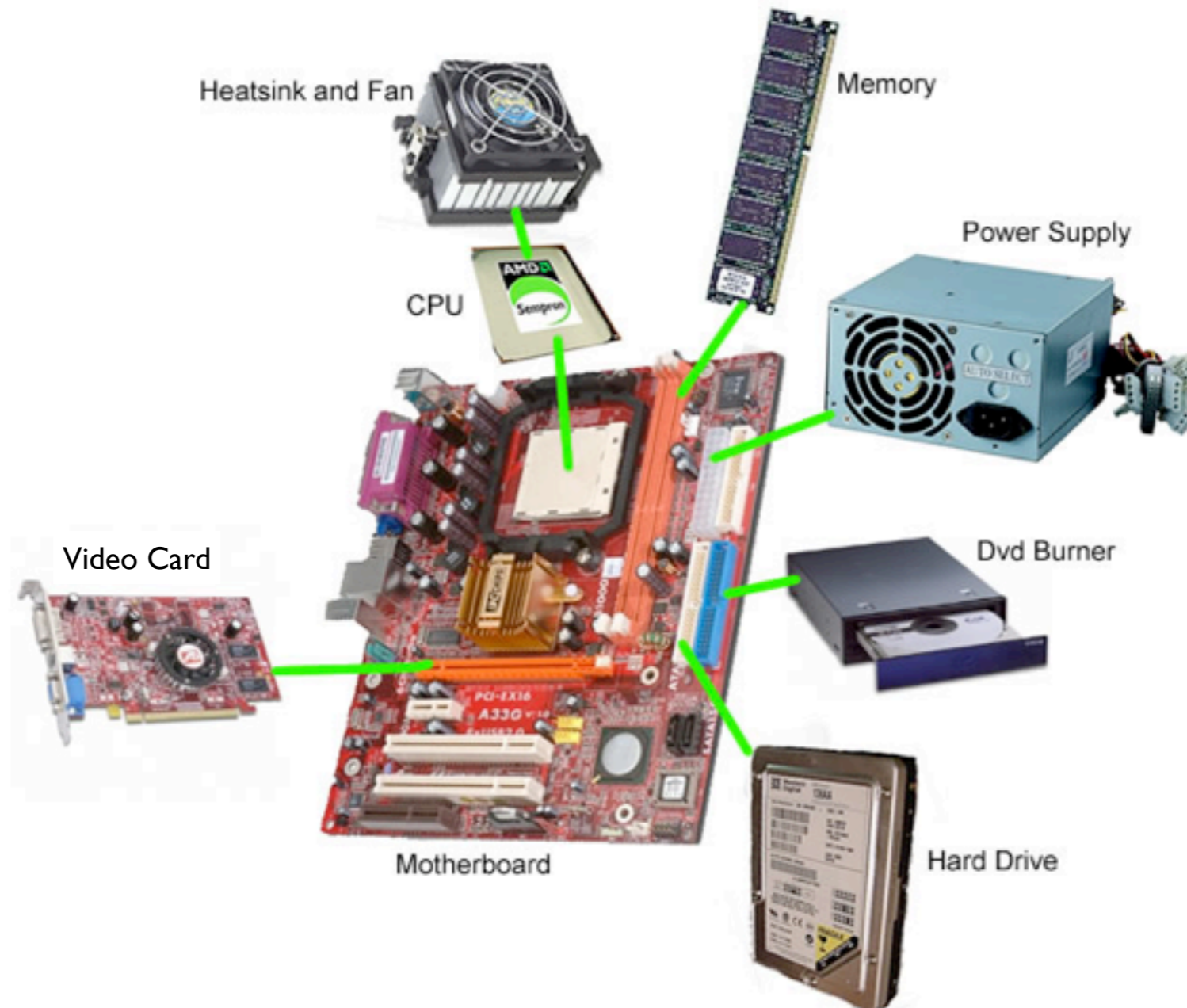
# Programming

- Tell the CPU what to do: input to read, how to process it, what output to produce
- Makes computers flexible
- Programs always translated to 1s and 0s

```
counter = 0
```

```
while counter < 10:  
    print "programming is fun!"  
    counter = counter + 1
```

# Motherboard



# Dissecting a computer

- You will be assigned a group
- Take pictures of components
- Read about the components
- Write a report
  - Sequence of steps
  - Journey through the computer
  - Components

# Requirements

- Each group member must write at least two pages
- Each group member must use at least two pictures
- Your group must have an introduction and a conclusion
- Your group must use a total of at least 5 different styles

# Your tasks today

- Get to know your partners
- Decide on a report organization
- Start taking pictures and exploring!
- Start your individual Word document

# Word styles

- Consistency
- Easy modification
- Efficiency
- Automatic tables of contents
- Working in outline view



UPGRADING AND REPAIRING PCs

New Inside the PC

RESPONSE

XP REGISTRY

of the U.S. Department of the Treasury

COMPUTER TRAINING

Computer Law and Procedure

U.S. DEPARTMENT OF JUSTICE

Clipboard with a document containing text and a table.

# Image sources

- laptop blueprint: [http://support.dell.com/support/edocs/systems/psyd/sm4\\_13.gif](http://support.dell.com/support/edocs/systems/psyd/sm4_13.gif)
- parts: [http://img.alibaba.com/photo/11917799/Computer\\_Parts\\_Components.jpg](http://img.alibaba.com/photo/11917799/Computer_Parts_Components.jpg)
- keyboard: [http://www.codinghorror.com/blog/images/deck\\_keyboard.jpg](http://www.codinghorror.com/blog/images/deck_keyboard.jpg)
- speakers: <http://www.uncrate.com/men/images/audioengine-5-speakers.jpg>
- microphone: <http://www.lifehack.org/wp-content/files/2007/11/microphone.png>
- monitor: <http://www.metaefficient.com/wp-content/uploads/dell-207-epeat-gold-monitor.jpg>
- motherboard: [http://www.vcs-techs.com/images/computer\\_parts.jpg](http://www.vcs-techs.com/images/computer_parts.jpg)
- camera: [http://www.mobilewhack.com/images/panasonic\\_vdr\\_d400\\_dvd\\_video\\_camera.jpg](http://www.mobilewhack.com/images/panasonic_vdr_d400_dvd_video_camera.jpg)
- police officer: [http://www.michigan.gov/images/computer\\_crimes\\_taking\\_apart\\_computer\\_159865\\_7.jpg](http://www.michigan.gov/images/computer_crimes_taking_apart_computer_159865_7.jpg)