Project 1 up this Friday

CSC104 fall 2012

Why and how of computing week 7

Danny Heap heap@cs.toronto.edu BA4270 (behind elevators)

http://www.cdf.toronto.edu/~heap/104/F12/ 416-978-5899

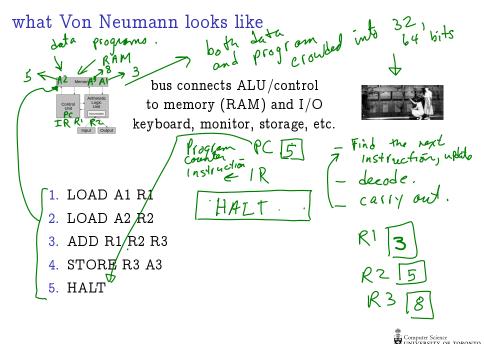
Text: Picturing Programs



Outline

hardware architecture

Notes



where Von Neuman's going

There are some issues

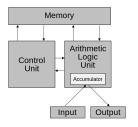
- ► Von Neumann bottleneck) Speed & Size hocket at but.
- mortality of Moore's Law hotter. as gett smaller,

 limber & wires resolved by light

 yength. photo lithography

input, output

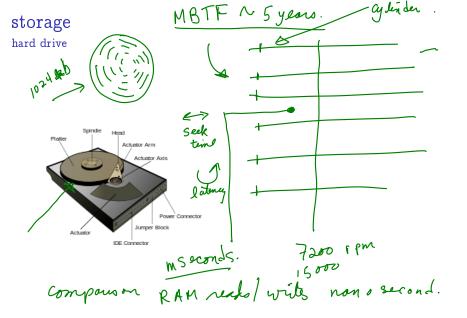
for geezers



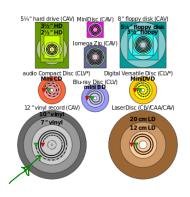


lots of real estate to get ideas in, out doesn't fit in pocket





storage compact disc



In formation

Stored + read

laser changes Lisc

surface.

solid state drives storage flash drive - slow) longer portions

- slow) longer memory
with
each
(except for electrons) usb, 550 in formation stored in electron chamber.

bits, files, buffers

protect us from the machine an J it from as!

"huffer" between numers + madine.

Plate Spirite Food
Actuator Arm

compater buffers in for motion in RAM Shakespeare



files contain text (or numbers) they also contains, nomes files.

Notes

