

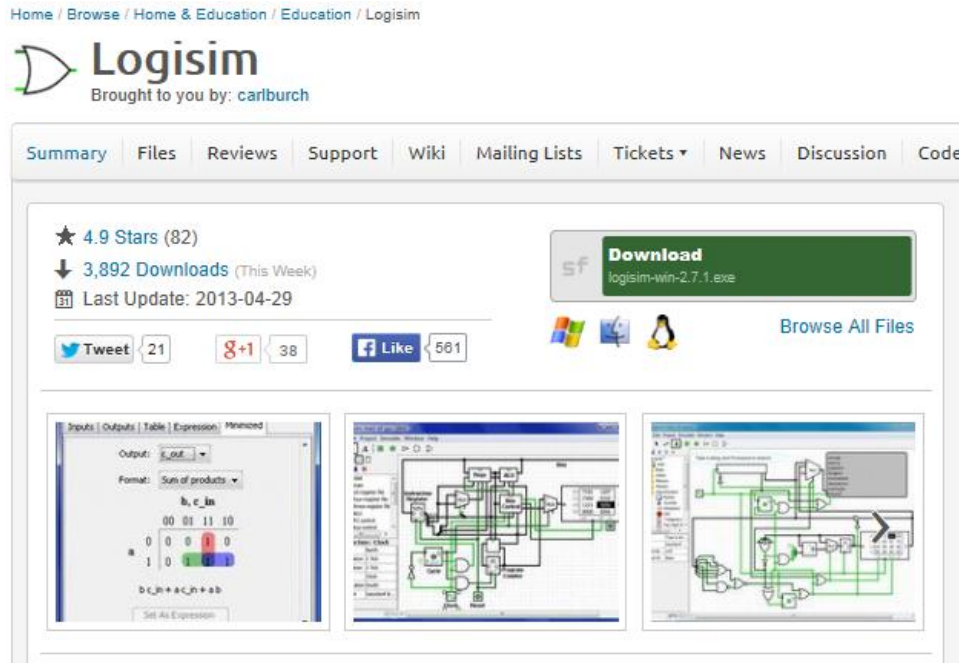
COMP2611: Computer Organization

**Administrative issues and downloading
the Logisim/Mars software**

- ☐ You are required to attend the lab every week.
- ☐ We will take attendance for the labs and this attendance record for statistical reasons.
- ☐ Any other issues from you?

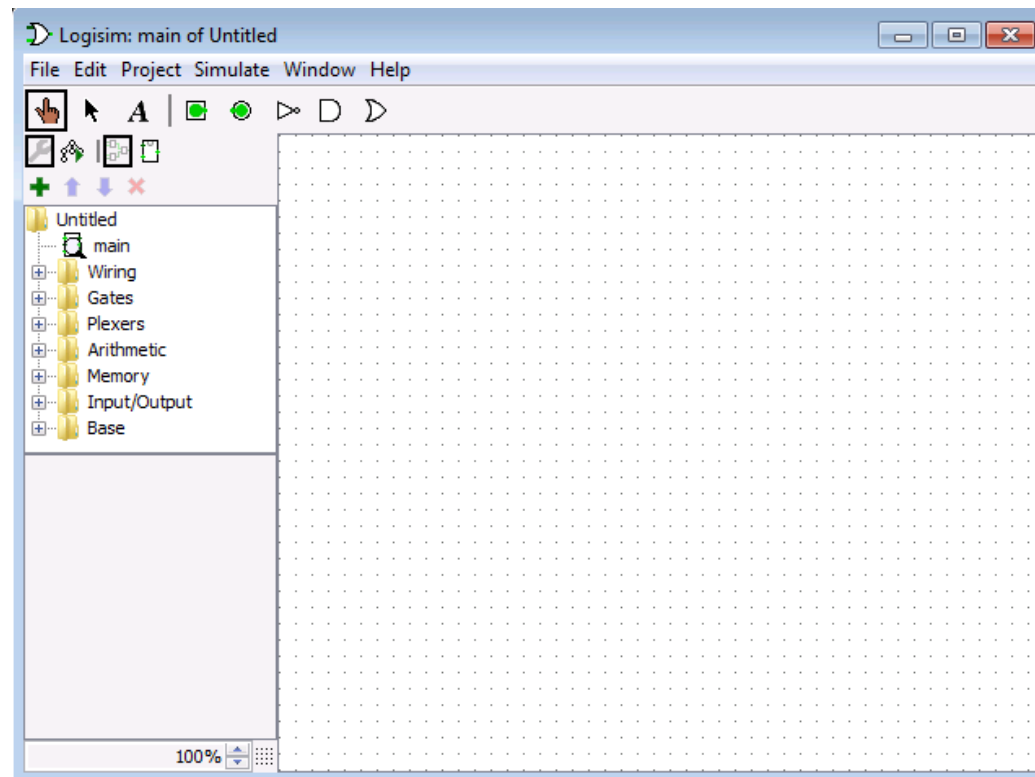
- ❑ Logisim is an interactive graphical interface for
 - ❑ designing,
 - ❑ simulating digital logic circuits.
- ❑ It is developed by Carl Burch of the Hendrix college, USA, in 2001.
- ❑ It runs on any platform that has **Java runtime** installed (version 5 or above required).
- ❑ We will illustrate in this lab how you can download the software and use it to design and test simple combinational logic circuits.

- ❑ To download Logisim you can go to the following link :
<http://sourceforge.net/projects/circuit/>
- ❑ Then you will see the following:



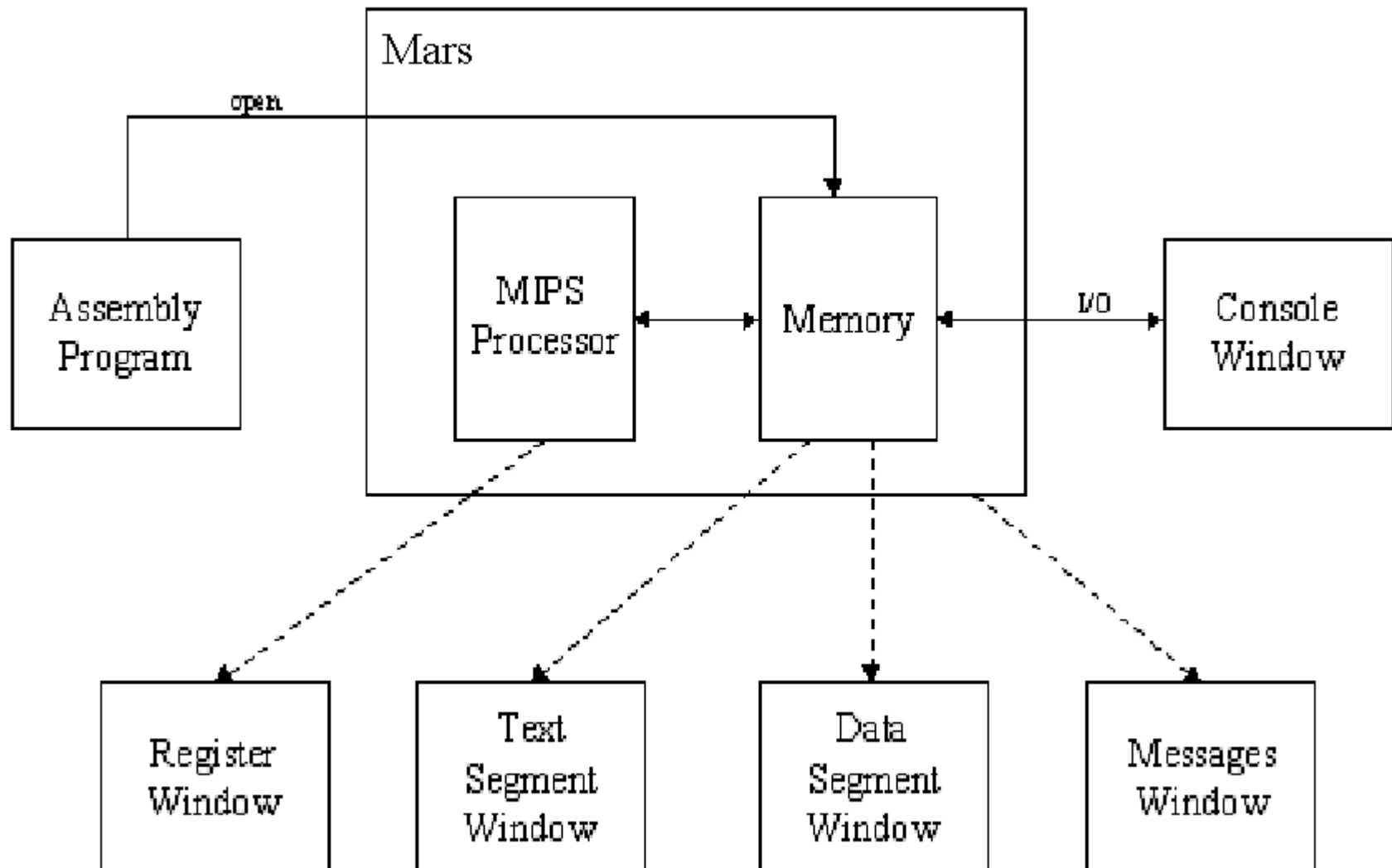
- ❑ Click on the green download button and follow the instructions to download.

- ❑ Now you have downloaded the executable file of Logisim (windows) : [logisim-win-x-y-z.exe](#)
- ❑ Logisim does not need installation, just double click on the downloaded file and you will be running Logisim!



- ❑ Today we have gone through:
 - ❑ some administrative issues,
 - ❑ how downloading Logisim to your PC.

- ❑ MARS is a MIPS computer simulator.
- ❑ It can execute MIPS assembly programs by emulating itself as an actual MIPS computer.
- ❑ It provides some, but not all, operating system services which you will see later.



- ❑ Before running MARS, you need Java Runtime Environment (JRE) of Java SE 5 (also called Java 1.5) or later installed. It is already done in the lab room.
 - You can choose the version of JRE to download on this website <http://www.oracle.com/technetwork/java/javase/downloads/index.html>
 - Note that even if you use 64-bit Windows, you can still download and install 32-bit (not only 64-bit) version of JRE on your Windows.
 - To install JRE, double-click or run the downloaded file and follow its installation instructions.

- ❑ To get MARS and run it
 - Browse the official site
<http://courses.missouristate.edu/KenVollmar/MARS/>
 - Follow the instruction there (e.g., on the Download section) to download and run MARS.
 - You can just download MARS from
https://course.cse.ust.hk/comp2611/Password_Only/MARS_4_1.jar, too. Then double-click the downloaded .jar file in Windows to run MARS.
- ❑ The Help manual of using MARS can viewed by selecting the Help->Help menu command on MARS.

