

2018-09-04 Variables & Commands - C++

Tuesday, September 4, 2018

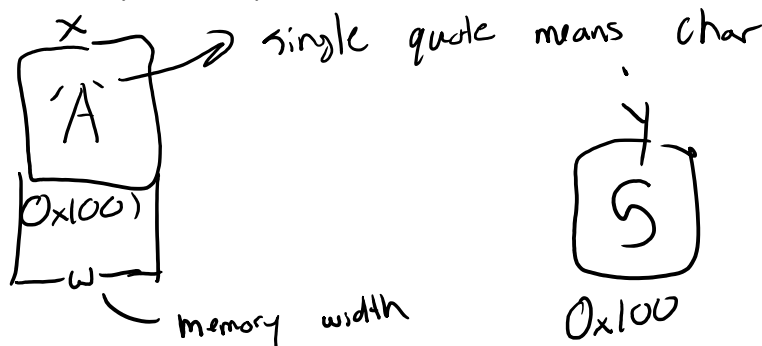
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Announcements

- Next programming assignment assigned
- Participation activity (on canvas) due tomorrow evening
 - What do you feel is going well for you in this class?
 - What is not going so well in this class.

Lecture

- In terms of variables, everything in C++ boils down to either an integer or a decimal value (double). *not things are*
- Stacked on top of this are the following data types:
 - int - basic integer that we all know love. Valid range is between either 0 and 2^{32} OR -2^{31} and 2^{31} *default range*
 - Bool - boolean values (TRUE / FALSE) -> ACTUALLY 1/0
 - Char - A single character value. These also map to integer values. (ASCII Table)
 - Double - A decimal value.
- Attached to are additional data types that modify the precision of the base data type
 - e.g. short --> -256 to 256
 - Long int --> up to 2^{64}
 - (maybe) long double --> way bigger than a double
 - C++ only string - An array (sequence) of chars
- In C++, all variables take up a fixed amount of space. This space CANNOT be altered.
- Our variable "cubbyhole metaphor"



- Variable big picture view

