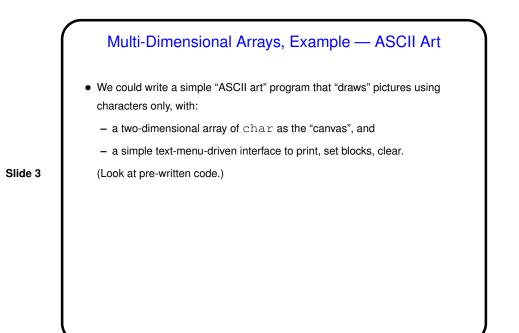
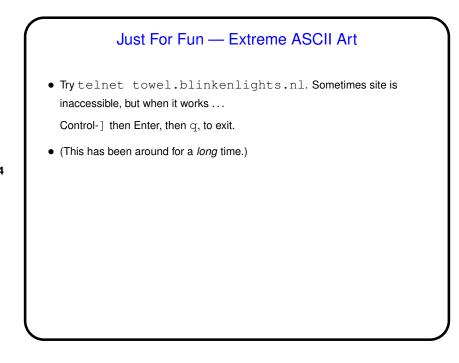


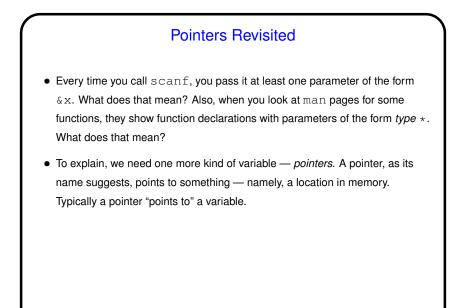
Multi-Dimensional Arrays in C — Recap/Review
Multi-dimensional arrays can be quite useful, and many languages support them pretty well. C, alas — not so much.
For small arrays, VLAs work well.
Tor large arrays, other options are better. More later.

Slide 2





Slide 4



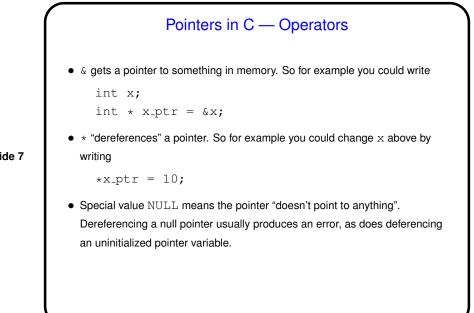
Slide 5

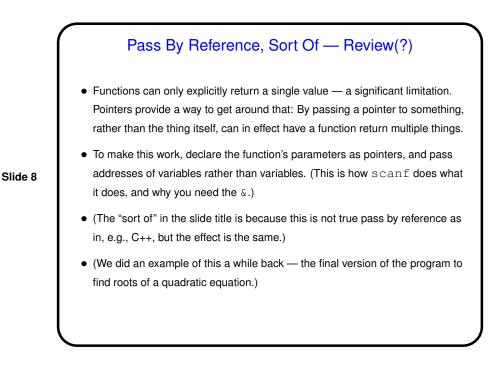
Slide 6

Pointers in C
Many programming languages provide something like pointers. Unlike some more-recent languages, C allows you to have both pointer variables and non-pointer variables.
To a first approximation, C pointers are just memory addresses — i.e., numbers — but they are declared to point to variables (or data) of a particular type. Examples:

int * pointer_to_int;
double * pointer_to_double;

Can display value of pointer using printf with %p. Sometimes interesting in exploring how variables are laid out in memory (implementation-dependent).





Slide 7

