

Week 8.1

Recall

Loops & Data structures

Loops?



- ◆ Something happening over and over

Why?

- ◆ Repeated work
- ◆ Simplify logic
- ◆ Automata theory

Examples

Data Structures?

- ◆ Optimizing structure of data for humans

why

- ◆ Are some structures more intuitive than others?

Examples

“There has been a great deal of nonsense
written... about the mysterious fourth
dimension. ...4-dimensional space just consists
of points with four coordinates instead of three”

- John Conway (wikiquote)

C++ & loops

C++ style loops

- ♦ Iterating consists of traveling through a set

C++ DS

C++ Data 'struct'

- ◆ Used to structure data in a declarative way