CS 161, Lecture n-1: Structs and Objects

Objects

- The world is filled with them
- Often made of mixed types
- Examples:

Structs – Objects without functionality

 Structs are user defined types that have multiple types struct book { char* title; char** authors; int num_pages; book text book;

text_book.num_pages = 500;

Use of Structs

```
    Can use the same way as any other type

book* bookshelf = new book[10];
for(int i=0; i<10; i++) {
      bookshelf[i].num pages = 100;
      strcpy(bookshelf[i].title, "Place holder");
      bookshelf[i].authors = new char*[2];
      for(int j=0; j<2; j++)
             bookshelf[i].authors[j] = new char[256];
```

Demo