Module 1: Functions and Organization
Topic 2.1: Well-written Functions

Understandability

- Code is **functions** and **data**

- If you are asked to **find a feature**, you can find it quickly
  - "Where is the function that blurs the image?"
  - "Where do you compute the average score?"

- If you are asked about **where data is used**, you know
  - "Where do you modify the record list?"
  - "Where do you access the file?"

Debugging Principles

- Code crashes inside a function

- Two options for the cause

1. **Function is written incorrectly**

   – Sorts a slice in the wrong order

2. **Data that the function uses is incorrect**

   – Sorts slice correctly but slice has wrong elements in it

Supporting Debugging

- Functions need to be understandable
  - Determine if actual behavior matches desired behavior

- Data needs to be traceable
  - Where did the input data come from?
  - Global variables complicate this