LOOPS & CONDITIONALS

if (object on plate):
    if muffin!
    if unless something is horribly wrong

A conditional helps you decide whether to do an action or not. How do we decide on the right judgment call?

How do we treat different things?
// or chihuahua
// find out if blueberry muffin

for (image in dataset):

A loop helps you repeat an action many times. What factors are overlooked when working at a large scale?

There are different data types we use to group data:

Arrays and lists are simple rundowns of data.

$list = [3, 4, 5, 6, 7]$

$list = ['peach', 'eggplant', 'pear']$

Dictionaries and objects contain pairs of values, where each item has a key assigned

dict = { 'key': 'value'; 'name'; }
{ 'Sarah'; 'color': 'teal'; }

Sets are special lists that forbid duplicates, which can come in handy!

Any of the above data types can be stored in a variable that your name values, whatever you want.

VARIABLES

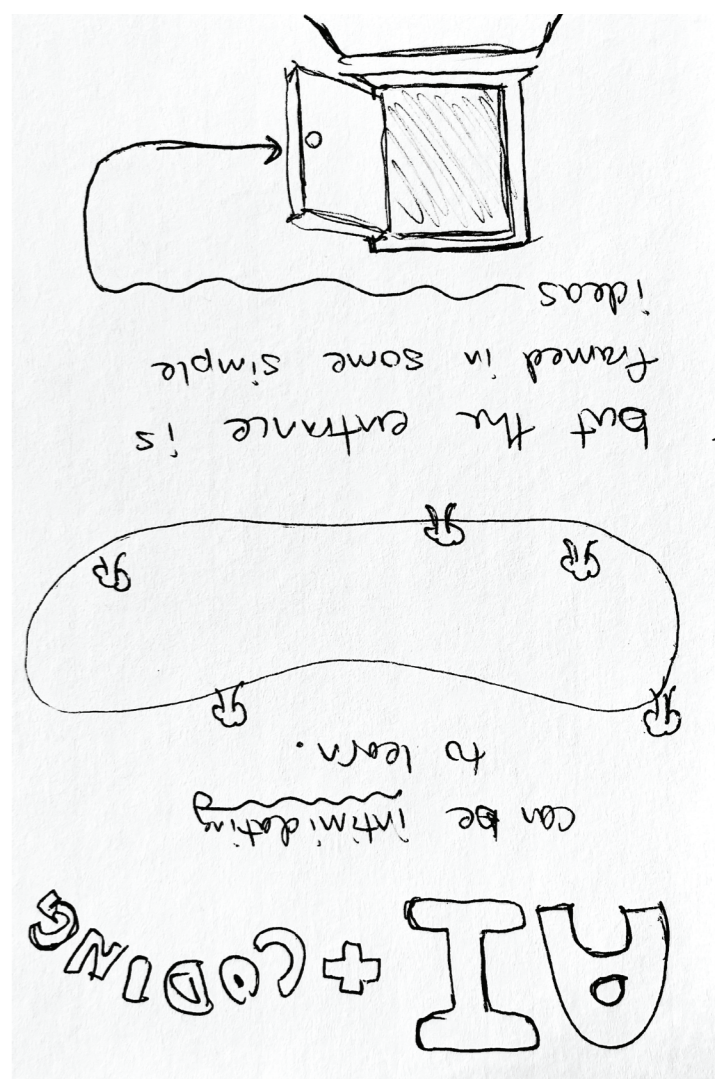All code is built from just a few key concepts NO MATTER THE SCALE OR COMPLEXITY!

data types: text/string=... integer=100 float=0.25 boolean=True (or False) or Null

↑ Variable

let X = 1

Variables are labeled containers for information. Here X is a variable storing the value 1. Later you can use x, or ask what it equals, or change it to X=3 (and most time you ask the answer will be different) psst you decide what to name your variables

ENCODE ⇌ DECODE

Naming has power. You are deciding what information means.

eg. the weight of a feature in an ML model or the threshold that demarcates a color

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AI + CODING

can be intimidating to learn.

but the entrance is
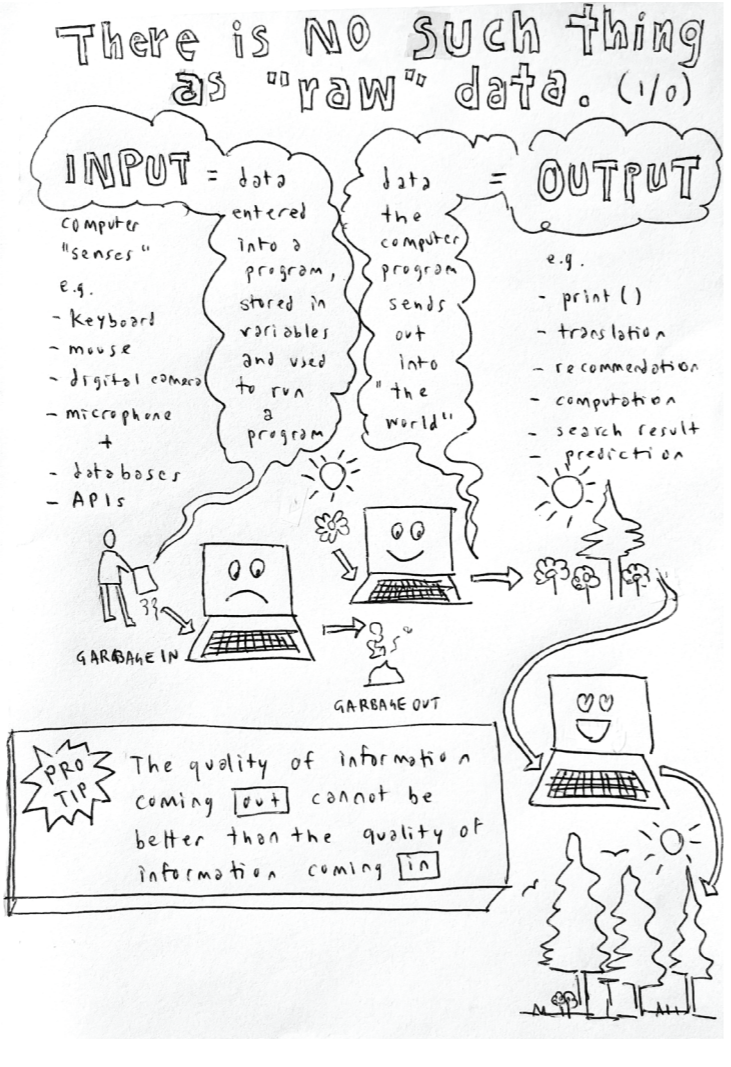
Framed in some simple

ideas!

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functions

{ are a way to organize and re-use code, along with it's embedded ideas and values }

Wow, that's some useful code!

What about those ideas though?

Bag of reusable code (and ideas)

The more functions you organize your code into, the easier it is to re-use in later projects.

There is NO SUCH thing as "raw" data. (1/0)

INPUT = data entered into a program, stored in variables and used to run a program

computer "senses" e.g.
- Keyboard
- mouse
- digital camera
- microphone
- databases
- APIs

data the computer program sends out into "the world" = OUTPUT

e.g.
- print()
- translation
- recommendation
- computation
- search result
- prediction

GARBAGE IN

GARBAGE OUT

PRO TIP: The quality of information coming [out] cannot be better than the quality of information coming [in]

The Intersectional AI Toolkit argues that anyone should be able to understand what AI is and help shape what AI ought to be. It gathers ideas, ethics, and tactics to build more ethical, equitable tech—showing how already established queer, anti-racist, anti-ableist, feminist communities contribute necessary perspectives to reshaping the digital systems that affect us all.

This edition features collaboration by Katherine Yang, Miguel Mercado, evelyn masso, Emily Martinez, and Sarah Ciston. See more issues at…

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intersectional AI toolkit

Help Me Code Intersectional AI