

UC San Diego

CSE6R NOTES

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SP23

Table of Contents

1	The Basics	1
1.1	Variables	1

The Basics

1.1 Variables

We pass data to the computer through the use of **variables**. Variables can be assigned a value which will have a **basic data type** and can be plugged into expressions like in math. Basic Data Types:

int - Holds any **whole number**.

Example

```
1 example_one = 9
```

float - Holds any **decimal**.

Example

```
1 example_two = 3.845
```

bool - Holds either **True** or **False**.

```
1 example_three = False
```

str - Holds **one or more characters**, represented with double or single quotes. (Note that it is common to call variables of type str as strings)

Example

```
1 example_four = "This is a string."
```

Note that in Python we can assign multiple variables in one line as shown in the example below.

```
1 foo, bar, baz = True, "Gauss", -2.3411
```