Floats

Let's take a look at another numerical data type in Reason.

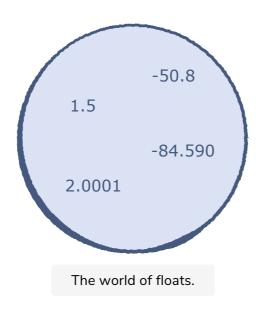
WE'LL COVER THE FOLLOWING ^

- Definition
- Arithmetic
- Comparison

Definition

The **float** data type contains positive and negative decimal numbers.

Floats behave very similar to integers, but their storage in memory is different. Although a float also occupies 4 bytes, the bytes represent a decimal rather than a whole number.



Apart from Js.log() (prints in a new line each time) floats can also be printed using print_float() (prints in the same line).

Arithmetic

And medic #

In Reason, float arithmetic requires a . succeeding every operator. For example, the addition operator, +, turns to +...

```
Js.log(8.5 +. 6.0); /* 14.5 */
Js.log(19.63 /. 3.15); /* 6.231746031746032 */
Js.log(19.63 *. 3.15); /* 61.8345 */

/* Alternate method */
print_float(10.5);
```

In the code above, we can observe that a float is accurate to several decimal places, especially in the case of division or multiplication.

Comparison

The comparison between float values is exactly identical to that of integers.



That's it for our discussion on numerical data types. Next, we'll look at the **character** data type.