## Characters

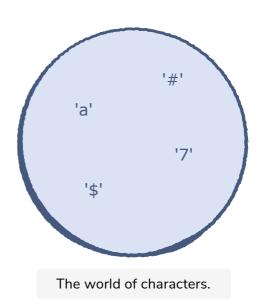
In this lesson, we'll learn about the features of characters.

WE'LL COVER THE FOLLOWING  $\wedge$ 

ASCII Values

## Characters

The character data type holds a single character enclosed in single quotation marks, e.g. 'a'.



A character occupies 1 byte in memory.

It can be printed using the print\_char() method.

Every character has a numerical ASCII value. Using <code>Js.log()</code> on a character will print its ASCII value.

```
print_char('b'); /* b */
Js.log(""); /* Next line */
Js.log('b'); /* 98: The ASCII value of b */

print_char('?'); /* ? */
Js.log(""); /* Next line */
Js.log('?'); /* 63 */
```







**Note**: A character object can never contain more than one value.

Therefore, values like ab or #\$% are not allowed.

## **ASCII Values** #

Characters can be converted to and from their corresponding ASCII values, which implies that characters can be compared using operators.

The Char.code() method returns the ASCII value and Char.chr() retrieves the character from its ASCII value.

```
/* character to ASCII */
Js.log(10 * Char.code('b')); /* ASCII value of b is 98*/

/* ASCII to character */
print_char(Char.chr(98));

Js.log("");

/* Comparision */
Js.log('a' < 'e'); /* 97 < 101 -> true */
```

Next, we'll use characters to create a new data type.