

Strings

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Strings as Language

We like words, so there's lots of them in everyday life. To a computer, these are strings.

“Hey, how are you?”

Creating a String

- `'String'`
- `"String"`
- `"""String"""`
- `str()` (R users don't get confused!)

Whitespace

Newline `\n`

Tab `\t`

Space

Strings as Collections

```
str[index]
```

[illegible]

Strings as Collections

Grab multiple characters:

Str[index_begin:index_end] #half-open

[illegible]

String Operations

Addition

$1 + 1$

But what's '1' + '1'?

Repetition

$1 * 10$

But what's $'a' * 10$?

In

Is this element in the collection?

```
vowels = 'aeiou'
```

```
'a' in vowels
```

```
>> True
```

```
'x' in vowels
```

```
>> False
```

```
'aeo' in vowels
```

```
>> False
```

Immutability

Strings are immutable

```
My_string = 'Hello'
```

```
My_string[0] = 'J'
```

What prints out?