

Variant Types

This lesson showcases the main structure of the variant data type.

WE'LL COVER THE FOLLOWING ^

- What is a Variant?
- Constructors
- The Structure

What is a Variant?

A variant allows us to choose between different data types when creating an object. We are not restricted to a single type as we are with an `int` or `string`.

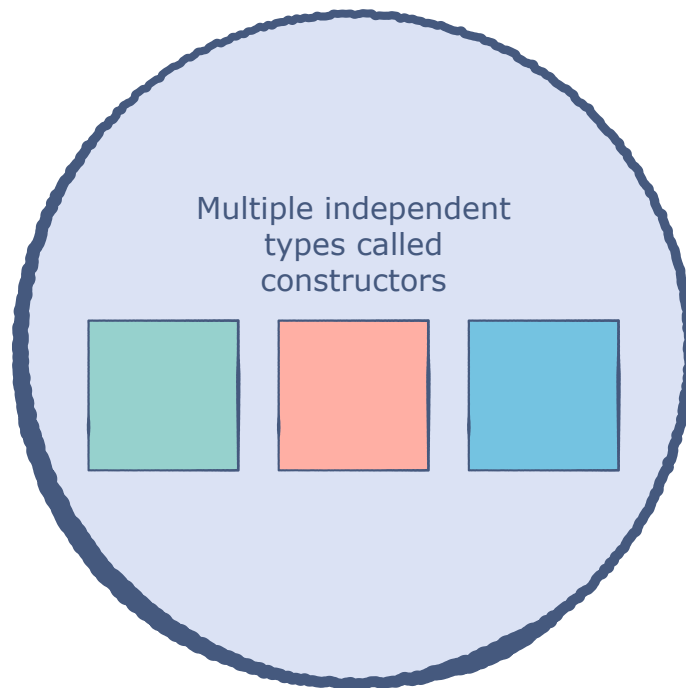
In this sense, a variant can be thought of as a *type containing mutually exclusive types*.

Constructors

The types contained in a variant are not the basic data types provided by Reason. Instead, these types are known as **constructors**.

Their names can be anything and must always start with a capital letter. We'll see the inner workings of a constructor in the next lesson.

Variant



The Structure

Since a variant is a data type, the `type` keyword is used to define it.

Inside its body, the constructors are separated by the pipe operators.

We can find the syntax template of a `variant` type below:

```
type name =  
  | Constructor1  
  | Constructor2  
  | Constructor3;
```



In the next lesson, we'll further explore the constructors of a variant.