## 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? #

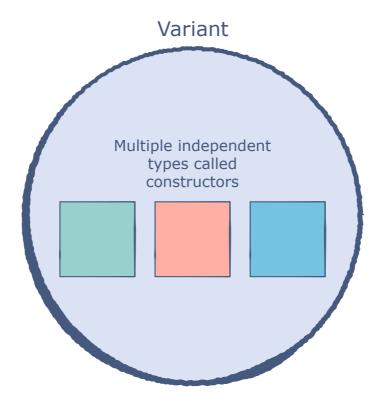
A variant allows us to choose between different data types when creating an object. We are not restricted to a single type as we are with an int or string.

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.



# 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:



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