

# Programming Principals

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## Contents

<b>Contents</b>	<b>1</b>
<b>1 Types and Expressions</b>	<b>2</b>

## 1 Types and Expressions

**Definition 1.0.1** (Type). The type of an expression is “what kind of data” the expression carries.

**Definition 1.0.2** (Variables). Variables are a kind of expression which have an **identity** and a **value**.

The **value** of a variable may change as a program runs, however in a statically typed language, the **type** of each variable is specified before it can be used, and never changes.