## **Dart Data Types - Notes**

#### What is a Data Type?

A data type is the characteristic of a variable that determines what kind of data it can hold. It defines the type of value a variable can store, such as numbers, text, or collections. Dart includes built-in types as well as user-defined ones.

#### 1. int - Integer

```
Used to store whole numbers (positive or negative) without decimal points.

Example:
  int age = 25;
```

#### 2. double - Decimal Number

```
Stores floating-point (decimal) numbers.

Example:
   double pi = 3.1416;
```

### 3. num - Super Type for int and double

```
Can hold both integer and floating-point values.

Example:
   num a = 10;
   a = 10.5;
```

### 4. String - Text or Characters

```
Used to store text.

Example:
```

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```
String name = "TheXcode";
```

#### 5. bool - Boolean

```
Stores either true or false.

Example:
  bool isLoggedIn = true;
```

#### 6. var - Type Inference

```
Automatically detects and assigns the data type based on value.

Example:

var city = "Indore";
```

#### 7. dynamic - Changeable Type

```
Can hold any type of value and can change at runtime.

Example:
    dynamic value = 10;
    value = "Hello";
```

## 8. List - Collection (like Array)

```
Stores an ordered group of values.

Example:
   List<String> names = ["Ram", "Shyam", "Golu"];
```

## 9. Map - Key-Value Pairs

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```
Stores values as a pair of key and value.

Example:
   Map<String, int> marks = {"Math": 90, "English": 80};
```

## 10. Set - Unique Collection

```
Stores unique items (no duplicates).

Example:
   Set<int> ids = {1, 2, 3};
```

#### **Other Dart Data Types:**

BigInt, Runes, Symbol, Null, Object, Function, Future, Stream, Never, Duration, Uri