

# Selenium WebDriver Training

Data Types  
Primitive & Non Primitive

# The Golden Circle

What

## What is data type?

It is the type of value a variable holds

Why

## Why is data type required?

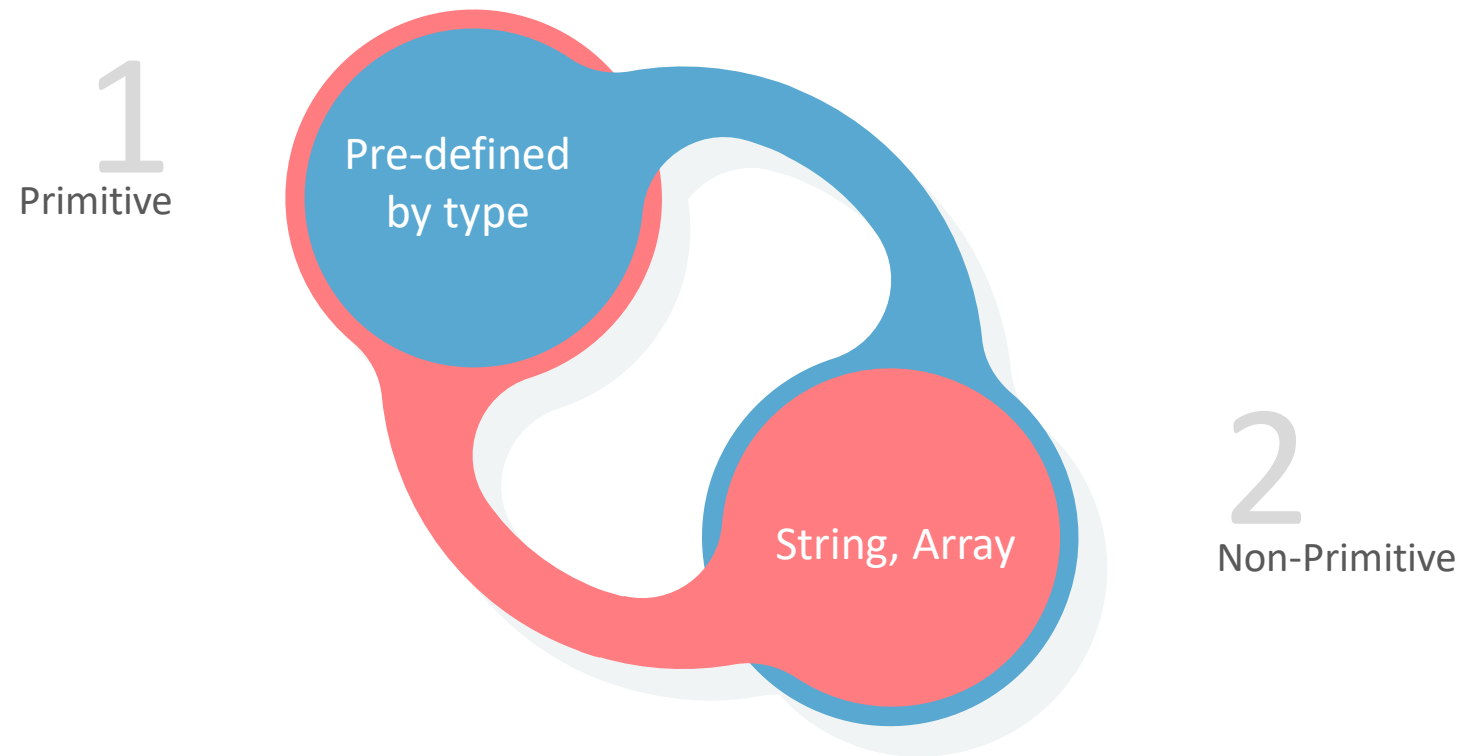
Provide memory (space), operations (methods) specific to data type

How

## How is data type is stored?

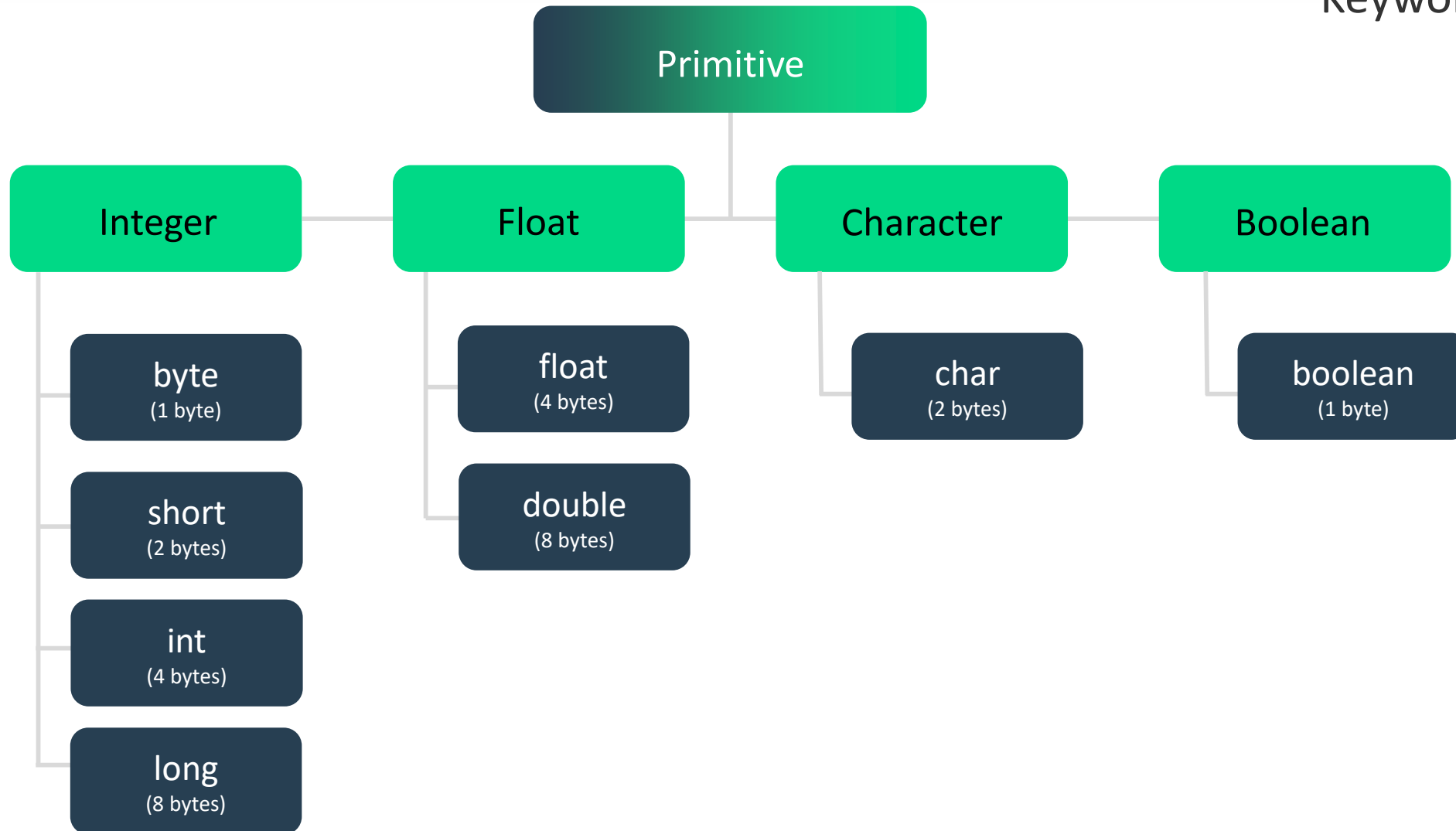
Java stores them using **32 bits of memory**

# Data types



# Primitive Data type

Keywords & Lower case



# Primitive Data Types : Sizes

Data Type	Size	Description
byte	1 byte	Stores whole numbers from -128 to 127
short	2 bytes	Stores whole numbers from -32,768 to 32,767
int	4 bytes	Stores whole numbers from -2,147,483,648 to 2,147,483,647
long	8 bytes	Stores whole numbers from -9,223,372,036,854,775,808 to 9,223,372,036,854,775,807
float	4 bytes	Stores fractional numbers. Sufficient for storing 6 to 7 decimal digits
double	8 bytes	Stores fractional numbers. Sufficient for storing 15 decimal digits
boolean	1 bit	Stores true or false values
char	2 bytes	Stores a single character/letter or ASCII values

# Primitive Data Types : Most commonly used in Selenium

Data Type	Size	Example
int	4 bytes	int maxRetries = 2;
boolean	1 bit	boolean bSuccess = true;
char	2 bytes	char firstChar = 't'

# Things to remember

Data Type	quote	Example
int	No quote	<code>int maxRetries = 2;</code>
boolean	No quote	<code>boolean bSuccess = true;</code>
char	Single quote	<code>char firstChar = 't';</code>
String	Double quote	<code>String browser = "chrome";</code>

# Summary

- Primitive data types are pre-built based on data type : memory
- Non Primitive data types are Java built in classes or user classes
- **Wrapper classes** : Classes written top of primitive data type to access methods



# Classroom Exercise (Breakout)

- Create Integer, Boolean, String data type based variables inside main method
- Print them in the console