

# Intro to Java



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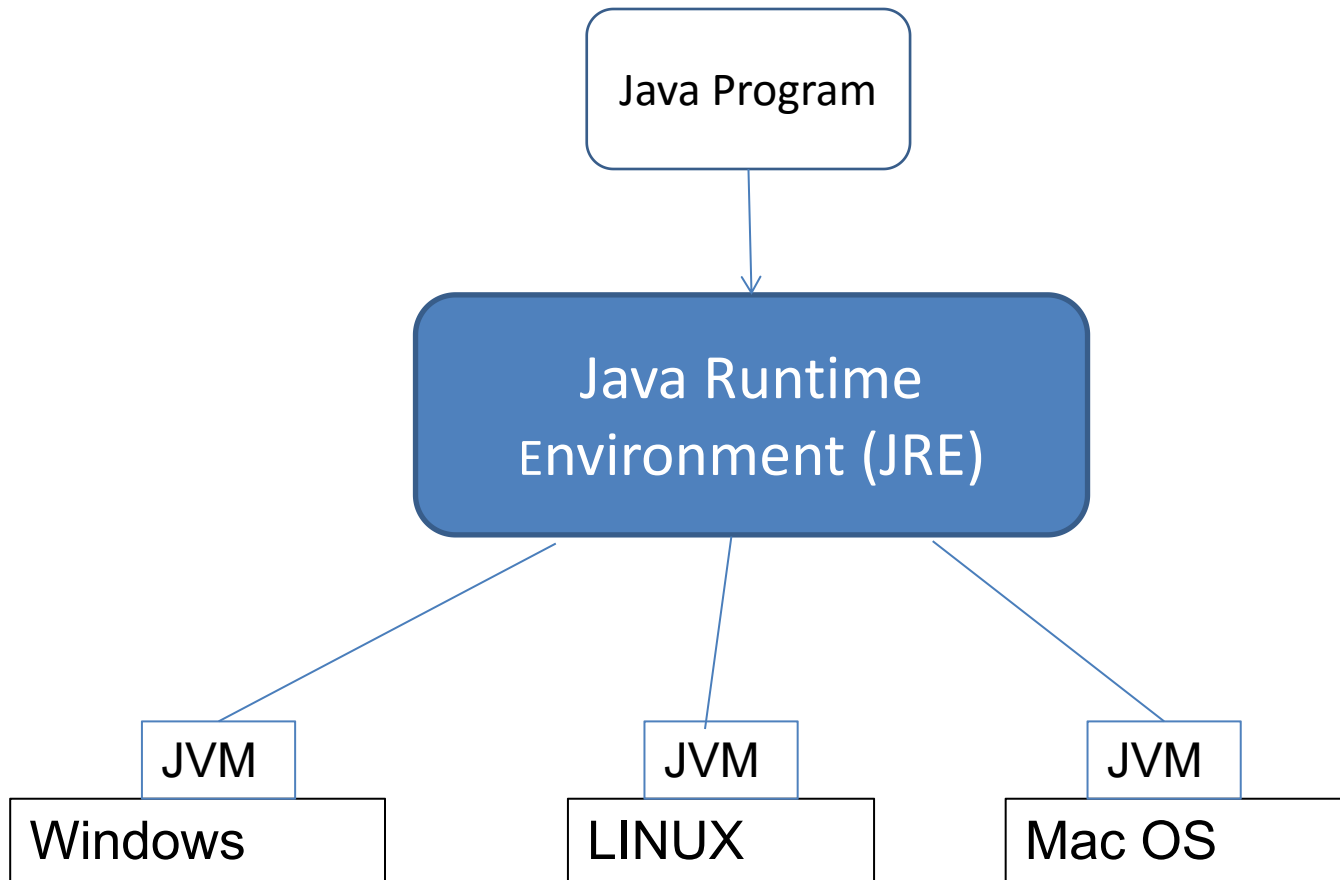
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1. History
2. Characteristics
3. Data types
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# Introduction

- History
- Prime motive
- Platform independent
  - Bytecode - highly optimized set of instructions designed to be executed by the Java runtime system (JVM)

# Java



# Characteristics

- ✓ Simple
- ✓ Secured
- ✓ Robust
  - Memory management
  - Exception handling
- ✓ Object oriented
- ✓ Architecture neutral
- ✓ Multi-threading
- ✓ Distributed - RMI
- ✓ Dynamic

# Data types

■	byte	8
■	short	16
■	int	32
■	long	64
■	float	32
■	double	64
■	char	16
■	boolean	8

Example - data.java


# Type conversion

```
{    int a=260;
    byte b= 60;
    a=b;
    b=a;
}
```

automatic conversion (widening)

**error**

b= (byte) a;      explicit conversion (narrowing)

 type casting

# Type conversion

## Example -

```
{    int a=20;
    byte b= 6;
    a= a+4;
    b= b*2;          error
    System.out.println ("value of a is :" +a);
    System.out.println ("value of b is : "+b);
}
```