

# What is a programming language?

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Programming Basics

```
public class Main {
    public static void main(String[] args) {
        System.out.println("Hello World");
    }
}
```

**Java**

9♦8♥J♦A♦2♣3♥7♠J♦A♦7♦J♦J♦A♦3♦J♦5♥6♦4♥J♥A♥6♠6♠J♥A♦8  
♦J♦A♦8♠J♦A♦3♦J♦A♦6♠J♦A♦8♠J♦A♦2♠2♠J♥A♥2♠6♠J♥

**Antes**

**Whitespace**



**Piet**

HAI  
CAN HAS STDIO?  
VISIBLE "HAI WORLD!"  
KTHXBYE

**LOLCODE**

```
>                                v
v  ,,,,,,"Hello"<
>48*,                                v
v,,,,,,,"World!"<
>25*,@
```

**Befunge 93**

# Which sample is a programming language?

~~```
<html>
<head>Hello World</head>
<body>Hello World</body>
</html>
```~~

**HTML**

```
(=<`#9]~6ZY32Vx/4Rs+0No-&Jk)"
Fh}|Bcy?`=*z]Kw%oG4UUS0/@-ejc
(:'8dc
```

**Malbolge**

# What is a programming language?

- Turing complete
- A framework a developer can use to instruct a computer to do things
- Composed of Syntax (Form) and Semantics (Meaning)