

# PIC 10A Week 1 Tuesday

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# What is C++?

- ▶ Programming language for applications that are very demanding on performance, energy consumption, and speed.
- ▶ C++ is a good choice when you are concerned about response time.

## Where C++ is used?

- ▶ C++ is used in a wide variety of fields
- ▶ Camera, cell phone, cars, self-driving cars, Mars rovers, telescopes, game industries, animations, etc.

# Why learn C++?

- ▶ Good to learn fundamentals of programming (how to work with data structures, how to write algorithms, how to work with hardwares, etc)

## Some Basics

```
#include <iostream>
```

```
int main()
```

```
{
```

```
    return 0;
```

```
}
```

## Some Basics - Hello World!

```
#include <iostream>
```

```
int main()
```

```
{
```

```
    std::cout << "Hello _World!" << std::endl;
```

```
    return 0;
```

```
}
```

## Some Basics - Hello World!

```
#include <iostream>

using namespace std;

int main()
{
    cout << "Hello World!" << endl;
    return 0;
}
```

## Some Basics

```
#include <iostream>
```

```
#include "iostream"
```



## Some Basics

```
#include <iostream>
```

```
// look in the directory where the  
// standard libraries are kept.
```

```
#include "iostream"
```

```
// look in the current directory then look  
// in the directory where the standard  
// libraries are kept.
```

## How to comment

```
// One line comment
```

## How to comment

*// One line comment*

*// You can comment multiple lines*

*// using multiple slashes.*

*// But*

## How to comment

*// One line comment*

*/\* You can comment multiple lines  
using multiple slashes.  
But this is much better. \*/*

# Running c++ on terminal/command prompt

## Compilation

```
g++ main.cpp -o compiledprogram
```

## Execution

```
./compiledprogram
```