
Output

Section 3.7

Precision

```
const double PI = 3.141592653589793;  
cout << PI << endl; // default output
```

- What does this output?

- Precision

```
cout << setprecision(2) << PI;
```

Output:

Precision

-
- Precision can also be used to set the number of digits after the decimal point

```
const double PI = 3.141592653589793;  
cout << fixed << setprecision(2) << PI;
```

- Output:

Precision of numbers

```
#include <iostream>
#include <iomanip> //New Library!

using namespace std;

int main()
{
    const double PI = 3.141592653589793;

    cout << PI << endl; // default output
    cout << fixed << setprecision(4) << PI << endl;
    cout << fixed << setprecision(3) << PI << endl;
    cout << fixed << setprecision(2) << PI << endl;
    cout << fixed << setprecision(1) << PI << endl;

    return 0;
}
```

Precision

- Precision and fixed are *sticky*
 - remains in effect until changed

```
const double PI = 3.141592653589793;
cout << fixed << setprecision(4) << PI << endl;
cout << setprecision(2) << PI << endl;
cout << PI << endl;

// Output?
```
