

Code Style

Elizaweta Chernova ; IA-031 ;

SibSUTIS, email: elizaweta_02@mail.ru .

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1 Introduction

The code style guide is used in order to provide a unified rules how to write a code for a specific project. It is much easier to read/write/edit the code when the project has a consistent style.

2 C++[1]

.

3 Code-Style for C++ [2] [3]

Gaps

Gaps are placed between operators and operands

For example:

```
int x = ((5 + 3) / 2) + sqrt(1024) ;
```

Braces

The **closing brace** is placed on a new line at the level of the part of the code it delimits

For example:

```
void function(arguments){  
  
    ...  
}
```

Leave a blank line between **functions and expression groups**

For example:

```
void function_1(arguments){  
    ...  
}  
  
void function_2(arguments){  
  
    ..  
}
```

Names and variables

Variables and functions are called descriptive names in a specific format

The **function** name begins with an uppercase letter and each word in the name capitalized

For example:

```
int FirstName;  
void function_1();
```

Each variable is declared on a new line

For example:

```
int a;  
float b;
```

Variables can be enumerated in a string if they are of the same type

For example:

```
int a, b, c;
```

Classes are called descriptive names

```
class MyClass{  
    ...  
}
```

For, while, if, else

Braces are always used in for, while, if, else.

Examples:

```
for (int i = 0; i ≤ size; i++){  
    ... ;  
}
```

```
while (k ≤ 10){  
    ... ;  
}
```

```
int main() {  
    k=25 ;  
    if (k != 0)  
    {  
        k = k - 5;  
    }  
    else  
    {  
        k = k + 6 ;  
    }  
    ...  
}
```

Output on display

Screen output with the cout statement

For example:

```
cout << "a = " << a << endl;
```

Assigning a text value to a string

Text is written to a variable of type string For example:
`string str = "Hello world";`

Comments to sections of code

Comments to sections of code are written through `//` , in cases of an ambiguous function name when working in a team for understanding the code by all programmers

For example:

`int a; //variable to store the number of passes through the loop`

4 Conclusion

I mastered the Latex commands and learned how to work with them, I also made Code style , which will help to design the program code beautifully and correctly

References

- [1] ISO/IEC 14882 Programming languages — C++.
- [2] https://docs.opentitan.org/doc/rm/c_cpp_coding_style/
- [3] <https://google.github.io/styleguide/cppguide.html>
- [4] <http://www.ccas.ru/voron/download/books/tex/klimenko96sprav.>