Code Standard

C++

This document exists to give developers a coherent image of the syntax style. Camelcasing should be used and used properly! A more elaborate explanation of this can be found at: http://en.wikipedia.org/wiki/CamelCase.

Variables

Variable name should always be descriptive and well defined.

```
ex. int variableName = 0;
```

Variables representing number of elements

Variables representing number of elements should always be descriptive and begin with 'nrOf'.

```
ex. int nrOfElements = 5;
```

Constants

Constant name should always be desciptive and written in capital letters. Words are diveded by an underscore.

```
ex. const int CONSTANT_VALUE = 1;
```

Functions

Function name should always be desprictive and begin with a capital letter. A blank space should be left in the begining aswell as the end of the function parameter list. If function does not have a paramter list, then a blank space should **not** be used.

Default parameters is placed last in the parameter list as it is demanded by the compiler. Functions that is read-only should always be declared with the keyword const.

```
ex. void Foo( int index, string name = "default" );
void Bar();
int GetIndex() const;
```

Classes

Members

Member name should always be descriptive and begin with 'm'.

```
ex. int mHealth;
```

Templates

Template names should always be descriptive.

```
ex. template <typename T>
     void PrintValue( T* value );
```

Functions

See description below the 'Function' section above.

Initilalize function

Initialize functions should always be named 'Initialize' and return a HRESULT.

```
ex. HRESULT Initialize( int value );
```

Release function

Release functions should always be named 'Release' with no parameter list.

```
ex. void Release();
```

Constructors

Default Constructor should always be implemented in class and initialize members.

Structure

The structure in class should as follow:

```
class B : public A
{

//Members
private:
protected:
public:

//Templates
private:
protected:
public:

//Functions
private:
protected:
```

Mathematical expressions

Mathematical expressions should be defined with a blankspace between the operand and the operator.

```
ex. int sum = 5 + 5; Note: Parenthesis can be used for clarification BUT be aware that they can alter the expression.
```

Control structures

Control structures should always be defined with blankspaces within the parenthesis.

```
ex. if (value < 5)
```

Object subscripting

Object subscripting should not contain any blankspace directly within the square brackets or parenthesis.

```
ex. vertices[i] = vertex; or vertices.at(i) = vertex;
```

Object subscripting with mathematical expression

Object subscripting with mathematical expressions should not contain any blankspace directly within the square brackets or parenthesis. There should be a blankspace between the operand and the operator.

```
ex. vertices[i + 2] = vertex; or vertices.at(i + 2) = vertex;
```

Questions and/or additions to this document? Contant SvinSimpe!