

# Code Conventions v0.2

This document is still under review and will change later on.

## Inhaltsverzeichnis

	Seite
<b>1 Tabs</b> . . . . .	<b>1</b>
<b>2 Line length</b> . . . . .	<b>1</b>
2.1 Breaking function definitions . . . . .	1
2.2 Breaking ifs definitions . . . . .	2
<b>3 Naming</b> . . . . .	<b>2</b>
3.1 Example . . . . .	3
<b>4 Spacing</b> . . . . .	<b>3</b>
4.1 Space after if, for and while . . . . .	3
4.2 Space between ) and { . . . . .	3
4.3 Space in for loop definitions . . . . .	3
<b>5 K&amp;R Style tabs and parentheses</b> . . . . .	<b>3</b>
<b>6 Function Parameters</b> . . . . .	<b>3</b>
6.1 Ordering . . . . .	3
6.2 All parameters are constant . . . . .	3
<b>7 No ternary expressions</b> . . . . .	<b>4</b>

## 1 Tabs

This is one of points where teams often fight about. We will use a tab size of 4 spaces.

## 2 Line length

Lines should not get longer than 140 characters (TODO: verify this)

### 2.1 Breaking function definitions

if they get too long, break like this:

```

private static synchronized horkingLongMethodName(
    int anArg,
    Object anotherArg,
    String yetAnotherArg,
    Object andStillAnother){
    ...
}

```

## 2.2 Breaking ifs definitions

```

if( (condition1 && condition2)
    || (condition3 && condition4)
    ||!(condition5 && condition6)
){
    doSomethingAboutIt ();
}

```

## 3 Naming

### camelCase

Variables start small and then every new Word is written big.

### Hungarian Notation

We will use specifiers defining the Type of the variables. These will be mostly be one letter long and stand in front of the name.

If a type of Object is used only once or twice it has the specifier o, else it got to have something else. This will help differentiating the Object types.

	type	specifier
	integer	i
	unsigned integer	ui
	boolean	b
	string	s
	float	f
	double	d
	object <sup>1</sup>	o
	array	a<data type>
	Character	chr
	textfield	txt
	textarea	txa
	Button	btn
	Menu	mnu
	label	lbl

---

<sup>1</sup>If only one instance is used

### 3.1 Example

iLoop for an integer which is used in loops  
sName for an String which holds a name

## 4 Spacing

(TODO: discuss about this)

### 4.1 Space after if, for and while

no space after if, for or while and the opening parentheses.

### 4.2 Space between ) and {

no space or newline between ) and {.

### 4.3 Space in for loop definitions

```
for(int i = 2; i<1; i--){  
    ...  
}
```

## 5 K&R Style tabs and parentheses

Lets combine the spacing with K&R Style parentheses and tabs:

```
if(x < 0){  
    System.out.println("Negative");  
    negative(x);  
}else{  
    System.out.println("Non-negative");  
    nonnegative(x);  
}
```

## 6 Function Parameters

(TODO: discuss about this)

### 6.1 Ordering

first the most common variables, the ones that are changing the least.  
No return variables, these are only returned with the return statement!

### 6.2 All parameters are constant

return is for retuning stuff!

## **7 No ternary expressions**

This one should be simple.