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* Rock ChMS

* Developer

* Handbook

* /

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Table of Contents

KEEPING DEVELOPERS HAPPY	3
CODING STANDARDS	6
ISSUE & PROJECT TRACKING	8
REQUIRED READING	9
This Handbook	9
Developer Reference.....	9
The REST API.....	9
Highly Recommended	9
Recommended	9
DEVELOPER COMMUNICATION	10
Blogs	Error! Bookmark not defined.

Keeping Developers Happy

Developers are fickle and that's OK. They have good and bad habits, and have opinions on how things should be done. Unfortunately if left untamed, this can lead to a state of unhappiness for everyone. For example, attempting to perform diffs against code whose tab-spacing changes from version to version makes developers unhappy.

This handbook will contain the **rules and regulations** which are intended to keep everyone happy and it will also explain some of the environment setup needed to get started with developing.

Setting Up Your Development Environment

Getting Git

[SmartGit](#) is a Git client for Windows, Mac OS X and Linux. It provides a GUI to the Git command-line interface. We recommend SmartGit because it's free for non-commercial use.

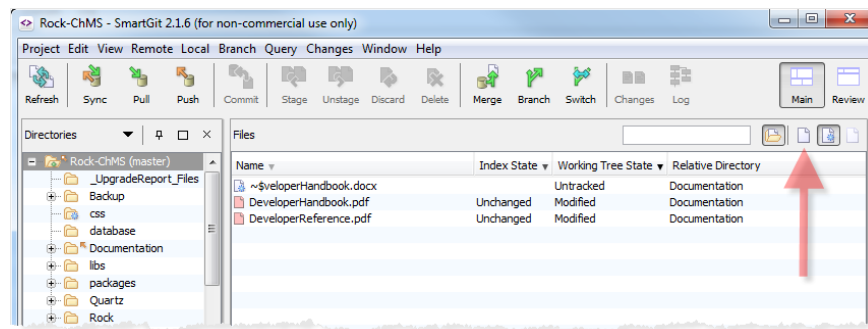
1. Download and install "**Git for Windows**" from here <http://code.google.com/p/msysgit/> with all the default settings.
2. [Download](#) and install SmartGit.
 - a. Follow this to install Git <http://help.github.com/win-set-up-git/>
3. Run SmartGit to complete SmartGit setup using the defaults except where noted below:
 - a. For the **Type of Usage** step you will probably want to select the third option, "Non-Commercial Use Only" as long as you're only working on the non-commercial Rock-ChMS project.
 - b. For the **Git & HG Executables step**, verify that the Git Executable path is filled in with the path to where you installed Git from step 1.
 - c. For the **User Information** step, use your GitHub account name and email.
 - d. For the **Hosting Providers** step, select GitHub as your main hosting provider.
 - e. For the Master Passwords... step, we **do not** recommend choosing the "Don't use a master password" option.
 - f. In the Welcome to SmartGit window, if asked "What do you want to do?" just cancel/close that window and proceed to the next section.

Getting RockChMS

1. Locate the project's Git repository by visiting <https://github.com/SparkDevNetwork/Rock-ChMS>.
2. Find the project's repository read-only URL address (it will be something like <https://github.com/SparkDevNetwork/Rock-ChMS.git>) if you're on the Rock developer core team you can use your read-write Url or if you've forked the Rock-ChMS repo, you can use the read-write Url to your forked repo.

3. In SmartGit, go to "Project" » "Clone" (or choose "clone existing repository") and use the default settings except where noted here:
 - a. In the **Repository Url** field, enter "<https://github.com/SparkDevNetwork/Rock-ChMS.git>"
 - b. In the **Local Directory** step, locate or create a folder on your computer where you'll store your Git Working Tree, e.g., C:\projects\Rock-ChMS.

NOTE: Most of us find it's best to unselect the "show unchanged files" option (Ctrl+1) in SmartGit.



Getting Started

Database

You'll need to make a copy of our database to your local system. Download the latest schema and data from here: **TBD**

Make sure your SQL Server properties Security's Server Authentication is set to "SQL Server and Windows Authentication mode".

You'll also need to enable TCP/IP and Named Pipes in your SQL Server Client Protocols (if you have not already done this before).

Web Config

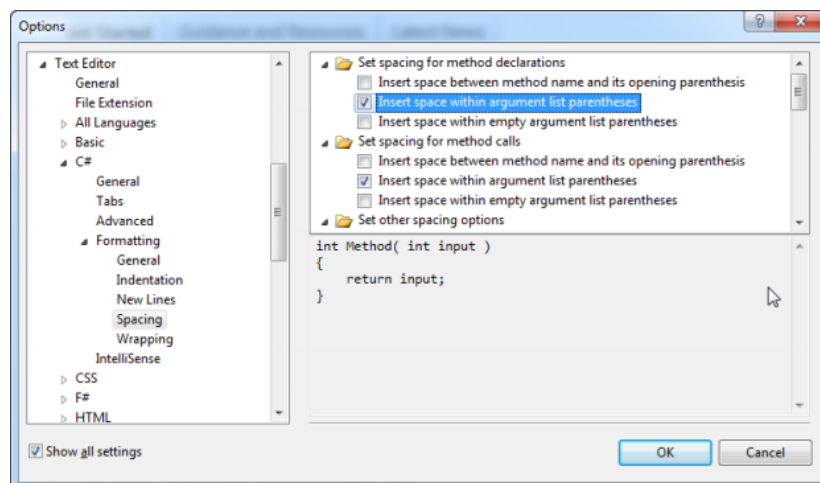
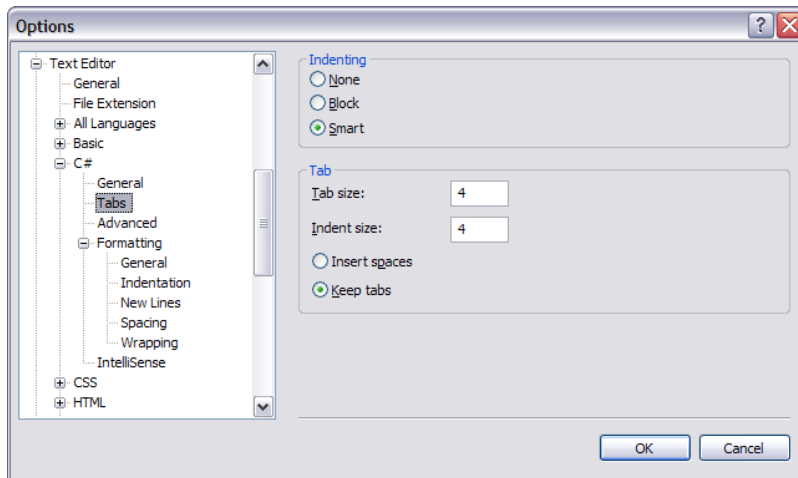
If it does not exist, create an empty web.connectionString.config file under your RockWeb project. Add with something like:

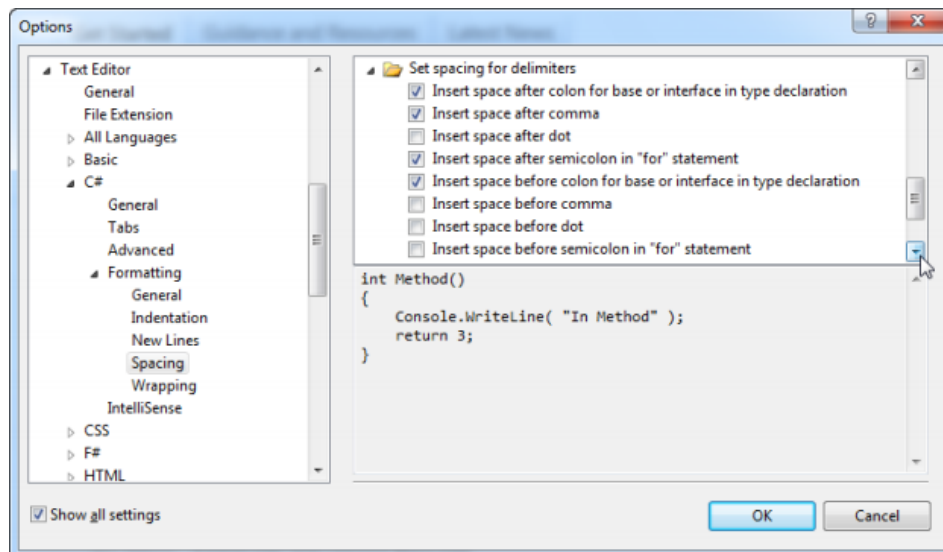
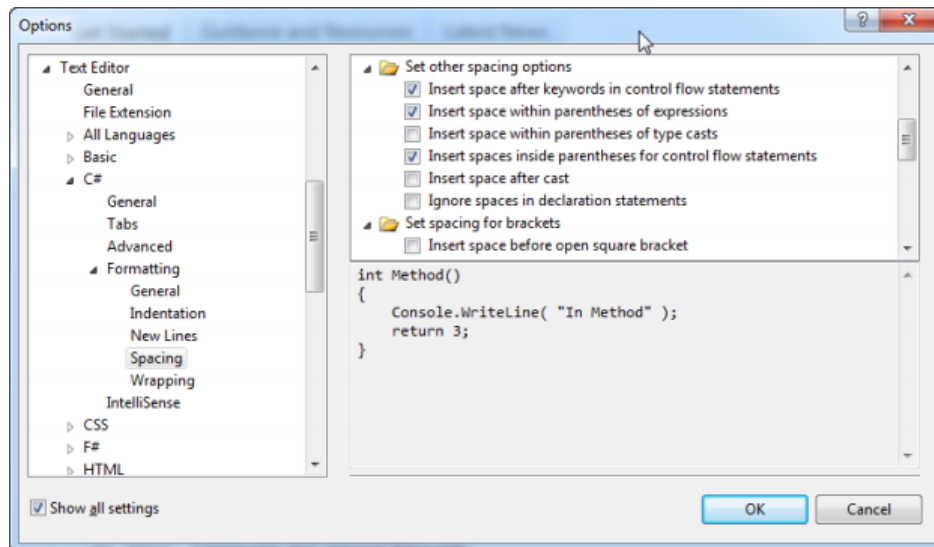
```
<connectionStrings>
  <add name="RockContext" connectionString="Data Source=<YOUR_IP>;Initial
Catalog=RockChMS; User Id=RockUser; password=<PASSWORD>;MultipleActiveResultSets=true"
providerName="System.Data.SqlClient" />
</connectionStrings>
```

Coding Standards

The following are the adopted coding standards:

- First and foremost, follow the established patterns you see in the existing code base. Don't invent your own patterns.
- See <http://www.dotnetspider.com/tutorials/CodingStandards.doc>
- Follow the Naming Conventions and Standards outlined by items 1 through 11 in section 7.
- Follow the Indentation and Spacing outlined in section 8. Use Spacing Settings for Visual Studio. Under Options, Text Editor, C#, Spacing checkbox the following (you may need to check the "Show all settings" checkbox in the lower left corner if you don't see these settings):





Issue & Project Tracking

We use [GitHub](#) for tracking issues and are currently using [Basecamp](#) for various other stuff including: to-dos, project management, and related tasks.



Your to-dos

Launchpad | Basecamp: Spark Development Network | Products | Backpack Organizer | Campfire Chat

Spark Development Network

Nick Airdo | My info | Sign out | HELP

Dashboard | To-Dos | Calendar

All People | Search | Templates | Settings

Latest activity across your projects

[Review 4 overdue milestones](#)

Sun	Mon	Tue	Wed	Thu	Fri	Sat
22	23	24	25	Today 26	27	28
	30	31	Feb 1	2	3	4

[View the full calendar](#)

Spark Development Network — Spark

File	Comment	Comment	Comment	Comment	Uploaded by	Date
Spark Development Network Annual Agreement.docx					Nick A.	Jan 19
	Re: Generating API Docs & Code Samples				Jason O.	Nov 25
	Re: Generating API Docs & Code Samples				David T.	Nov 25
	Re: Generating API Docs & Code Samples				David T.	Nov 25
	Re: Generating API Docs & Code Samples				Jason O.	Nov 24

Spark Development Network — Rock ChMS

Writeboard	Comment	Comment	Message	Writeboard	Updated by	Date
Login & New Account Process					David T.	Jan 5
	Re: Missing Something?				Nick A.	Dec 19
	Re: Missing Something?				David T.	Dec 17
	Missing Something?				Nick A.	Dec 16
Person Requirements					Jon E.	Dec 9

spark developer

[Create a new project](#)

Your projects

Spark Development Network

- [App Laws](#)
- [Feature: Blog Engine](#)
- [Features](#)
- [Rock ChMS](#)
- [Spark](#)
- [Spark Secured](#)

[Your archived projects](#)

[Recover your deleted projects](#)

Activity

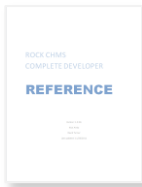
Projects

Required Reading

This Handbook

Ok, you're almost done so don't get too flustered about it.

Developer Reference



Found in the **Documentation** folder, the Developer Reference is not only good for you, it is required reading. Seriously though – it is the best way to get ramped up developing proper in Rock ChMS.

The Framework API

This is found in your Documentation folder's SandCastle\index.html

The REST API

This is found on your Rock environment under ~/REST/help

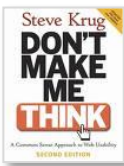
Highly Recommended



[Getting Real](#) by 37signals
online copy is free

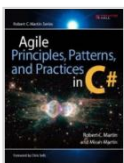


[Producing Open Source Software](#) by Karl Fogel



[Don't Make Me Think](#) by Steve Krug

Recommended



[Agile Principles, Patterns, and Practices in C#](#)

Developer Communication

Here are the best ways to communicate with the team and the Rock ChMS developer community.



IRC Channel #RockChMS
irc://chat.freenode.net/#RockChMS



Twitter - Follow us:
[@RockChMS](#)
[@SparkDevNetwork](#)
[@RefreshCache](#)



TBD - Developer forums on our community site



TBD Wiki or other community documenting tool.