

Radio Telemetry Tracker C/C++ Style Guide

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v1.0a

1 Philosopy

In general, code should be written in a way that clearly expresses the local intent of the code, and allows for easy readability. The following are rules that should always be followed when writing code for the RTT project. Cases not covered by the below rules should be written in a way that is easy to understand and clearly expresses the intent behind the code.

The single most important rule when writing code is this: check the surrounding code and try to imitate it.

2 Code Formatting

3 Code Namespace

4 Documentation

1. Functions should be documented both at definition and at declaration.
2. Use comments to document the code throughout functions, particularly where the code is not immediately obvious.
3. The top of every file should have the following comment block:

```
1 | #####
2 | #   Radio Collar Tracker [component]
3 | #   Copyright (C) [year] [author], [email]
4 | #
5 | #   This program is free software: you can redistribute it and/or modify
6 | #   it under the terms of the GNU General Public License as published by
7 | #   the Free Software Foundation, either version 3 of the License, or
8 | #   (at your option) any later version.
9 | #
10 | #   This program is distributed in the hope that it will be useful,
11 | #   but WITHOUT ANY WARRANTY; without even the implied warranty of
12 | #   MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the
13 | #   GNU General Public License for more details.
14 | #
15 | #   You should have received a copy of the GNU General Public License
16 | #   along with this program. If not, see <http://www.gnu.org/licenses/>.
17 | #
18 | #####
19 | #
20 | # DATE      WHO Description
21 | # -----
```

22 || #
23 || #####

Every commit must be documented in the changelog at the top of the file. The author and name fields should be populated with the original author of the code. Subsequent edits should be denoted with initials in the changelog.