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A simple C++ finite state machine library <http://www.digint.ch/tinyfsm>

15 commits

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GPL-3.0

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digint doc: added information about GitHub; cosmetics

Latest commit 9b39c23 May 15, 2014

doc	doc: added information about GitHub; cosmetics	May 15, 2014
examples/elevator	cosmetics, cleanup	Nov 27, 2012
include	fixed email address	Dec 18, 2012
COPYING	initial import	Nov 24, 2012
ChangeLog	added documentation	Nov 27, 2012
README.md	doc: added information about GitHub; cosmetics	May 15, 2014

README.md

# TinyFSM

TinyFSM is a simple finite state machine library for C++, designed for optimal performance and low memory footprint. This makes it ideal for real-time operating systems. The concept is very simple, allowing the programmer to fully understand what is happening behind the scenes. It provides a straightforward way of mapping your state machine charts into source code.

TinyFSM basically wraps event dispatching into method calls, making event dispatching equally fast to calling (or even inlining) a function. Even in the worst case, dispatching leads to nothing more than a single vtable lookup and function call!

Key Features:

- Entry/exit actions
- Event actions
- Transition functions
- Transition conditions
- Event payload (classes)
- Inheritance of states and action functions

TinyFSM benefits from the C++11 template metaprogramming features like variadic templates, and does not depend on RTTI, exceptions or any external library.

Official home page: <http://www.digint.ch/tinyfsm>

Current version: 0.10

## DOCUMENTATION

You can find the main documentation in the `doc/` directory of the TinyFSM project. The latest version is also available [online] (<http://www.digint.ch/tinyfsm/doc/introduction.html>).

## INSTALLATION

TinyFSM is a header-only library, no special installation steps are needed. Just point your compiler to the "include" directory.

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## DEVELOPMENT

The source code for TinyFSM is managed using Git. Check out the source repository like this:

```
git clone git://dev.tty0.ch/tinyfsm.git
```

If you would like to contribute, you might want to visit the [TinyFSM project page on GitHub] (<http://github.com/digint/tinyfsm>).

## SUPPORT

If you need further information or find bugs, please contact the author.

## AUTHOR

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