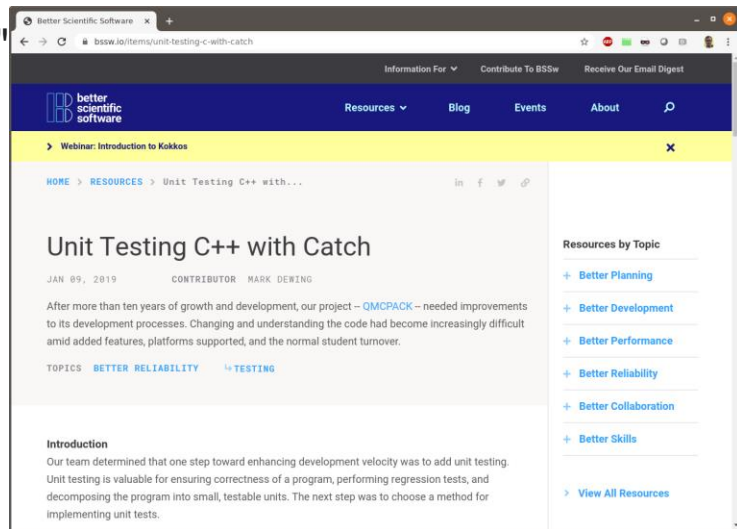


EXPERIENCE WRITING AN ARTICLE FOR BSSW.IO

MARK DEWING

BACKGROUND

- Added unit testing to QMCPACK
- Wanted to share experience
- Resulting article is "Unit testing C++ with Catch"
- <https://bssw.io/items/unit-testing-c-with-catch>



WHERE TO PUBLISH

- Where to share programming knowledge related to scientific computing?
- Typically too detailed/specific or not suitable for traditional publishing
- Individual blog – little reach, little credit
- BSSw.io !

SELECTING ARTICLE CONTENTS

What I wanted to read – technical issues and concrete examples

- Reason for unit testing and why use a framework
- Why choose this solution (Catch2) and not others.
 - What questions do teams need to ask
- One short example to keep article self-contained – the project tutorial is quite good
- Specifics for HPC and scientific computing environments
 - Floating point number comparison
 - MPI
 - CMake