



PYTHON UNIT TESTING

Fri 13th December 2024



AGENDA

- ★ Wins
- ★ Losses
- ★ Advent of Code/Year in Review
- ★ Unit Testing
- ★ AOB



WHY UNIT TEST

- ★ Ensure code works as expected
- ★ Catch bugs early and reduce debugging time
- ★ Improve code quality and maintainability
- ★ Reduce fear of changing code
- ★ Save time in the long run



TEST DRIVEN DEVELOPMENT

- ★ Write tests before writing code
- ★ Requires discipline and practice



UNIT TESTING WITH PYTEST

- ★ <https://github.com/astro-group-bristol/unit-testing>
- ★ Introduction to Pytest framework
- ★ Writing and running tests with Pytest
- ★ Handling errors and exceptions with Pytest
- ★ Best practices for writing effective tests
- ★ Using fixtures and parametrize for efficient testing





ANY OTHER BUSINESS?

Happy Christmas!