# Contributing to Rich

This project welcomes contributions in the form of Pull Requests. For clear bug-fixes / typos etc. just submit a PR. For new features or if there is any doubt in how to fix a bug, you might want to open an issue prior to starting work, or email willmcgugan+rich@gmail.com to discuss it first.

## Development Environment

To start developing with Rich, first create a \_virtual environment\_ then run the following to install development requirements:

```

pip install -r requirements-dev.txt

poetry install

```

### Tests

Run tests with the following command:

```

make test

```

Or if you don't have make, run the following:

```

pytest --cov-report term-missing --cov=rich tests/ -vv

```

New code should ideally have tests and not break existing tests.

### Type Checking

Rich uses type annotations throughout, and `mypy` to do the checking. Run the following to type check Rich:

```

make typecheck

```

Or if you don't have `make`:

```

mypy -p rich --ignore-missing-imports --warn-unreachable

```

Please add type annotations for all new code.

### Code Formatting

Rich uses `black` for code formatting. I recommend setting up black in your editor to format on save.