

How to format code

We use the following code formatters to maintain consistent coding styles across different programming languages. These tools automatically format source code without changing its behavior.

Python: Black

«<https://black.readthedocs.io/>|Black» is an opinionated Python code formatter with minimal configuration.

Install:

```
pip install black
```

Format:

```
black script.py
```

Check without modifying:

```
black --check script.py
```

R: Air

«<https://posit-dev.github.io/air/>|Air» is a fast R code formatter written in Rust and developed by Posit.

Install:

```
pip install air-formatter
```

Format:

```
air format script.R
```

Check without modifying:

```
air format --check script.R
```

Shell: shfmt

«<https://github.com/mvdan/sh>|shfmt» formats POSIX shell, Bash, and other supported shell scripts.

Install:

```
go install mvdan.cc/sh/v3/cmd/shfmt@latest
```

Format:

```
shfmt -w script.sh
```

Check without modifying (list files needing formatting):

```
shfmt -l script.sh
```

C/C++: clang-format

«<https://clang.llvm.org/docs/ClangFormat.html>|clang-format» automatically formats C, C++, and related languages. Formatting rules can be configured using a .clang-format file.

Install:

```
pip install clang-format
```

Format:

```
clang-format -i source.c
```

Check without modifying:

```
clang-format --dry-run --Werror source.c
```

JavaScript: Prettier

«<https://prettier.io/>|Prettier» is an opinionated formatter for JavaScript, TypeScript, JSON, HTML, CSS, and other web languages.

Install:

```
npm config set prefix ~/.local  
npm install -g prettier
```

Format:

```
prettier --write script.js
```

Check without modifying:

```
prettier --check script.js
```

Notes

- Formatters should be run before committing changes.
- Use the default formatting rules unless project-specific requirements justify configuration.
- Ensure that user-installed executable directories, such as `~/local/bin`, are included in `PATH`.
- Formatting checks can also be integrated into CI workflows.

From:
<https://hydrowiki.isnew.info/> - **HydroCS Wiki**

Permanent link:
https://hydrowiki.isnew.info/howtos/how_to_format_code?rev=1792276495

Last update: **2026-10-17 10:34 pm**

