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Module 11.2

When I first started learning how to code, I honestly didn’t care much about style. As long as my program worked, I figured that was good enough. But after working on group projects and seeing how messy things can get when people write code differently, I started to understand why coding standards are a thing. They're not just for show, they actually make a difference, especially when you're working on something with other people or building anything that’s going to stick around for a while.

Basically, coding standards are a bunch of rules or suggestions about how your code should look. Things like how you name your variables, where your brackets go, how many spaces you use for indentation, stuff like that. It might seem small, but all these little things add up when you're looking at a big project.

Most programming languages have their own general standards. Like, Python has PEP 8, which is sort of the go-to style guide. JavaScript has a few different ones, like Airbnb’s style guide. And big companies like Google or Microsoft usually have their own rules that everyone on their team follows.

Back when coding first started becoming a big thing, people just wrote code however they wanted. But over time, teams realized that having everyone follow the same style made it way easier to read, test, and fix things. Especially when different people were working on the same files.

From what I’ve seen and experienced in school, and from what I’ve read about professional development teams, coding standards are baked into almost every part of the process. A lot of companies use tools that scan your code and point out where you didn’t follow the rules. These are called linters. There are also tools that actually fix the formatting for you automatically, like Prettier for JavaScript or Black for Python. They clean things up so your code always looks the same, no matter who wrote it.

On top of that, teams usually do something called a code review, where someone else on your team looks over your code before it’s added to the main project. They’ll check to make sure it works, of course, but they’ll also point out if you didn’t follow the style guide. It might seem picky, but it actually keeps the code cleaner and helps everyone stay on the same page.

At first, I didn’t see the point. But now I get why companies take it seriously. For one, it makes your code easier to read. And let’s be honest, we spend way more time reading code than writing it, especially when debugging.

It also makes projects easier to maintain. People quit, move to other teams, or change jobs. So someone else might need to work on your code in the future. If it’s consistent and well-formatted, it’s way easier for them to understand what’s going on.

Another big reason is that it helps prevent bugs. I know it sounds weird, but if all your code is predictable and structured the same way, you can spot mistakes faster. If something looks off, it’s easier to catch.

And last but not least, it just makes working with others way smoother. When everyone’s following the same playbook, you don’t waste time arguing over tabs vs spaces or other small stuff.

I remember in one of my group projects, we didn’t talk about coding standards at all. Everyone just wrote code however they wanted. When it came time to put it all together, it was a total nightmare. Variables were named all over the place, some people used four spaces, others used tabs, and nothing lined up. We spent more time cleaning up the formatting than actually finishing the assignment. After that, we started sticking to the same rules from the beginning. It really helped clean up our code

Here’s an example in JavaScript to show how formatting can change things:

A screen shot of a computer code

AI-generated content may be incorrect.

*The second one is just cleaner. Easier to read, easier to debug.*

Concluding this, I didn’t always take coding standards seriously. But now I realize they actually help a lot. Whether you're just writing a small program or working with a team on a big app, keeping your code clean and consistent makes everything easier. It’s not just about looking pretty, it’s about being a better developer and helping your team succeed too.

**Sources:**

van Rossum, G., Warsaw, B., & Coghlan, N. (2001, July 5). *PEP 8 – Style Guide for Python Code*. Peps.python.org. <https://peps.python.org/pep-0008/>

AirBnB. (2019, April 27). *airbnb/javascript*. GitHub. <https://github.com/airbnb/javascript>

Google. (2019). *Google Java Style Guide*. <https://google.github.io/styleguide/javaguide.html>

Bose, S. (2023, April 20). *Coding Standards and Best Practices To Follow*. BrowserStack. <https://www.browserstack.com/guide/coding-standards-best-practices>