

Programming Leftovers

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- [New Tax Collection Tech Replaces 50-Year-Old System](#) [2]

Fried said recent updates to the old system had fallen mainly to a single employee who had worked for the office for most of the five decades the system had been in place - and finding another programmer with similar skills would have been challenging. The old system used the COBOL programming language and a traditional mainframe computer, whereas the new system is cloud-based and can be managed entirely remotely.

- [Call for Code Daily: tech for the disabled, chatbots, and the final push to submission close](#) [3]

- [Godot Release candidate: 3.2.3 RC 3](#) [4]

Godot 3.2.2 was released on June 26 with over 3 months' worth of development, including many bugfixes and a handful of features. Some regressions were noticed after the release though, so we decided that Godot 3.2.3 would focus mainly on fixing those new bugs to ensure that all Godot users can have the most stable experience possible.

Here's a third Release Candidate for the upcoming Godot 3.2.3 release. Please help us test it to ensure that no new regressions have slipped through code review and testing.

Note: The previous 3.2.3 RC 2 was actually not built from the intended commit, and reflected the same changeset as RC 1. Tests made on RC 2 are still valid and useful, but did not help validate the very latest commits, hence this third release candidate. The changes new in this build are thus the ones made between RC 1 and RC 3.

- [What Is Fuzz Testing? A Guide.](#) [5]

Not all software testing techniques have origin stories, but fuzz testing does: On a stormy evening in 1988, Barton Miller, a computer science professor at the University of Wisconsin-Madison, was using a dial-up connection to work remotely on a Unix computer from his apartment. He was attempting to feed input information into a computer program, only to see the program repeatedly crash.

He knew that the electrical noise from the thunderstorm was distorting his inputs into the program as they traveled through the phone line. The distorted inputs were different from what the software needed from the user, resulting in errors. But as he describes in his book, *Fuzzing for Software Security Testing and Quality Assurance*, Miller was surprised that even programs he considered robust were crashing as a result of the unexpected input, instead of gracefully handling the error and asking for input again.

[...]

Miller's concern about what he saw during his thunderstorm experience extended beyond the annoyance of having applications crash unexpectedly. Applications that are not able to handle unexpected input also pose security concerns. Errors that aren't handled by the program are vulnerabilities that attackers can exploit to hack into systems.

In fact, attackers often use fuzz testing tools to locate vulnerabilities in applications, according to Jared DeMott, the CEO of VDA Labs security testing company and the instructor of several Pluralsight courses on testing.

'If you follow what we call a secure development lifecycle? fuzzing is one piece of the lifecycle that relates to the testing portion of it,' DeMott said.

- [Old] [Infinite scrolling on the web is complexity layered on top of complexity layered on top of complexity](#) [6]

Does all that stuff sound hard? Sorry, but it's worse.

[Development](#)

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[3] <https://developer.ibm.com/blogs/call-for-code-daily-tech-for-the-disabled-chatbots-and-the-final-push/>

[4] <https://godotengine.org/article/release-candidate-3-2-3-rc-3>

[5] <https://builtin.com/software-engineering-perspectives/fuzz-testing>

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