

Programming Leftovers

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- [Generate a minimal GStreamer build, tailored to your needs](#) [2]

GStreamer is a powerful multimedia framework with over 30 libraries and more than 1600 elements in 230 plugins providing a wide variety of functionality. This makes it possible to build a huge variety of applications, however it also makes it tricky to ship in a constrained device. Luckily, most applications only use a subset of this functionality, and up until now there wasn't an easy way to generate a build with just enough GStreamer for a specific application.

Thanks to a partnership with Huawei, you can now use `gst-build` to generate a minimal GStreamer build, tailored to a specific application, or set of applications. In this blog post, we'll look at the major changes that have been introduced in GStreamer to make this possible, and provide a small example of what can be achieved with minimal, custom builds.

- [How to reach craftsmanship? ? vanitasvitae's blog](#) [3]

I also taught myself coding. Well, I learned the basics of Java programming in school, but I kept on learning beyond that. My first projects were the typical mess that you'd expect from a beginner which has no idea what they are doing. Later I studied computer science and now I'm just a few credit points away from getting my masters degree. Yet, the university is not the place where you learn to code. They do teach you the basics of how a computer works, what a compiler is and even the theory behind creating your own compilers, but they hardly teach you how to write **good** code.

- [Perl Weekly Challenge 130: Odd Number and Binary Search Tree](#) [4]

- [Debugging by starting a REPL at a breakpoint is fun](#) [5]

Hello! I was talking to a Python programmer friend yesterday about debugging, and I mentioned that I really like debugging using a REPL. He said he'd never tried it and that it sounded fun, so I thought I'd write a quick post about it.

This debugging method doesn't work in a lot of languages, but it does work in Python and Ruby and kiiiiind of in C (via gdb).

- [Crunch numbers in Python with NumPy | Opensource.com](#) [6]

NumPy, or Numerical Python, is a library that makes it easy to do statistical and set operations on linear series and matrices in Python. It is orders of magnitude faster than Python lists, which I covered in my notes on Python Data Types. NumPy is used quite frequently in data analysis and scientific calculations.

I'm going to go over installing NumPy, and then creating, reading, and sorting NumPy arrays. NumPy arrays are also called ndarrays, short for n-dimensional arrays.

- [How I patched Python to include this great Ruby feature](#) [7]

Ruby, unlike Python, makes lots of things implicit, and there's a special kind of if expression that demonstrates this well. It's often referred to as an "inline-if" or "conditional modifier", and this special syntax is able to return one value when a condition is true, but another value (nil, specifically) when a condition is false.

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[2] <https://www.collabora.com/news-and-blog/news-and-events/generate-minimal-gstreamer-build-tailored-to-your-needs.html>

[3] <https://blog.jabberhead.tk/2021/09/16/how-to-reach-craftsmanship/>

[4] http://blogs.perl.org/users/laurent_r/2021/09/perl-weekly-challenge-130-odd-number-and-binary-search-tree.html

[5] <https://jvns.ca/blog/2021/09/16/debugging-in-a-repl-is-fun/>

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