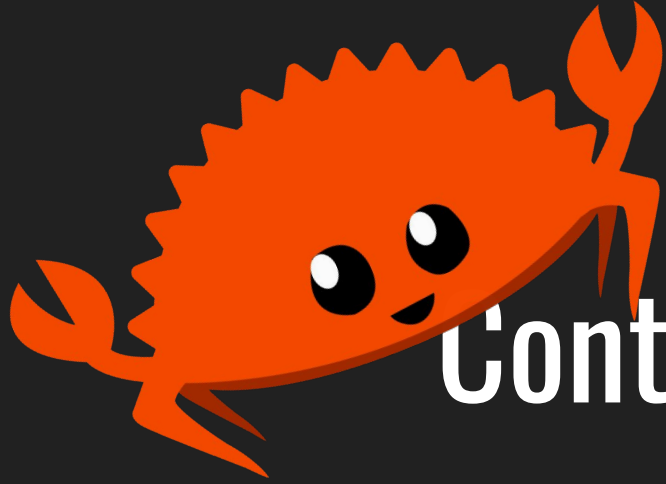


Contributor::new()

Kevin Martin S1'18



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Overview

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We'll get to that, but let's first talk about what I worked on, and what I learned!

Project Overview

I've been spending my time working on adding ELF and Mach-O compatibility to twiggy.

What is twiggy?

What are ELF/Mach-O?

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Twiggy is a code size profiler implemented in Rust, that is primarily designed to work with WebAssembly binaries.

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What are ELF/Mach-O?

ELF and Mach-O are file formats used on Linux and macOS systems respectively, for executables, object code, shared libraries, etc.

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What is twiggy used for?

Intro to Compilers in < 10 seconds

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Intro to Compilers in < 10 seconds

```
#include <stdio.h>
#include <stdlib.h>
#include <sys/types.h>
#include <arpa/inet.h>

void serveur1(portServ ports)
{
    int sockServ1, sockServ2, sockClient;
    struct sockaddr_in monAddr, addrClient, addrServ2;
    socklen_t lenAddrClient;

    if ((sockServ1 = socket(AF_INET, SOCK_STREAM, 0)) == -1) {
        perror("Erreur socket");
        exit(1);
    }
    if ((sockServ2 = socket(AF_INET, SOCK_STREAM, 0)) == -1) {
        perror("Erreur socket");
        exit(1);
    }

    bzero(&monAddr, sizeof(monAddr));
    monAddr.sin_family = AF_INET;
    monAddr.sin_port = htons(ports.port1);
    monAddr.sin_addr.s_addr = INADDR_ANY;
    bzero(&addrServ2, sizeof(addrServ2));
```

Intro to Compilers in < 10 seconds

```
08048918    pushl   %ebp
08048919    movl    %esp,%ebp
0804891b    subl    $0x4,%esp
0804891e    movl    $0x0,0xffffffff(%ebp)
08048925    cmpl    $0x63,0xffffffff(%ebp)
08048929    jle     08048930
0804892b    jmp     08048948
0804892d    nop
0804892e    nop
0804892f    nop
08048930    movl    0xffffffff(%ebp),%eax
08048933    pushl   %eax
08048934    pushl   $0x8049418
08048939    call    080487c0 <printf>
0804893e    addl    $0x8,%esp
08048941    incl    0xffffffff(%ebp)
08048944    jmp     08048925
08048946    nop
08048947    nop
08048948    xorl    %eax,%eax
0804894a    jmp     0804894c
0804894c    leave
0804894d    ret
```

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A code size profiler helps a programmer reason about how their code affects the size of a compiled binary. This helps us answer questions like:

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- Why was a function included in a binary?

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What is twiggy used for?


A code size profiler helps a programmer reason about how their code affects the size of a compiled binary. This helps us answer questions like:

- Why was a function included in a binary?
- How much space would be saved if I removed it and all the functions that become dead code after its removal?

Demo

What is This Talk Actually About?

This talk is actually about how it felt to start contributing to open source projects.



open source

me



It's Not Just For Wizards

I spent a lot of time imagining open source contribution as:

It's Not Just For Wizards

I spent a lot of time imagining open source contribution as:

- Too hard for me

It's Not Just For Wizards

I spent a lot of time imagining open source contribution as:

- Too hard for me
- A place where my contributions wouldn't be helpful

It's Not Just For Wizards

I spent a lot of time imagining open source contribution as:

- Too hard for me
- A place where my contributions wouldn't be helpful
- Only for people who already use a tool

It's Not Just For Wizards

It was really helpful for me to realize that:

It's Not Just For Wizards

It was really helpful for me to realize that:

- Most maintainers are doing so in their free time

It's Not Just For Wizards

It was really helpful for me to realize that:

- Most maintainers are doing so in their free time
- People are happy to offer mentorship and advice

It's Not Just For Wizards

It was most helpful for me to realize:

You **are** a wizard

Thanks!

