

# Oxidizing Education

Enabling teachers to teach Rust

By Henk Oordt



# Who am I?

## Henk Oordt

- Trainer & engineer @ Tweede golf (NL)
- Work on Rust firmware & web things
- Host in-person Rust trainings
- Maintainer of teach-rs

[github.com/hdoordt](https://github.com/hdoordt)



# *Oxidizing* Education

# Rust in one slide

*GitHub.blog:*

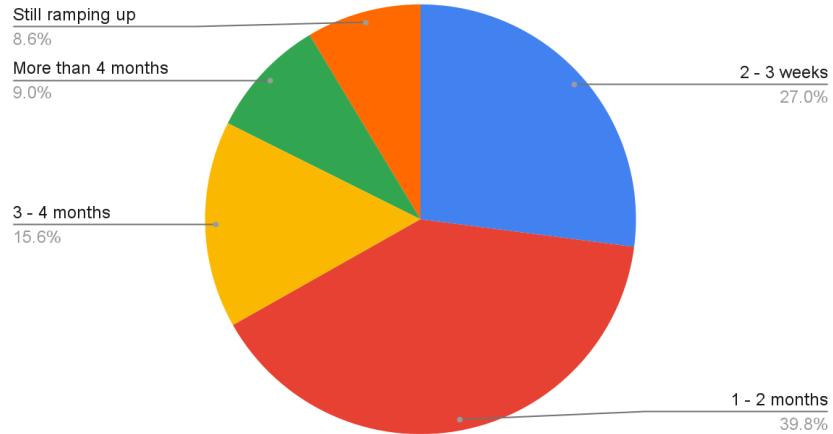
- Performance-critical systems
- Operating systems
- OS Adjacent code
- Web dev
- CLI
- Embedded

*rust-lang.org:*

A language **empowering everyone** to build reliable and efficient software.

Evaluation by Google supports this:

Time until confident writing Rust



# SO's most loved language



8 years in a row!

SO's verdict is a *bit* biased:

There are not a lot of Rust jobs yet

*Most current users **chose** to use Rust*

# The chicken-and-egg



```
1 let mut why_not_rust = "Rust is great and all, but...".to_owned();
2 loop {
3     why_not_rust.push_str("There aren't a lot of job openings, because...");  

4     why_not_rust.push_str("Companies are hesitant to adopt it, because...");  

5     why_not_rust.push_str("There aren't many experienced developers, because...");  

6 }
```

We need to `break;` this `loop` !

How?

# By Oxidizing Education!

Playing the long game

# Current state of affairs

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Rust in university is pretty uncommon

# What can we do?

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Enable ~~educational institutes~~ everyone to teach Rust



# What's teach-rs?

A **modular, reusable** uni course on Rust, designed for **in-person** teaching

 Modular

 Reusable

# Don't we already have lots of material?

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Yes! 🎉

- [Comprehensive Rust](#)
- [The book \(TRPL\)](#)
- [Crust of Rust](#)

However:

- Not meant for in-person teaching
- Not modular
- Not easy to adapt
- Not easy to contribute to

# Can't teachers do it themselves?

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Of course! It's their job! 💪

*But helping out won't hurt, right?*

# Do people even want this?

2.7k  on GitHub seem to think so

What's in there?



# Modular

$x$  Tracks



$n$  Modules



$m_n$  Units



$p_{m,n}$  Topics



$q_{m,n,p}$  Exercises



Reusable

# The `Future` of teach- rs

# Make it a resource

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*Goal: from course basis to a education platform* 

teach-rs is a success if it is contributed to and used by many:

-  Teachers
-  Students
-  Developers

 This is where *you* come in! 

# How can you help?



Improve existing content!

*Open a PR!*



Share your ideas!

*Open an issue, let's discuss!*

# Tell your friends!

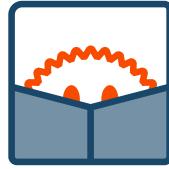
Let your teachers/colleagues know what's out there

# Thanks!

Let's oxidize education together!

🎓 [github.com/tweedegolf/teach-rs](https://github.com/tweedegolf/teach-rs)

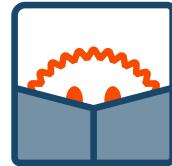
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# teachers

# Questions?

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**teachers**