



more than 10 years of rust
the highlights.



2010

mozilla launches rust

2015

rust 1.0

from 2016 onwards

rust quickly gains ground

2018

major update:
rust 2018

2018

embedded working
group

2021

most loved programming
language for the 6th time

2021

creation rust
foundation

2021

announcement
ferrocene

2021

3rd release:
rust 2021



2010

mozilla launches rust.

Rust comes to live in 2006 as a side project of Graydon Hoare, a Mozilla employee. Long story short: Mozilla believes in the project and starts sponsoring it in 2009. In July 2010, Rust is introduced worldwide.



2015

rust 1.0.

After the first pre-alpha release (version 0.1) in 2012, the first stable version of Rust is launched in 2015 (version 1.0). From then on, stable releases come out every 6 weeks. Step by step, the programming language gains in popularity thanks to its performance rate and high level of security.

from 2016 onwards

rust quickly gains ground.

Facebook, Microsoft, Dropbox, Amazon (AWS), Google, Huawei, Yelp ... In 2016, many companies start using Rust to some extent. The main reason? The language's easy-to-use memory, its reliability and security and its productivity thanks to the extensive documentation and user-friendly compiler and package manager.



2018

rust 2018.

The second major Rust update (after 2015) follows in 2018. It combines the highlights since 2015, with clean documentation, tooling and libraries. With this edition, developers strive to showcase Rust's productivity in specific domains. Think, for example, of embedded software, for which the embedded working group was created.

2018

embedded working group.

The embedded working group has been working since 2018 to turn Rust into a first class programming language for embedded software development. The group forms the bridge between the embedded community and the Rust teams. Their focus is on the improvement of the quality of the software, the productivity of the development teams and the end-to-end experience of embedded developers.



2021

most loved programming language for the 6th time.

According to the Stack Overflow Developer survey, Rust has been the most loved programming language since 2016. In 2021, Rust got this recognition for the 6th time!

2021

creation rust foundation.

In February 2021, Mozilla, Microsoft, Google, AWS and Huawei joined forces in the Rust foundation. They strive to help Rust grow and to strengthen the community.

2021

announcement ferrocene.

Consultancy firm Ferrous Systems is working on the realization of Ferrocene. Ferrocene's goal is to qualify the Rust compiler for ISO 26262/ASIL-B, which makes Rust suitable for use in mission and safety critical software domains. For example: domains in automotive, robotics and aviation. Ferrocene is expected to be available by end 2022.



2021

rust 2021.

In October 2021, the 3rd release of Rust will be launched. This update will be less extensive compared to that of 2018. The 2021 version mainly consists of different small changes that make working with Rust even more enjoyable. Some examples of these changes: additions to the prelude, adding a more consistent panic macro and the implementation of Intolterator for arrays.



what does the future hold?

We expect that more and more companies will see the advantages of Rust, and will start using the programming language. The Rust community gains in strength, with ever more enthusiastic developers who contribute and help their fellow developers with questions and problems.

Will Rust, as a young programming language, ever completely replace traditional languages such as C or C++? We don't think that's a very realistic scenario. Still, Rust is an excellent alternative and can even be complementary to those languages - especially in the domain of embedded software development, for which we at AUSY often use Rust.

Rust can for example be used in critical parts of an application in which memory errors can have

dramatic consequences. The multithreaded application development in Rust will give you a good night's sleep, without worrying about when the next race condition bug will appear.

Rust's ecosystem isn't as mature as that of C or C++, and the developers are working on this. Every day, new libraries or crates are added, developed by the community and available on crates.io.

Rust is without a doubt still the new kid in town, but it has already proved its strengths. We're sure its future will be great!





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