

**Papers and web resources referenced in Henri Laurie’s series of NITheCS seminars
“The Julia language: easy, generic, fast (but no free lunch)”**

Seminar 1

The founders on their original motivations and objectives:

<https://julialang.org/blog/2012/02/why-we-created-julia/> (the original public notice)

<https://www.youtube.com/watch?v=02U9AJMEWx0> (an early public presentation)

<https://arxiv.org/abs/1411.1607> Bezanson *et al.*, Julia: A fresh approach to numerical computing, arXiv 19 July 2015.

https://www.youtube.com/watch?v=W6I1zQ16_44 (recent interview with Bezanson)

Ousterhout, J.K. (1998) Scripting: higher level programming for the 21st Century. *Computer* 31(3) 23–30. (early formulation of the 2-language problem)

<https://github.com/JuliaLang/julia> (the public repository for Julia)

The Celeste project is fêted at <https://juliacomputing.com/case-studies/celeste/>; its repository is at <https://github.com/jeff-regier/Celeste.jl>. More PR about Julia projects on the home page of Julia computing: <https://juliacomputing.com/case-studies>, which has many more case studies than the eight or so on Julia Computing’s landing page. But neither page has CLiMA, which is at <https://github.com/CLiMA>

The micro-benchmarks are at <https://julialang.org/benchmarks/>

The graphic about person-years is in

Jeff Bezanson, Jiahao Chen, Benjamin Chung, Stefan Karpinski, Viral B. Shah, Jan Vitek, and Lionel Zoubritzky. 2018.

Julia: Dynamism and Performance Reconciled by Design.

Proc. ACM Program. Lang. 2, OOPSLA, Article 120 (November 2018), 23 pages. <https://doi.org/10.1145/3276490>.

The available Unicode symbols are listed at <https://docs.julialang.org/en/v1/manual/unicode-input/>

The example of formulae looking like maths is at

<https://discourse.julialang.org/t/seven-lines-of-julia-examples-sought/50416/132>. This page has many more snippets of really nifty Julia code, but be warned: they won’t necessarily run in your recent Julia installation (because of missing packages, pre-v1 code and perhaps bugs).

OhMyREPL is at <https://kristofferc.github.io/OhMyREPL.jl/latest/>

The two major public faces are the Julia Language group (<https://julialang.org>) and the Julia Computing company (<https://juliacomputing.com>).