hola

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De cero a web con F#

Historia

¿De donde surge F#?

Los ML

- […]
- LISP
- 70’s, ML - Robin Milner
- […]
- Caml, 1987
  - Caml light, 1991
  - Caml special light, 1995
  - Ocaml, 1996 (*extends the core Caml language with object-oriented programming constructs.**)
  - F# 2005

* Wikipedia [https://en.wikipedia.org/wiki/Ocaml]

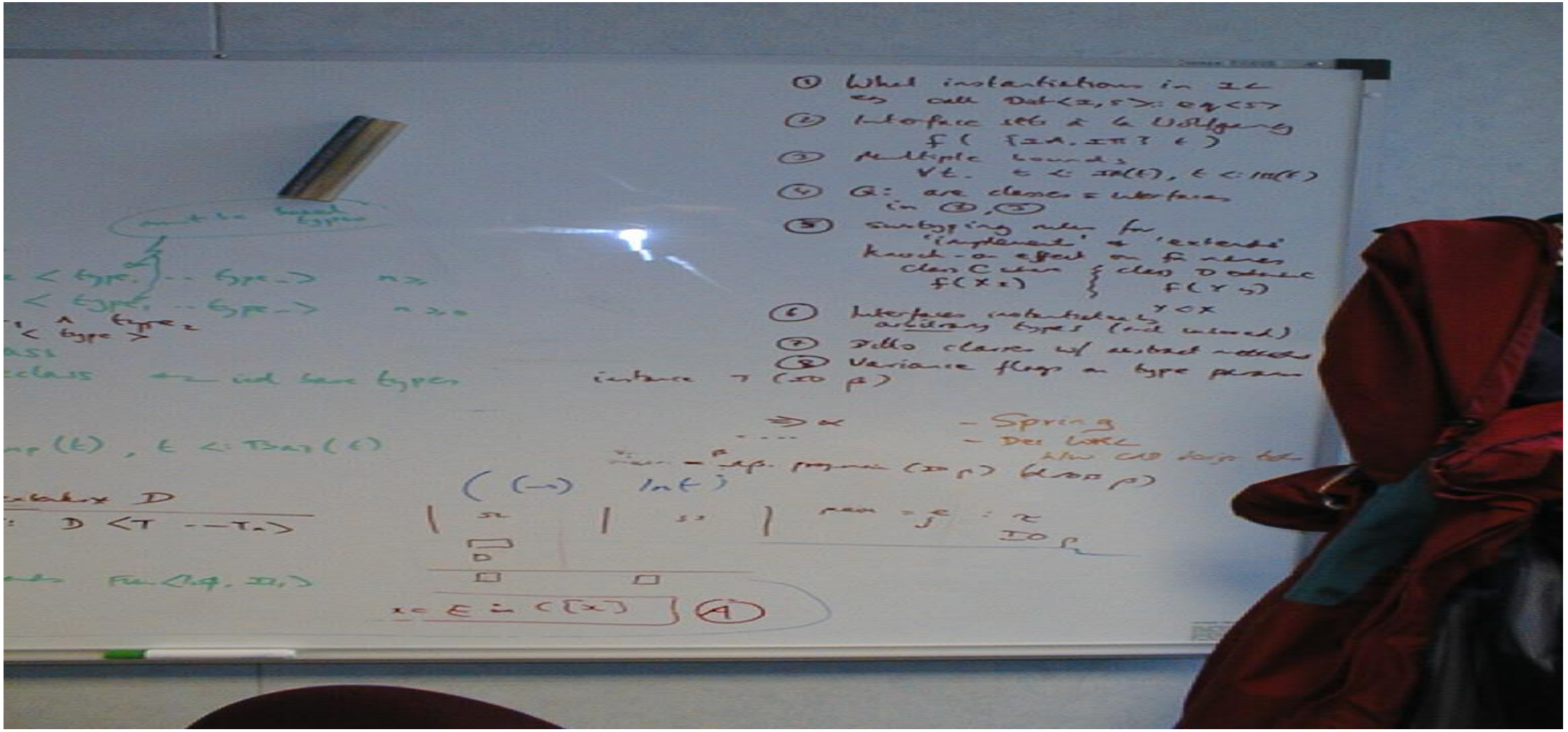
Don Syme

So much of what I loved about programming, was just missing from the experience of programming in Java. And that, in a sense, was a big driving motivation. And as C# 1.0 occurred, I was faced with desperate situation: that I might actually have to do all my programming in either Java or C# 1.0. And I actually had to do personally do something about this at Microsoft, either by improving to the point that it was what I wanted to use, or by working on a new language

Don Syme

SPLASH 2010

.NET Generics,



F# 1.0, 2005

- Unidades de Medida – 2008, Andrew Kennedy, PhD
- Type Providers – 2009

F# 2.0

Incluido en Visual Studio 2010

Open source, 2010

F# Software Foundation

Fundada por Tomas Petricek y Phillip Trelford 2012

fsharp.org

Un esfuerzo de la comunidad.

Mission Statement

> The mission of the F# Software Foundation is to promote, protect, and advance the F# programming language, and to support and facilitate the growth of a diverse and international community of F# programmers.

F# 3.0, 2012

- Visual F# y F#

Código en GitHub, 2015

F# 4.0 2016

- Totalmente *community driven*

F# 4.1, .NET Core

- .NET Core y herramientas

Instalación

cross-platform

.NET Core

- https://github.com/dotnet/netcorecli-fsc/wiki/.NET-Core-SDK-rc4
- (El 7 de marzo se libera la versión estable del SDK)
- Ya.

Demo

Hola, mundo!

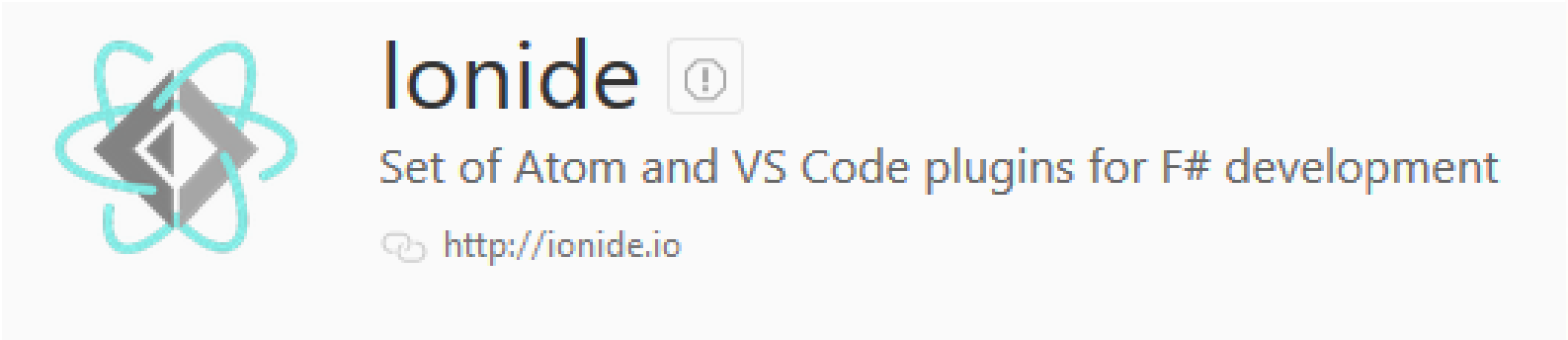
Proyectos y Scripts

IDEs y Editores

- Visual Studio: Visual F#, F# Power Tools
- VS Code, Atom: Ionide

Ionide

- http://ionide.io/



Krzysztof Cieślak
Krzysztof-Cieslak

Hacker, Open Source contributor, makes stuff.

Sintaxis de F#

Demo

Sintaxis básica – tomado de *fsharpforfunandprofit.com*

Características interesantes

Type Providers, Quotations, Units of Messaure, Active Patterns, Mailbox

Demo

Características interesantes

Desarrollo web en F#

La web es funcional

Request -> Response

Y asíncrona

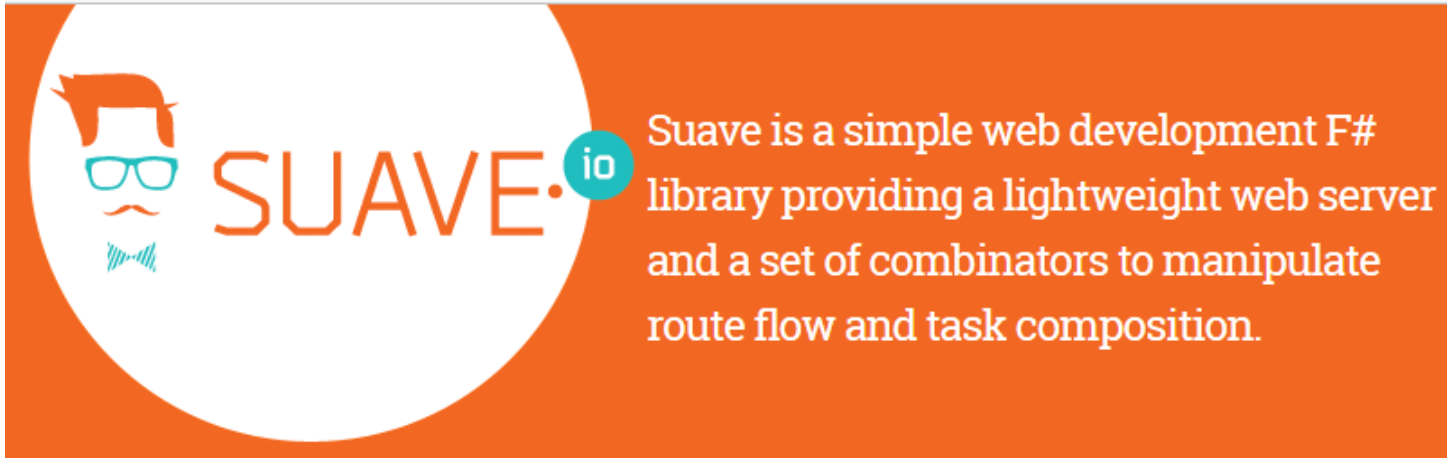
Request -> Async<Response>

Suave.io

Basado en Happstack, yay!

https://github.com/nicolocodev/learnhappstack

WebParts (ServerParts)



Demo

Hola, Suave.io

Más herramientas

- Paket
- Fake

Steffen Forkmann
forki

FAKE - F# Make

FAKE - F# Make - A DSL for build tasks

"FAKE - F# Make" is a build automation system with capabilities which are similar to **make** and **rake**. It is using an easy domain-specific language (DSL) so that you can start using it without learning F#. If you need more than the default functionality you can either write F# or simply reference .NET assemblies.

Paket

What is Paket?

Paket is a dependency manager for .NET and mono projects, which is designed to work well with NuGet packages and also enables referencing files directly from Git repositories or any HTTP resource. It enables precise and predictable control over what packages the projects within your application reference.

Demo

Mejorando la experiencia de desarrollo

Y del lado cliente?

JavaScript no me gusta y ya sé F#

F# all the things

Fable

F# |> BABEL

The compiler that emits JavaScript you can be proud of!

follow contribute chat

Alfonso Garcia-Caro

alfonsogarciacaro

JS/.NET developer in love with functional programming thanks to F#. Creator of Fable: F# to JS compiler.

Demo

Hola, Fable

Proyectos interesantes en Fable

https://github.com/fable-compiler

http://fable.io/repl.html

fable-powerpack

Utilities for Fable apps

F# ★ 9 5 Updated 4 days ago

fable-elmish

Elm-like abstractions for F# apps

fsharp elm fable

F# ★ 47 15 Updated 4 days ago

fable-getting-started

Fully working Fable project which makes it easy to get started

fsharp fable getting-started

F# ★ 12 5 Updated 5 days ago

fable-react

Fable bindings and helpers for React and React Native

react fsharp fable

F# ★ 13 7 Updated on 26 Jan

Demo

Todo con todo

Gracias

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Referencias

- End-to-end Functional Web Development, Tomas Petricek
- PolyConf 16: A brief history of F#, Rachel Reese
- fable-suave-scaffold