A Journey into the Compiler and Tooling

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Agenda

- From F# to JS
- Fable Clients
- What's next

About this talk

- Existing Fable users
- Deeper understanding
- Heroes journey
- F# scripts
- Demo's



From F# to JS F# FCS Typed AST AST AST JS

From F# to JS: FCS

- FSharp Compiler Service
- Fork of dotnet/fsharp
- Re-packaged and on Nuget
- TAST

From F# to JS: Fable AST

- Intermediate format
- Interop ability
- Replacement

From F# to JS: Babel AST

- JSON
- Babel toolchain



Fable Clients

- fable-compiler impractical
- Incremental compilation
- Compile on file change
- fable-splitter
- fable-loader

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Fable Clients: splitter

- Individual files
- NodeJS
- Unit tests
- Easy cli
- Less setup



Fable Clients: webpack loader

- Module bundler
- Async loader





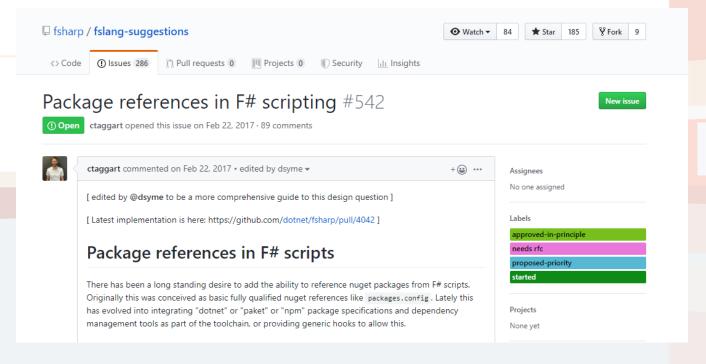
Fable F# scripts

- Personal choice
- 1fsx, 1 js, 1 command
- Sorta needs Paket
- FAKE like integration?
- F# lang suggestion 542

Fable F# scripts: FAKE

```
1: #r "paket:
2: nuget Fake.Core.Target prerelease"
3: #load "./.fake/myscript.fsx/intellisense.fsx"
```

Fable F# scripts: F# lang 542



#package "Microsoft.Azure.WebJobs@2.0.0-*"

What's next?

- Fable compiles Fable
- JS only
- REPL



Coolest part of my day: I've compiled #fsharp code to JavaScript in the browser on an airplane!

@FableCompiler rocks! #fableconf

Tweet vertalen

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