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# WHY F#?

FEW REASONS YOU SHOULD GET FAMILIAR  
WITH F#

# F# - KEY FEATURES

- Multi-paradigm, functional first CLR language
- Exhaustive type system
- Ability to use almost any .NET library
- Well documented
- Great community
- Huge amount of good quality learning material (both paid and free)
- Open Source

# F# - NATIVE TYPES

- Base types - int, float, string, unit, obj
- Lists
- Arrays
- Tuples
- Records
- Discriminated Unions, Option
- Enums
- Units of Measure

# F# - LANGUAGE CONSTRUCTS

- Functions as first class values
- Lambdas
- Pattern matching
- Matching functions
- Pipe operator

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# DEMO

NATIVE TYPES, PATTERN MATCHING,  
PIPES

# F# - TYPE PROVIDERS

- Quick and convenient access to multiple data sources
- No need to create models – sample data is (usually) enough
- Multiple common types are handled in FSharp.Data library:
  - XML
  - JSON
  - HTML
  - SQL
  - CSV
  - ...

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# DEMO

TYPE PROVIDERS

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# DEMO

LUCKY WINNER APP



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# Q&A

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# THE END.

**THANK YOU FOR ATTENDING!**

<https://github.com/bartsokol/FSharpDemos>

<https://github.com/bartsokol/LuckyWinner>