

F# Data Science/Machine Learning/Data Programmability working group

Agenda for 2nd meeting

// please add any topic you think should be discussed
// if you like a topic that has already mentioned, add your initials / name after it,
// so that we can prioritize discussion topics
// Example: Take over the world [Joe, Jane]

Relaunch of the **R Type Provider** [Mathias, TomasP]

Dedicated web page / blog for Machine Learning / Data Science and F# [Mathias, TomasP, Nicolas, Robin]

Launch of the F# **Data Frame** [Mathias, TomasP, Nicolas]

Charting & visualization (aka **VegaHub**) [TomasP, Mathias, Tony]
Cross-platform support (aka does it work on Mac?) [TomasP]

Making local focused **hackaton** [Nicolas]

An ipython notebook plug ? (might spread ressources too thin)

If we'll have some more time:

* NuGet Package that would reference all Data science libraries for F# [TomasP]

Meeting notes

R type provider

New nice documentation at <http://bluemountaincapital.github.io/FSharpRProvider/>

Deedle

Documentation available here: <http://bluemountaincapital.github.io/Deedle/>

Usable from C# and F# .

Supports: timeseries, csv, alignment, sampling, missing values, dataframe as timeseries with shared index, hierarchical index

R provider & Deedle launch

General ideas & tasks

- * [Google Analytics](#) (for R provider & Deedle - Howard + Tomas)
- * [Twitter](#) use the #rstats hash tag (for the R community)
- * [Where to present?](#) Machine learning user groups, R user groups, ... C# people
- * Mono: version 2, get a **team** together, call for help on F# OS forum
 - <http://lifehacker.com/5938332/how-to-run-mac-os-x-on-any-windows-pc-using-virtualbox>
 - <http://www.sysprobs.com/category/hackintosh>
- * Has anyone talked with Hadley Wickham on the R side

Coding & related tasks

- * have everyone to have it installed and ready (and make sure it is easy for new comers)
- * pretty printer for R expressions (SymbolicExpression has Print, integrate with FSI?)
- * interop with Deedle (Tomas + Howard will look into this)

Reviewing and writing

- * Review documentation page: all
- * Blog post ideas: selling F# to R, R to F# : data access, performance, integration, visualisation
- * Blog posts: Jamie, John, Mathias, Sergey, Tomas -> make sure not too many repeats?
- * Presentations: Tony, Jamie, Nicolas, Tomas
- * Video: Tony,
- * Coordinate calendar and review quality [] / proofread [Nicolas]

FsLab

- * NuGet package: Include RProvider, F# Data, Deedle, F# Charting, Math .NET
- * Web site -- Is it a software package or a community web site?
- * Tomas - send email to the group to start discussion

VegaHub

- * <https://github.com/panesofglass/VegaHub>

* Demo video <http://www.youtube.com/watch?v=XoJpLUHigQs>

Hangout - [Video calls can have a maximum of 10 participants](#)