R AnalyticFlow

A flowchart-style GUI for R

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Introduction

- This talk contains…
  - This is “R AnalyticFlow”
  - What’s good?
  - About the software
  - Demo
  - Where are we heading?
This is “R AnalyticFlow”

Main window

Console window

Graphic window
This is “R AnalyticFlow”
This is “R AnalyticFlow”
This is “R AnalyticFlow”

R codes are executed!

```r
> data(iris)
> plot(iris[, 1:4], col = as.integer(iris$species) + 1)
```
What’s good?

- Visual.
  - Easier to think, share and remember.
  - Once created, anyone can use it.

- Flexible.
  - Data analysis is not always straightway.
  - It can represent “branching” processes.

Branching?
“Branching”

Branches:
Plot for exploratory analysis, model checking etc. Not the final outputs, but important in the analysis process.

Mainstream:
Loading data and library, modeling and prediction. Prediction result is the final output.
About the software

- System requirements
  - OS: Windows, Linux and Mac OS X.
    - Linux version runs on Mac OS X.
  - Java >= 5
  - R >= 2.5.0
    - Required packages: rJava, JavaGD and codetools.
    - For multi-byte Windows environment, modified library pack is required (currently available for R <= 2.6.2).
About the software

Development

- Java
- Many open source softwares... thank you!
  - R, JRI, rJava, JavaGD, JUNG, Apache libraries, etc.
About the software

- Availability
  - Freely available!
  - Open sourced under the BSD license.
  - Download from:

http://www.ef-prime.com/
Demo
Where are we heading?

Current status
- “Preview edition”
  - Basic functions are well-developed and tested
  - Many advanced functions are under development
Where are we heading?

- **Next version**
  - A milestone version with important new functions

**Box:**
Contains a subflow nestedly.

**Cache:**
Save / load workspace automatically to avoid re-calculation.
Where are we heading?

■ About us: Ef-prime, Inc.
  – A data analysis company
    • Location: Tokyo, Japan
  – Services:
    • Data analysis consulting
    • Software development
    • Training

■ About me…
  – Ryota Suzuki
    • An author of package “pvclust”
    • Running the company with friends
Where are we heading?

- Our motivation
  - Our needs
    - R is flexible, reliable and open
    - One of the best choice, but we need more

  - Not only a useR!
    - We hope to commit to R, with our viewpoint of business data analysis
    - There will be much in common with other fields of application!
Where are we heading?

Need your help

- Maintenance is tough.
  - For a small company, especially without charge
- Any kind of help is welcomed!
  - Bug / typo report
  - Comments, requests
  - Request for paid support
    - Data analysis
    - Software customization
    - Documentation, etc.
Thank you!

- Enjoy your analysis with…

http://www.ef-prime.com/

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