Package 'SHINYstan'

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Гуре Package	
Γitle Dynamic Documents for R	
Version 0.0.2	
Date 2014-11-05	
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Description R-package based on Shiny helps facilitate bayesian data analysis visualization (especially for RStan users).

Depends R (>= 3.0)

Imports tools, utils, knitr (>= 1.6), yaml (>= 2.1.5), htmltools (>= 0.2.4), caTools Suggests shiny (>= 0.10.1), testthat, digest

 ${\bf System Requirements} \ {\bf pandoc} \ (>=1.12.3) \ -{\bf http://johnmacfarlane.net/pandoc} \ {\bf URL} \ {\bf http://rmarkdown.rstudio.com}$

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 ${\bf NeedsCompilation}$ no

Repository CRAN

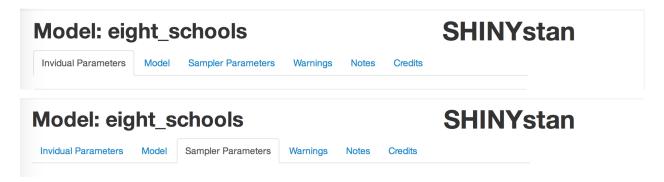
Date/Publication 2014-11-05 18:12:29

1. Using the SHINYstan package

How to get started

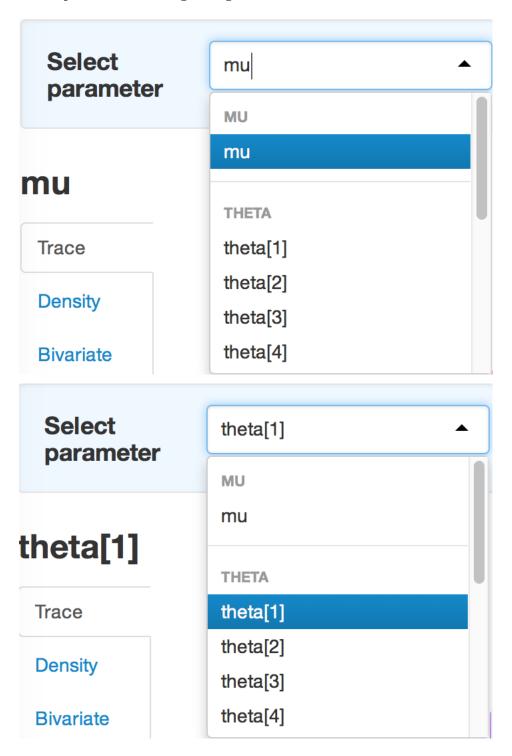
```
library("devtools")
install_github("jgabry/SHINYstan")
library("SHINYstan")
#launch a demo
launch_SHINYstan_demo()
```

"Individual Parameters", "Model", "Sampler Paramters", "Warnings", "Notes", "Credits": use the tabs to switch



Individual Parameters

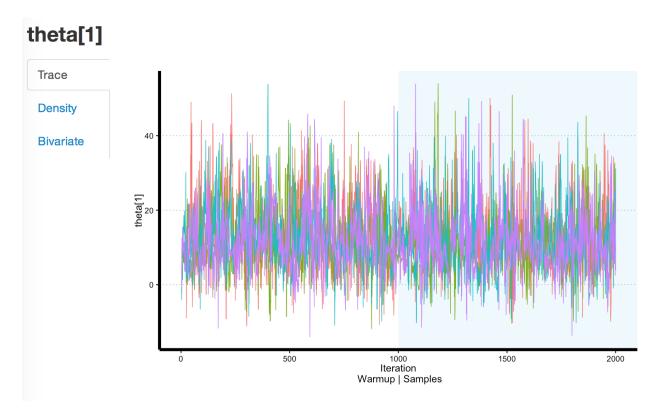
Select parameters through widgets

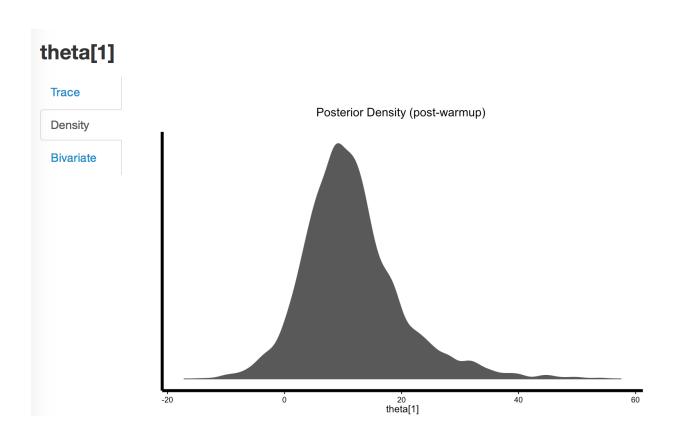


Check Rhat n_eff mean sd 2.5% 50% 97.5% CI from the table

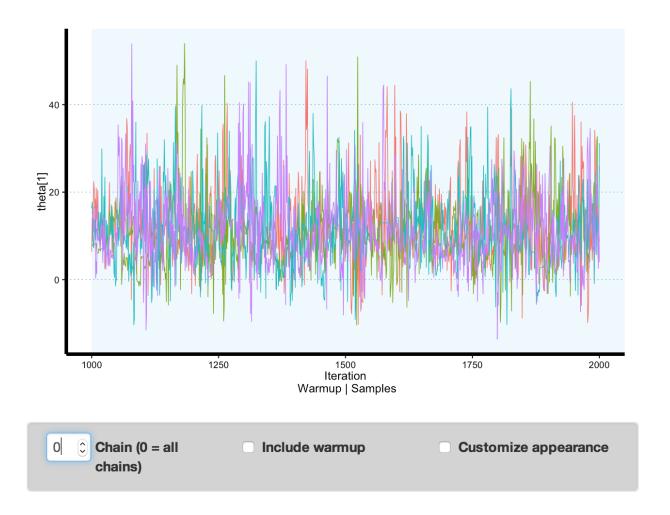


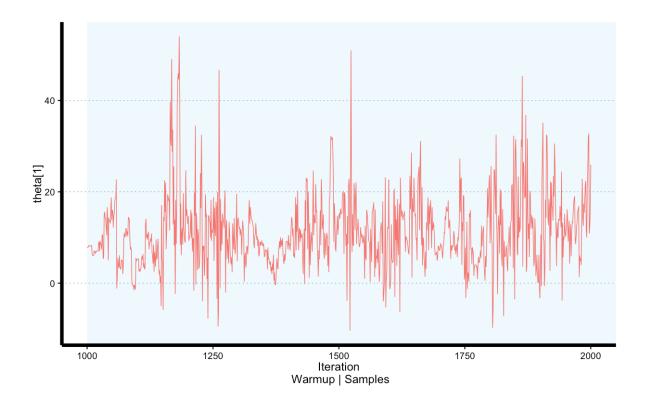
Check Trace, Density, Bivariate Plots by clicking those tabs

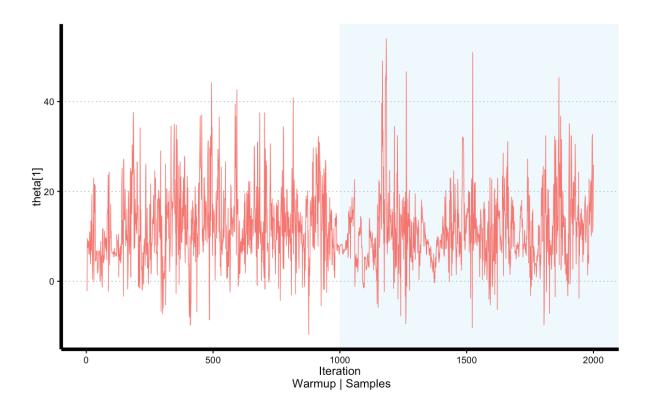




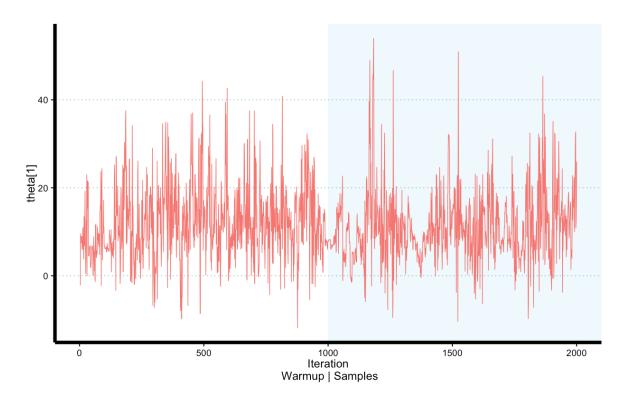
Below Trace Plot, there you can adjust number of chains, whether include warmup or not, even customize appearance

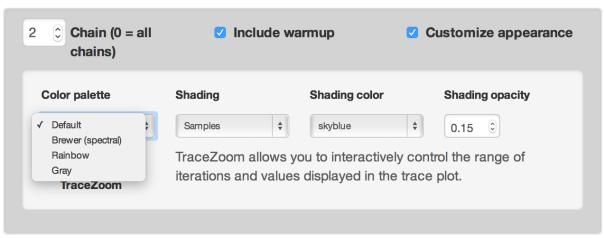


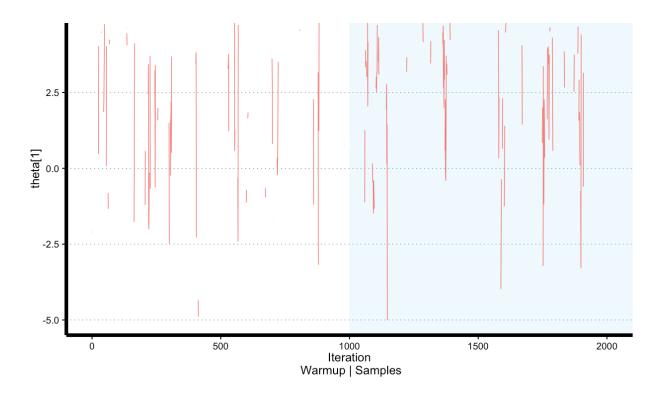


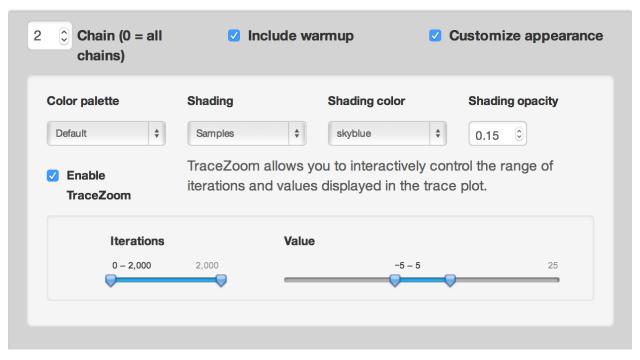


2 © Chain (0 = all variable of line of

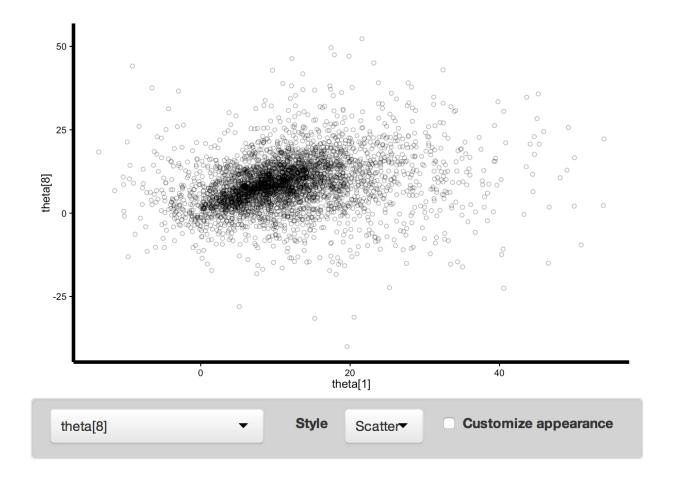








Bivariate plot: select your y axis and style of plot



At bottom of plot, you have the option to save ggplot2 object(.RData)



Model

Parameter Plot and Posterior summary statistics



Parameter Plot

Select or enter parameter names(can select all:ALL theta)



Adjust Credible interval



Posterior summary statistics

Adjust how many parameters displaied per page



Search any parameter



Sort by ascending or descending order

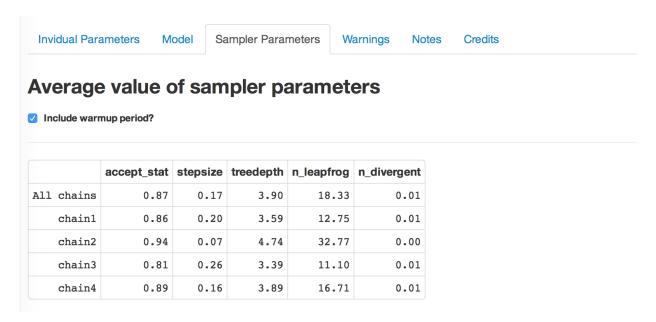


Search any record by type in



Sampler Parameters

Include warmup period or not



Warnings

Take a quick look at warnings



The following parameters have Rhat values above 1.1:

None

Notes

Leave notes and save changes

Invidual Parameters	Model	Sampler Parameters	Warnings	Notes	Credits
		t your model. The text wil are each time SHINYstan			
Save Changes					