

Integration of R into wikis - About - SlideWiki - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

[Log in / create account](#)

article discussion edit history

Integration of R into wikis: About - ZWiki - MediaWiki - Outlook >> >

Integration of R into Wikis

Sigbert Klinke¹, Sibylle Schmerbach², Olga Zlatkin-Troitschanskaia³

¹Institut für Statistik und Ökonometrie, Wirtschaftswissenschaftliche Fakultät⁴

²Institut für Öffentliche Finanzen, Wettbewerb und Institutionen, Wirtschaftswissenschaftliche Fakultät⁵

³Institut für Erziehungswissenschaften, Abt. Wirtschaftspädagogik, Philosophische Fakultät IV⁶

Humboldt-Universität zu Berlin⁷



at useR! 2006⁸ - Vienna 16th June 2006

This page was last modified 12:39, 30 May 2006. This page has been accessed 37 times. Privacy policy About SlideWiki Disclaimers

Powered By MediaWiki

Done

Integration of R into wikis - MediaWiki - SlideWiki - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

[Log in / create account](#)

article discussion edit history

Integration of R into wikis: About - ZWiki - MediaWiki - Outlook < << >> >

- MediaWiki⁹ - the wiki software behind the Wikipedia¹⁰
- complicated LaTeX plug-in for math formulas (incl. amsmath)
 - $E(aX+b)=aE(X)+b$
 - $E(aX + b) = aE(X) + b$ (text rendering, if possible)
 - $E(aX+b)=aE(X)+b\backslash$
 - $E(aX + b) = aE(X) + b$ (graphics, if necessary)

This page was last modified 11:07, 15 May 2006. This page has been accessed 35 times. Privacy policy About SlideWiki Disclaimers

Powered By MediaWiki

Done

Integration of R into wikis - ZWiki - SlideWiki - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

[Log in / create account](#)

article discussion edit history

Integration of R into wikis: About - ZWiki - MediaWiki - Outlook < << >> >

- Zope¹¹ - Python based content management system
 - Used for institute and university web pages
- ZWiki¹² - Wiki plugin for Zope
- LatexWiki¹³ - ZWiki with LaTeX plugin
 - BUT: development stopped at 25 May 2005
- In the framework of the Multimedia-Förderprogramm 2004 of the Humboldt-Universität zu Berlin
 - For R and XploRe integration via external methods in Python developed
 - Development stopped because of LatexWiki
- Example: <http://stirner.wiwi.hu-berlin.de:8080/slides/SYSL/Overview> (german)
 - Integration of R output
 - Integration of (single) R graphics

This page was last modified 14:11, 15 May 2006. This page has been accessed 29 times. Privacy policy About SlideWiki Disclaimers

Powered By MediaWiki

Done

Integration of R into wikis - StatWiki - SlideWiki - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

[Log in / create account](#)

article discussion edit history

Integration of R into wikis: About - ZWiki - MediaWiki - Outlook < << >> >

- StatWiki¹⁴ - Raw Output - HTML - Graphics - Interaction - Further plugins
 - StatWiki¹⁵ - Wiki for students in basic courses in statistics (german)
 - like Wikipedia
 - TeachWiki¹⁶ - Wiki for lecture theses in statistics (german & english)
 - good theses might be transferred to the Wikibook in Statistics¹⁷
- Integration of results via PHP plugins
 - Raw output from R program
 - HTML output from R program
 - Graphical output from R program
 - Forms for interaction

This page was last modified 07:38, 19 May 2006. This page has been accessed 21 times. Privacy policy About SlideWiki Disclaimers

Powered By MediaWiki

Done

File Edit View Go Bookmarks Tools Help

[Log in / create account](#)

article discussion edit history

Integration of R into wikis: About - ZWiki - MediaWiki - Outlook
StatWiki - Raw Output - HTML - Graphics - Interaction - Further plugins

< << >> >

Direct output

```
<R>1:20</R>
```

```
[1] 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
```

Iframe output

```
<R iframe="width:100%;height:40px">1:20</R>
```

```
[1] 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
```

navigation

- Main Page
- Community portal
- Current events
- Recent changes
- Random page
- Help
- Donations

search

Go Search

toolbox

- What links here
- Related changes
- Upload file
- Special pages
- Printable version
- Permanent link

This page was last modified 11:31, 19 May 2006. This page has been accessed 16 times. Privacy policy About SlideWiki Disclaimers

Powered By MediaWiki

Done

File Edit View Go Bookmarks Tools Help

[Log in / create account](#)

article discussion edit history

Integration of R into wikis: About - ZWiki - MediaWiki - Outlook
StatWiki - Raw Output - HTML - Graphics - Interaction - Further plugins

< << >> >

```
<R output="display" convert="-trim" iframe="width:400px;height:400px">
postscript(file=rps, horizontal=FALSE, width=5, height=5)
n <- 10
prob <- 0.2
x <- seq(0, n, 1)
p <- dbinom(x, n, prob)
param <- list(n, prob)
main <- c("Binomialverteilung - Dichtefunktion", paste(c("Stichprobenumfang n", "Wahrscheinlichkeit p"), collapse=""))
plot(x,p, type="h", main=main)
</R>
```

Binomialverteilung - Dichtefunktion
Stichprobenumfang n=10
Wahrscheinlichkeit p=0.2

P

navigation

- Main Page
- Community portal
- Current events
- Recent changes
- Random page
- Help
- Donations

search

Go Search

toolbox

- What links here
- Related changes
- Upload file
- Special pages
- Printable version
- Permanent link

Done

File Edit View Go Bookmarks Tools Help

[Log in / create account](#)

article discussion edit history

Integration of R into wikis: About - ZWiki - MediaWiki - Outlook
StatWiki - Raw Output - HTML - Graphics - Interaction - Further plugins

< << >> >

```
<R output="html" iframe="width:100%;height:250px;">
prob=0.15; nmin=1; nmax=15; x=6
m <- rbinom(rep(0:x, each = nmax-nmin+1), rep(nmin:nmax,x), prob)
dim(m) <- c(nmax-nmin+1,x+1)
m <- t(m)
colnames(m) <- format(nmin:nmax)
rownames(m) <- format(0:x)
outHTML(rhtml, m, title="x\n", format="f", digits=4)
</R>
```

x\n	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0	0.8500	0.7225	0.6141	0.5220	0.4437	0.3771	0.3206	0.2725	0.2316	0.1969	0.1673	0.1422	0.1209	0.1028	0.0874
1	1.0000	0.9775	0.9392	0.8905	0.8352	0.7765	0.7166	0.6572	0.5995	0.5443	0.4922	0.4435	0.3983	0.3567	0.3186
2	1.0000	1.0000	0.9966	0.9880	0.9734	0.9527	0.9262	0.8948	0.8591	0.8202	0.7788	0.7358	0.6920	0.6479	0.6042
3	1.0000	1.0000	1.0000	0.9995	0.9978	0.9941	0.9879	0.9786	0.9661	0.9500	0.9306	0.9078	0.8820	0.8535	0.8227
4	1.0000	1.0000	1.0000	1.0000	0.9999	0.9996	0.9988	0.9971	0.9944	0.9901	0.9841	0.9761	0.9658	0.9533	0.9383
5	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9998	0.9994	0.9986	0.9973	0.9954	0.9925	0.9885	0.9832
6	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	0.9999	0.9997	0.9993	0.9987	0.9964

Done

File Edit View Go Bookmarks Tools Help

[Log in / create account](#)

article discussion edit history

Integration of R into wikis: About - ZWiki - MediaWiki - Outlook
StatWiki - Raw Output - HTML - Graphics - Interaction - Further plugins

< << >> >

```
<Rform name="binom">
n: <input name="n" type="text" size="5" maxlength="5" value="10">
prob: <input name="prob" type="text" size="5" maxlength="5" value="0.2">
<input type="submit" value="Submit" /> (You may need to reload the iframe below after submitting).
</Rform>
```

Binomialverteilung - Wahrscheinlichkeitsfunktion
Stichprobenumfang n=10
Wahrscheinlichkeit p=0.2

n: 10 prob: 0.2 Submit (You may need to reload the iframe below after submitting).

Done

Integration of R into wikis - Further plugins - SlideWiki - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

Log in / create account

article discussion edit history

navigation

- Main Page
- Community portal
- Current events
- Recent changes
- Random page
- Help
- Donations

search

Go Search

toolbox

- What links here
- Related changes
- Upload file
- Special pages
- Printable version
- Permanent link

Integration of R into wikis: About - ZWiki - MediaWiki - Outlook
StatWiki - Raw Output - HTML - Graphics - Interaction - **Further plugins**

<< >> >

General plugins

- LaTeX plugin

```
<latex>...</latex>
```

URL plugin

```
<url src="...">regular expression</url>
```

NiceTable plugin

```
<tph>...</tph>
```

```
<trp>...</trp>
```

For StatWiki Index

- Index plugin

Done

Integration of R into wikis - Outlook - SlideWiki - Mozilla Firefox

File Edit View Go Bookmarks Tools Help

Log in / create account

article discussion edit history

navigation

- Main Page
- Community portal
- Current events
- Recent changes
- Random page
- Help
- Donations

search

Go Search

toolbox

- What links here
- Related changes
- Upload file
- Special pages
- Printable version
- Permanent link

Integration of R into wikis: About - ZWiki - MediaWiki - Outlook

< << >> >

Modifications suggested by Markus Cozowicz (Vienna)

- direct="true"
- echo="true"

Rewrite PHP code as PHP class and streamline

Security issues

Saving and loading of workspaces

Download http://mars.wiwi.hu-berlin.de/mediawiki/sk/index.php/R_Plugin_for_MediaWiki

Wishes

- Output like in Sweave
- Rewrite of OutHTML, use of R2HTML or stable
- Integration of Yxilon and other statistical software
- Interactive examples with sliders etc.

A dream: a user driven help system (for R)

This page was last modified 09:32, 31 May 2006. This page has been accessed 39 times. Privacy policy About SlideWiki Disclaimers

Powered By MediaWiki

Done