

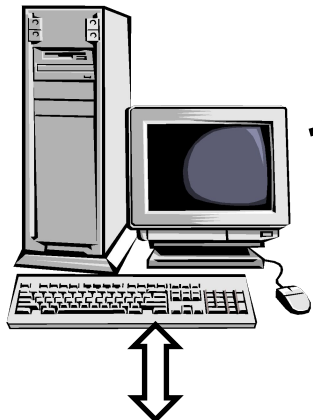


Сервер вычислений и web- интерфейс для работы с математическими и статистическими пакетами

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Стариков И.В.

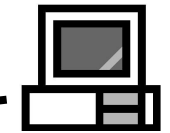
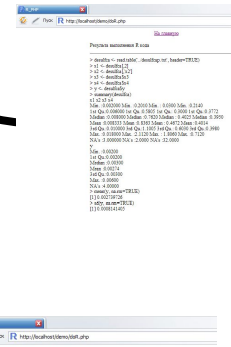
Концепция удаленных вычислительных систем

Сеть



http

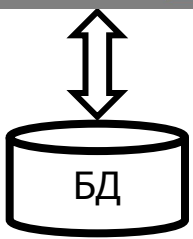
http



Клиент 1



Клиент 2



```
## Console
Max: 10.00000
Min: 14.00000
> mean(y, na.rm=TRUE)
[1] 0.000792424
> sd(y, na.rm=TRUE)
[1] 0.000814103
> hist(x1)
> hist(x2)
> hist(x3)
> hist(x4)
> hist(y, border="blue")
> t.test(x1,y)

## R Graphics: Device: 2 (ACTIVE)
Histogram of y
Frequency
50
40
30
20
10
0
0.002 0.003 0.004 0.005 0.006
y
```

Коммерческие реализации

Создать вкладку TWT department of MPE... X

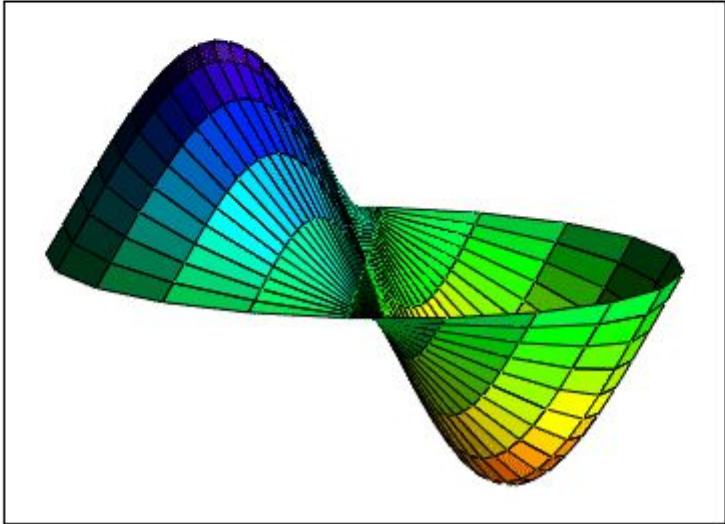
Пуск <http://twmmas.mpei.ac.ru/mas/worksheets/drum.mcd>

time: 0 ▾ Pick a different time in the drum's cycle of oscillation to see the deformation in the surface at that time.

mode: 1 2 3 Pick a different mode to see how higher order modes resonate on the drum's surface. The n=1 mode will be dominant, but higher modes result in harmonics in tone.

cycle := 20 $f(x) := J_n(\text{mode}, x) \cdot \cos\left(\frac{t}{\text{cycle}} \cdot 2 \cdot \pi\right)$

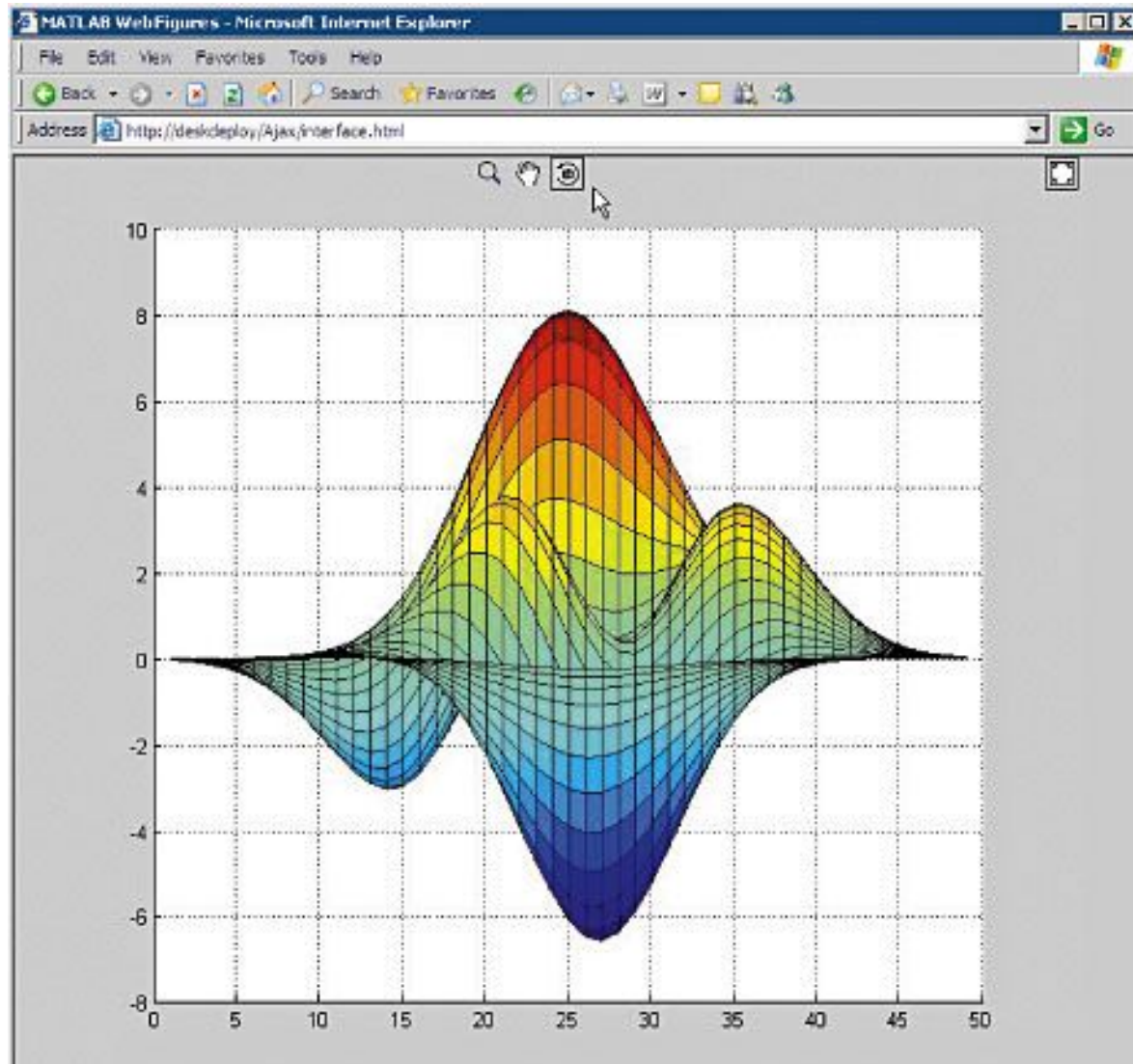
The mode looks like this:



A 3D surface plot showing the deformation of a drum's surface over time. The surface is colored with a gradient from purple (high) to green (low), and is shown in a perspective view. The plot illustrates a complex, multi-lobed shape, characteristic of a higher-order mode of vibration.

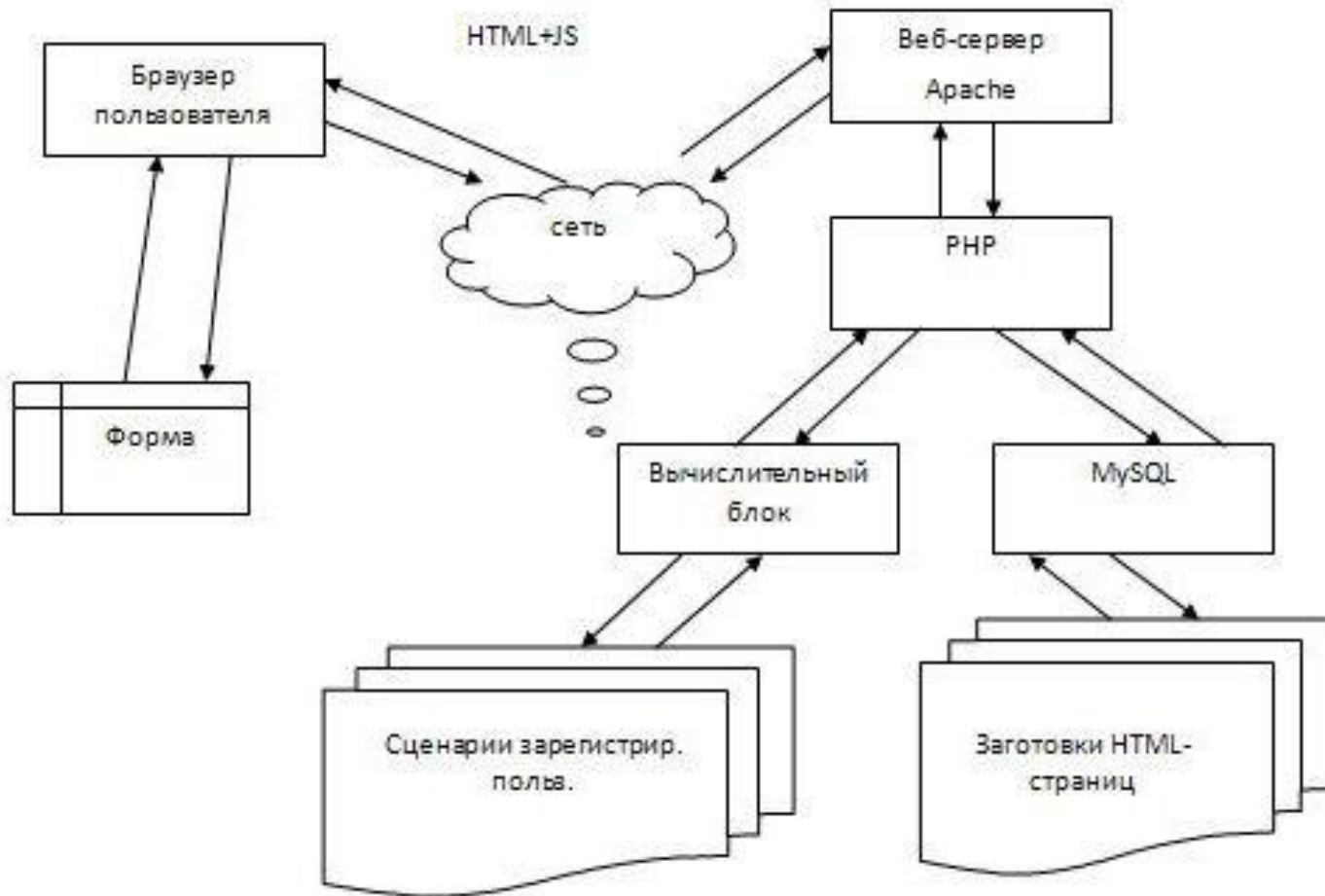
Mathcad

Коммерческие реализации

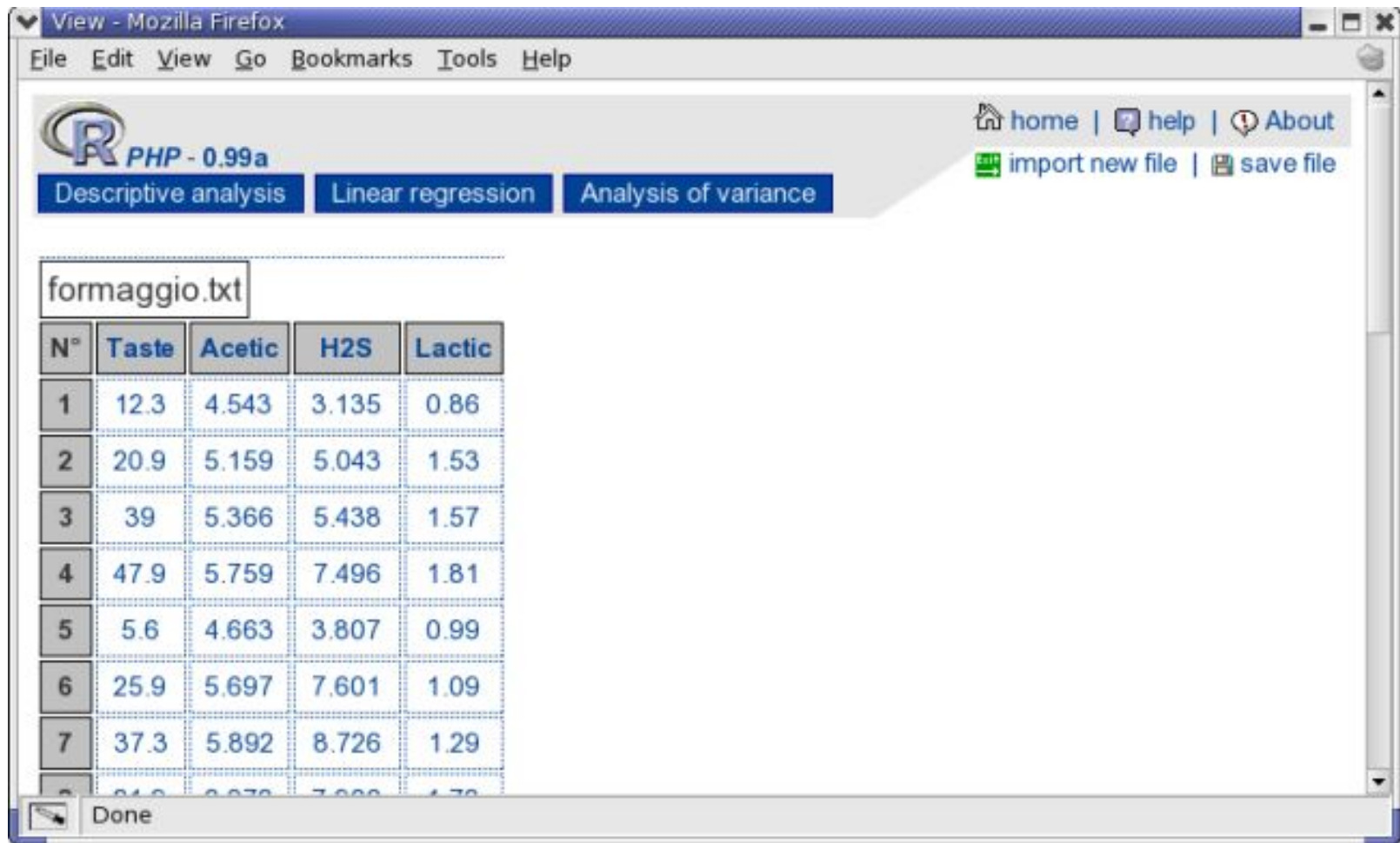


Matlab

Схема системы на PHP



Веб-интерфейс R-PHP



The screenshot shows the R-PHP web interface in Mozilla Firefox. The browser title is "View - Mozilla Firefox". The menu bar includes "File", "Edit", "View", "Go", "Bookmarks", "Tools", and "Help". The page header features the R-PHP logo and version "0.99a". Navigation links include "home", "help", "About", "import new file", and "save file". The main content area displays a table of data for the file "formaggio.txt". The table has five columns: "N°", "Taste", "Acetic", "H2S", and "Lactic". The data rows are as follows:

N°	Taste	Acetic	H2S	Lactic
1	12.3	4.543	3.135	0.86
2	20.9	5.159	5.043	1.53
3	39	5.366	5.438	1.57
4	47.9	5.759	7.496	1.81
5	5.6	4.663	3.807	0.99
6	25.9	5.697	7.601	1.09
7	37.3	5.892	8.726	1.29
8	81.9	9.878	7.888	1.78

The status bar at the bottom left shows "Done".

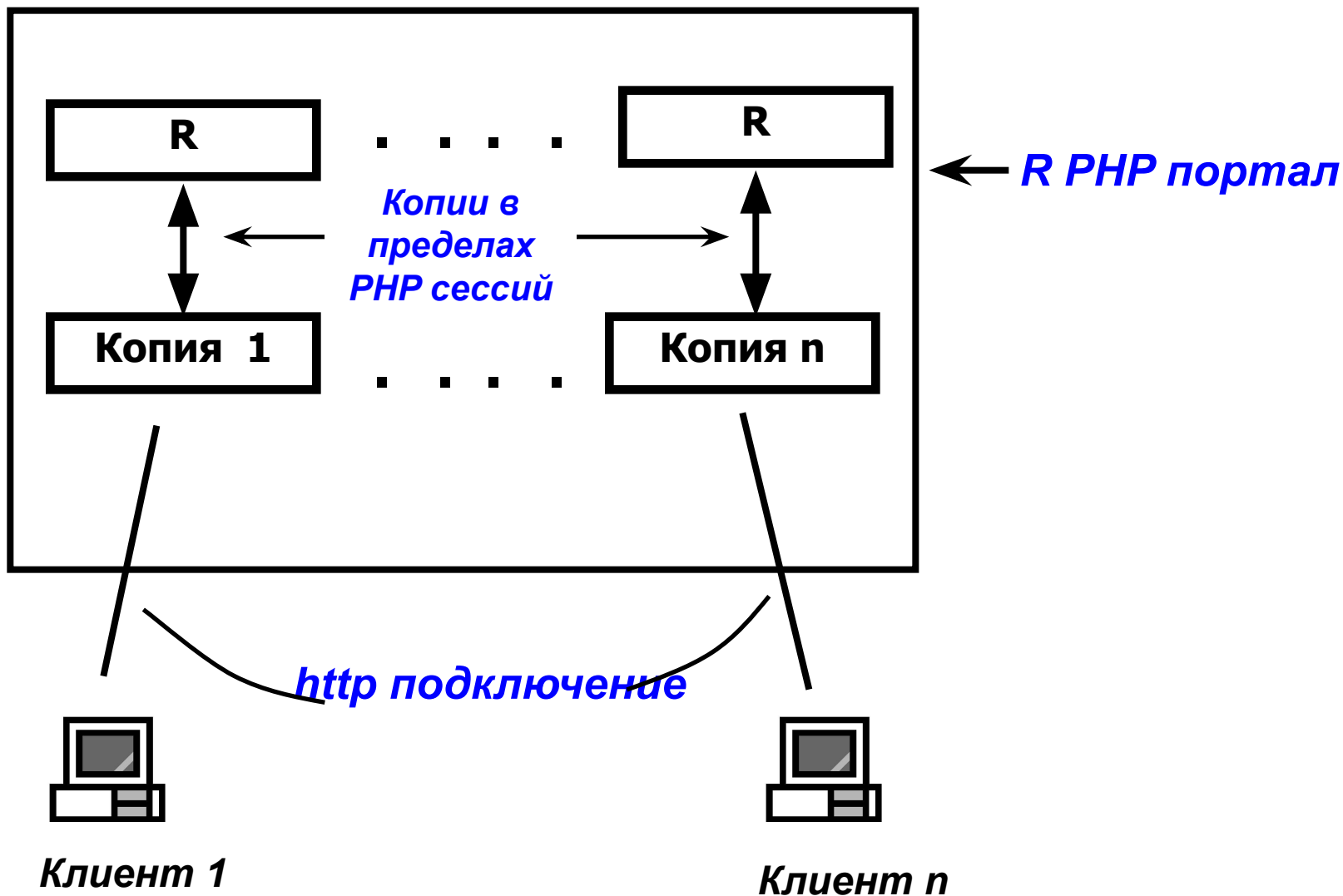
Просмотр списка небезопасных функций для R

[На главную](#)

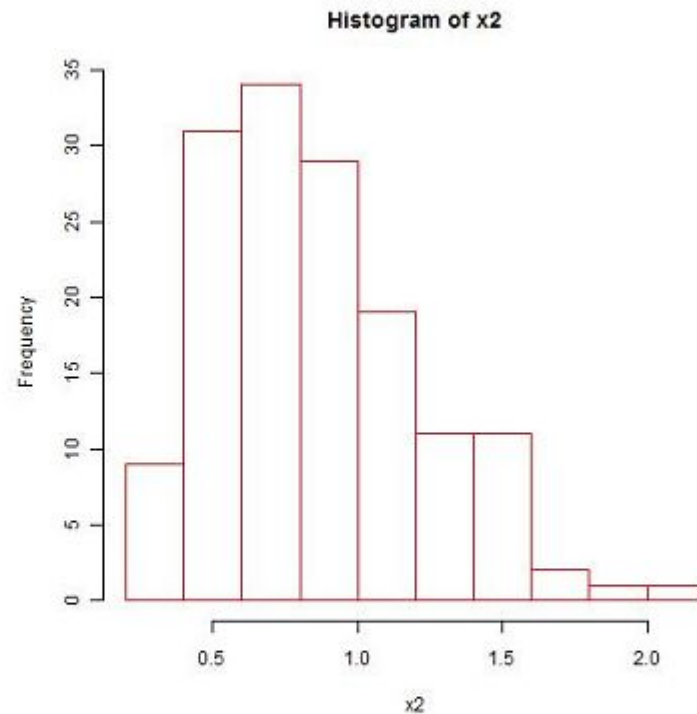
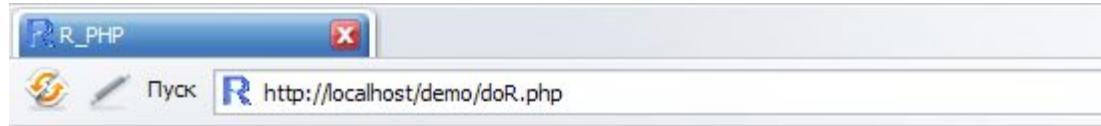
Список небезопасных R функций:

.Call
.Call.graphics
.External
.External.graphics
.Fortran
.Script
.Tcl
.Tcl.args
.Tcl.callback
.Tk.ID
.Tk.newwin
.Tk.subwin
.Tkroot
.Tkwin
.readRDS
.saveRDS
GTK
GTK.GNOME
Gnome
R.home
R.version
Rprof
Sys.getenv

Многозадачность



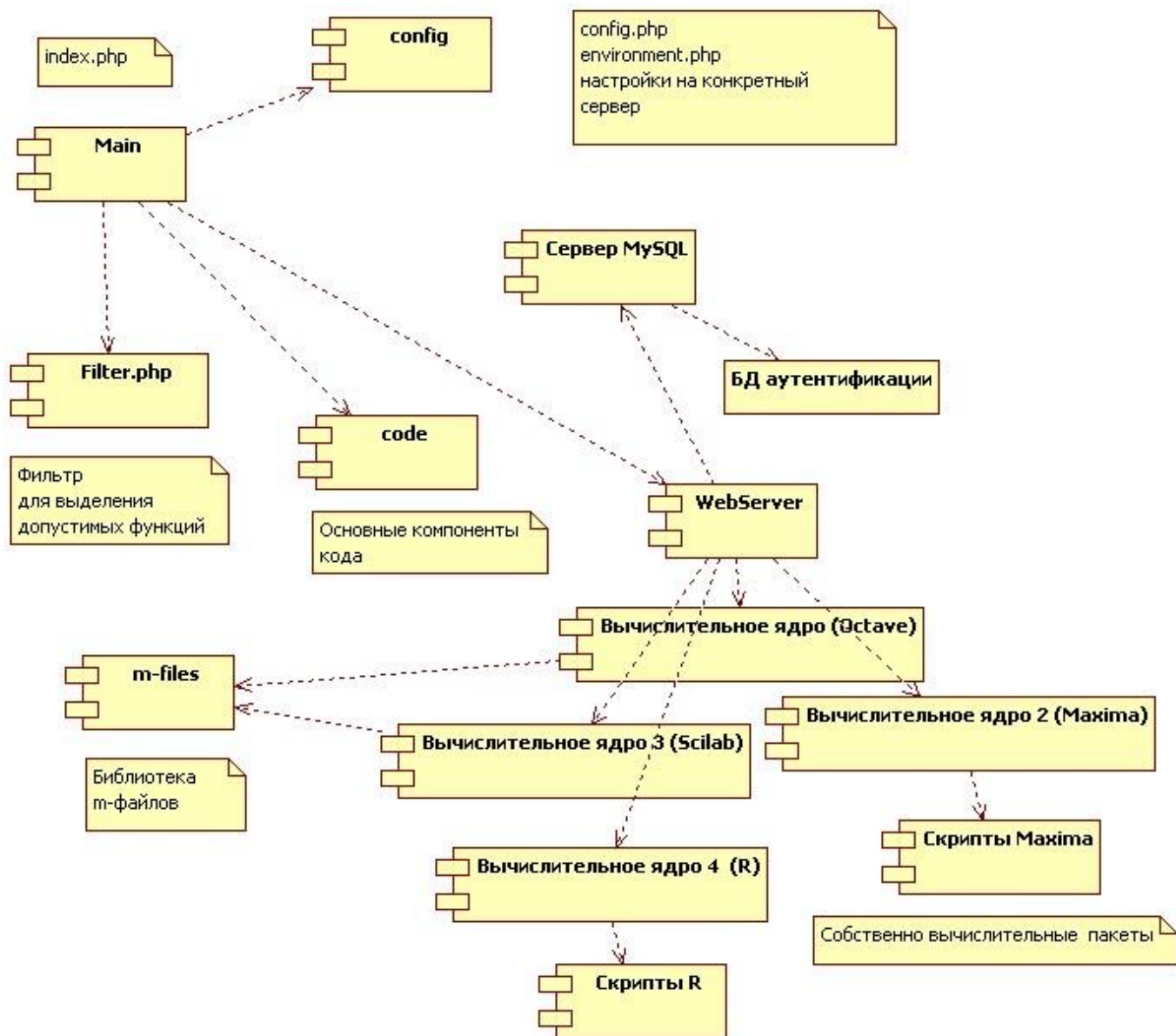
Вывод построенного графика



```
> jpeg(file="tmp/k2clx3.jpg")  
> hist(x3, border="green")  
> dev.off()
```

Histogram of x3

Диаграмма компонентов



Контактная информация

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