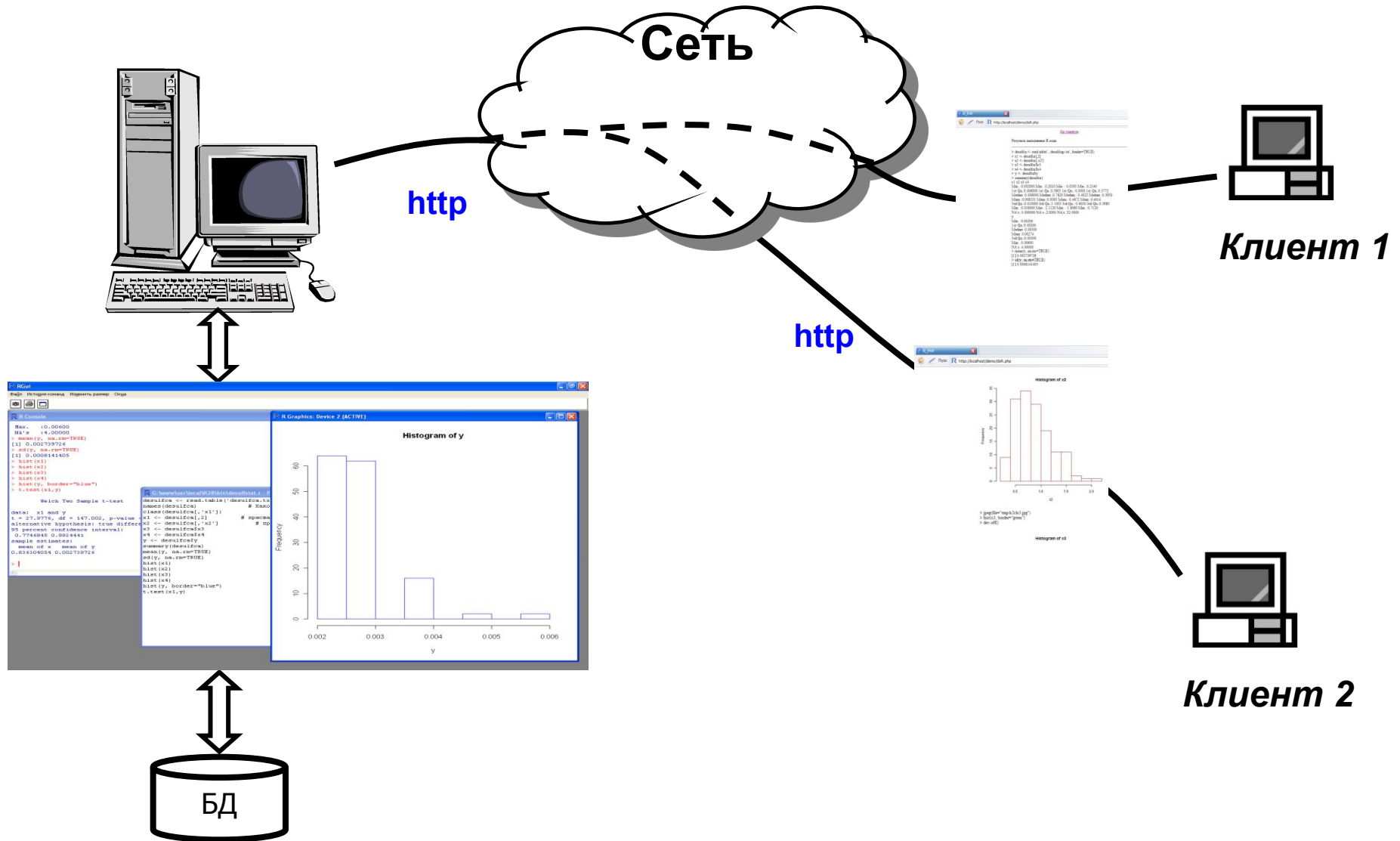




Сервер вычислений и web- интерфейс для работы с математическими и статистическими пакетами

д-т Чичкарев Е.А.
Стариков И.В.

Концепция удаленных вычислительных систем



Коммерческие реализации

Создать вкладку TWT department of MPE... X

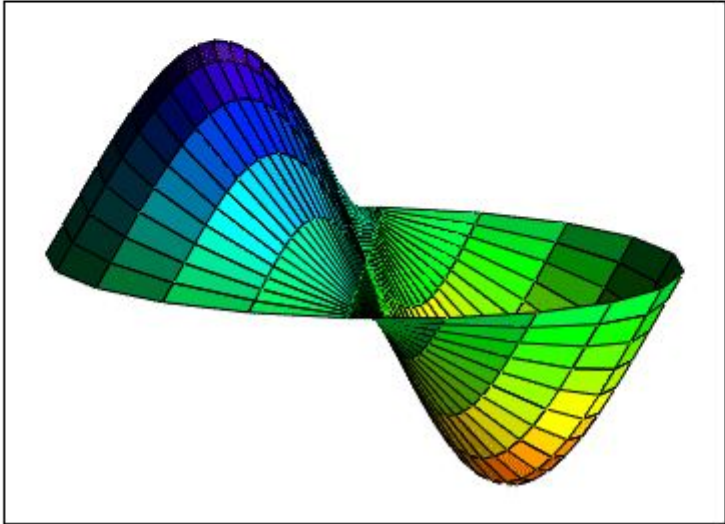
Пуск <http://twmmas.mpei.ac.ru/mas/worksheets/drum.mcd>

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

mode: 1 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.
 2
 3

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

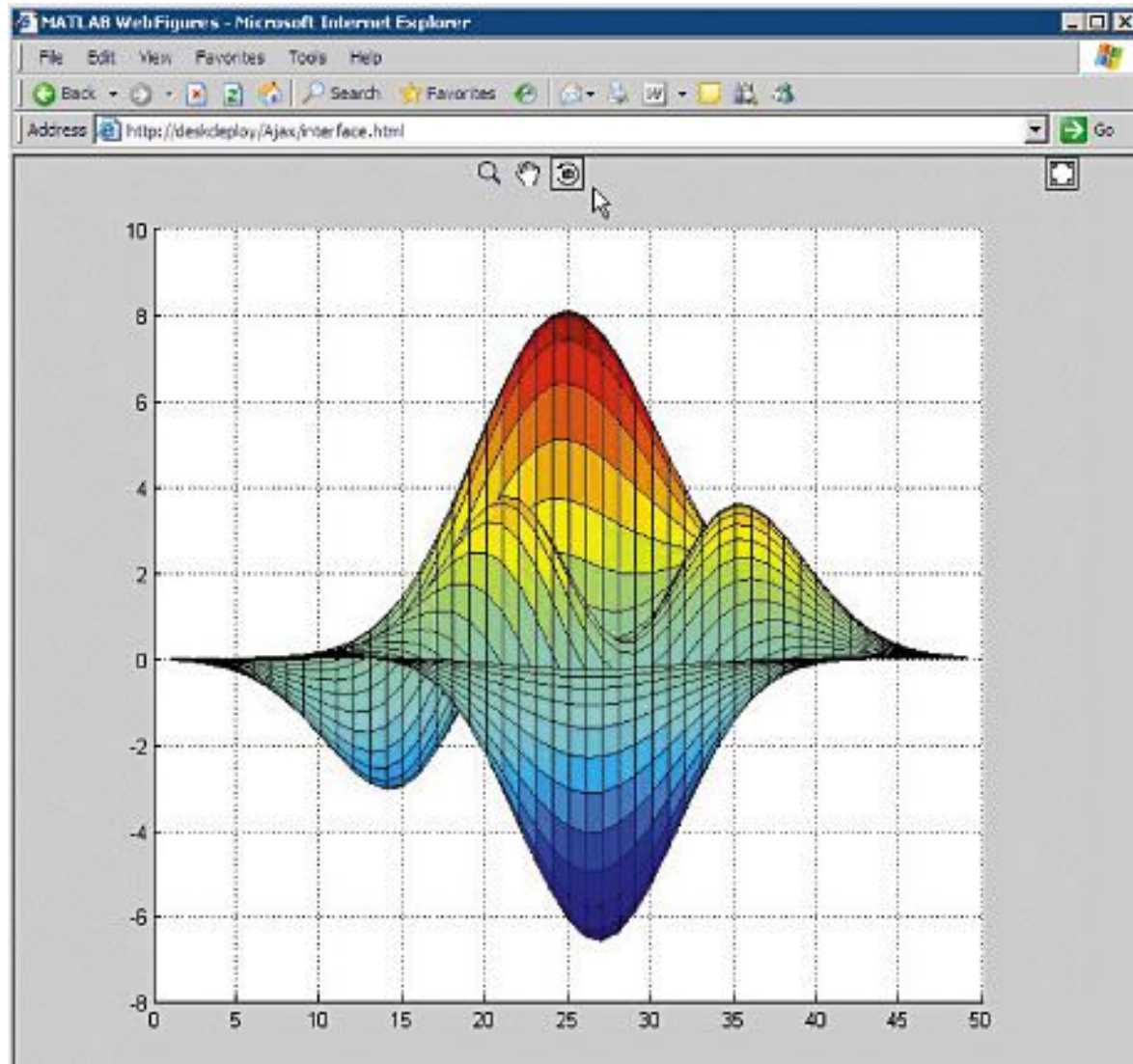
The mode looks like this:



A 3D surface plot showing the deformation of a drum's surface over time. The surface is colored with a gradient from purple/blue at the top to green/yellow at the bottom. The plot shows a complex, multi-lobed shape, characteristic of a higher-order mode of vibration.

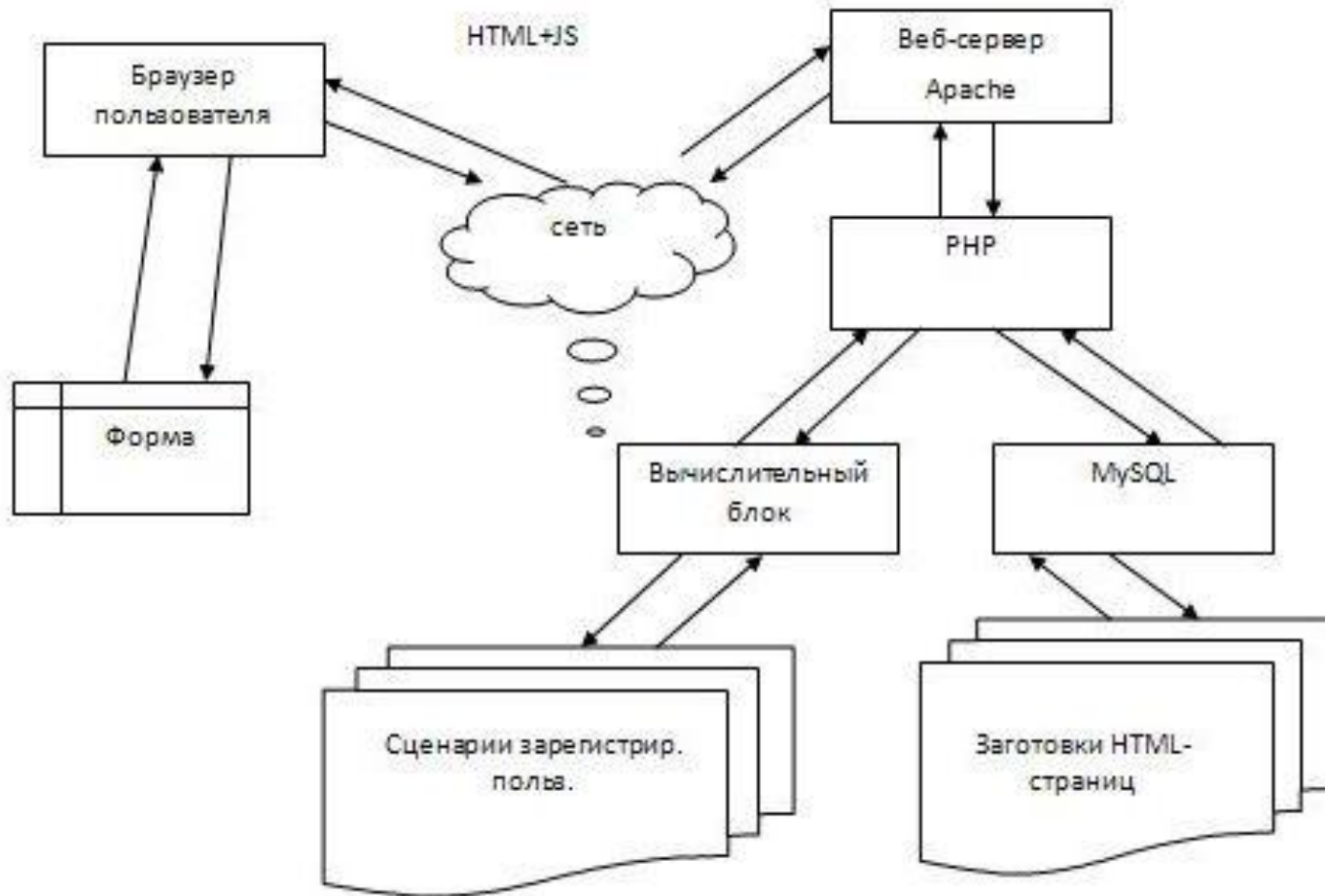
Mathcad

Коммерческие реализации

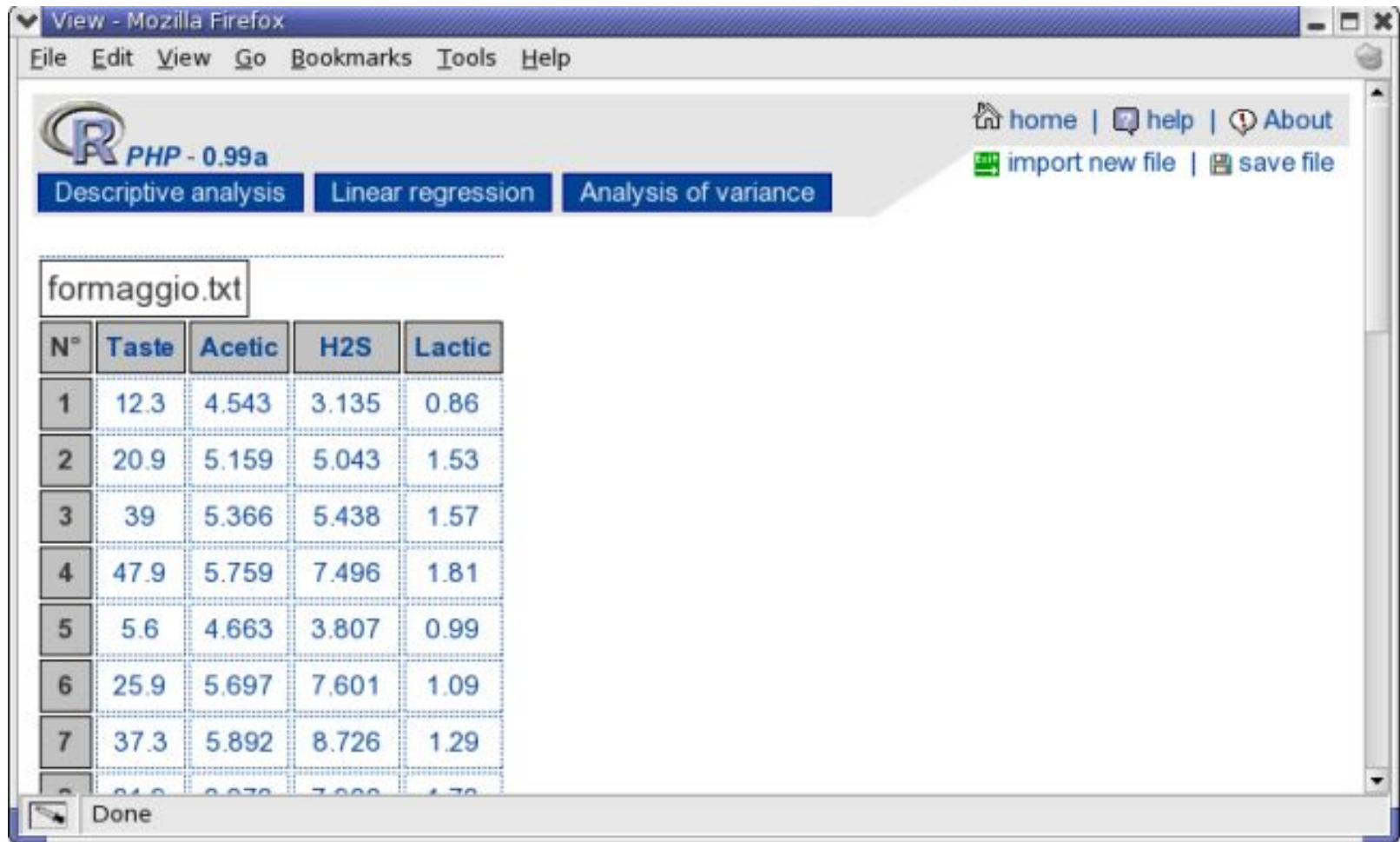


Matlab

Схема системы на PHP



Веб-интерфейс R-RHR



The screenshot shows the R-RHR web interface running in Mozilla Firefox. The browser window title is "View - Mozilla Firefox". The menu bar includes "File", "Edit", "View", "Go", "Bookmarks", "Tools", and "Help". The page header features the R logo and "R PHP - 0.99a". Navigation links include "home", "help", "About", "import new file", and "save file". The main content area has three tabs: "Descriptive analysis", "Linear regression", and "Analysis of variance". A text input field contains the filename "formaggio.txt". Below it is a table with 5 columns: "N°", "Taste", "Acetic", "H2S", and "Lactic". The table contains 8 rows of data. The status bar at the bottom shows "Done".

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

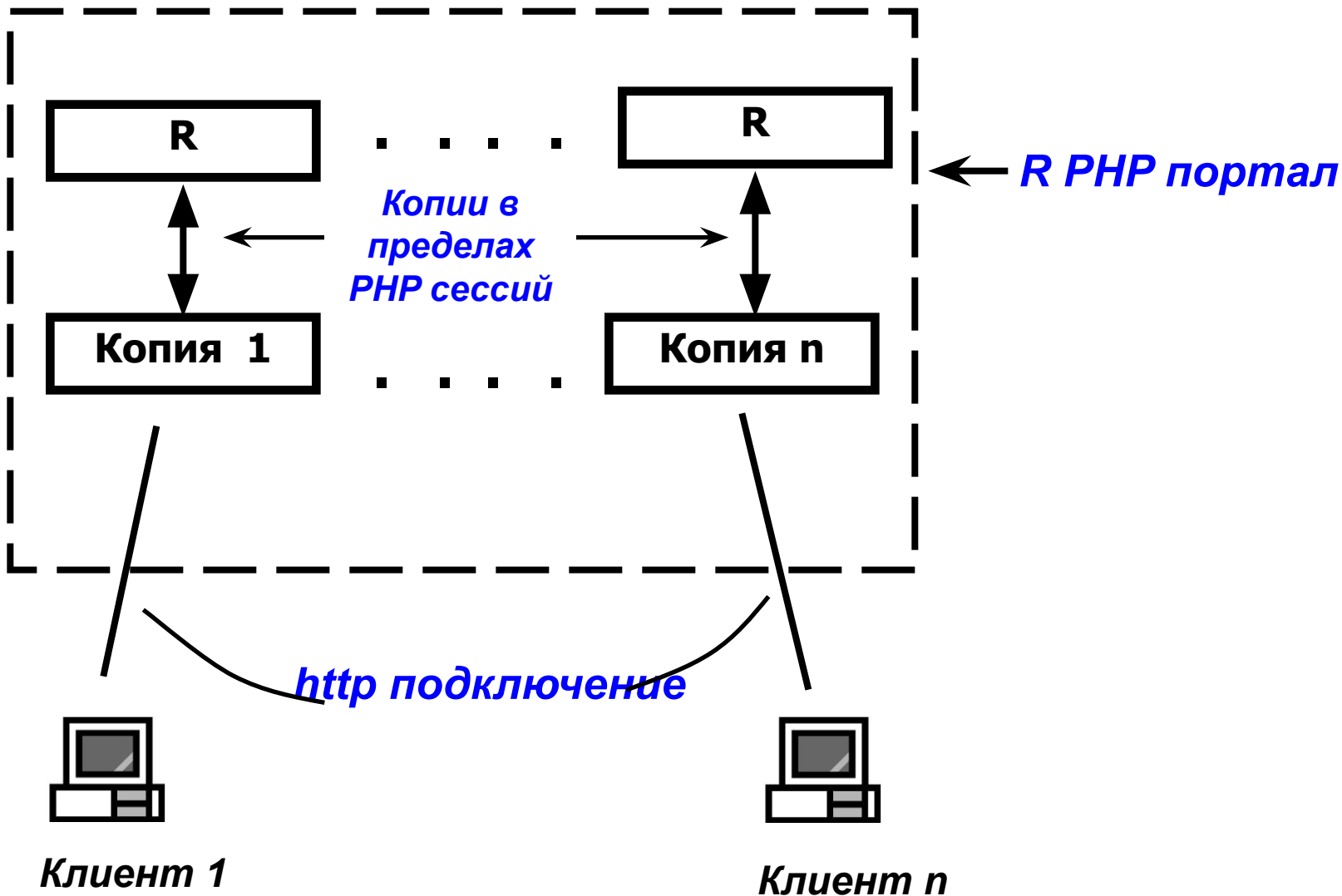
Просмотр списка небезопасных функций для R

[На главную](#)

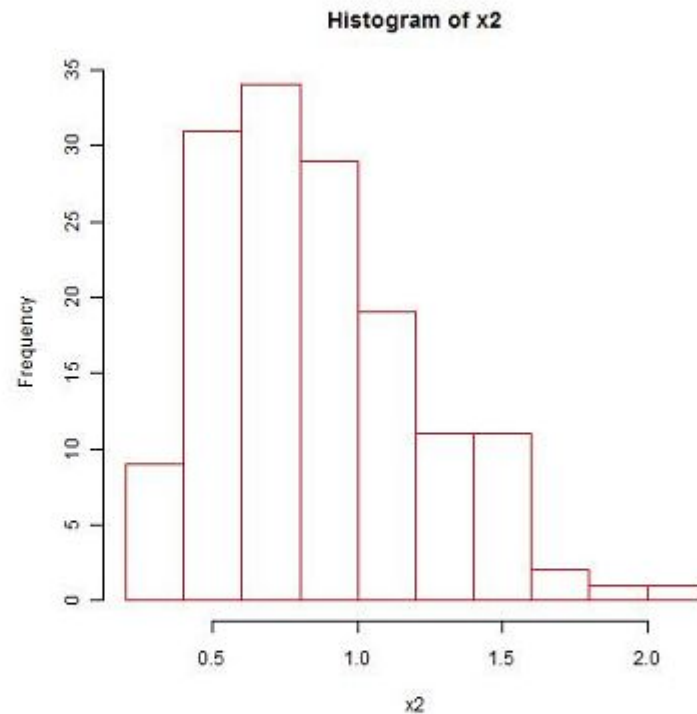
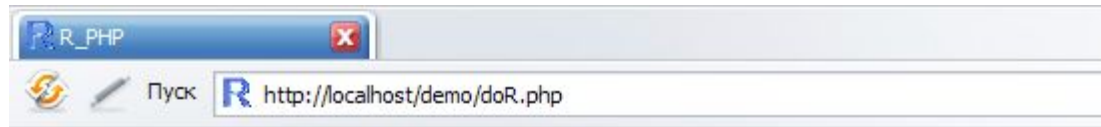
Список небезопасных R функций:

- .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



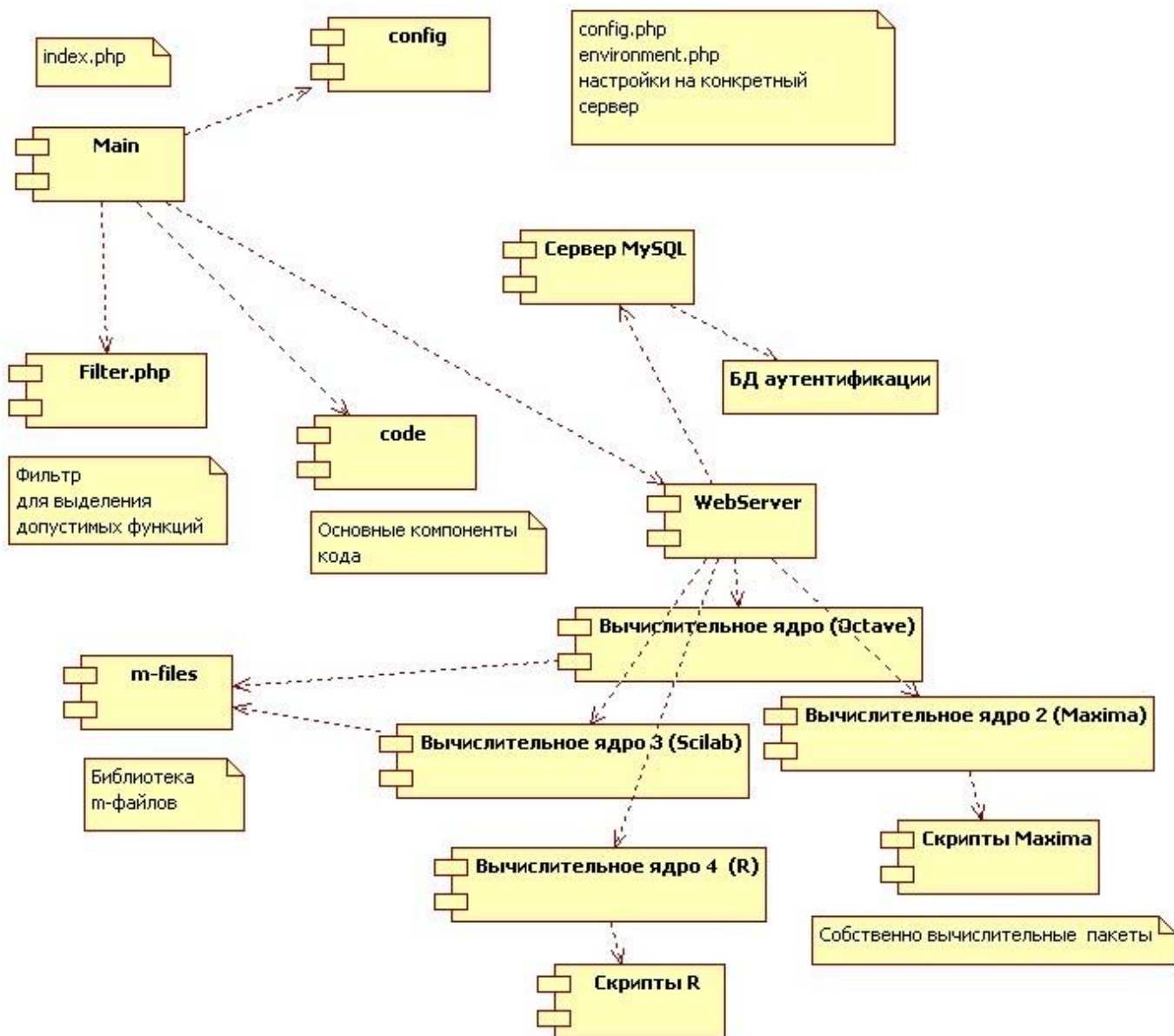
Вывод построенного графика



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

Histogram of x3

Диаграмма компонентов



Контактная информация

Чичкарев Евгений Анатольевич

д-т,к.т.н., преподаватель кафедры Информатика
ПГТУ

 : influence@meta.ua

Стариков Иван Владимирович

выпускник ПГТУ, специальность «Информатика
и прикладная математика»

 : van4ello@gmail.com

 : twitter.com/vanfourello