Intro to 

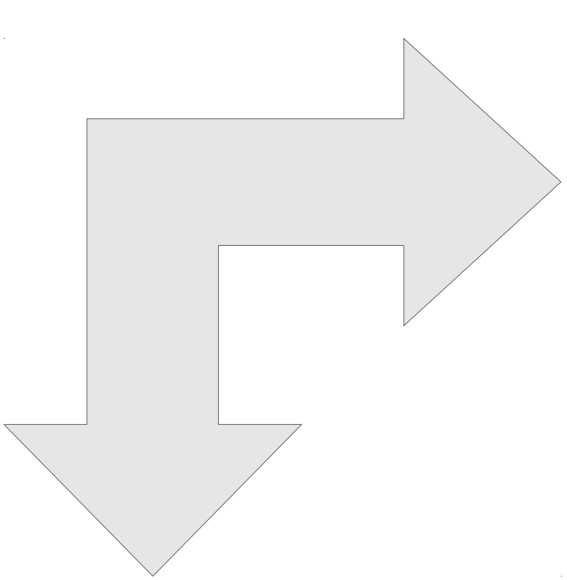
0. Setup on hpc2.org

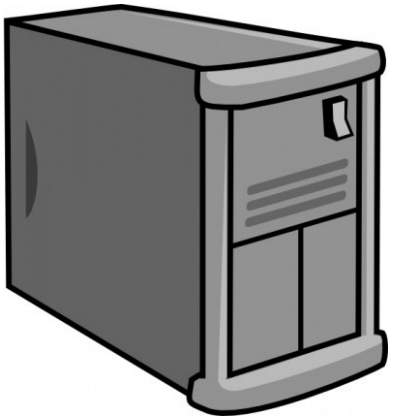
Intro to 

0. Setup on hpc2.org

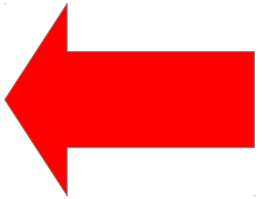
- Register on hpc2.org
- Intro to Rstudio
- Set up with Github
- File transfer: WebDAV

Workshop computing environment





hpc2 server
(webserver, RStudio)



You
are
here!

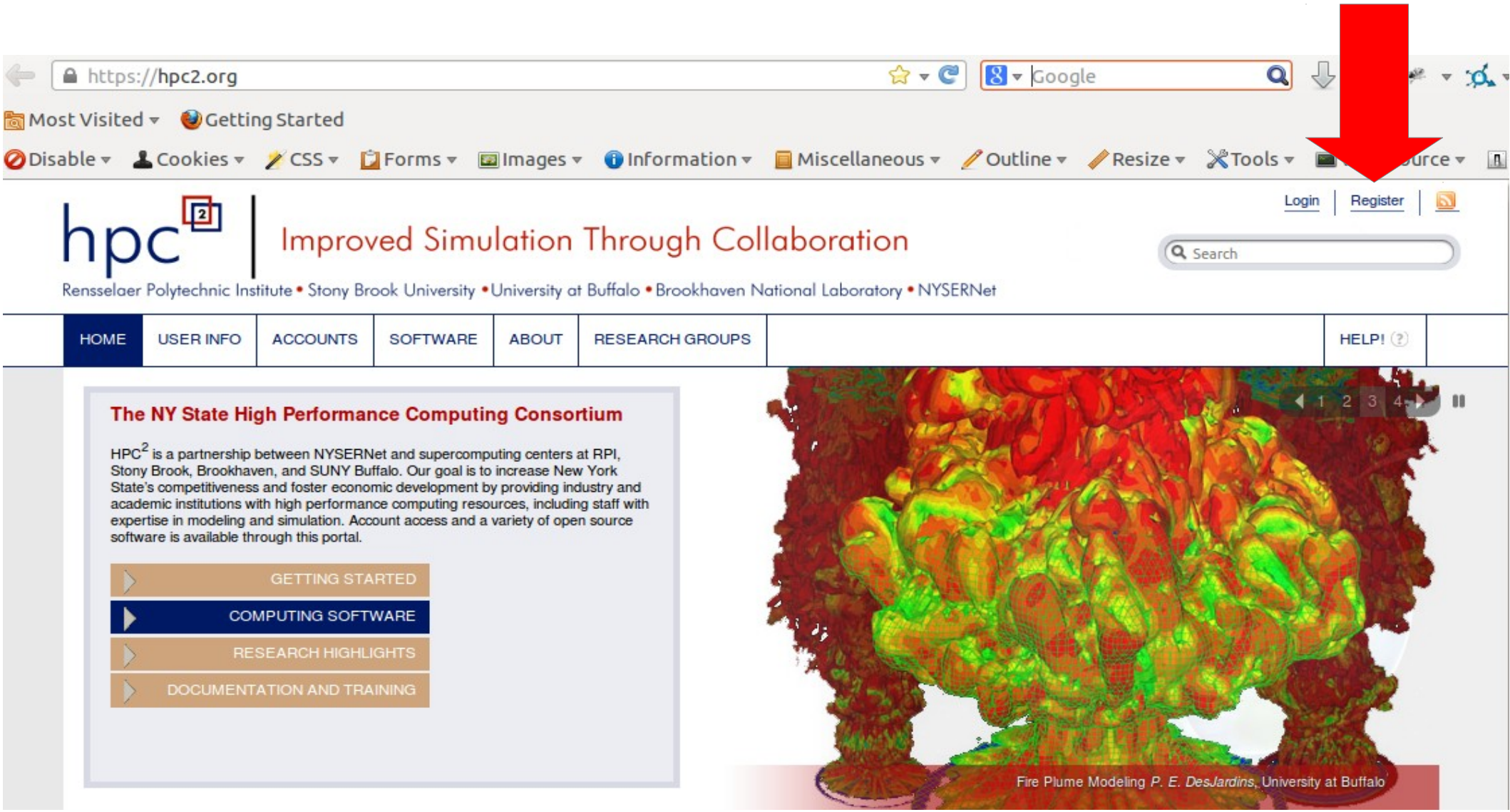
Student workstation
(Firefox browser)

Register on hpc2.org

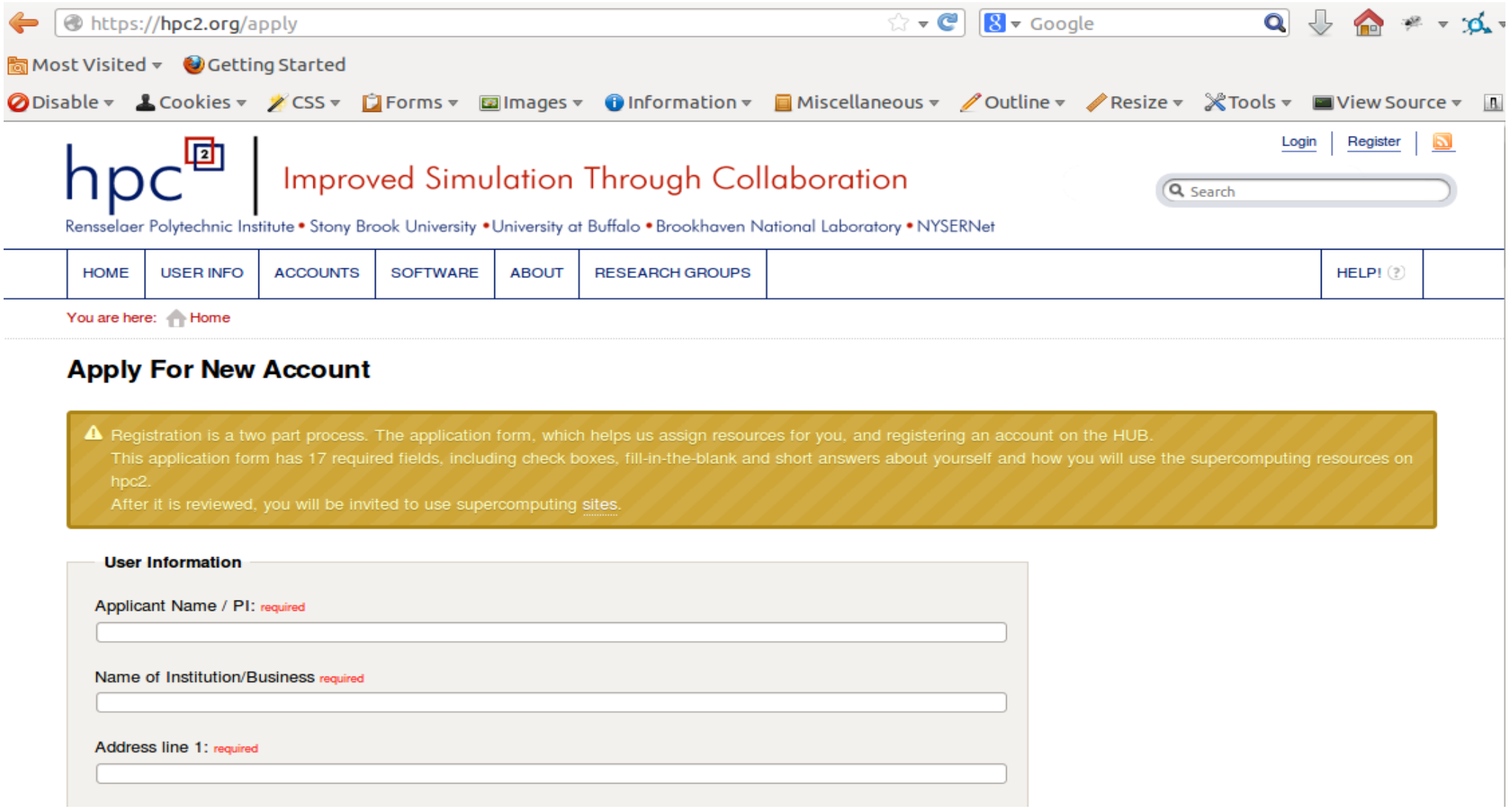
You must have an email address...

1. On hpc2.org website, click Register link
2. Fill in required fields; submit
3. Follow link to Create New Account page
4. Choose username and password; specify email address; submit
5. Click link on confirmation email; sign in

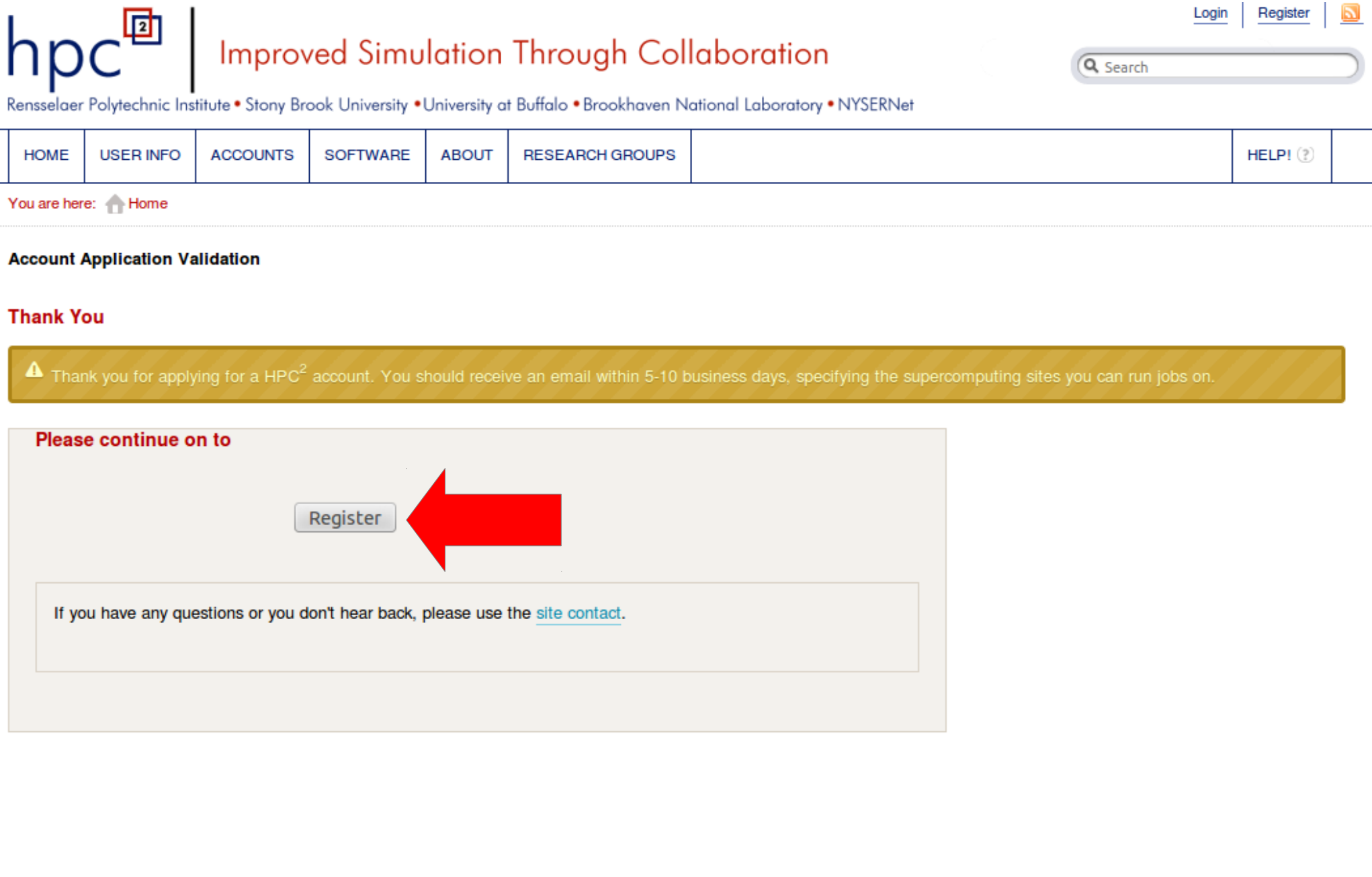
Register on hpc2.org



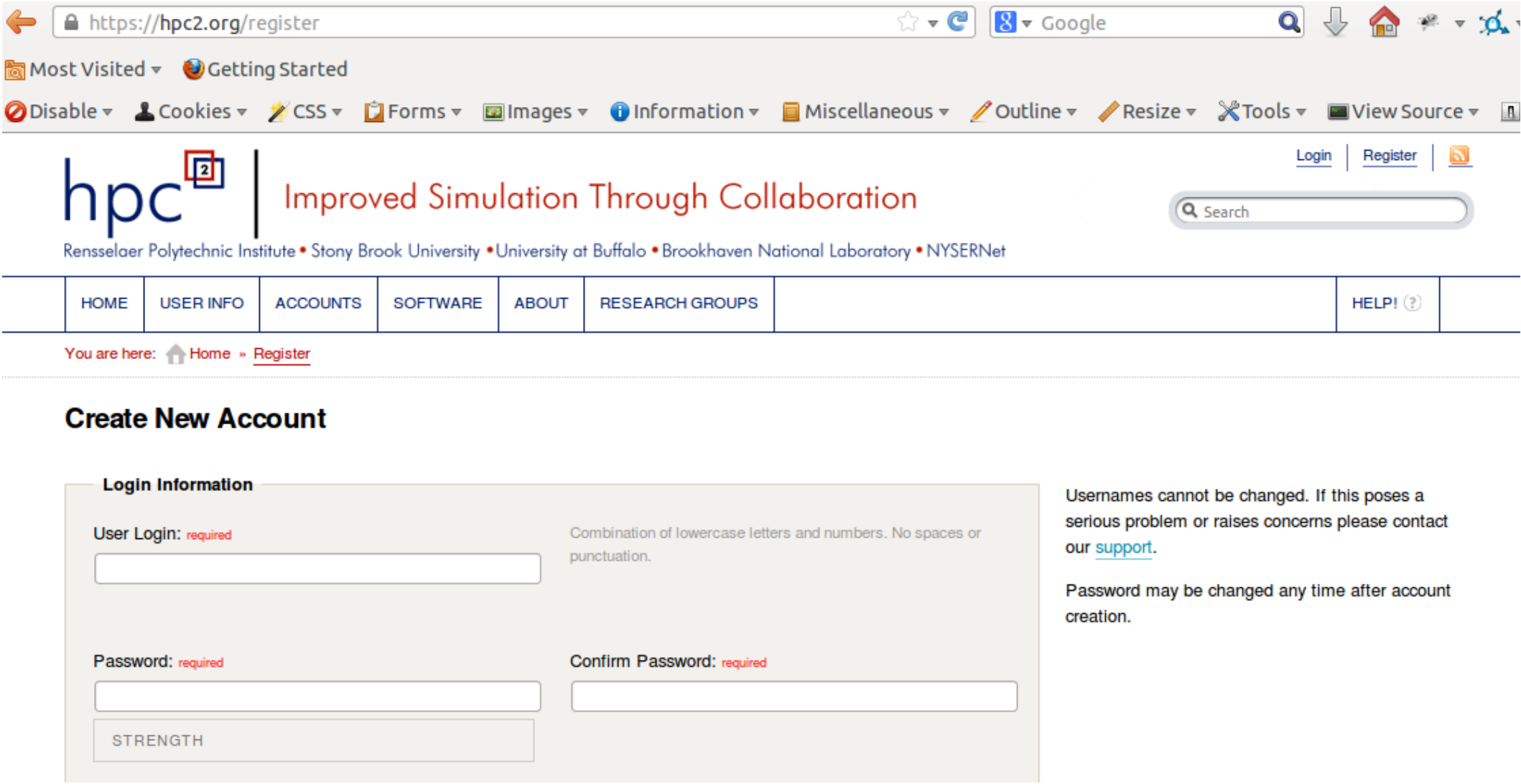
Fill in required fields and submit



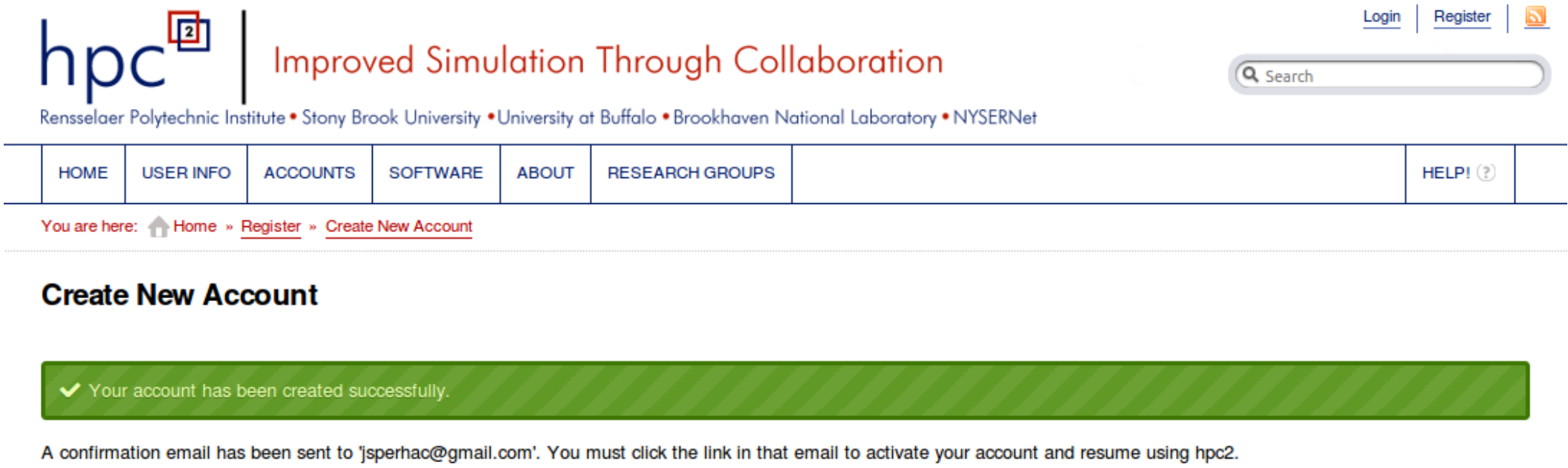
Click “Register”

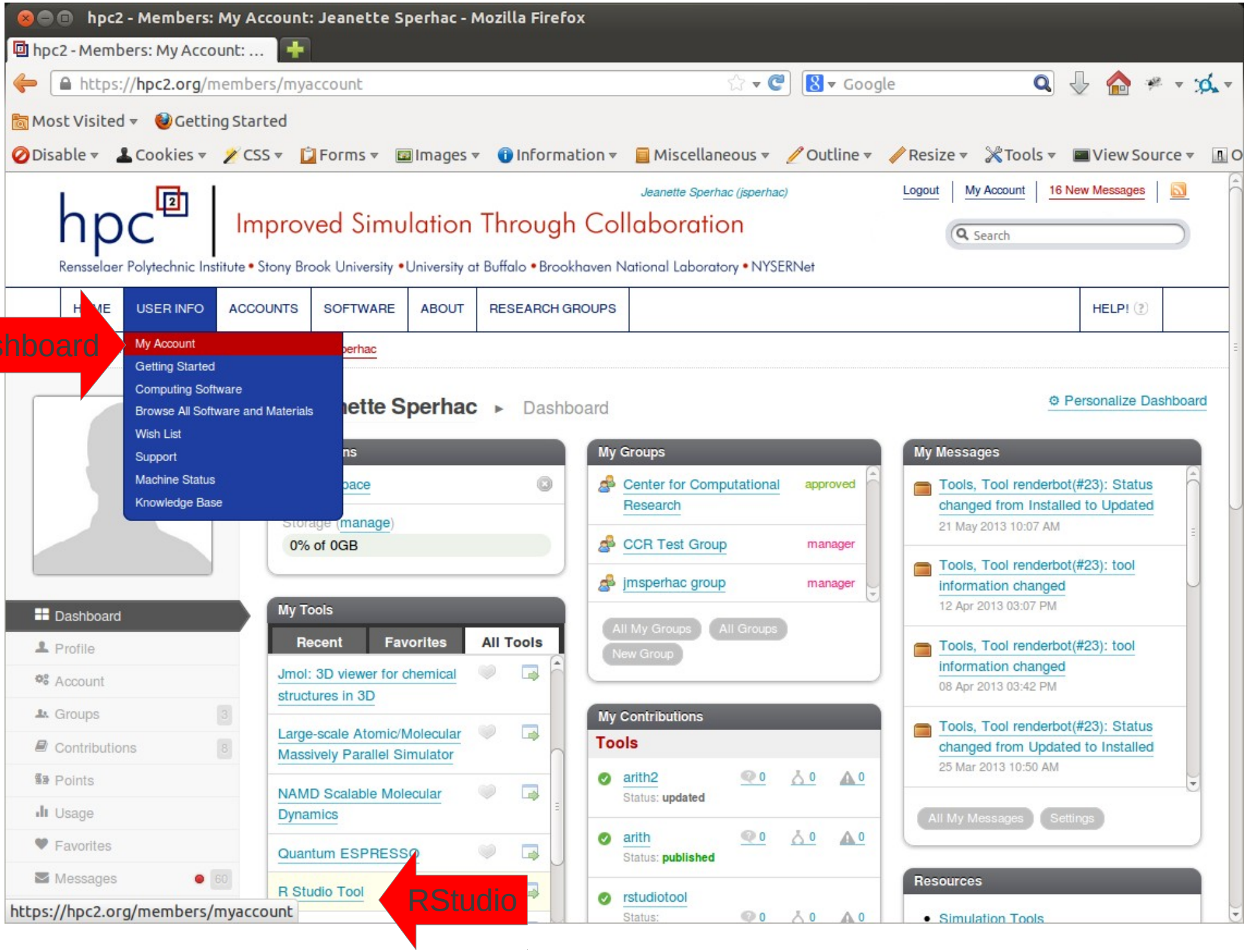


Pick a login name and password



hpc2 new account created



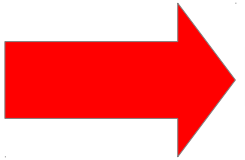

hpc2 - Members: My Account: Jeanette Sperhac - Mozilla Firefox
hpc2 - Members: My Account: ...
https://hpc2.org/members/myaccount
Google
Most Visited
Getting Started
Disable
Cookies
CSS
Forms
Images
Information
Miscellaneous
Outline
Resize
Tools
View Source
Jeanette Sperhac (jsperhac)
Logout
My Account
16 New Messages
hpc
Improved Simulation Through Collaboration
Search
Rensselaer Polytechnic Institute • Stony Brook University • University at Buffalo • Brookhaven National Laboratory • NYSERNet
HOME
USER INFO
ACCOUNTS
SOFTWARE
ABOUT
RESEARCH GROUPS
HELP!
Dashboard
My Account
Getting Started
Computing Software
Browse All Software and Materials
Wish List
Support
Machine Status
Knowledge Base
Jeanette Sperhac ▸ Dashboard
Personalize Dashboard
Storage (manage)
0% of 0GB
My Groups
Center for Computational Research
approved
CCR Test Group
manager
jmsperhac group
manager
All My Groups
All Groups
New Group
My Messages
Tools, Tool renderbot(#23): Status changed from Installed to Updated
21 May 2013 10:07 AM
Tools, Tool renderbot(#23): tool information changed
12 Apr 2013 03:07 PM
Tools, Tool renderbot(#23): tool information changed
08 Apr 2013 03:42 PM
Tools, Tool renderbot(#23): Status changed from Updated to Installed
25 Mar 2013 10:50 AM
All My Messages
Settings
Dashboard
Profile
Account
Groups 3
Contributions 8
Points
Usage
Favorites
Messages 60
My Tools
Recent
Favorites
All Tools
Jmol: 3D viewer for chemical structures in 3D
Large-scale Atomic/Molecular Massively Parallel Simulator
NAMD Scalable Molecular Dynamics
Quantum ESPRESSO
R Studio Tool
My Contributions
Tools
arith2
Status: updated
arith
Status: published
rstudiotool
Status:
Resources
Simulation Tools
RStudio
https://hpc2.org/members/myaccount

R Studio Tool edit

By Jeanette Sperhac[1], Steve Gallo[2]

1. SUNY at Buffalo 2. Center for Computational Research, SUNY at Buffalo

RStudio is an IDE for the R language. It provides a multipane window environment for statistical computing and graphics in R.



Launch Tool

Version **1.0** - published on 12 Feb 2013

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Tools

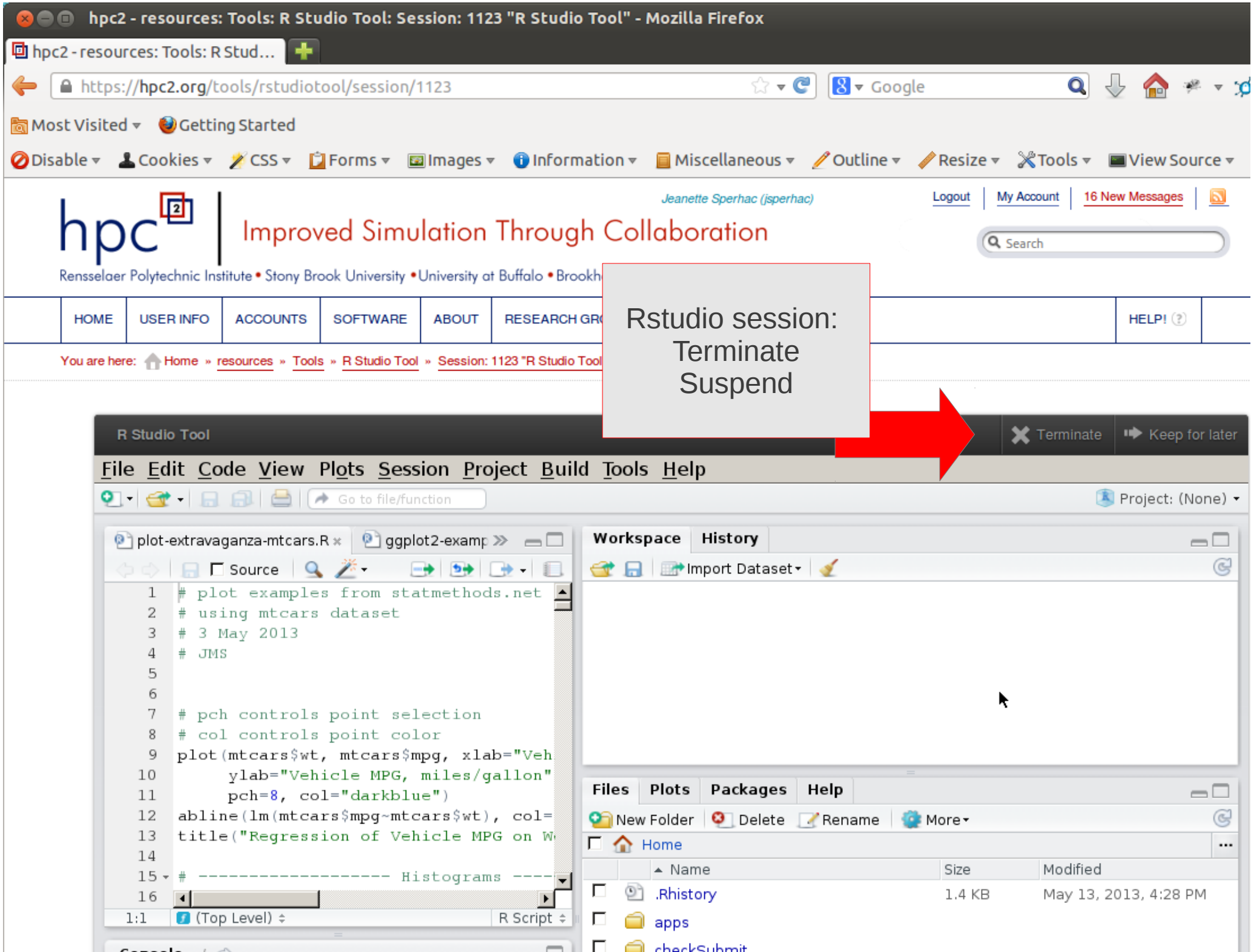
Published on

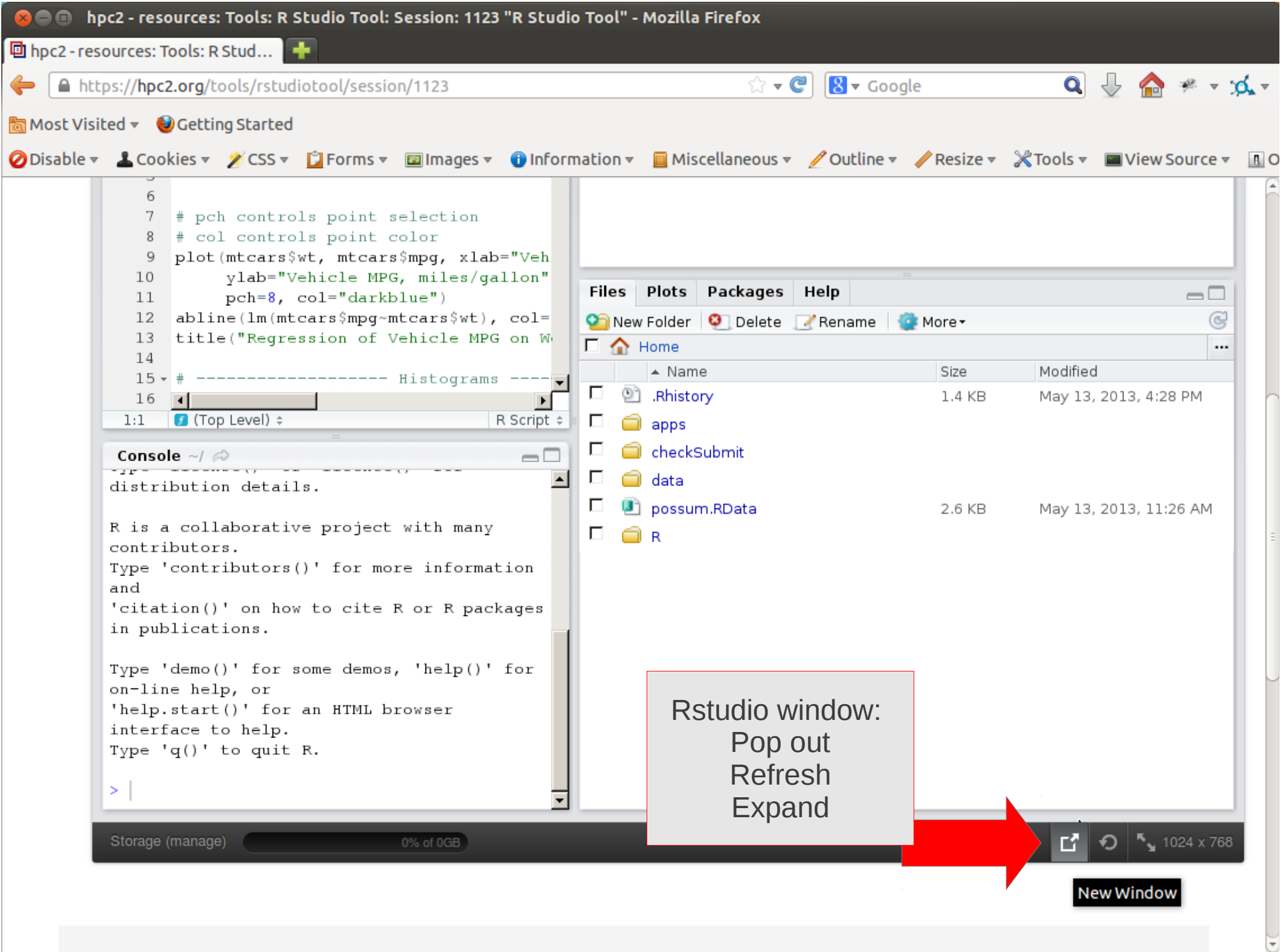
12 Feb 2013

Abstract

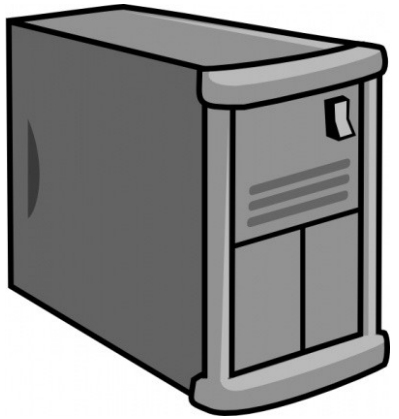
The R Studio Tool is a deployment of the RStudio IDE on the hpc2 hub. It provides a multipane window environment for statistical computing and graphics in R.

R Studio provides syntax highlighting, code completion, and smart indentation; ability to execute R code from the source editor; ability to easily manage multiple working directories using projects; and ability to quickly navigate code using type-ahead search.


hpc2 - resources: Tools: R Studio Tool: Session: 1123 "R Studio Tool" - Mozilla Firefox
https://hpc2.org/tools/rstudiotool/session/1123
Improved Simulation Through Collaboration
Rensselaer Polytechnic Institute • Stony Brook University • University at Buffalo • Brookh
Jeanette Sperhac (jsperhac)
Logout
My Account
16 New Messages
HOME
USER INFO
ACCOUNTS
SOFTWARE
ABOUT
HELP!
You are here: Home » resources » Tools » R Studio Tool » Session: 1123 "R Studio Tool
Rstudio session:
Terminate
Suspend
R Studio Tool
Terminate
Keep for later
File Edit Code View Plots Session Project Build Tools Help
Project: (None)
plot-extravaganza-mtcars.R
ggplot2-examp
Source
plot examples from statmethods.net
using mtcars dataset
3 May 2013
JMS
pch controls point selection
col controls point color
plot(mtcars$wt, mtcars$mpg, xlab="Veh
ylab="Vehicle MPG, miles/gallon"
pch=8, col="darkblue")
abline(lm(mtcars$mpg~mtcars$wt), col=
title("Regression of Vehicle MPG on W
------------------ Histograms ----
1:1
(Top Level)
R Script
Workspace
History
Import Dataset
Files
Plots
Packages
Help
New Folder
Delete
Rename
More
Home
Name
Size
Modified
.Rhistory
1.4 KB
May 13, 2013, 4:28 PM
apps
checkSubmit


hpc2 - resources: Tools: R Studio Tool: Session: 1123 "R Studio Tool" - Mozilla Firefox
hpc2 - resources: Tools: R Stud...
https://hpc2.org/tools/rstudiotool/session/1123
Google
Most Visited
Getting Started
Disable
Cookies
CSS
Forms
Images
Information
Miscellaneous
Outline
Resize
Tools
View Source
6
7 # pch controls point selection
8 # col controls point color
9 plot(mtcars$wt, mtcars$mpg, xlab="Veh
10 ylab="Vehicle MPG, miles/gallon"
11 pch=8, col="darkblue")
12 abline(lm(mtcars$mpg~mtcars$wt), col=
13 title("Regression of Vehicle MPG on W
14
15 # ------------------ Histograms ----
16
1:1
(Top Level)
R Script
Console ~/
distribution details.
R is a collaborative project with many
contributors.
Type 'contributors()' for more information
and
'citation()' on how to cite R or R packages
in publications.
Type 'demo()' for some demos, 'help()' for
on-line help, or
'help.start()' for an HTML browser
interface to help.
Type 'q()' to quit R.
>
Files
Plots
Packages
Help
New Folder
Delete
Rename
More
Home
Name
Size
Modified
.Rhistory 1.4 KB May 13, 2013, 4:28 PM
apps
checkSubmit
data
possum.RData 2.6 KB May 13, 2013, 11:26 AM
R
Storage (manage)
0% of 0GB
1024 x 768
Rstudio window:
Pop out
Refresh
Expand
New Window

GitHub

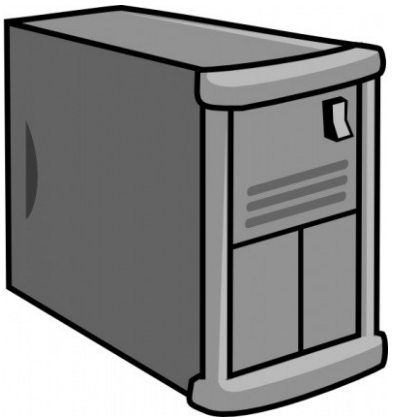


GitHub server

View files

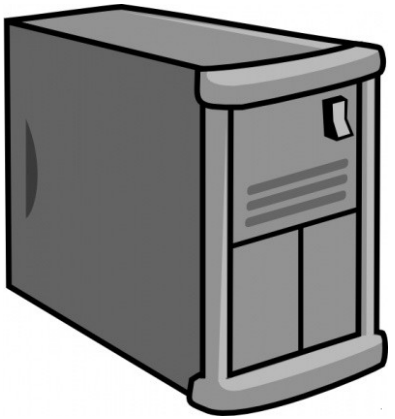
Pull files and data

Student workstation

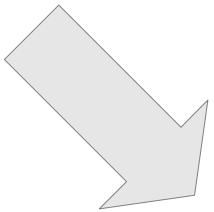


hpc2 server

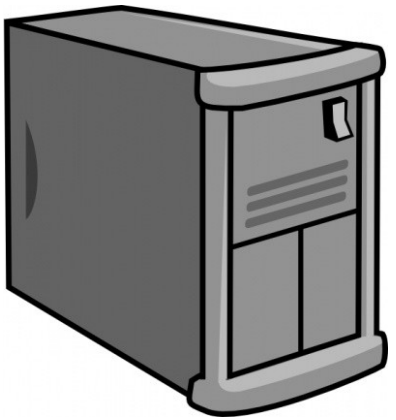
Workshop Files and Data: GitHub



GitHub server

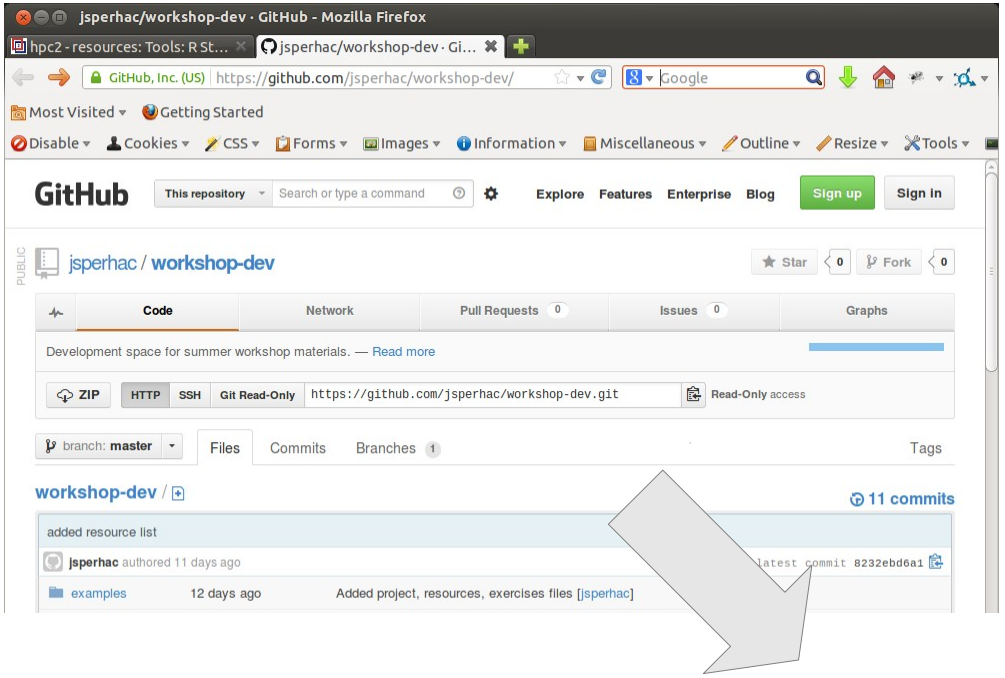


Student workstation

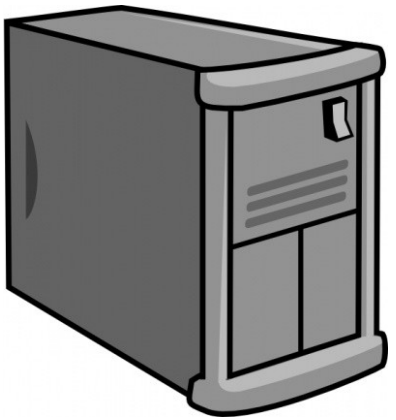


hpc2 server

GitHub



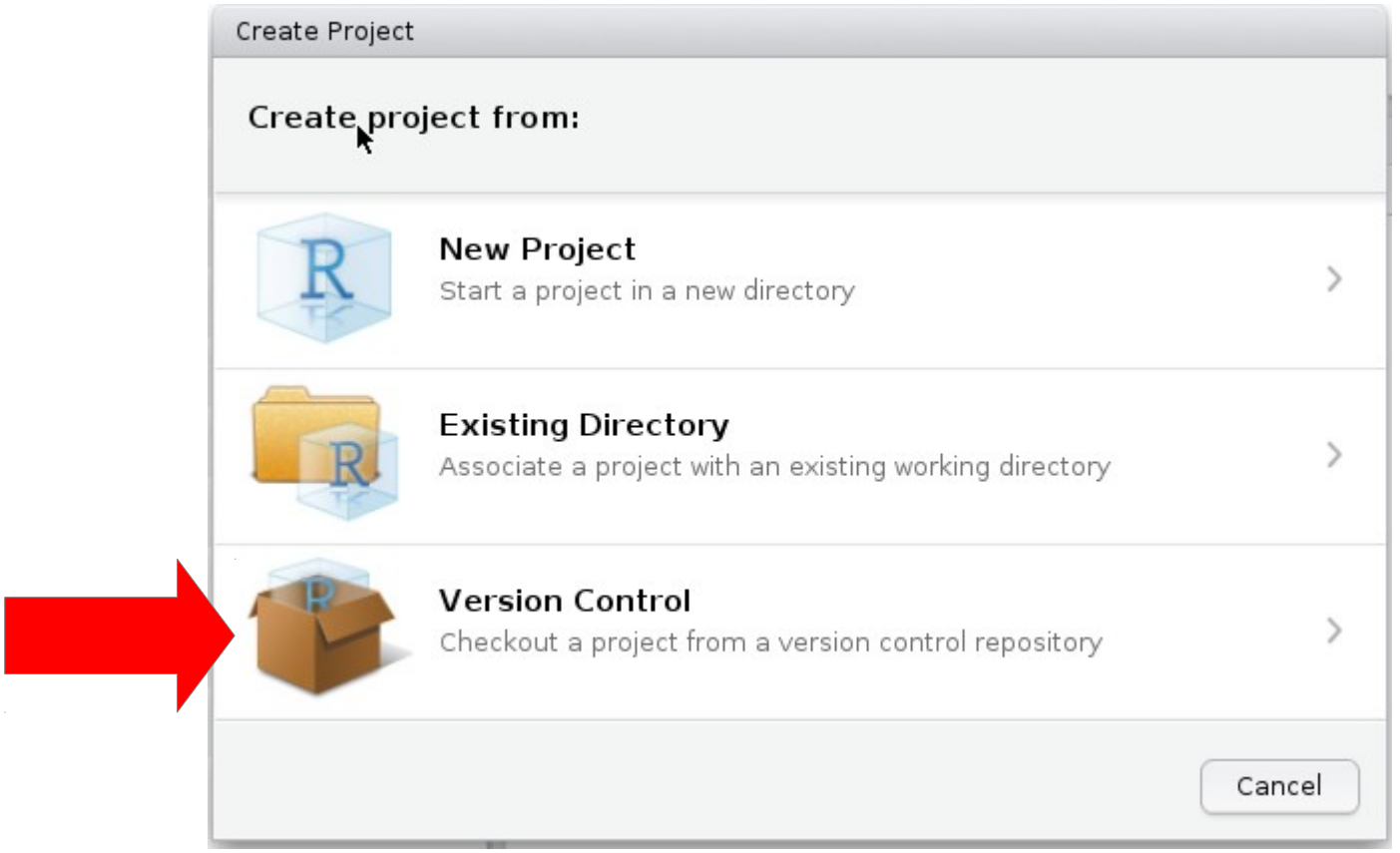
Student workstation



hpc2 server

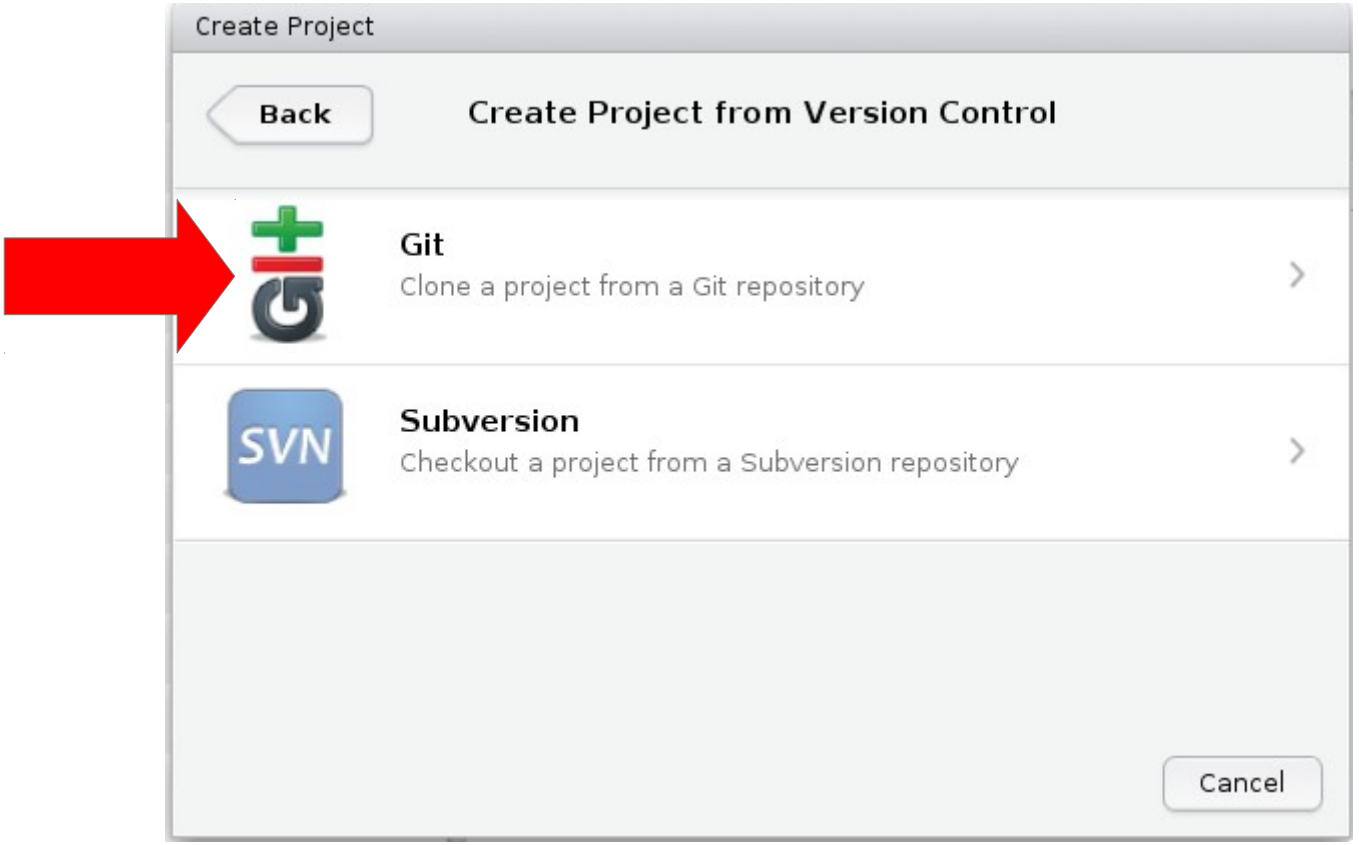
Create GitHub project in RStudio

1. In RStudio:
- Select Project: Create Project
- Select Version Control



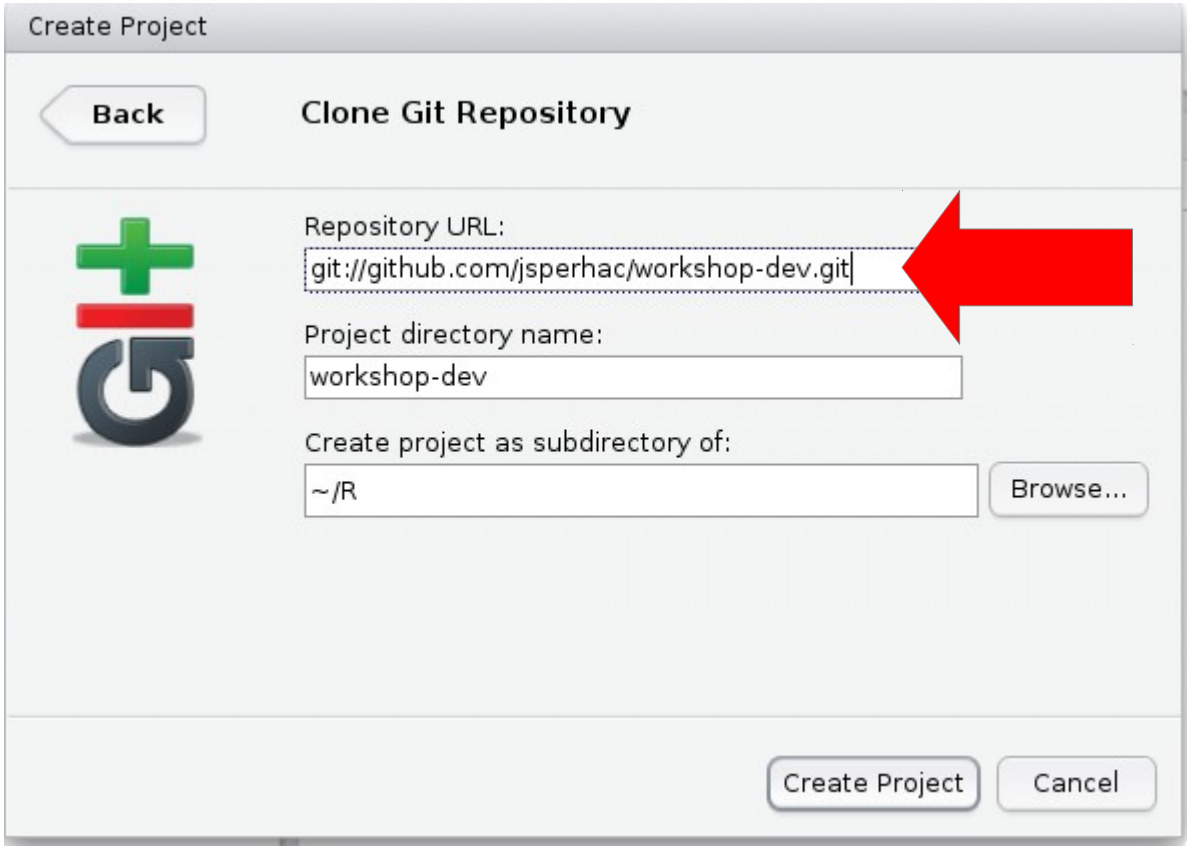
Create GitHub project in RStudio

2. In RStudio:
   Next, select Git



Create GitHub project in RStudio

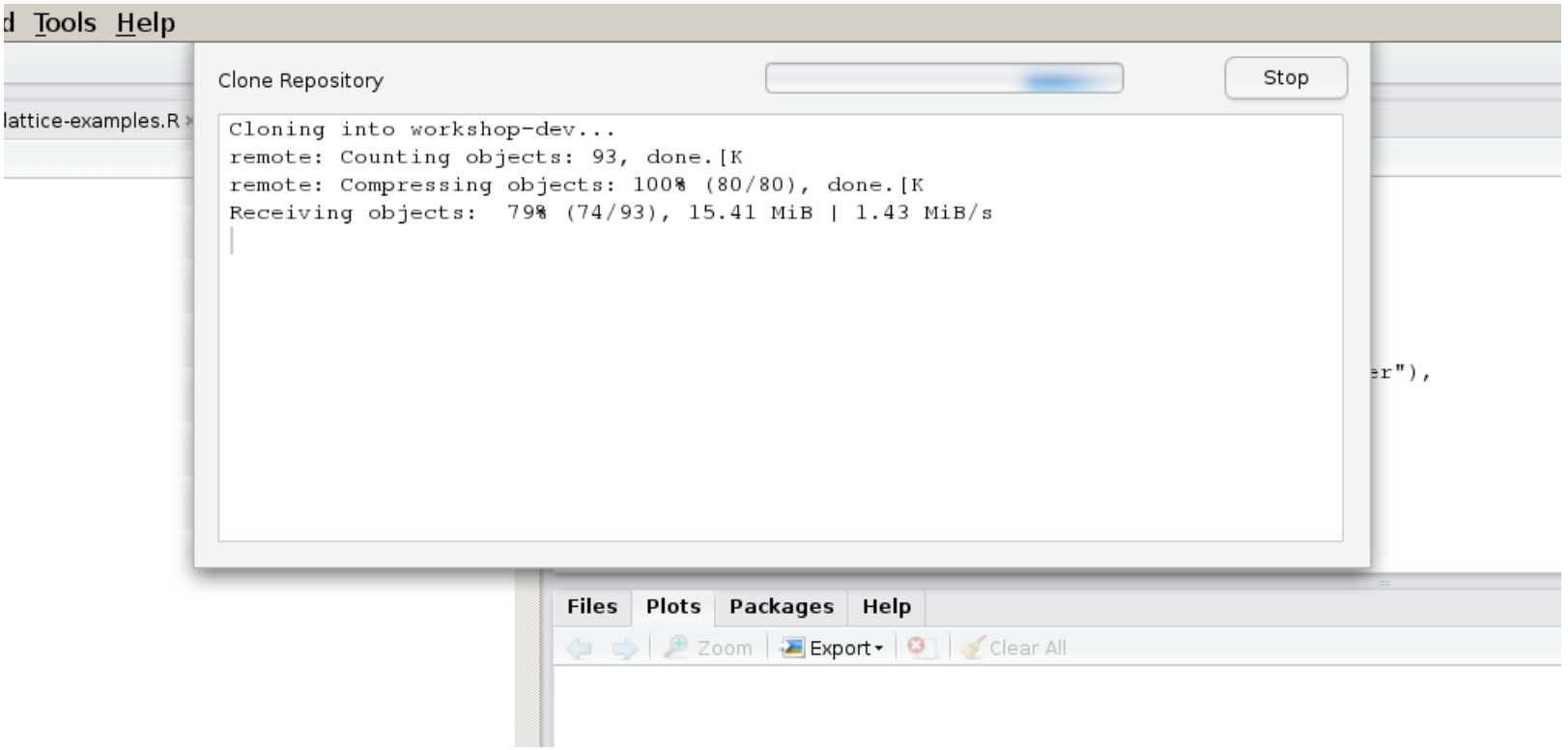
3. In RStudio:
   Type the Repository URL as shown



git://github.com/jsperhac/workshop-dev.git

Create GitHub project in RStudio

4. RStudio copies the files to your home directory on hpc2



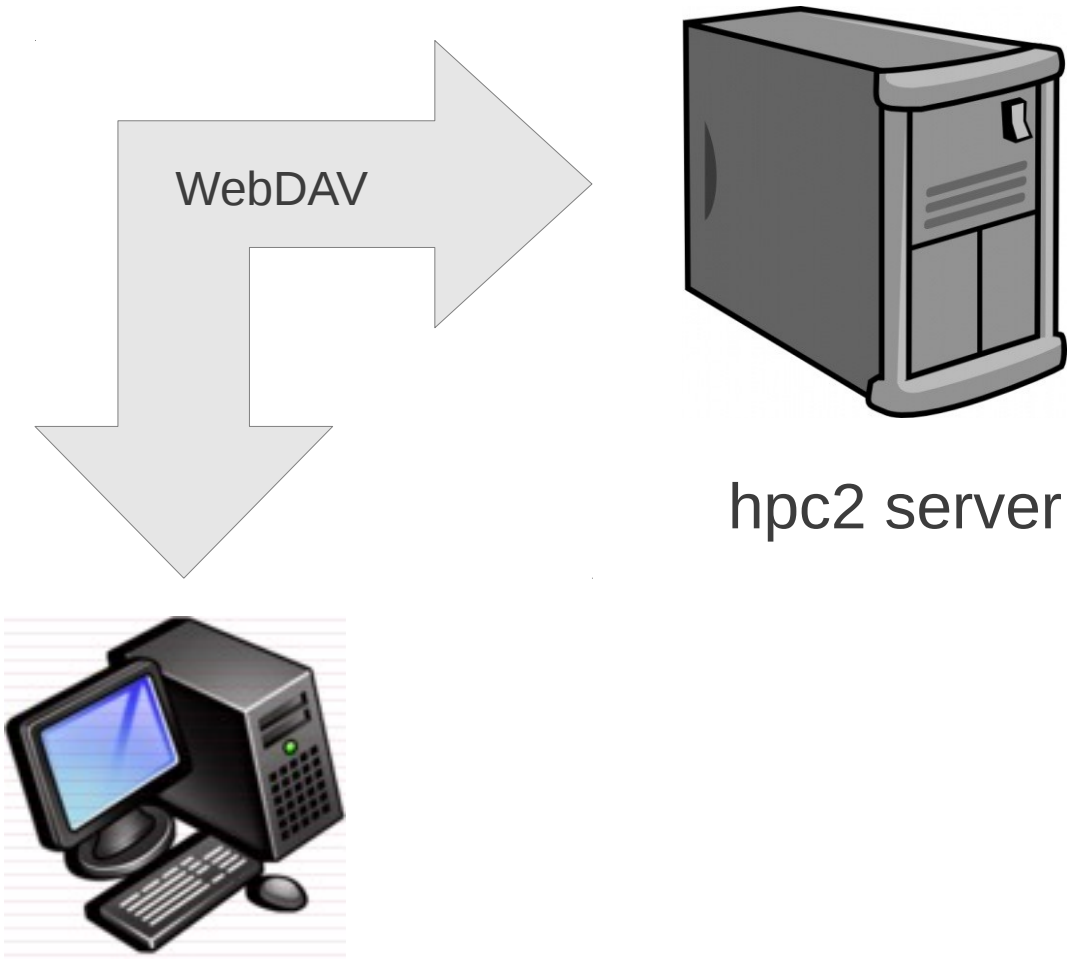
Rstudio: load your dataset

- Select Import Dataset: From Text File
- Select a .csv file

GitHub project in RStudio

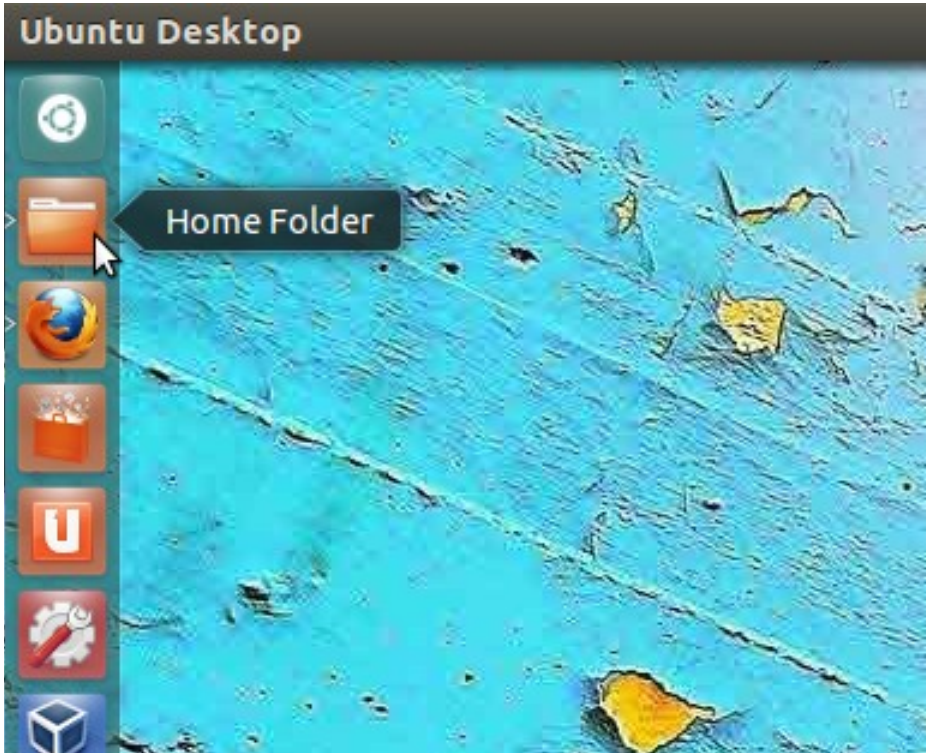
- Selecting the project sets the working directory
- Your RStudio project contains directories:
  - examples
  - exercises
  - project
  - resources

File transfer



File transfer: WebDAV

- Home folder

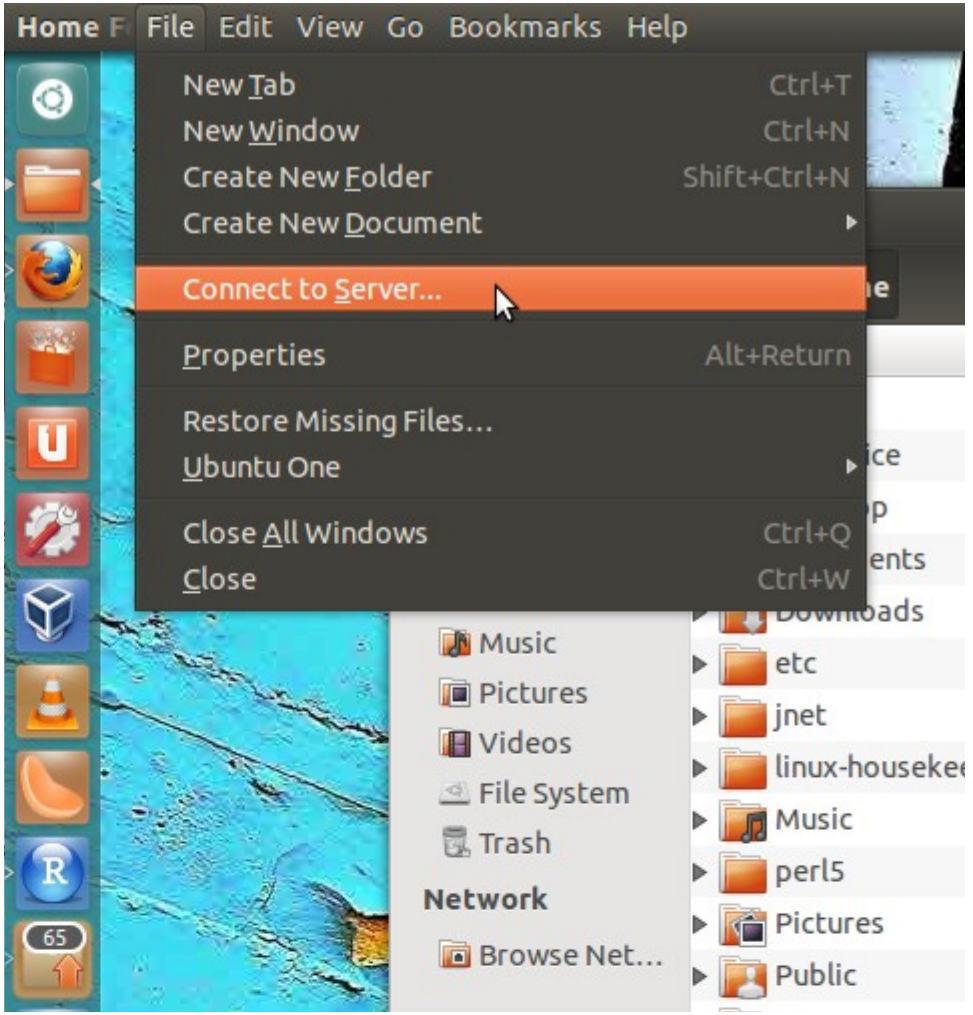


Student workstation

File transfer: WebDAV

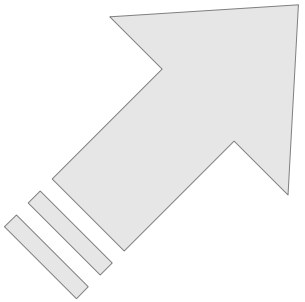
File: Connect to Server...

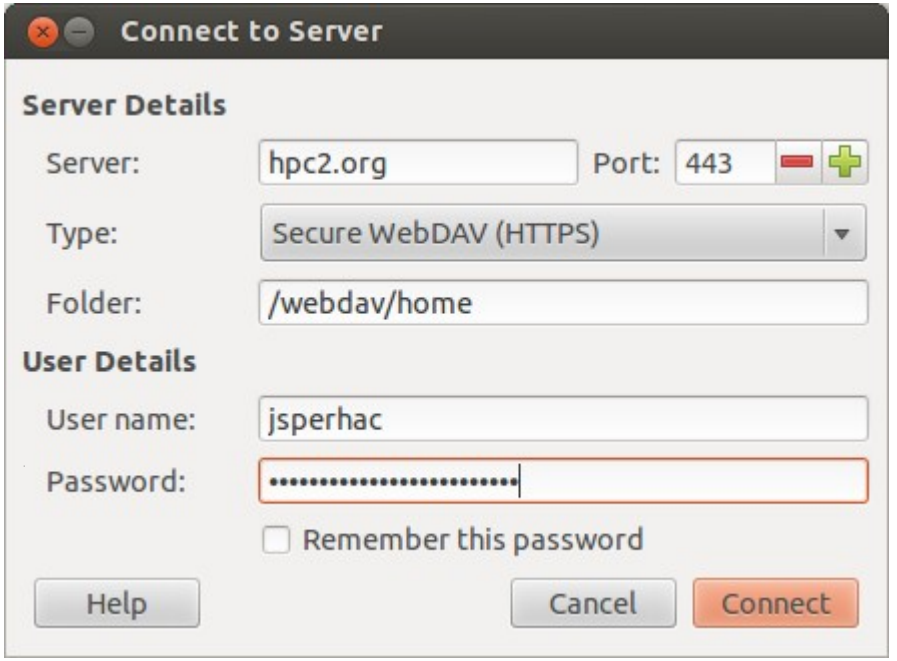
Student workstation



File transfer: WebDAV

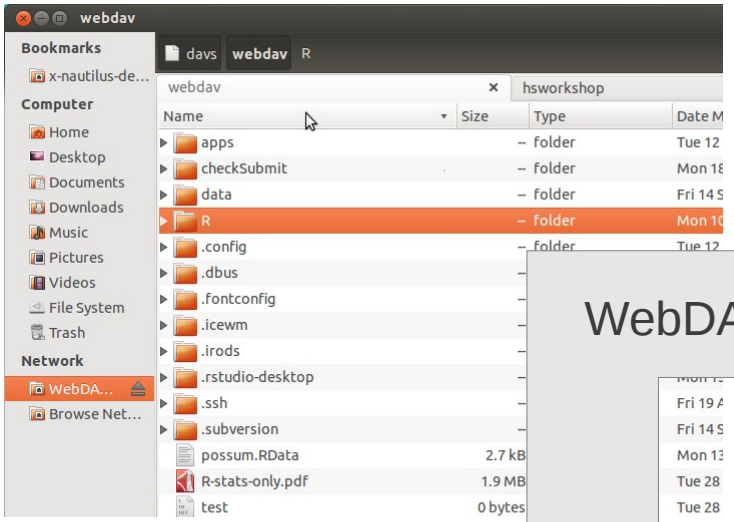
Use your hpc2 user credentials



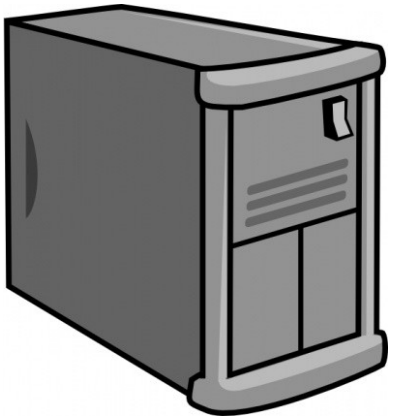


Student workstation

File transfer



WebDAV



hpc2 server

Student workstation