

PLANEJAMENTO E ANÁLISE DE EXPERIMENTOS

9 a 14 de Setembro

Pós-Graduação em Produção Vegetal UFPR

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Introdução ao Software R

Estrutura e funcionamento do Software R

Introdução ao Software

The screenshot displays the R Project website with various statistical analysis results. The main content area is titled "The R Project for Statistical Computing" and features several plots:

- PCA 5 vars**: A biplot showing the relationship between variables (Fertility, Examination, Education, Catholic, Agriculture) and the first three principal components. The first three components explain 60% of the variance.
- Clustering 4 groups**: A dendrogram showing hierarchical clustering of data points into four groups. A bar chart below the dendrogram shows the size of each group: 28, 16, 1, and 2.
- Factor 1 [41%]** and **Factor 3 [19%]**: Two histograms showing the distribution of the first and third principal components, respectively. The x-axis represents the component score, and the y-axis represents the density.

On the left side of the website, there is a navigation menu with links for:

- About R
- What is R?
- Contributors
- Screenshots
- What's new?
- Download, Packages
- CRAN
- R Project Foundation
- Members & Donors
- Mailing Lists
- Bug Tracking
- Developer Page
- Conferences
- Search
- Documentation
- Manuals
- FAQs
- The R Journal
- Wiki
- Books
- Certification
- Other

At the bottom of the page, there is a "Getting Started" section with the following text:

Getting Started:

- R is a free software environment for statistical computing and graphics. It compiles and runs on a wide variety of UNIX platforms, Windows and MacOS. To [download R](#), please choose your preferred [CRAN mirror](#).
- If you have questions about R like how to download and install the software, or what the license terms are, please read our [answers to frequently asked questions](#) before you send an email.

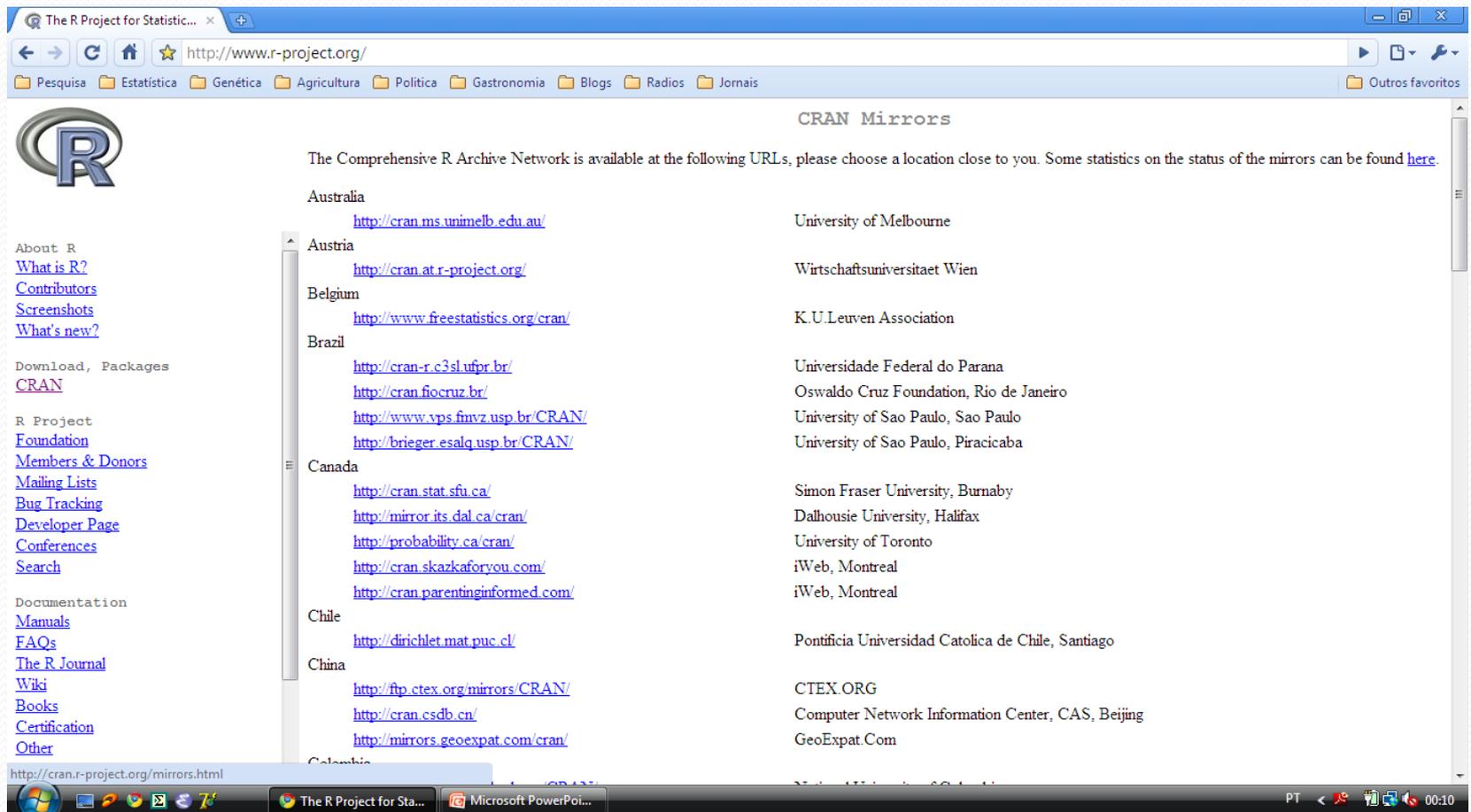
Below the "Getting Started" section, there is a "News" section with the following text:

News:

- [The R Journal Vol 2/1 is available](#)

The screenshot also shows the Windows taskbar at the bottom, with the following icons: Start button, Internet Explorer, Microsoft PowerPoint, and the system tray showing the time as 00:09.

Introdução ao Software



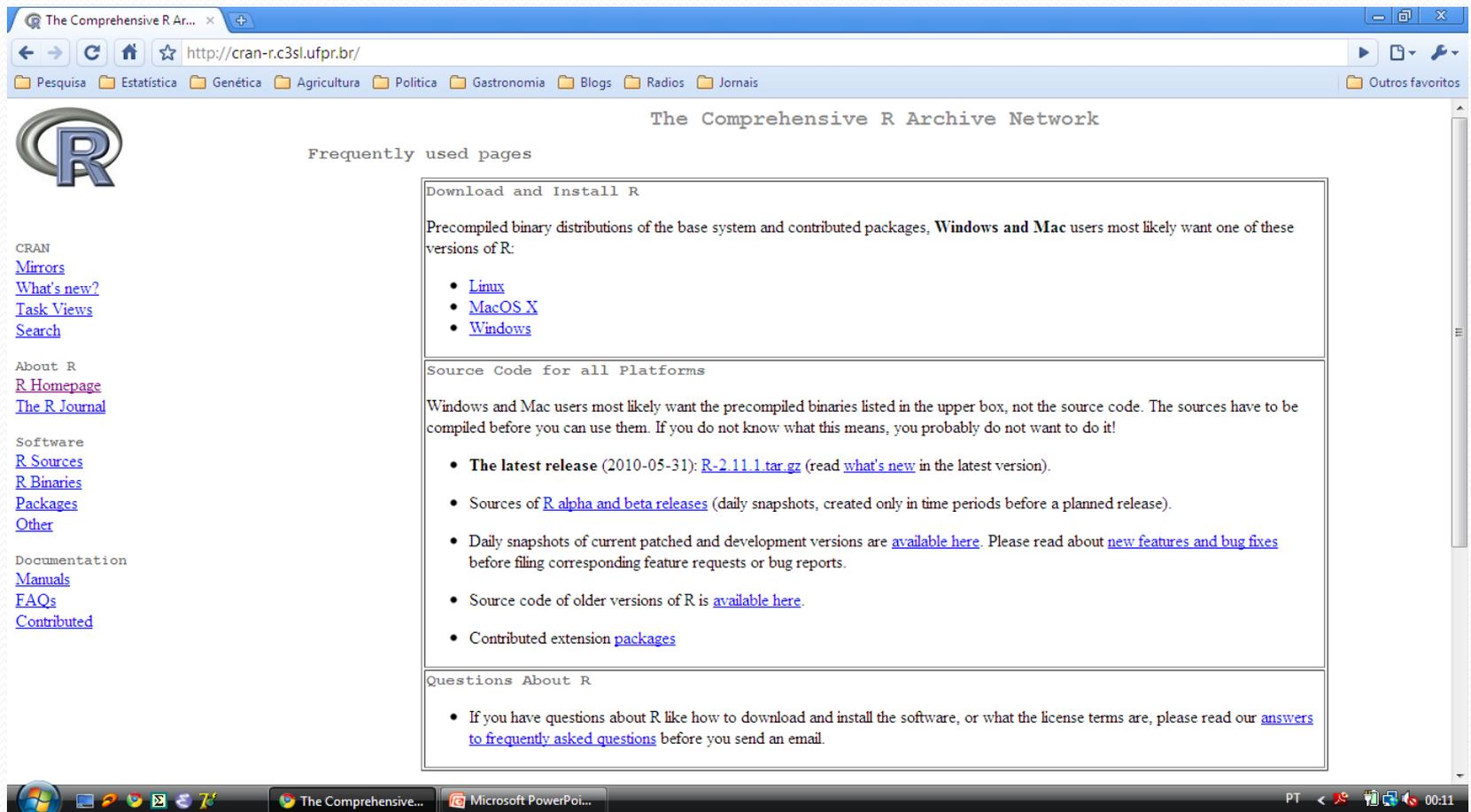
The screenshot shows a web browser window displaying the CRAN Mirrors page. The browser's address bar shows the URL <http://www.r-project.org/>. The page title is "CRAN Mirrors". The main content area contains the following text: "The Comprehensive R Archive Network is available at the following URLs, please choose a location close to you. Some statistics on the status of the mirrors can be found [here](#)."

The page lists mirrors for various countries, each with a URL and the name of the host institution:

- Australia:** <http://cran.ms.unimelb.edu.au/> - University of Melbourne
- Austria:** <http://cran.at.r-project.org/> - Wirtschaftsuniversitaet Wien
- Belgium:** <http://www.freestats.org/cran/> - K.U.Leuven Association
- Brazil:**
 - <http://cran-r.c3sl.ufpr.br/> - Universidade Federal do Parana
 - <http://cran.fiocruz.br/> - Oswaldo Cruz Foundation, Rio de Janeiro
 - <http://www.vps.fmvz.usp.br/CRAN/> - University of Sao Paulo, Sao Paulo
 - <http://brieger.esalq.usp.br/CRAN/> - University of Sao Paulo, Piracicaba
- Canada:**
 - <http://cran.stat.sfu.ca/> - Simon Fraser University, Burnaby
 - <http://mirror.its.dal.ca/cran/> - Dalhousie University, Halifax
 - <http://probability.ca/cran/> - University of Toronto
 - <http://cran.skazkaforyou.com/> - iWeb, Montreal
 - <http://cran.parentinginformed.com/> - iWeb, Montreal
- Chile:** <http://dirichlet.mat.puc.cl/> - Pontificia Universidad Catolica de Chile, Santiago
- China:**
 - <http://ftp.ctex.org/mirrors/CRAN/> - CTEX.ORG
 - <http://cran.csdb.cn/> - Computer Network Information Center, CAS, Beijing
 - <http://mirrors.geoexpat.com/cran/> - GeoExpat.Com
- Colombia:** (partially visible)

The left sidebar of the website contains navigation links such as "About R", "What is R?", "Contributors", "Screenshots", "What's new?", "Download, Packages", "CRAN", "R Project Foundation", "Members & Donors", "Mailing Lists", "Bug Tracking", "Developer Page", "Conferences", "Search", "Documentation", "Manuals", "FAQs", "The R Journal", "Wiki", "Books", "Certification", and "Other".

Introdução ao Software



The screenshot shows a web browser window displaying the CRAN website. The address bar shows the URL <http://cran-r.c3sl.ufpr.br/>. The page title is "The Comprehensive R Archive Network". The main content area is titled "Frequently used pages" and contains three sections:

- Download and Install R**

Precompiled binary distributions of the base system and contributed packages, **Windows and Mac** users most likely want one of these versions of R:

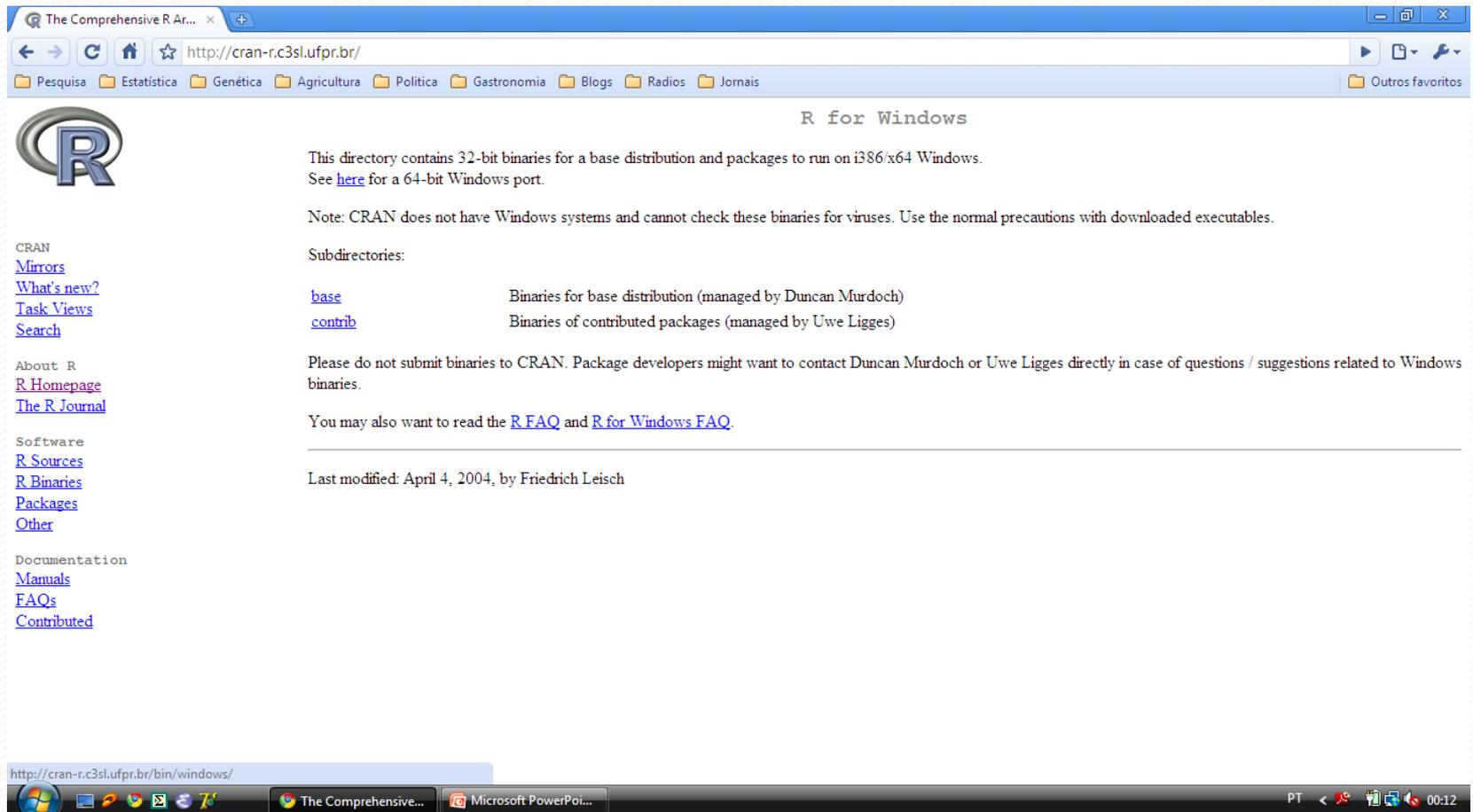
 - [Linux](#)
 - [MacOS X](#)
 - [Windows](#)
- Source Code for all Platforms**

Windows and Mac users most likely want the precompiled binaries listed in the upper box, not the source code. The sources have to be compiled before you can use them. If you do not know what this means, you probably do not want to do it!

 - **The latest release** (2010-05-31): [R-2.11.1.tar.gz](#) (read [what's new](#) in the latest version).
 - Sources of [R alpha and beta releases](#) (daily snapshots, created only in time periods before a planned release).
 - Daily snapshots of current patched and development versions are [available here](#). Please read about [new features and bug fixes](#) before filing corresponding feature requests or bug reports.
 - Source code of older versions of R is [available here](#).
 - Contributed extension [packages](#)
- Questions About R**
 - If you have questions about R like how to download and install the software, or what the license terms are, please read our [answers to frequently asked questions](#) before you send an email.

The left sidebar contains navigation links for CRAN, Mirrors, What's new?, Task Views, Search, About R, R Homepage, The R Journal, Software, R Sources, R Binaries, Packages, Other, Documentation, Manuals, FAQs, and Contributed.

Introdução ao Software



The screenshot shows a web browser window with the address bar containing <http://cran-r.c3sl.ufpr.br/>. The page title is "The Comprehensive R Ar...". The browser's address bar shows a search bar and several folders: Pesquisa, Estatística, Genética, Agricultura, Política, Gastronomia, Blogs, Radios, Jornais, and Outros favoritos.

The main content of the page is titled "R for Windows". It contains the following text:

This directory contains 32-bit binaries for a base distribution and packages to run on i386/x64 Windows. See [here](#) for a 64-bit Windows port.

Note: CRAN does not have Windows systems and cannot check these binaries for viruses. Use the normal precautions with downloaded executables.

Subdirectories:

base	Binaries for base distribution (managed by Duncan Murdoch)
contrib	Binaries of contributed packages (managed by Uwe Ligges)

Please do not submit binaries to CRAN. Package developers might want to contact Duncan Murdoch or Uwe Ligges directly in case of questions / suggestions related to Windows binaries.

You may also want to read the [R FAQ](#) and [R for Windows FAQ](#).

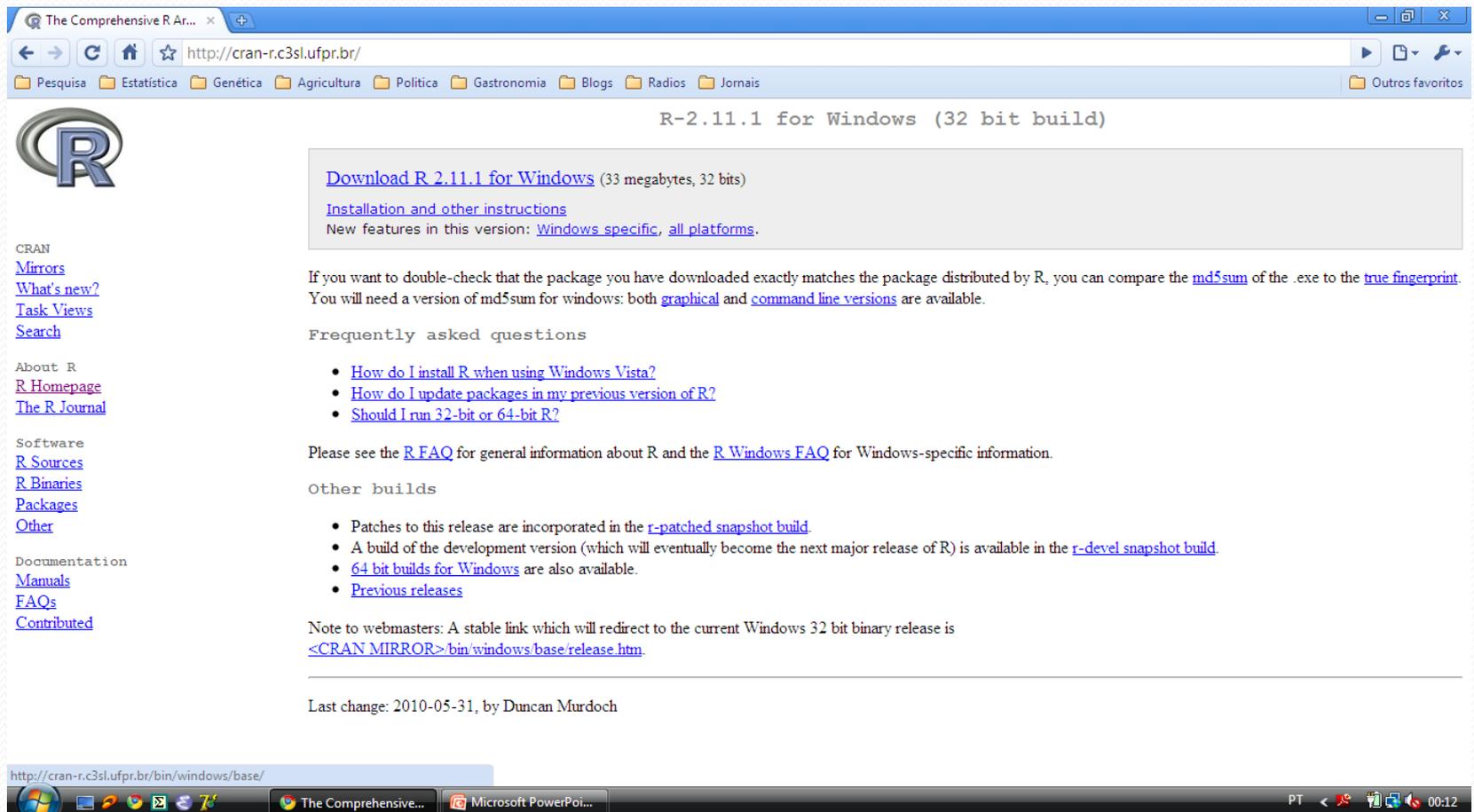
Last modified: April 4, 2004, by Friedrich Leisch

The left sidebar contains the following links:

- CRAN
- [Mirrors](#)
- [What's new?](#)
- [Task Views](#)
- [Search](#)
- About R
- [R Homepage](#)
- [The R Journal](#)
- Software
- [R Sources](#)
- [R Binaries](#)
- [Packages](#)
- [Other](#)
- Documentation
- [Manuals](#)
- [FAQs](#)
- [Contributed](#)

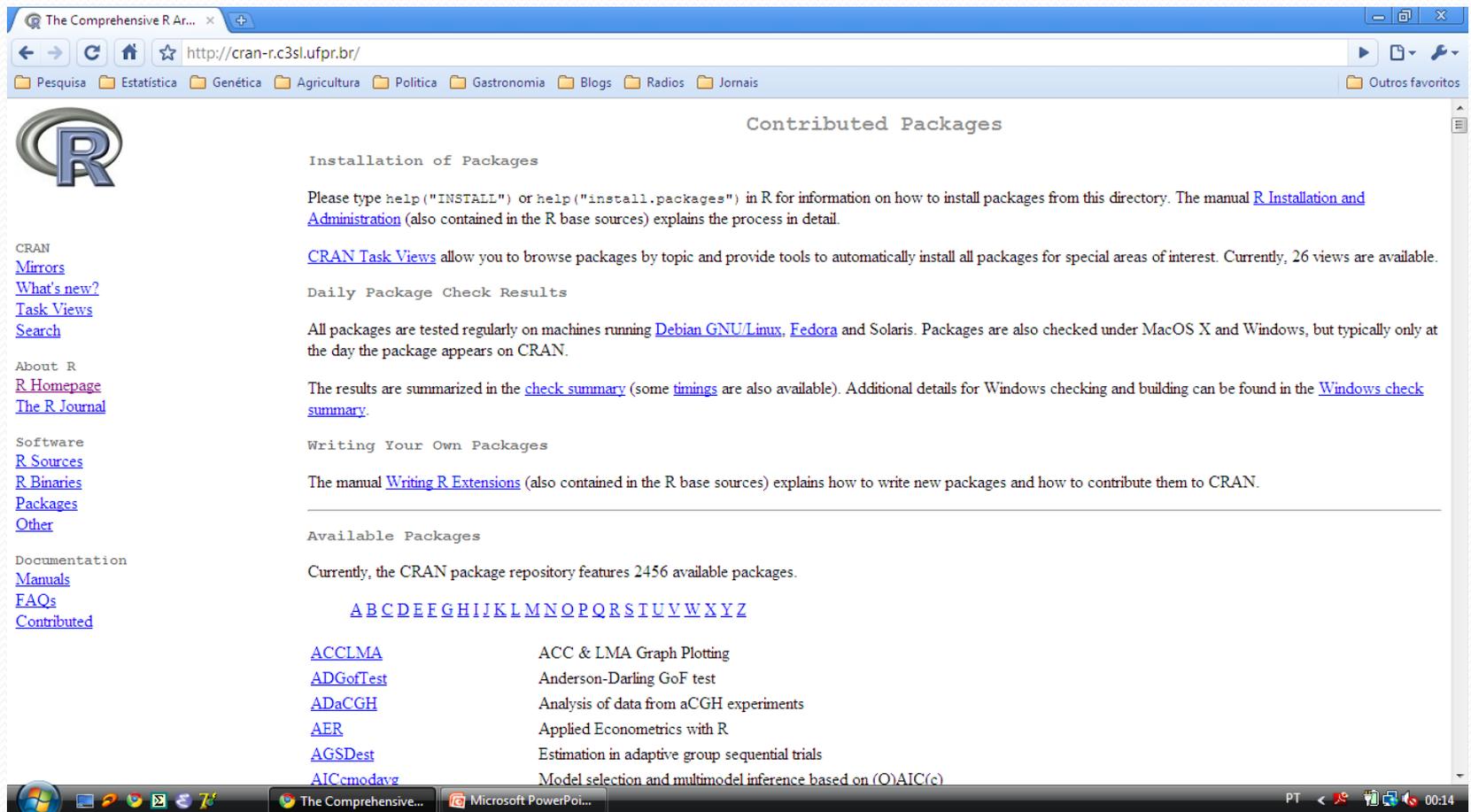
The bottom of the browser window shows the taskbar with the following icons: Windows Start button, Internet Explorer, The Comprehensive..., Microsoft PowerPoi..., and system tray icons including a clock showing 00:12.

Introdução ao Software



The screenshot shows a web browser window with the address bar displaying `http://cran-r.c3sl.ufpr.br/`. The page title is "R-2.11.1 for Windows (32 bit build)". The main content area features a download link for "Download R 2.11.1 for Windows (33 megabytes, 32 bits)", a link for "Installation and other instructions", and a note about new features in this version: "Windows specific, all platforms". Below this, there is a section for "Frequently asked questions" with three bullet points: "How do I install R when using Windows Vista?", "How do I update packages in my previous version of R?", and "Should I run 32-bit or 64-bit R?". There is also a section for "Other builds" with three bullet points: "Patches to this release are incorporated in the r-patched snapshot build.", "A build of the development version (which will eventually become the next major release of R) is available in the r-devel snapshot build.", and "64 bit builds for Windows are also available." and "Previous releases". A note to webmasters states: "A stable link which will redirect to the current Windows 32 bit binary release is <CRAN MIRROR>/bin/windows/base/release.htm". The footer of the page indicates "Last change: 2010-05-31, by Duncan Murdoch". The browser's taskbar at the bottom shows the Windows logo, several application icons, and the system tray with the time 00:12.

Introdução ao Software



The screenshot shows a web browser window displaying the CRAN website. The address bar shows the URL <http://cran-r.c3sl.ufpr.br/>. The page title is "Contributed Packages". The main content area is titled "Installation of Packages" and contains the following text:

Please type `help("INSTALL")` or `help("install.packages")` in R for information on how to install packages from this directory. The manual [R Installation and Administration](#) (also contained in the R base sources) explains the process in detail.

[CRAN Task Views](#) allow you to browse packages by topic and provide tools to automatically install all packages for special areas of interest. Currently, 26 views are available.

Daily Package Check Results

All packages are tested regularly on machines running [Debian GNU/Linux](#), [Fedora](#) and Solaris. Packages are also checked under MacOS X and Windows, but typically only at the day the package appears on CRAN.

The results are summarized in the [check summary](#) (some [timings](#) are also available). Additional details for Windows checking and building can be found in the [Windows check summary](#).

Writing Your Own Packages

The manual [Writing R Extensions](#) (also contained in the R base sources) explains how to write new packages and how to contribute them to CRAN.

Available Packages

Currently, the CRAN package repository features 2456 available packages.

[A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#)

ACCLMA	ACC & LMA Graph Plotting
ADGofTest	Anderson-Darling GoF test
ADaCGH	Analysis of data from aCGH experiments
AER	Applied Econometrics with R
AGSDest	Estimation in adaptive group sequential trials
AICcmoadvs	Model selection and multimodel inference based on (O)AIC(c)

The left sidebar contains navigation links for CRAN, Mirrors, What's new?, Task Views, Search, About R, R Homepage, The R Journal, Software, R Sources, R Binaries, Packages, Other, Documentation, Manuals, FAQs, and Contributed.

The Comprehensive R Ar... x

http://cran-r.c3sl.ufpr.br/

Pesquisa Estática Genética Agricultura Política Gastronomia Blogs Radios Jornais Outros favoritos



agricolae: Statistical Procedures for Agricultural Research

Agricolae was presented on 28 August 2009 in the thesis "A statistical analysis tool for agricultural research" to obtain the degree of Master on science, mention Systems Engineering, of the facultad de ingenieria industrial y de sistemas - Universidad Nacional de Ingenieria, Lima-Peru (UNI), being approved with the qualification of 18.14 in a scale from 0 to 20. The thesis includes a satisfaction survey of the library, with an index quality of the software of 0.8 in scale of 0-1. These functions are currently used by the International Potato Center (CIP), the Universidad Nacional Agraria La Molina (UNALM-PERU), and the Instituto Nacional de Innovacion Agraria (INIA-PERU). It comprises the functionality of statistical analysis into experimental designs applied specially in field experiments in agriculture and plant breeding: Lattice, factorial, complete and incomplete block, Latin Square, Graeco, Alpha designs, Cyclic, augmented block, split and strip plot designs, comparison of multi-location trials, comparison between treatments, resampling, simulation, biodiversity indexes and consensus cluster.

Version: 1.0-9
 Suggests: [akima](#), [kjaR](#), [MASS](#), [cluster](#)
 Published: 2010-02-24
 Author: Felipe de Mendiburu
 Maintainer: Felipe de Mendiburu <f.mendiburu at cgiar.org>
 License: [GPL](#)
 URL: <http://tarwi.lamolina.edu.pe/~fmendiburu>
 In views: [ExperimentalDesign](#)
 CRAN checks: [agricolae results](#)

Downloads:

Package source: [agricolae_1.0-9.tar.gz](#)
 MacOS X binary: [agricolae_1.0-9.tgz](#)
 Windows binary: [agricolae_1.0-9.zip](#)
 Reference manual: [agricolae.pdf](#)
 Old sources: [agricolae archive](#)

http://cran-r.c3sl.ufpr.br/web/packages/agricolae/index.html

The Comprehensive... Microsoft PowerPoi...

PT 00:14

Introdução ao Software



The R Manuals

edited by the R Development Core Team.

Current Version: 2.11.1 (May 2010)

The following manuals for R were created on Debian Linux and may differ from the manuals for Mac or Windows on platform-specific pages, but most parts will be identical for all platforms. The correct version of the manuals for each platform are part of the respective R installations. Here they can be downloaded as PDF files or directly browsed as HTML:

- **An Introduction to R** is based on the former "Notes on R", gives an introduction to the language and how to use R for doing statistical analysis and graphics. [[browse HTML](#) | [download PDF](#)]
- A draft of **The R language definition** documents the language *per se*. That is, the objects that it works on, and the details of the expression evaluation process, which are useful to know when programming R functions. [[browse HTML](#) | [download PDF](#)]
- **Writing R Extensions** covers how to create your own packages, write R help files, and the foreign language (C, C++, Fortran, ...) interfaces. [[browse HTML](#) | [download PDF](#)]
- **R Data Import/Export** describes the import and export facilities available either in R itself or via packages which are available from CRAN. [[browse HTML](#) | [download PDF](#)]
- **R Installation and Administration** [[browse HTML](#) | [download PDF](#)]
- **R Internals**: a guide to the internal structures of R and coding standards for the core team working on R itself. [[browse HTML](#) | [download PDF](#)]
- **The R Reference Index**: contains all help files of the R standard and recommended packages in printable form. [[download PDF, 15MB, approx. 3000 pages](#)]

Translations of manuals into other languages than English are available from the [contributed documentation](#) section (only a few translations are available).

The latex or texinfo sources of the latest version of these documents are contained in every R source distribution (in the subdirectory `doc/manual` of the extracted archive). Older versions of the manual can be found in the respective [archives of the R sources](#). The HTML versions of the manuals are also part of most R installations (accessible using function `help.start()`).

Grupo de discussão

The screenshot shows a web browser window displaying the Yahoo! Mail interface for the 'R_STAT - Linguagem de programação R' group. The browser's address bar shows the URL 'http://br.groups.yahoo.com/group/R_STAT/'. The page features a navigation menu on the left with options like 'Início', 'Mensagens', and 'Arquivos'. The main content area is titled 'Início' and displays a list of recent messages. The first message is a reply to a post about transforming an R matrix into an Excel table, with a subject line 'Re: Res: [R_STAT] transformar uma matriz do R em tabela do Excel'. The message text includes a code snippet: `write.table(A,file='t.xls', row.names = FALSE,sep='\t')`. The sender is identified as 'Rodrigo, A' and the recipient as 'Nory Daniel ... -- Nory Daniel de Carvalho Erazo Técnico em'. The second message is another reply with a similar subject line, mentioning 'Gente, deu tudo certo!'. The sender is 'Simone D. Sartorio' and the recipient is 'Alex, e a todos, À muito obrigada!'. The third message is also a reply with the same subject line, mentioning 'Ele vai dar um alerta do excel quando for'. The sender is 'Rodrigo Coster' and the recipient is 'Alex, e a todos, À muito obrigada!'. The fourth message is a reply with the same subject line, mentioning 'Muito obrigada gente!'. The sender is 'Simone D. Sartorio' and the recipient is 'Alex, e a todos, À muito obrigada!'. The page also includes a search bar and a 'Avançado' button.

Yahoo! Mail (mnt.oliveira) x R_STAT : Linguagem de ... x

http://br.groups.yahoo.com/group/R_STAT/

Pesquisa Estatística Genética Agricultura Política Gastronomia Blogs Radios Jornais

R_STAT - Linguagem de programação R

Início

Mensagens
Enviar
Anexos
Arquivos
Fotos
Links
Banco de dados
Enquetes

Promover

Laboratorios de Grupos (Beta) Aplicativos

Informações Opções

Informações sobre o grupo

Associados: 1104
Categoria: Estatística
Criado em: Jan 28, 2004
Idioma: Português

Dicas

Você sabia...
Você pode incluir fotos no seu grupo.

Início

Atividade nos últimos 7 dias: 134 novas mensagens

Descrição

R é uma linguagem de programação que permite manipular dados, fazer cálculos e gráficos estatísticos. Esta lista de discussão tem como objetivo a troca de informações, perguntas e respostas sobre o uso da linguagem R.
O R esta disponível no site: <http://www.r-project.org/>

Novas mensagens (Ver todas) (Agrupar por tópico) Buscar: OK Avançado Adicionar tópico

Re: Res: [R_STAT] transformar uma matriz do R em tabela do Excel
Rodrigo, A ideia do separador foi ótima, rodei o exemplo aqui e também deu certinho. Abraço! Nory Daniel ... -- Nory Daniel de Carvalho Erazo Técnico em
Enviada em - Sex, 9 de Jul de 2010 12:23 am

Nory Erazo
norydaniel
Offline
Enviar e-mail

Re: Res: [R_STAT] transformar uma matriz do R em tabela do Excel
Gente, deu tudo certo! À Consegui todas as soluções! E Realmente Rodrigo, vc tem razão! Alex, e a todos, À muito obrigada! abraços Si À
Enviada em - Sex, 9 de Jul de 2010 12:19 am

Simone D. Sartorio
sisartorio
Enviar mensagem instantânea
Enviar e-mail

Re: Res: [R_STAT] transformar uma matriz do R em tabela do Excel
Tentem especificar o separador `A = matrix(c(seq(1,9,1)),3,3) write.table(A,file='t.xls', row.names = FALSE,sep='\t')` Ele vai dar um alerta do excel quando for
Enviada em - Sex, 9 de Jul de 2010 12:12 am

Rodrigo Coster
rcoster87
Offline
Enviar e-mail

Re: Res: [R_STAT] transformar uma matriz do R em tabela do Excel
À À% Nory, dessa "arranjo tecnico" eu tbjÁi sabia, mas acredito q tenha um jeito mais fÁcil de fazer! Se eu descobrir eu posto aqui!
Muito obrigada gente!
Enviada em - Sex, 9 de Jul de 2010 12:00 am

Simone D. Sartorio
sisartorio
Enviar mensagem instantânea
Enviar e-mail

PT 00:29

Grupo de discussão

Yahoo! Mail (mnt.oliveira) x R_STAT : Linguagem de ... x

http://br.groups.yahoo.com/group/R_STAT/

Pesquisa Estatística Genética Agricultura Política Gastronomia Blogs Radios Jornais

Outros favoritos

Re: Res: [R_STAT] transformar uma matriz do R em tabela do Excel
Tentem especificar o separador `A = matrix(c(seq(1,9,1)),3,3) write.table(A,file='t.xls', row.names = FALSE,sep='\t')` Ele vai dar um alerta do excel quando for
Enviada em - Sex, 9 de Jul de 2010 12:12 am

Rodrigo Coster
rcoster87
Offline
Enviar e-mail

Res: Res: [R_STAT] transformar uma matriz do R em tabela do Excel
À À% Nory, dessa "arranjo tecnico" eu tbj.Ài sabia, mas acredito q tenha um jeito mais fãcil de fazer! Se eu descobrir eu posto aqui!
Muito obrigada gente!
Enviada em - Sex, 9 de Jul de 2010 12:00 am

Simone D. Sartorio
sisartorio
Enviar mensagem instantânea
Enviar e-mail

Re: Res: [R_STAT] transformar uma matriz do R em tabela do Excel
Ol.Ài Simone, Eu rodei o exemplo: `A = matrix(c(seq(1,9,1)),3,3) write.table(A,file='t.xls', row.names = FALSE)` E de fato o resultado À@ uma matriz com dimens.Ào
Enviada em - Qui, 8 de Jul de 2010 11:44 pm

Nory Erazo
norydaniel
Offline
Enviar e-mail

Histórico de mensagens

	Jan	Fev	Mar	Abr	Mai	Jun	Jul	Ago	Set	Out	Nov	Dez
2010	394	485	514	499	625	476	145					
2009	170	214	318	566	418	421	449	486	444	452	341	317
2008	86	179	157	123	203	171	176	240	363	524	375	213
2007	41	61	19	85	137	44	131	180	133	133	98	126
2006	50	24	54	55	84	76	28	100	63	54	56	52
2005	6	1	19	46	40	27	11	37	38	54	40	44
2004	6	45	36	8	11	6	12	32	4	14	18	16

Endereços de e-mail do grupo
Link relacionado: <http://www.r-project.org/>
Enviar mensagem: R_STAT@yahoogrupos.com.br
Entrar no grupo: R_STAT-subscribe@yahoogrupos.com.br
Sair do grupo: R_STAT-unsubscribe@yahoogrupos.com.br
Proprietário da lista: R_STAT-owner@yahoogrupos.com.br

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