

Steps to download softwares for windows for RNAseq workshop

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Installing MobaXterm

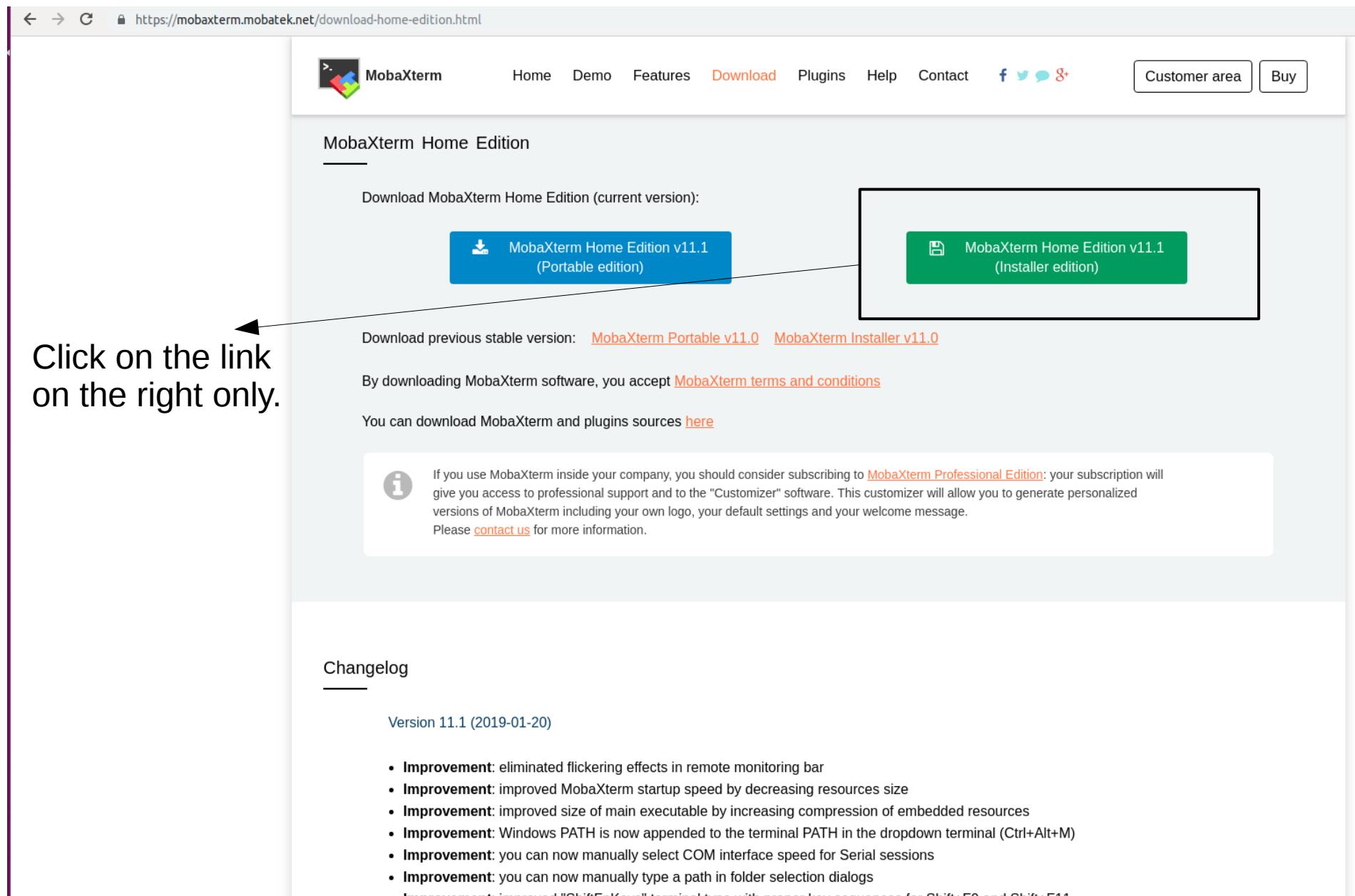
Type in google search bar

Click on the link.

Google search results for "mobaxterm for windows download". The results are as follows:

- MobaXterm Xserver with SSH, telnet, RDP, VNC and X11 - Home Edition**
<https://mobaxterm.mobatek.net/download-home-edition.html> ▾
Free X server for Windows with tabbed SSH terminal, telnet, RDP, VNC and ... By downloading MobaXterm software, you accept MobaXterm terms and ...
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- Download MobaXterm 11.1 - FileHippo.com**
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★★★★★ Rating: 7.9/10 - 66 votes - Free - Windows - Developer
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Jul 1, 2018 - MobaXterm integrates an X server and several network clients (SSH, RDP, ... Free MobaXterm for Windows 98/Me/NT/2000/XP/2003/Vista/Server ...
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<https://moba.en.softonic.com> > Windows > Internet & Network ▾
MobaXterm, free and safe download. MobaXterm latest version: Achieving Enhanced Terminal. MobaXterm is a free Internet and Network software developed by ...
- MobaXterm Free Download for Windows 10, 7, 8/8.1 (64 bit/32 bit ...**
<https://qdownload.com/mobaxterm/> ▾
MobaXterm is a set of Unix commands (SSH, SFTP, X11, VNC, etc.) included in a single ...

Download the compressed file



← → C https://mobaxterm.mobatek.net/download-home-edition.html

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MobaXterm Home Edition

Download MobaXterm Home Edition (current version):

[!\[\]\(35de7ce9c97e259aff6f01ac90da87f8_img.jpg\) MobaXterm Home Edition v11.1 \(Portable edition\)](#)

[!\[\]\(62d4d3494d4340f830d2a84926a2cbde_img.jpg\) MobaXterm Home Edition v11.1 \(Installer edition\)](#)

Download previous stable version: [MobaXterm Portable v11.0](#) [MobaXterm Installer v11.0](#)

By downloading MobaXterm software, you accept [MobaXterm terms and conditions](#)

You can download MobaXterm and plugins sources [here](#)

 If you use MobaXterm inside your company, you should consider subscribing to [MobaXterm Professional Edition](#): your subscription will give you access to professional support and to the "Customizer" software. This customizer will allow you to generate personalized versions of MobaXterm including your own logo, your default settings and your welcome message. Please [contact us](#) for more information.

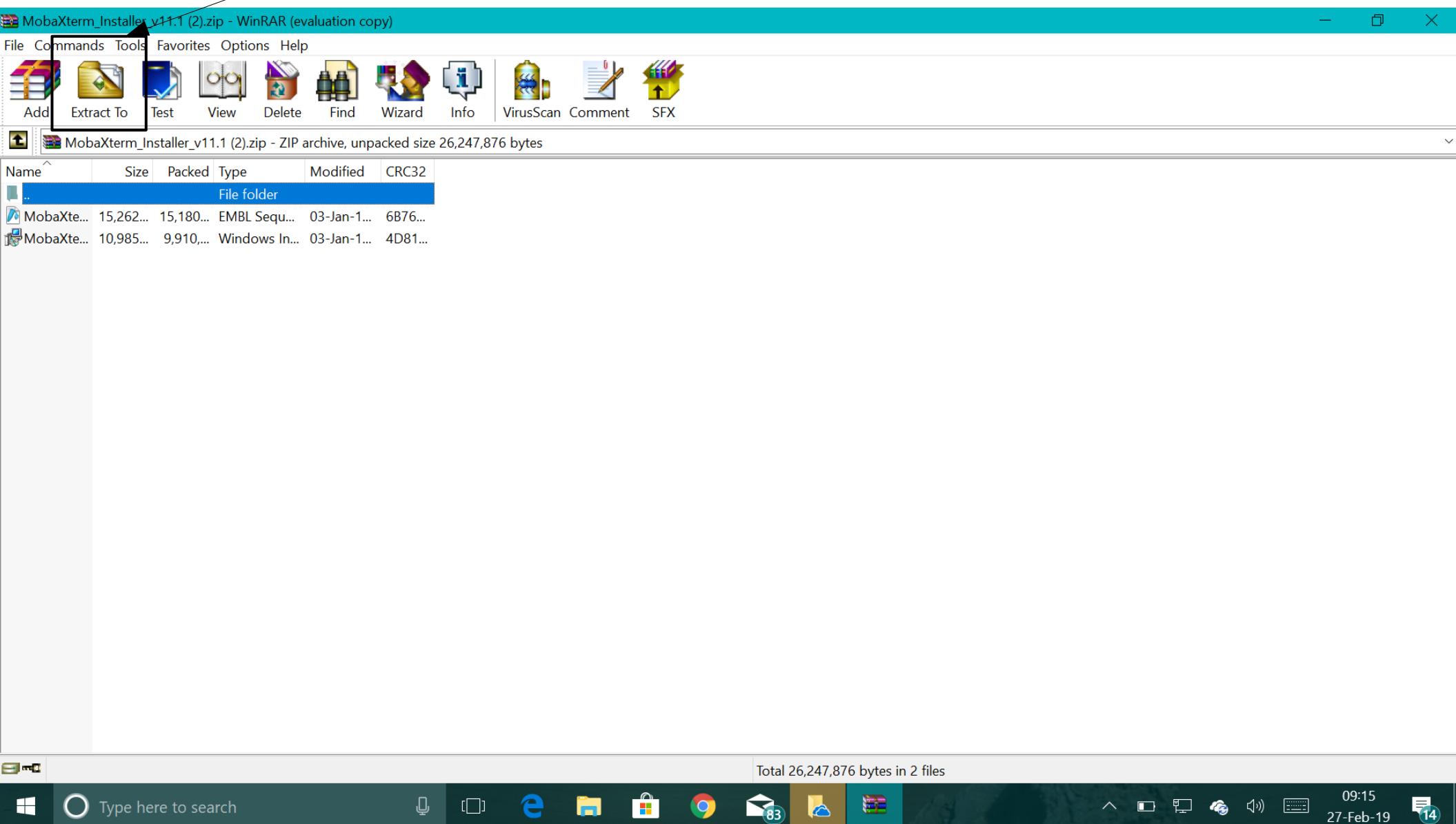
Changelog

Version 11.1 (2019-01-20)

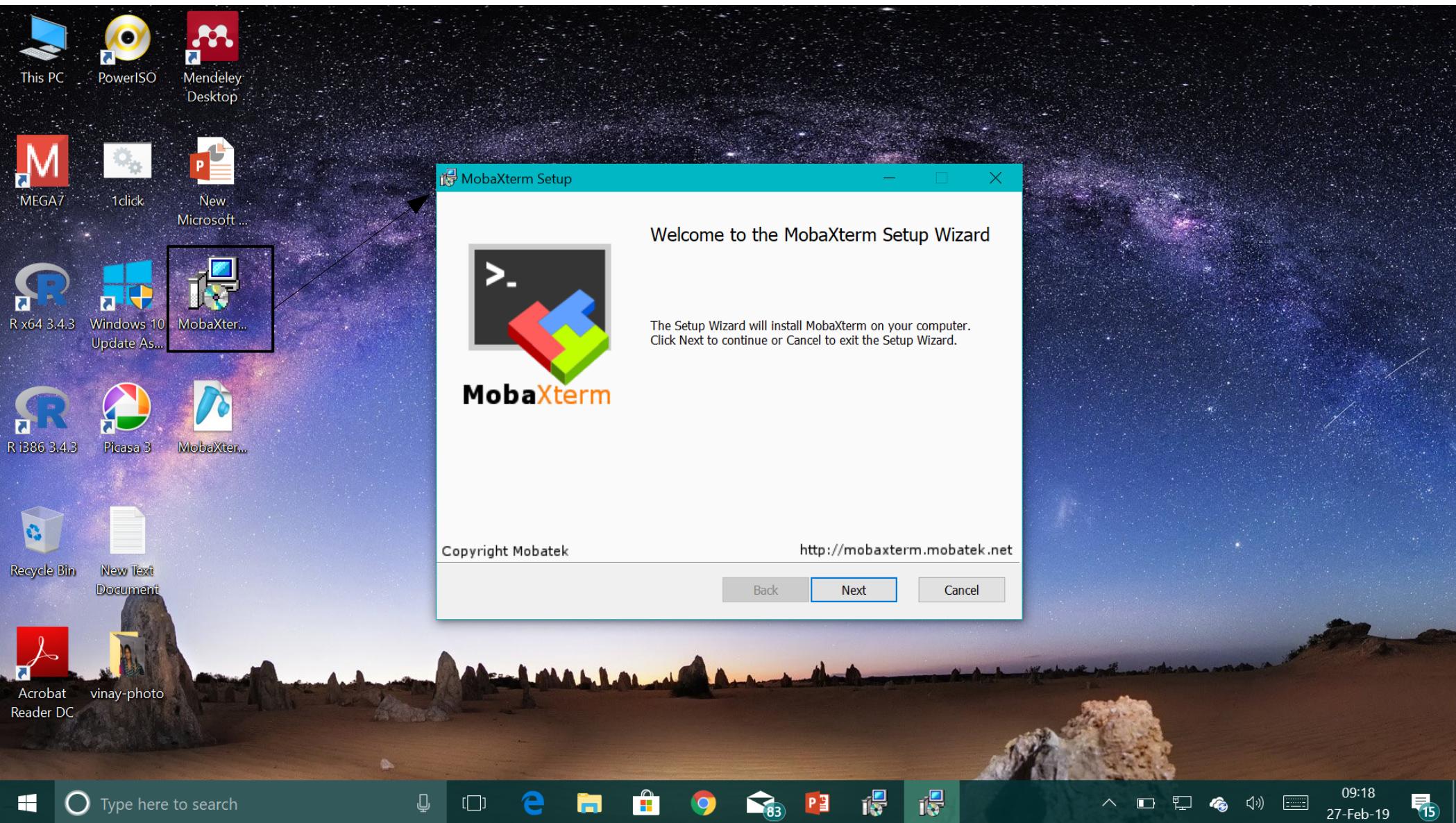
- **Improvement:** eliminated flickering effects in remote monitoring bar
- **Improvement:** improved MobaXterm startup speed by decreasing resources size
- **Improvement:** improved size of main executable by increasing compression of embedded resources
- **Improvement:** Windows PATH is now appended to the terminal PATH in the dropdown terminal (Ctrl+Alt+M)
- **Improvement:** you can now manually select COM interface speed for Serial sessions
- **Improvement:** you can now manually type a path in folder selection dialogs
- **Improvement:** improved "ShiftEnKev" terminal type with proper key sequences for Shift+F0 and Shift+F11

Click on the link on the right only.

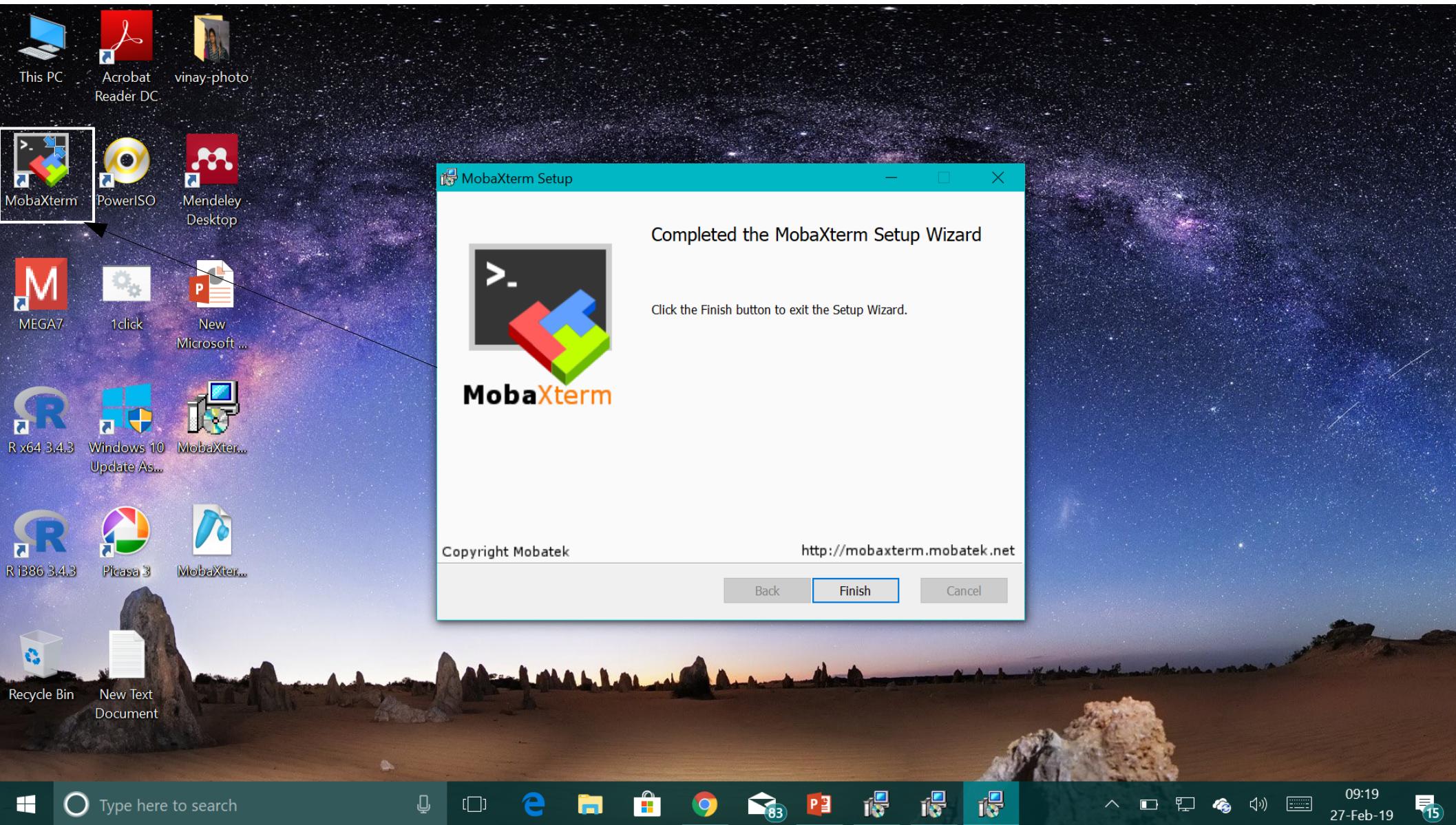
Open the .zip file and extract to a desired folder



Open the MobaXterm setup from the folder where you extracted your .zip file



A shortcut of MobaXterm will be created after finishing the setup (all default settings)



Installing R

If you do not have R installed on your windows, please follow the instructions ahead

Type in google search bar

Click on the link



About 54,70,00,000 results (0.35 seconds)

Download R-3.5.2 for Windows. The R-project for statistical computing.

<https://cran.r-project.org/bin/windows/base/> ▾

R-3.5.2 for Windows (32/64 bit). Download R 3.5.2 for Windows (79 megabytes, 32/64 bit).

[Installation and other instructions](#) · [New features in this version](#).

R for Windows
<https://cran.r-project.org/bin/windows/> ▾

This is what you want to install R for the first time. ... party software available for CRAN Windows services and corresponding environment and make variables.

[Install R for the first time](#) · [Of /bin/windows/contrib · Rtools](#)

People also search for

[r 3.4.4 download](#) [difference between r and rstudio](#)
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Download R and RStudio | UT.7.01x | edX

<https://courses.edx.org/courses/UTAustinX/.../56c5437b88fa43cf828bfff5371c6a924/> ▾

To Install R: Open an internet browser and go to www.r-project.org. Click the "download R" link in the middle of the page under "Getting Started." Select a CRAN location (a mirror site) and click the corresponding link. Click on the "Download R for Windows" link at the top of the page.

Install R and RStudio on Windows 7, 8, and 10 – Michael Galarnyk ...

<https://medium.com/.../install-r-and-rstudio-on-windows-5f503f708027> ▾

Jan 25, 2017 - 2. Click on Download R for Windows. Click on base. Click on Download R 3.3.2 for Windows (or a newer version that appears). 4. Download ...

Videos



Open this hyperlink.



← → C <https://cran.r-project.org/bin/windows/>

R for Windows

Subdirectories:

- [base](#)
- [contrib](#)
- [old contrib](#)
- [Rtools](#)

Binaries for base distribution. This is what you want to [install R for the first time](#).

Binaries of contributed CRAN packages (for R >= 2.13.x; managed by Uwe Ligges). There is also information on [third party software](#) available for CRAN Windows services and corresponding environment and make variables.

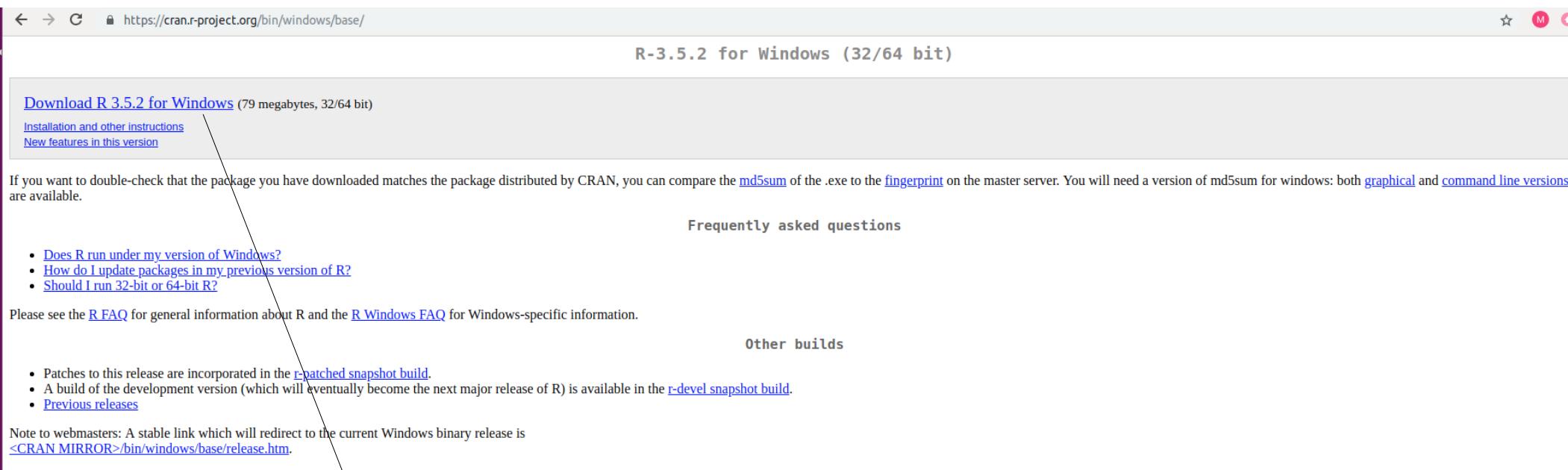
Binaries of contributed CRAN packages for outdated versions of R (for R < 2.13.x; managed by Uwe Ligges).

Tools to build R and R packages. This is what you want to build your own packages on Windows, or to build R itself.

Please do not submit binaries to CRAN. Package developers might want to contact 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](#).

Note: CRAN does some checks on these binaries for viruses, but cannot give guarantees. Use the normal precautions with downloaded executables.



← → C <https://cran.r-project.org/bin/windows/base/> ☆ M

R-3.5.2 for Windows (32/64 bit)

[Download R 3.5.2 for Windows](#) (79 megabytes, 32/64 bit)

[Installation and other instructions](#)

[New features in this version](#)

If you want to double-check that the package you have downloaded matches the package distributed by CRAN, you can compare the [md5sum](#) of the .exe to the [fingerprint](#) on the master server. You will need a version of md5sum for windows: both [graphical](#) and [command line versions](#) are available.

[Frequently asked questions](#)

- [Does R run under my version of Windows?](#)
- [How do I update packages in my previous version of R?](#)
- [Should I run 32-bit or 64-bit R?](#)

Please see the [R FAQ](#) for general information about R and the [R Windows FAQ](#) for Windows-specific information.

[Other builds](#)

- 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](#).
- [Previous releases](#)

Note to webmasters: A stable link which will redirect to the current Windows binary release is
<CRAN MIRROR>/bin/windows/base/release.htm.

Download the hyperlink. Follow the instructions with default settings to install R as previously done for MobaXterm installation.

Installing Rstudio

In order for Rstudio to work, you need to have R already installed on your system. Please go back to the previous section and install R before proceeding.

Click on the link highlighted

rstudio - Google Search

https://www.google.com/search?q=rstudio&rlz=1C1CHBF_enIN766IN766&oq=rstudio&aqs=chrome..69i57.3285j0j4&sourceid=chrome&ie=UTF-8

Apps Facebook Google NCBS Webmail - Lo... YouTube IRCTC Next Generat... bioRxiv.org - the pr... 30 Books Everyone ... 10 Quotes by Sahir ...

Google

rstudio

All Images Books News Videos More Settings Tools

About 57,90,000 results (0.42 seconds)

RStudio: Open source and enterprise-ready professional software for ...

<https://www.rstudio.com/>

5 days ago - RStudio provides popular open source and enterprise-ready professional software for the R statistical computing environment.

Results from rstudio.com

Download RStudio
Download the RStudio IDE or RStudio Server.

RStudio Desktop
Desktop. Run RStudio on your desktop. RStudio Desktop ...

R Packages
The RStudio team contributes code to many R packages and ...

TensorFlow for R
Documentation for the TensorFlow for R interface.

RStudio Webinars
Webinars and videos are presented on a variety of ...

Careers
RStudio is always on the lookout for talented people to join ...

People also ask

RStudio

Computer program

RStudio is a free and open-source integrated development environment for R, a programming language for statistical computing and graphics. RStudio was founded by JJ Allaire, creator of the programming language ColdFusion. Hadley Wickham is the Chief Scientist at RStudio. [Wikipedia](#)

License: Affero General Public License v3

Developer(s): RStudio, Inc

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Click on the non-green fill “Download” option

RStudio® is a integrated development environment that supports direct code execution, and a variety of robust tools for debugging and managing your workspace. Learn more [here](#).

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FREE \$995 per year FREE \$9,995 per year \$29,995 per year

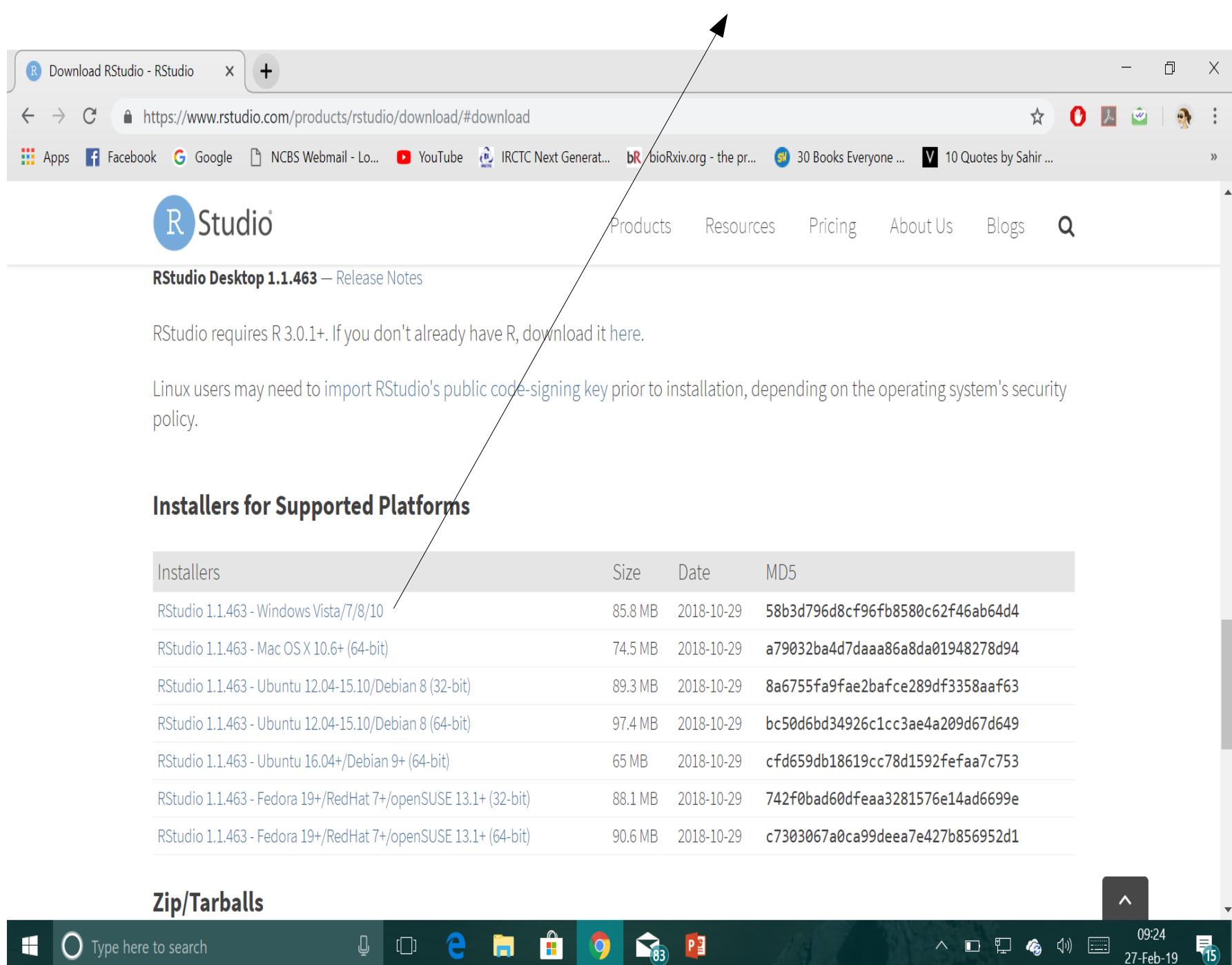
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Integrated Tools for R	●	●	●	●	●
Priority Support		●		●	●
Access via Web Browser			●	●	●
Enterprise Security				●	●

<https://www.rstudio.com/products/rstudio/download/#download>

Click on the first link to download Rstudio package on your system



R Studio

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RStudio Desktop 1.1.463 — Release Notes

RStudio requires R 3.0.1+. If you don't already have R, download it [here](#).

Linux users may need to import RStudio's public code-signing key prior to installation, depending on the operating system's security policy.

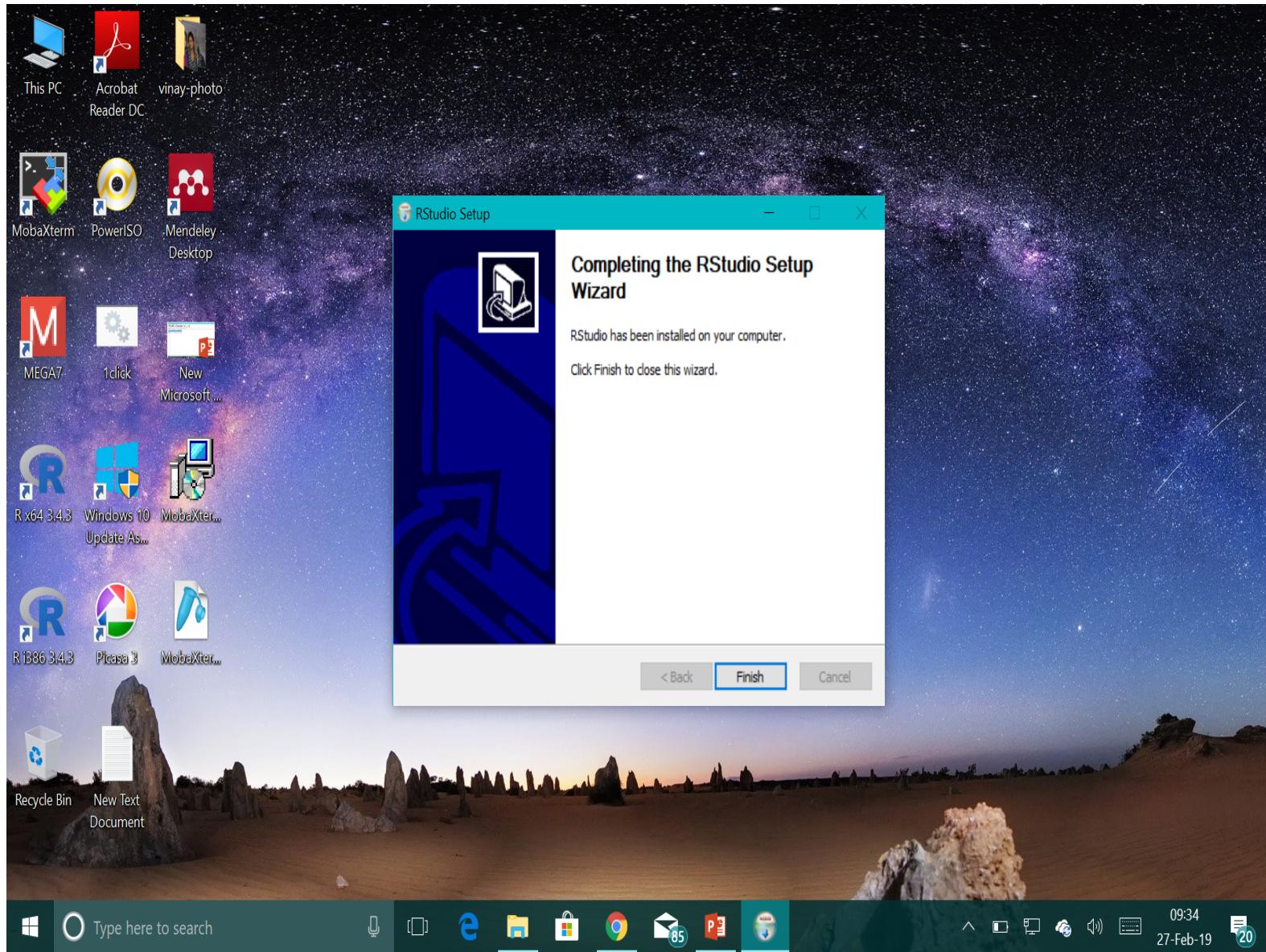
Installers for Supported Platforms

Installers	Size	Date	MD5
RStudio 1.1.463 - Windows Vista/7/8/10	85.8 MB	2018-10-29	58b3d796d8cf96fb8580c62f46ab64d4
RStudio 1.1.463 - Mac OS X 10.6+ (64-bit)	74.5 MB	2018-10-29	a79032ba4d7daaa86a8da01948278d94
RStudio 1.1.463 - Ubuntu 12.04-15.10/Debian 8 (32-bit)	89.3 MB	2018-10-29	8a6755fa9fae2bafce289df3358aaf63
RStudio 1.1.463 - Ubuntu 12.04-15.10/Debian 8 (64-bit)	97.4 MB	2018-10-29	bc50d6bd34926c1cc3ae4a209d67d649
RStudio 1.1.463 - Ubuntu 16.04+/Debian 9+ (64-bit)	65 MB	2018-10-29	cf659db18619cc78d1592fefaa7c753
RStudio 1.1.463 - Fedora 19+/RedHat 7+/openSUSE 13.1+ (32-bit)	88.1 MB	2018-10-29	742f0bad60dfeaa3281576e14ad6699e
RStudio 1.1.463 - Fedora 19+/RedHat 7+/openSUSE 13.1+ (64-bit)	90.6 MB	2018-10-29	c7303067a0ca99deea7e427b856952d1

Zip/Tarballs

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Follow the instructions with default settings to complete the installation.



Installation of certain packages in R using Rstudio

→ Type commands in the console

```
> a <- c(1,2)
> a
[1] 1 2
> source("https://bioconductor.org/biocLite.R")
Bioconductor version 3.6 (BioInstaller 1.28.0), ?biocLite for help
A new version of Bioconductor is available after installing the most recent version of R; see
  http://bioconductor.org/install
> biocLite("edgeR")
BioC_mirror: https://bioconductor.org
Using Bioconductor 3.6 (BioInstaller 1.28.0), R 3.4.3 (2017-11-30).
Installing package(s) 'edgeR'
trying URL 'https://bioconductor.org/packages/3.6/bioc/bin/windows/contrib/3.4/edgeR_3.20.9.zip'
Content type 'application/zip' length 5531758 bytes (5.3 MB)
downloaded 5.3 MB

package 'edgeR' successfully unpacked and MD5 sums checked

The downloaded binary packages are in
  C:\Users\Lenovo\AppData\Local\Temp\RtmpSW0jxs\downloaded_packages
installation path not writeable, unable to update packages: class, cluster, codetools,
  foreign, lattice, MASS, Matrix, mgcv, nlme, rpart, survival
> install.packages("gplots")
Installing package into 'C:/Users/Lenovo/Documents/R/win-library/3.4'
(as 'lib' is unspecified)
trying URL 'https://cran.rstudio.com/bin/windows/contrib/3.4/gplots_3.0.1.1.zip'
Content type 'application/zip' length 512296 bytes (500 KB)
downloaded 500 KB

package 'gplots' successfully unpacked and MD5 sums checked

The downloaded binary packages are in
  C:\Users\Lenovo\AppData\Local\Temp\RtmpSW0jxs\downloaded_packages
> install.packages("ape")
Installing package into 'C:/Users/Lenovo/Documents/R/win-library/3.4'
(as 'lib' is unspecified)
trying URL 'https://cran.rstudio.com/bin/windows/contrib/3.4/ape_5.2.zip'
Content type 'application/zip' length 2092401 bytes (2.0 MB)
downloaded 2.0 MB

package 'ape' successfully unpacked and MD5 sums checked

The downloaded binary packages are in
  C:\Users\Lenovo\AppData\Local\Temp\RtmpSW0jxs\downloaded_packages
> |
```

1
2
3
4

Environment History Connections

Values

a	num [1:2] 1 2
---	---------------

Files Plots Packages Help Viewer

Install Update

Name	Description	Version
ape	Analyses of Phylogenetics and Evolution	5.2
BioInstaller	Install/Update Bioconductor, CRAN, and github Packages	1.28.0
bitops	Bitwise Operations	1.0-6
caTools	Tools: moving window statistics, GIF, Base64, ROC AUC, etc.	1.17.1.1
edgeR	Empirical Analysis of Digital Gene Expression Data in R	3.20.9
gdata	Various R Programming Tools for Data Manipulation	2.18.0
gplots	Various R Programming Tools for Plotting Data	3.0.1.1
gtools	Various R Programming Tools	3.8.1
limma	Linear Models for Microarray Data	3.34.9
locfit	Local Regression, Likelihood and Density Estimation.	1.5-9.1
Rcpp	Seamless R and C++ Integration	1.0.0
statmod	Statistical Modeling	1.4.30

User Library

Name	Description	Version
ape	Analyses of Phylogenetics and Evolution	5.2
BioInstaller	Install/Update Bioconductor, CRAN, and github Packages	1.28.0
bitops	Bitwise Operations	1.0-6
caTools	Tools: moving window statistics, GIF, Base64, ROC AUC, etc.	1.17.1.1
edgeR	Empirical Analysis of Digital Gene Expression Data in R	3.20.9
gdata	Various R Programming Tools for Data Manipulation	2.18.0
gplots	Various R Programming Tools for Plotting Data	3.0.1.1
gtools	Various R Programming Tools	3.8.1
limma	Linear Models for Microarray Data	3.34.9
locfit	Local Regression, Likelihood and Density Estimation.	1.5-9.1
Rcpp	Seamless R and C++ Integration	1.0.0
statmod	Statistical Modeling	1.4.30

System Library

Name	Description	Version
boot	Bootstrap Functions (Originally by Angelo Canty for S)	1.3-20
class	Functions for Classification	7.3-14
cluster	"Finding Groups in Data": Cluster Analysis Extended Rousseeuw et al.	2.0.6
codetools	Code Analysis Tools for R	0.2-15
compiler	The R Compiler Package	3.4.3
datasets	The R Datasets Package	3.4.3

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Type the commands in blue and then press Ctrl+Enter in the **Console**. Wait for the commands to complete, before the next “>” appears on console.

Note: Just pressing Enter alone will not execute the command. Press “**Ctrl**” and “**Enter**” at the same time to execute the command.

Similarly, install statmod using console.

```
> install.packages("statmod")
```

The following packages will be installed in R for carrying out the differential gene expression analysis:

- 1) edgeR
- 2) gplots
- 3) ape
- 4) statmod

See you all at the workshop!