

# Software Installation - PC

The following instructions will guide you through installing **R**, **RStudio**, and **LaTeX** (MiKTeX for PC). Throughout the program you will be asked to turn in assignments in a pdf format. Using R Markdown (.rmd) files in RStudio will allow you to compile files into a pdf. In an R Markdown file you will be able to show written code, outputs from code (including plots), and write like you would in a word processing document. Once you have installed **R**, **RStudio**, and **LaTeX** (MiKTeX for PC) open the *RStudio\_tutorial.rmd* to test if you can knit the file from .rmd to .pdf.

It is important to download R, before installing RStudio as all versions of RStudio requires users to have downloaded prior to running RStudio.

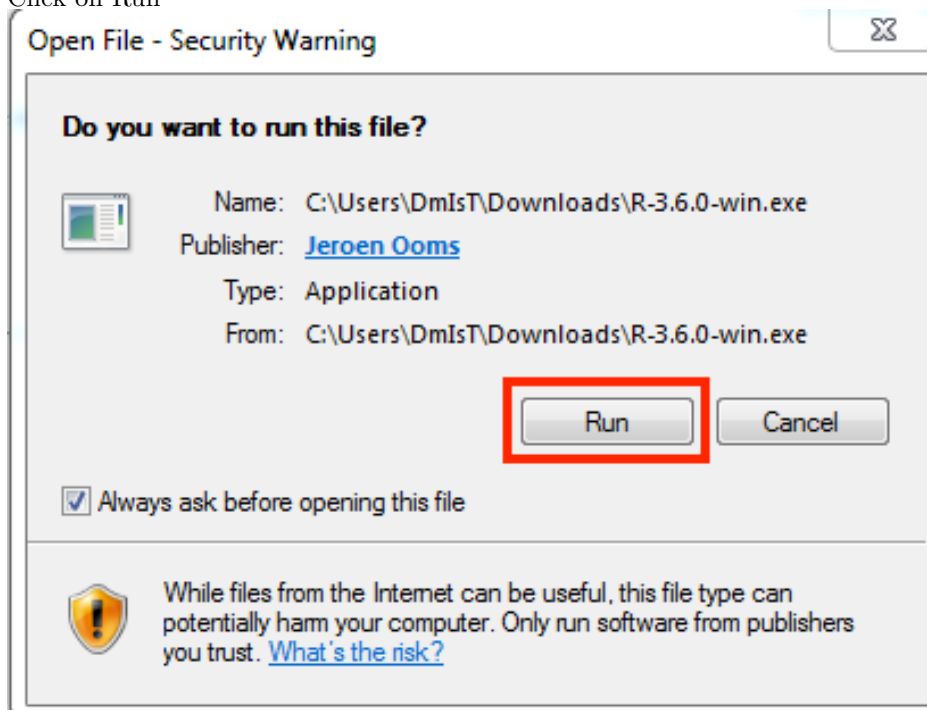
Note: Instructions were written for Windows 7.

A helpful link for other operating versions of Windows:

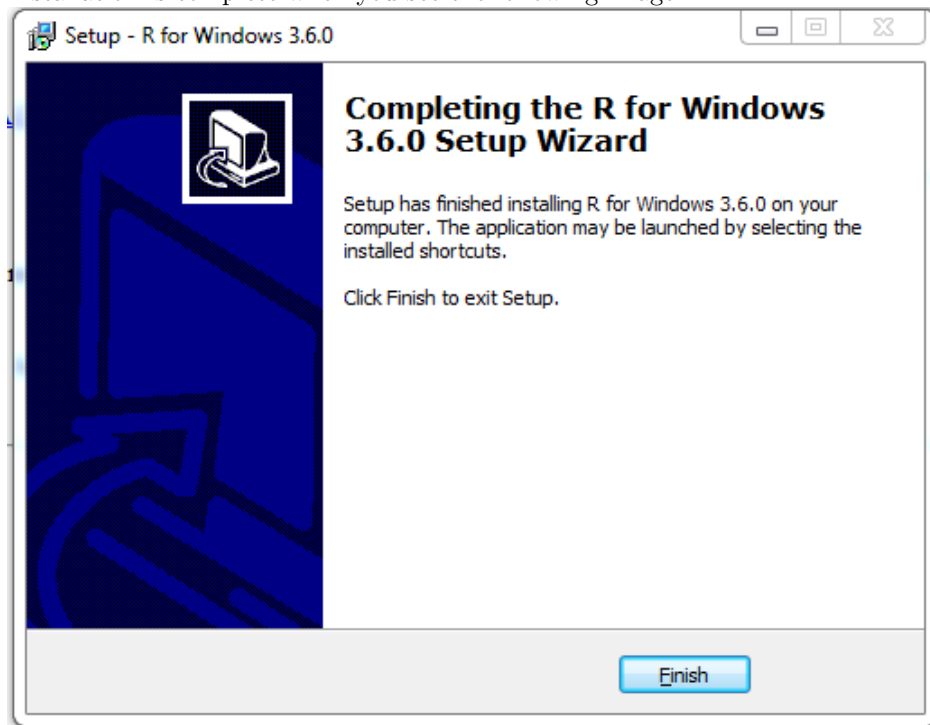
<https://medium.com/@sorenind/create-pdf-reports-using-r-r-markdown-latex-and-knitr-on-windows-10-952b0c48bfa9>

## 1. Download and Install R

- It can be downloaded here: <https://cran.rstudio.com/>
- Click on **Download R for Windows**
- Choose the **base** (to download R for this first time), and finally **Download R 3.6.0 for Windows**
- Click on Run



- Installation is complete when you see the following image.



## 2. Download and Install RStudio

Go to this link <https://www.rstudio.com/products/rstudio/download/#download>

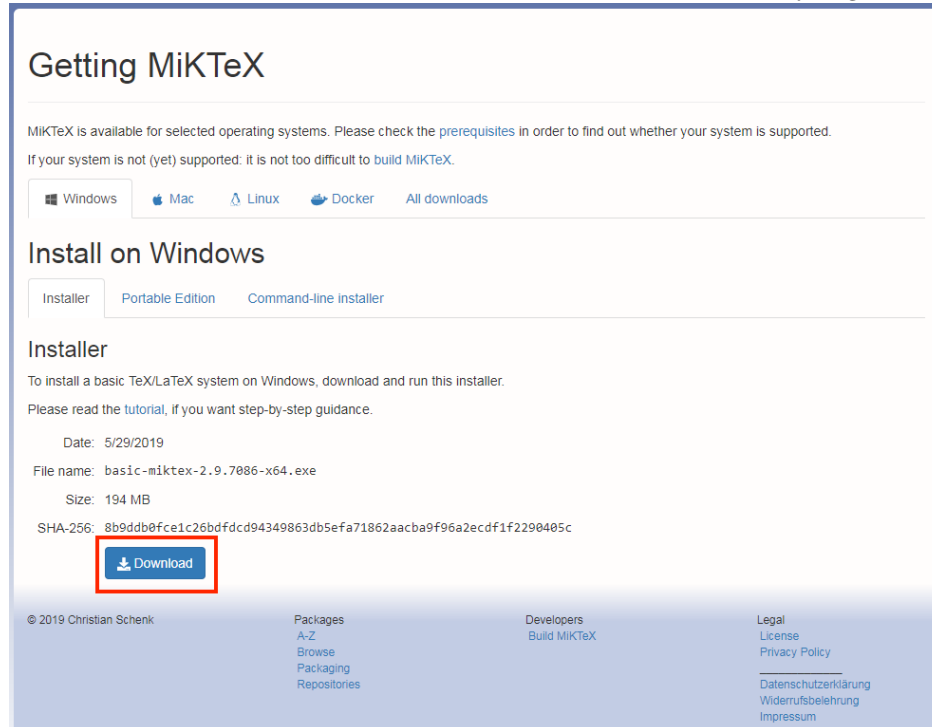
- Scroll down to the Installers for Supported Platforms and choose **RStudio 1.2.1335 - Windows 7+ (64-bit)**

### Installers for Supported Platforms

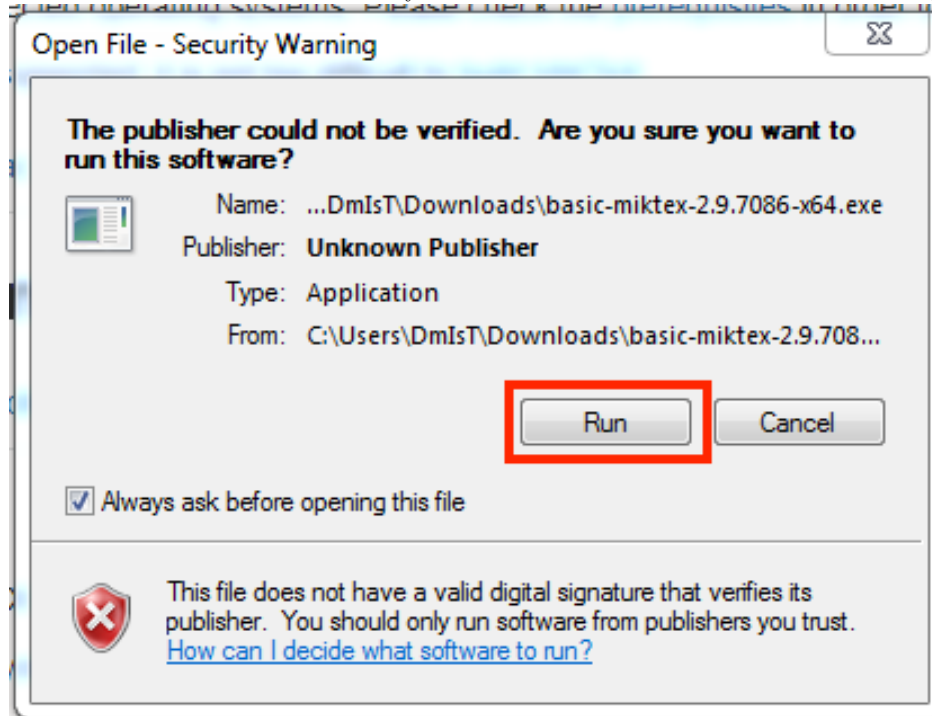
Installers	Size	Date	MD5
RStudio 1.2.1335 - Windows 7+ (64-bit)	126.9 MB	2019-04-08	d0e2470f1f8ef4cd35a669aa323a2136
RStudio 1.2.1335 - Mac OS X 10.12+ (64-bit)	121.1 MB	2019-04-08	6c570b0e2144583f7c48c284ce299eef
RStudio 1.2.1335 - Ubuntu 14/Debian 8 (64-bit)	92.2 MB	2019-04-08	c1b07d0511469abfe582919b183eee83
RStudio 1.2.1335 - Ubuntu 16 (64-bit)	99.3 MB	2019-04-08	c142d69c210257fb10d18c045fff13c7
RStudio 1.2.1335 - Ubuntu 18 (64-bit)	100.4 MB	2019-04-08	71a8d1990c0d97939804b46cfb0aea75
RStudio 1.2.1335 - Fedora 19+/RedHat 7+ (64-bit)	114.1 MB	2019-04-08	296b6ef88969a91297fab6545f256a7a
RStudio 1.2.1335 - Debian 9+ (64-bit)	100.6 MB	2019-04-08	1e32d4d6f6e216f086a81ca82ef65a91
RStudio 1.2.1335 - OpenSUSE 15+ (64-bit)	101.6 MB	2019-04-08	2795a63c7efd8e2aa2dae86ba09a81e5
RStudio 1.2.1335 - SLES/OpenSUSE 12+ (64-bit)	94.4 MB	2019-04-08	c65424b06ef6737279d982db9eefcae1

### 3. Download and Install MiKTeX

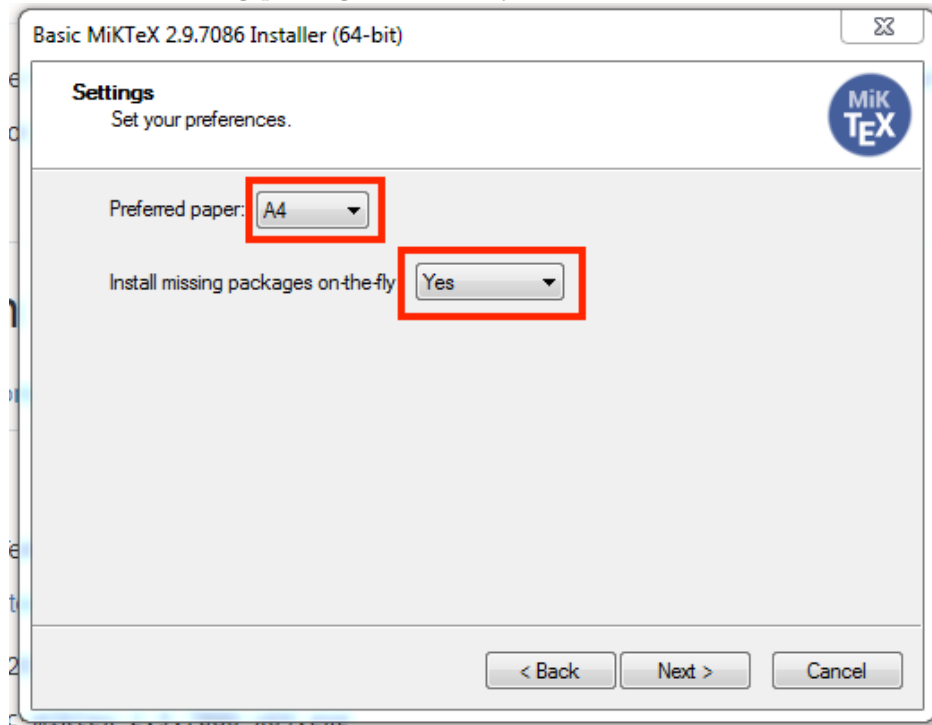
- Download MiKTeX from this link : <https://miktex.org/download>
  - Choose the **Howto: Install MikTeX on your Windows computer**
  - Press the Download icon at the bottom and the file will immediately begin downloading



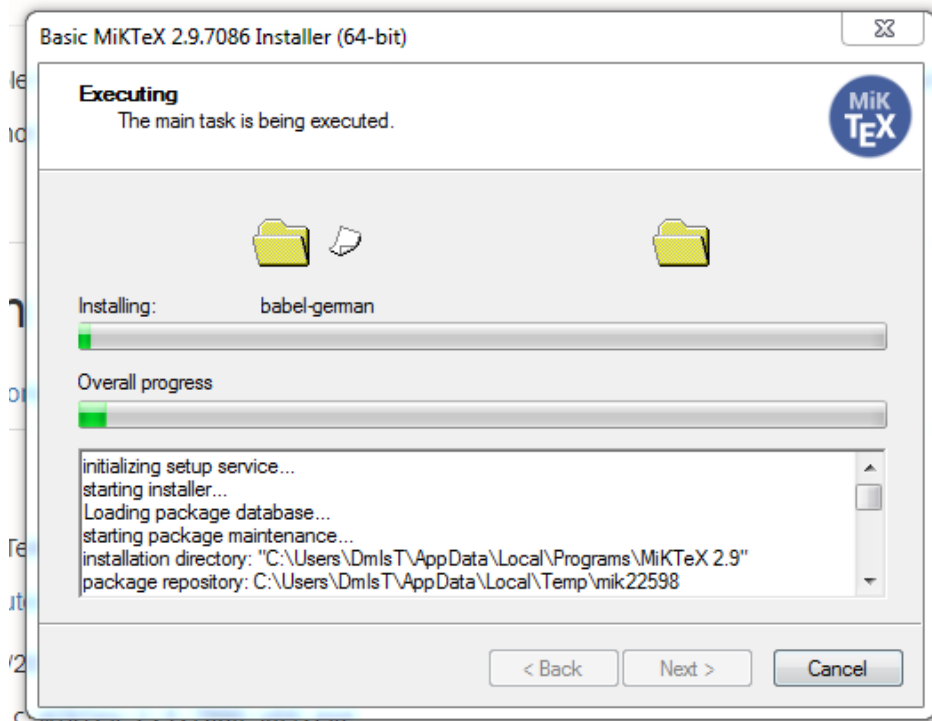
- Click on the file at the bottom of your web browser and start the installation by pressing **Run**



- After following the on screen instructions, you will need to choose your settings. **Make sure to set Install missing packages on-the-fly to Yes**



- You will be redirected to this screen and make sure to continue to press **Next** and follow the on-screen directions until the installation process finishes.



- If you need to uninstall MiKTeX, restart your compute, and go to uninstall programs