

# Installation Guide

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This guide provides detailed, OS-specific steps for installing the core software needed for this course: R, RStudio, and Git.

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# Chapter 1

## Installing on Windows

Follow these steps in order.

### 1.1 1. Install R

1. Go to the [CRAN \(Comprehensive R Archive Network\)](#).
2. Click the large “**Download R-X.X.X for Windows**” link at the top of the page.
3. Run the downloaded installer (.exe file).
4. Accept all the default settings during installation. Click “Next” until it’s finished.

### 1.2 2. Install RStudio

1. Go to the [Posit website](#).
2. Click the “Download RStudio Desktop” button. The site should automatically detect you are on Windows.
3. Run the downloaded installer.
4. Accept all the default settings.

## 1.3 3. Install Git

1. Go to the [official Git website](#).
  2. Click the “Windows” link to download the installer.
  3. Run the installer. This one has many screens, but you can safely **accept all the default options**. The most important thing is to ensure that Git is added to your system’s PATH, which is the default behavior.
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# Chapter 2

## Installing on macOS

Follow these steps in order.

### 2.1 1. Install R

1. Go to the [CRAN \(Comprehensive R Archive Network\)](#).
2. Look for the “Latest release” section. Download the package (.pkg file) that matches your Mac’s processor (Apple Silicon “M1/M2/M3” or Intel). If you’re unsure, click the Apple menu → “About This Mac” to check.
3. Run the downloaded installer. Accept all default settings.

### 2.2 2. Install RStudio

1. Go to the [Posit website](#).
2. Click the “Download RStudio Desktop” button. The site should automatically detect you are on macOS.
3. This will download a .dmg file. Open it.
4. A new window will appear. Drag the RStudio icon into the Applications folder icon.
5. The first time you open RStudio, you may get a security warning. Click “Open” to proceed.

## 2.3 3. Install Git

macOS comes with Git pre-installed. However, it's often best to install a newer version using [Homebrew](#), a package manager for macOS.

1. **Install Homebrew (if you don't have it):** Open the **Terminal** app (you can find it in Applications/Utilities) and paste the following command, then press Enter: `bash /bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"`
2. **Install Git:** Once Homebrew is installed, run the following command in the Terminal: `brew install git` This ensures you have an up-to-date version of Git.