

# PDF Vision .Net

*(Multi-platform .Net library)*

## macOS development manual

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[SautinSoft](https://www.sautinsoft.com)

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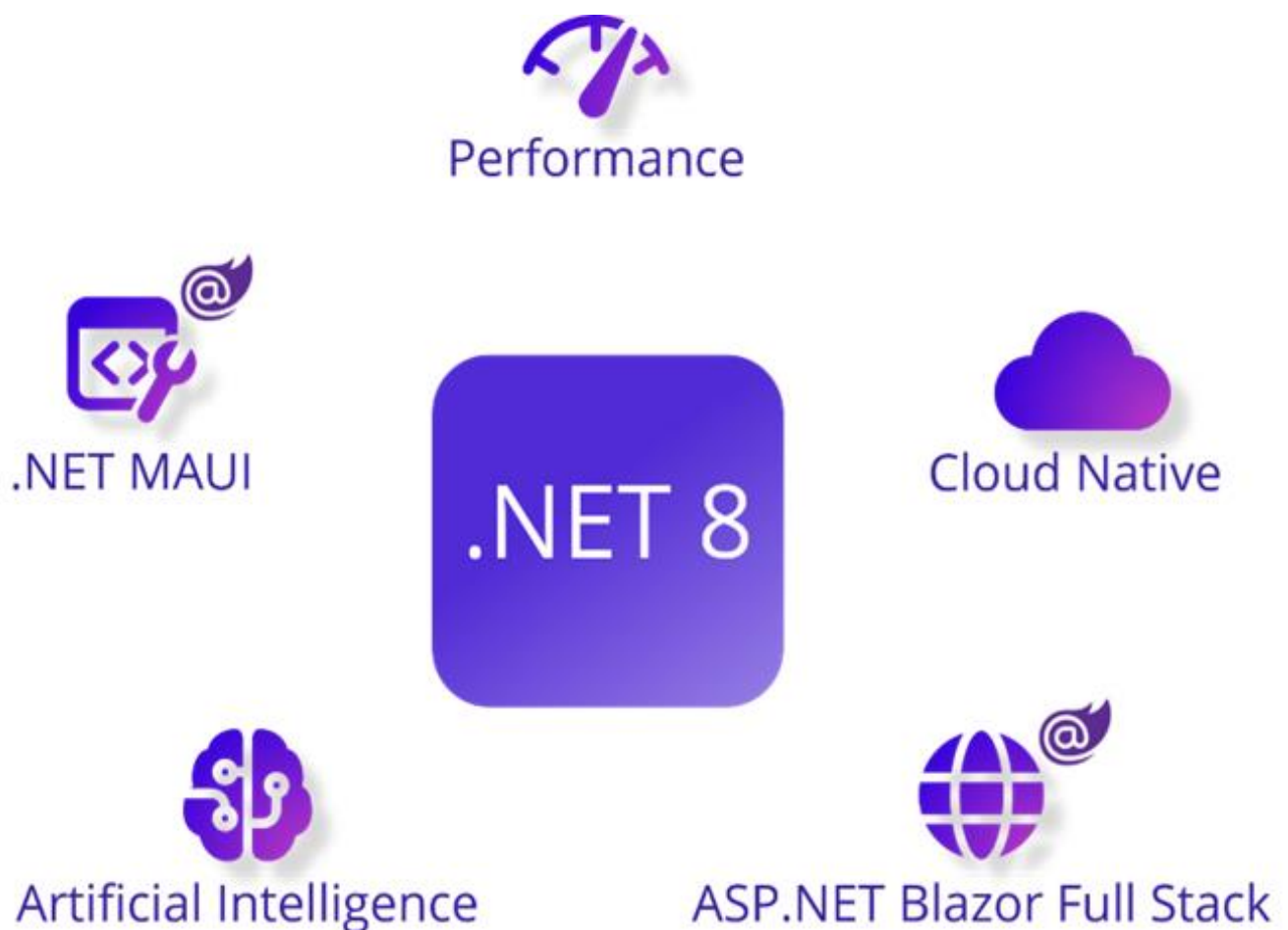
# 1. Preparing environment

In order to build multi-platform applications using .NET on macOS, the first steps are for installing in our MAC machine the required tools.

**We need to install .NET Core SDK from Microsoft and to allow us to develop easier, we will install an advance editor with a lot of features, Visual Studio Code from Microsoft.**

Both installations are very easy and the detailed description can be found by these two links:

- [Install .NET Core SDK for macOS.](#)



- [Install VS Code for macOS.](#)

The image shows the Visual Studio Code website on the left and a screenshot of the VS Code IDE's Extensions view on the right. The website has a dark blue header with the Visual Studio Code logo and navigation links: Docs, Updates, Blog, API, Extensions, and FAQ. Below the header, a banner reads "Code editing. Redefined." and "Free. Built on open source. Runs everywhere." A green button labeled "Download for Windows" is visible, with a dropdown menu showing download links for macOS, Windows x64, and Linux x64. The Extensions view in the IDE shows a list of popular extensions, including C#, Python, Debugger for Chrome, C/C++, Go, and ESLint, each with an "Install" button.

		Stable	Insiders
macOS	Package	↓	↓
Windows x64	User Installer	↓	↓
Linux x64	.deb	↓	↓
	.rpm	↓	↓

[Other downloads](#)

Once installed VS Code, you need to install a C# extension to facilitate us to code and debugging:

Install [C# extension](#).

At the time of this writing, .NET Core has a problem with supporting the GdiPlus library on macOS. There is a solution that will help you to run any .NET libraries using GdiPlus.

## Problem:

You got the whole thing up and running in debug, but when you went for your dotnet run, you got the following crash:

```
The type initializer for 'System.Drawing.GDIPlus' threw an
exception. -> System.DllNotFoundException: Unable to load DLL
'gdiplus': The specified module or one of its dependencies could not
be found.
```

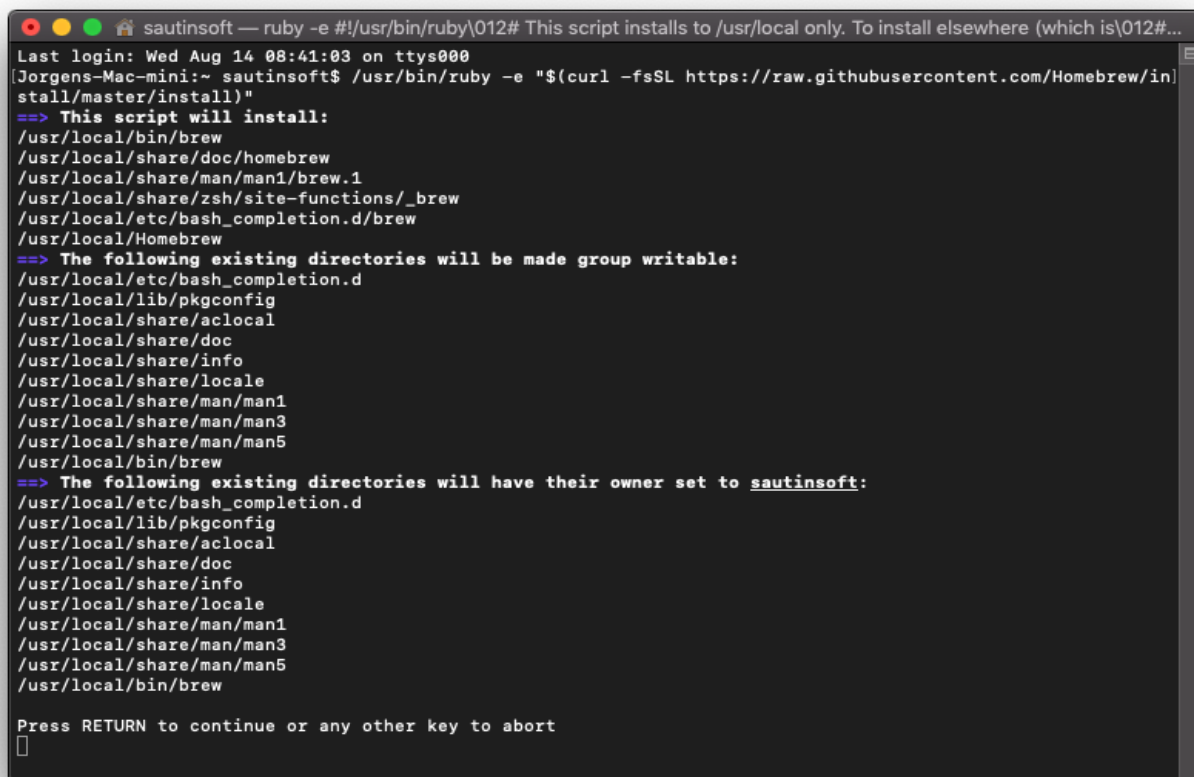
## Solution:

First of all, you need to install "[Homebrew](#)" - The missing package manager for macOS.

*Paste that in a macOS Terminal prompt:*

```
$ /usr/bin/ruby -e "$(curl -fsSL
https://raw.githubusercontent.com/Homebrew/install/master/install)"
```

The script explains what it will do and then pauses before it does it.



```
sautinsoft — ruby -e #!/usr/bin/ruby\012# This script installs to /usr/local only. To install elsewhere (which is\012#...
Last login: Wed Aug 14 08:41:03 on ttys000
Jorgens-Mac-mini:~ sautinsoft$ /usr/bin/ruby -e "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/in
stall/master/install)"
==> This script will install:
/usr/local/bin/brew
/usr/local/share/doc/homebrew
/usr/local/share/man/man1/brew.1
/usr/local/share/zsh/site-functions/_brew
/usr/local/etc/bash_completion.d/brew
/usr/local/Homebrew
==> The following existing directories will be made group writable:
/usr/local/etc/bash_completion.d
/usr/local/lib/pkgconfig
/usr/local/share/aclocal
/usr/local/share/doc
/usr/local/share/info
/usr/local/share/locale
/usr/local/share/man/man1
/usr/local/share/man/man3
/usr/local/share/man/man5
/usr/local/bin/brew
==> The following existing directories will have their owner set to sautinsoft:
/usr/local/etc/bash_completion.d
/usr/local/lib/pkgconfig
/usr/local/share/aclocal
/usr/local/share/doc
/usr/local/share/info
/usr/local/share/locale
/usr/local/share/man/man1
/usr/local/share/man/man3
/usr/local/share/man/man5
/usr/local/bin/brew
Press RETURN to continue or any other key to abort
█
```

[SautinSoft](#)

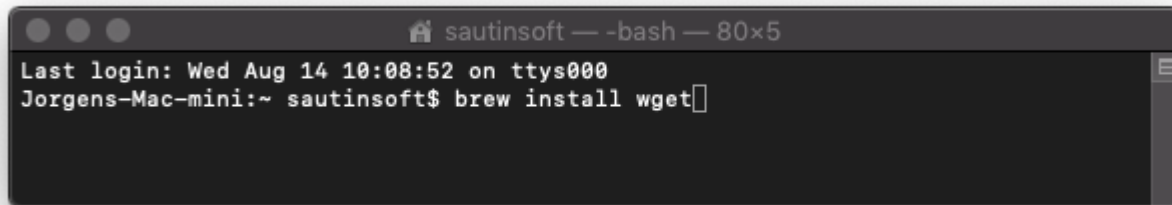
[support@sautinsoft.com](mailto:support@sautinsoft.com)

Homebrew installs [the stuff you need](#) that Apple (or your Linux system) didn't.

*Paste that in a macOS Terminal prompt:*

```
$ brew install wget
```

Homebrew installs packages to their own directory and then symlinks their files into `/usr/local`

A screenshot of a macOS Terminal window. The title bar shows a home icon, the text 'sautinsoft', and a bash shell prompt with window dimensions '80x5'. The terminal content shows 'Last login: Wed Aug 14 10:08:52 on ttys000' followed by the prompt 'Jorgens-Mac-mini:~ sautinsoft\$' and the command 'brew install wget' being typed at the end of the line.

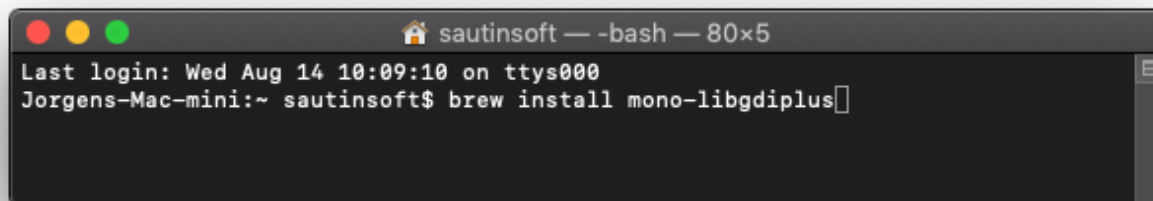
```
sautinsoft — -bash — 80x5
Last login: Wed Aug 14 10:08:52 on ttys000
Jorgens-Mac-mini:~ sautinsoft$ brew install wget
```

Homebrew won't install files outside its prefix and you can place a Homebrew installation wherever you like. Homebrew complements macOS (or your Linux system). Install your RubyGems with `gem` and their dependencies with `brew`.

Now, we need to install [mono-libgdiplus](#). GdiPlus – compatible API on non-Windows operating systems.

*Paste that in a macOS Terminal prompt:*

```
$ brew install mono-libgdiplus
```

A screenshot of a macOS Terminal window. The title bar shows a home icon, the text 'sautinsoft', and a bash shell prompt with window dimensions '80x5'. The terminal content shows 'Last login: Wed Aug 14 10:09:10 on ttys000' followed by the prompt 'Jorgens-Mac-mini:~ sautinsoft\$' and the command 'brew install mono-libgdiplus' being typed at the end of the line.

```
sautinsoft — -bash — 80x5
Last login: Wed Aug 14 10:09:10 on ttys000
Jorgens-Mac-mini:~ sautinsoft$ brew install mono-libgdiplus
```

Congratulations, you have installed all the dependencies needed to run .NET components.

## 2. Dependencies and samples

Create a simple project by Visual Code or an another Environment for C# or VB.NET. To get started with our product, you need to include the following NuGet packages in your project file (and don't forget to add our library to your project's references):

```
<PackageReference Include="Microsoft.Extensions.Logging" Version="8.0.0" />
<PackageReference Include="Newtonsoft.Json" Version="13.0.3" />
<PackageReference Include="PuppeteerSharp" Version="20.1.3" />
<PackageReference Include="SkiaSharp" Version="2.88.8" />
<PackageReference Include="SkiaSharp.NativeAssets.macOS" Version="2.88.8"/>
<PackageReference Include="System.Text.Json" Version="8.0.5" />
```

Great! Now you can fully harness our product and bring all your ideas to life.

Need inspiration or guidance? Check out a lot of code samples on our website:

[www.sautinsoft.com](http://www.sautinsoft.com) or GitHub (SautinSoft).