



# Create Desktop Apps with Web UIs

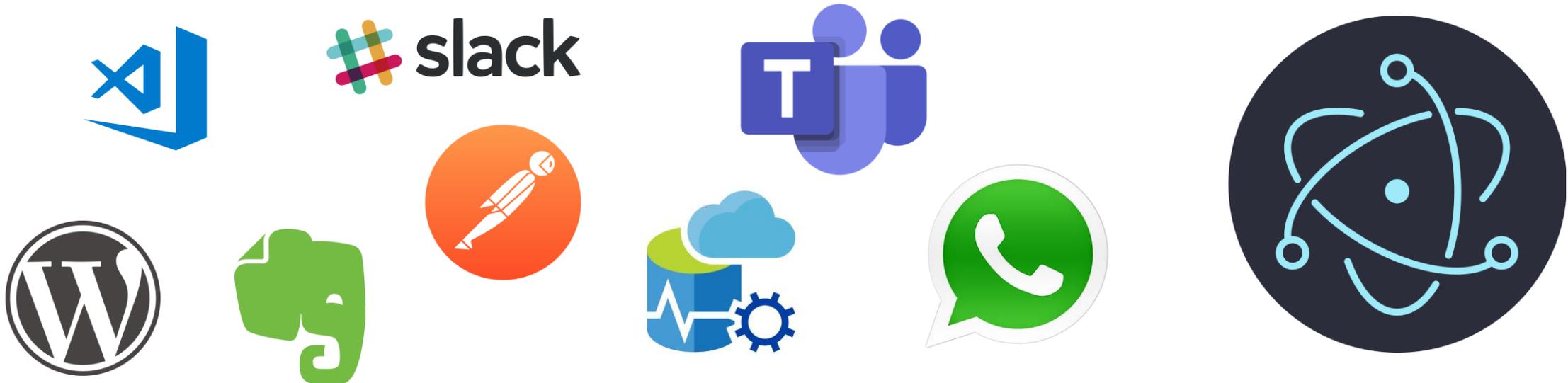
## Introduction to Photino

Photino is an Open Source project that allows developers to put a WEB UI on a desktop app. Learn how to build apps that run on Windows, Linux and Mac using HTML and your favorite JavaScript framework and/or Blazor for the user interface and .NET 5 for the rest.

# What is Photino?



- If you're familiar with Electron or Electron applications (VS Code, Slack, Azure Data Studio, Azure Storage Explorer, Evernote...)... Photino is also an Open Source project to allow developers to use Web UIs (HTML, JavaScript, CSS, etc.) in native applications across platforms instead of learning platform specific UI technologies.



- **Photino.Native** is a C++ (and Objective C) wrapper around the OS's built-in Chromium or WebKit-based browser control that opens a native window on the desktop with the browser control in it.
  - On **Windows** this means the **WebView2** control – a browser control for native applications based on Chromium Edge.
  - On **Mac**, this means **WKWebView** – a WebKit browser control for native applications based on Safari.
  - On **Linux**, this means **WebKitGTK+2** – a browser control for native applications based on WebKit directly.
- **Photino.Native** is compiled for each platform and distributed as a NuGet package.

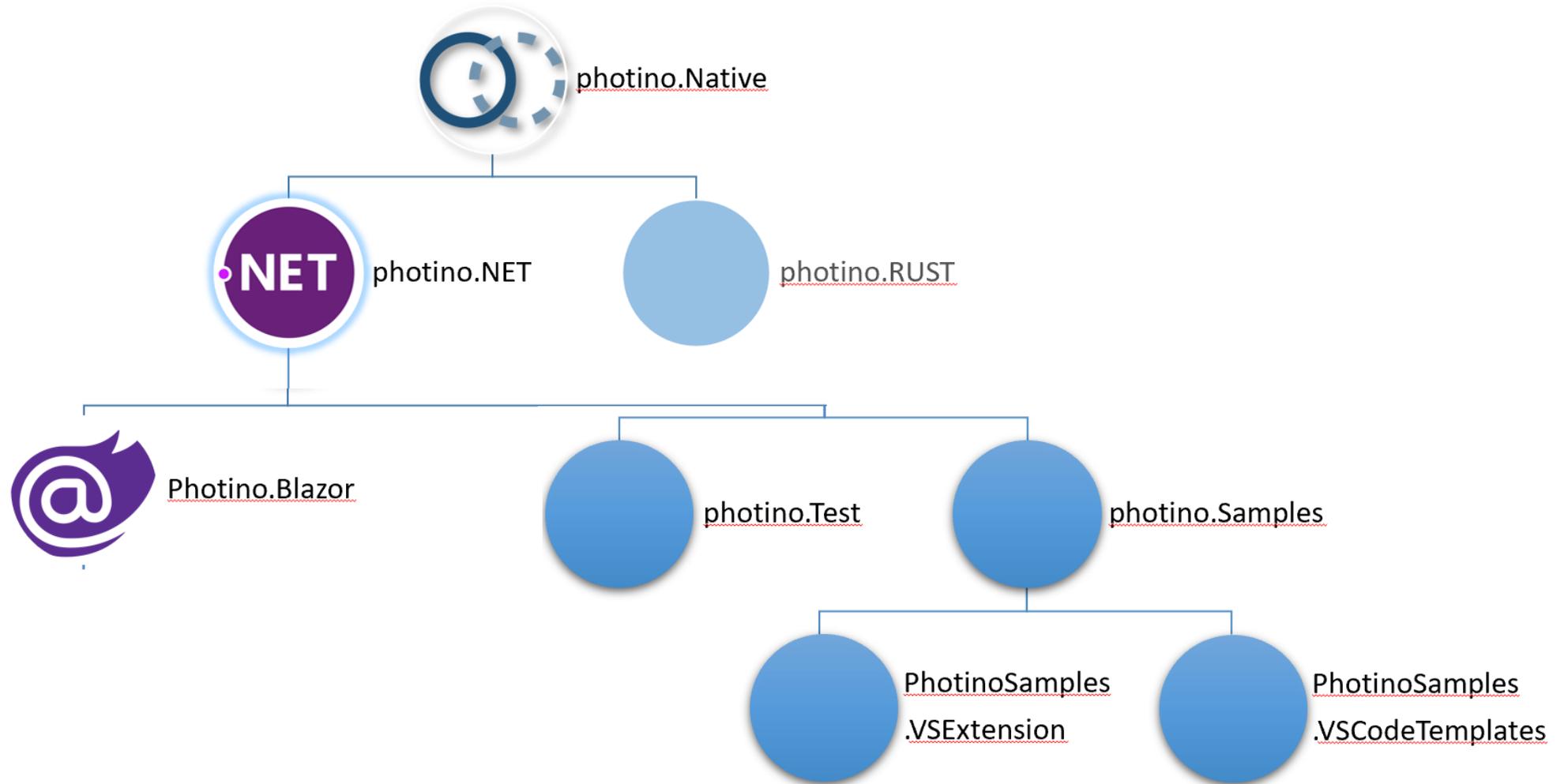
- The Photino.Native wrapper allows us to build desktop applications that are light weight and cross-platform
  - Light weight because the browser control is usually already installed, so we only have to install the wrapper (can be packaged)
  - Cross-platform because applications communicate with the wrapper in exactly the same way on any OS
  - With a cross platform application written in .NET 5, that means 1 code base, 3 Oss... Even for the UI! (.NET 5 can be packaged too!)

Photino.NET wraps the Photino.Native control and makes it available for .NET developers.



<https://www.nuget.org/packages?q=photino>

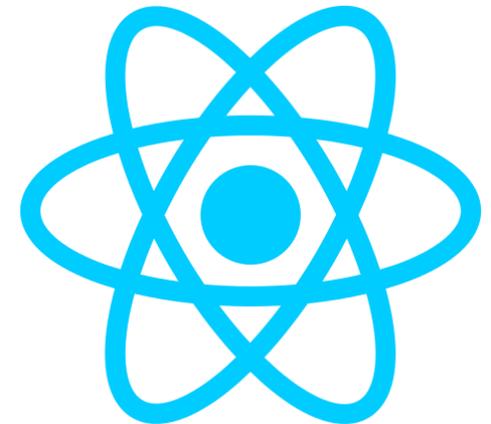
# Photino Hierarchy



# What can I build with Photino.NET?



- HTML, JavaScript, CSS applications
- ReactJS
- AngularJS
- VueJS
- GAMES!
- Etc.

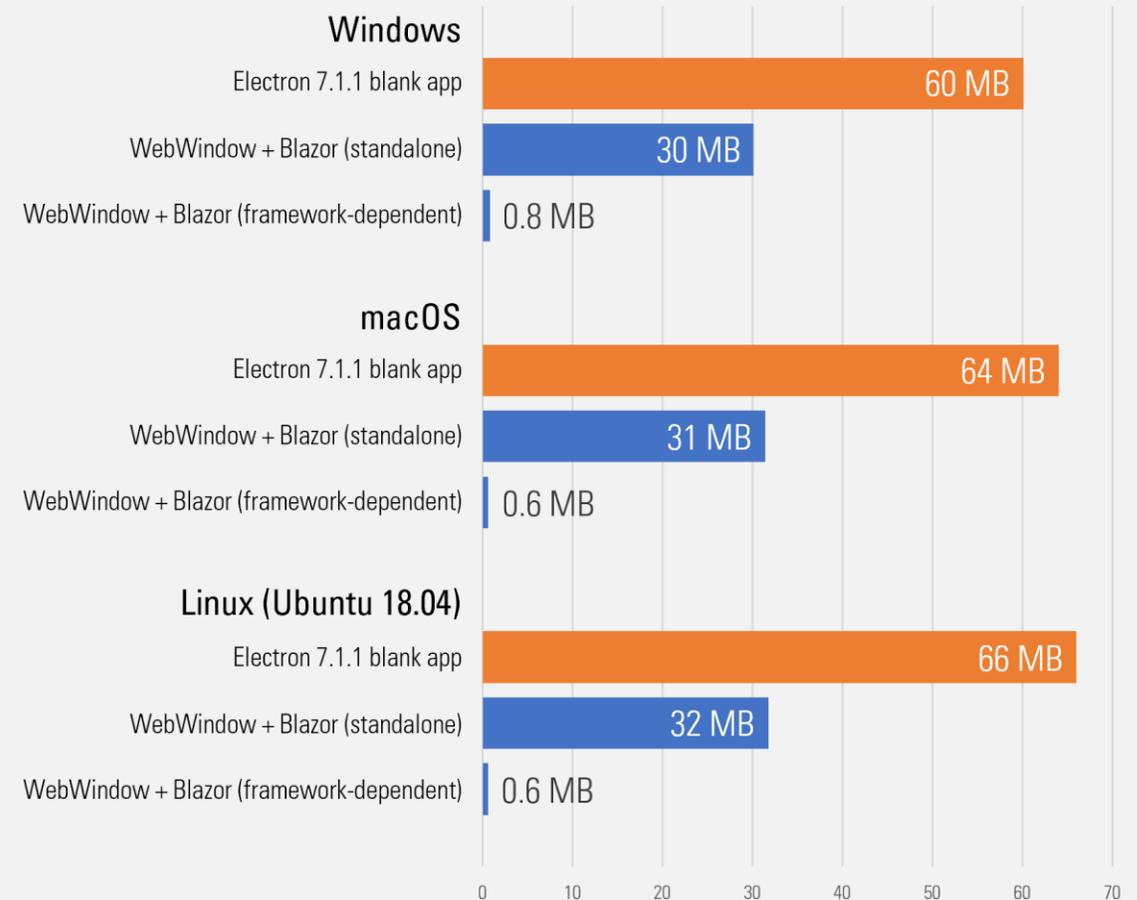


# Photino vs. Electron



- Photino does not require Node.js as the host application
- Photino is smaller and lighter weight because it doesn't require downloading and installing the Chromium engine or Node.js
- If .NET 5 is already installed on the OS, the difference is huge

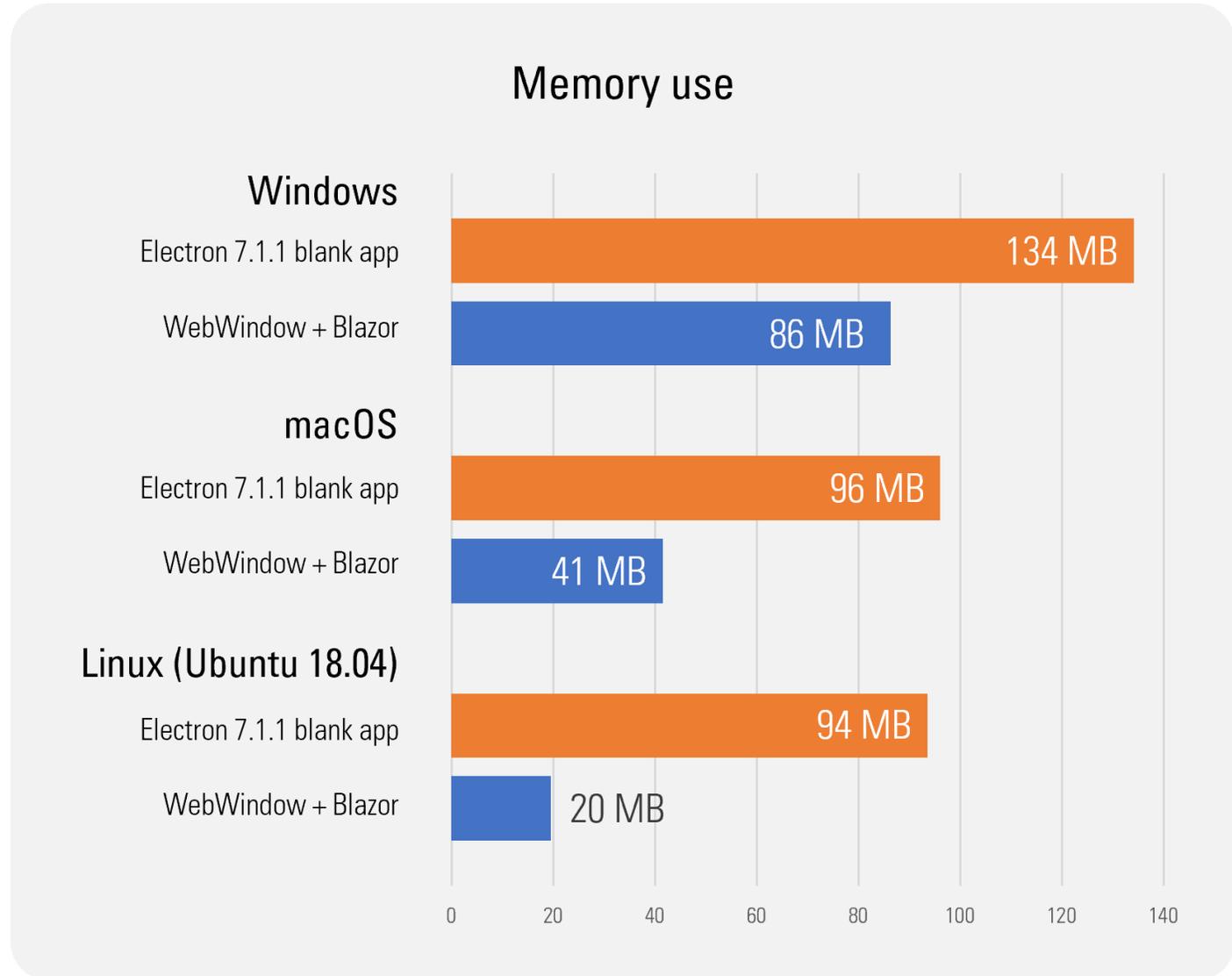
Download size (compressed)



# Photino vs. Electron



- Photino uses far less memory than Electron
- Especially on Mac and Linux where WKWebView and WebKitGTK+2 use far less memory than Chromium



Where can I get more info?



- [tryphotino.io](https://tryphotino.io)
- [github.com/Tryphotino](https://github.com/Tryphotino)
- [docs.tryphotino.io](https://docs.tryphotino.io)

**DEMO**