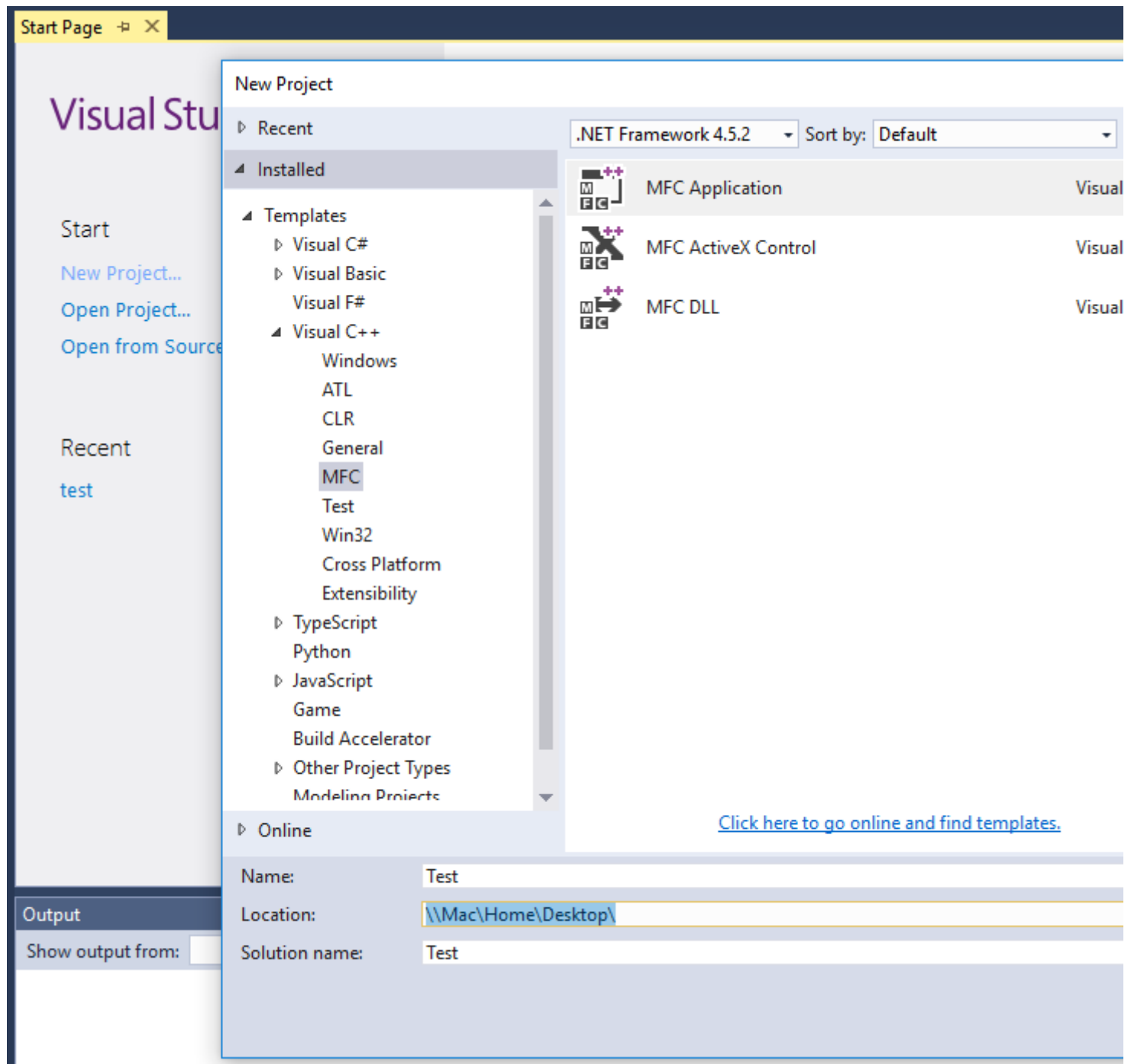


# A GUI Hello World, Reading

The first thing any programmer wants to do in a new programming environment is to write the Hello, World app. Here's how in VS2015.

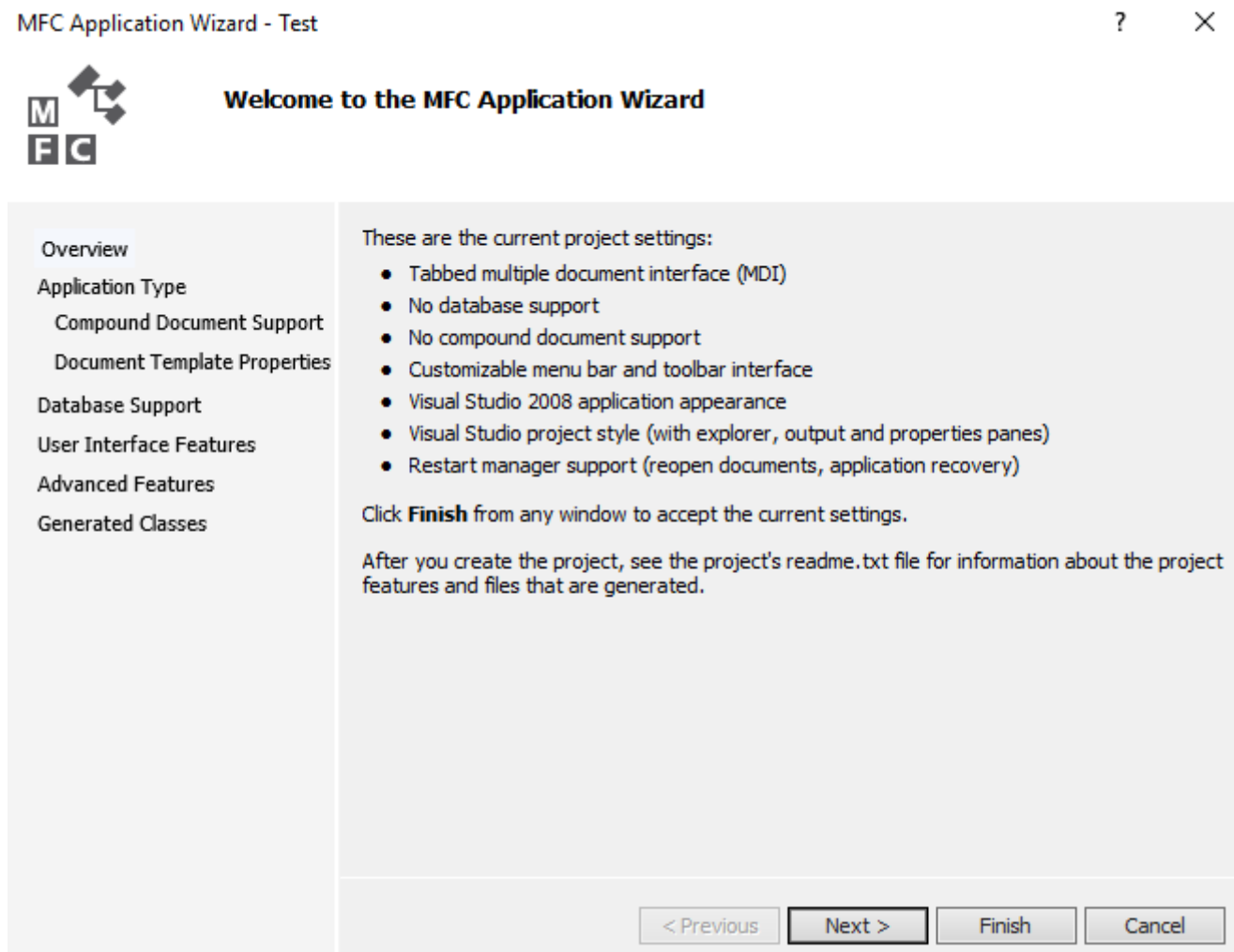
Start VS and choose **New Project...**, **Visual C++**, **MFC**, **MFC Application**, and type a **name** for your app -- something like "Test". A good **location** is your Desktop:



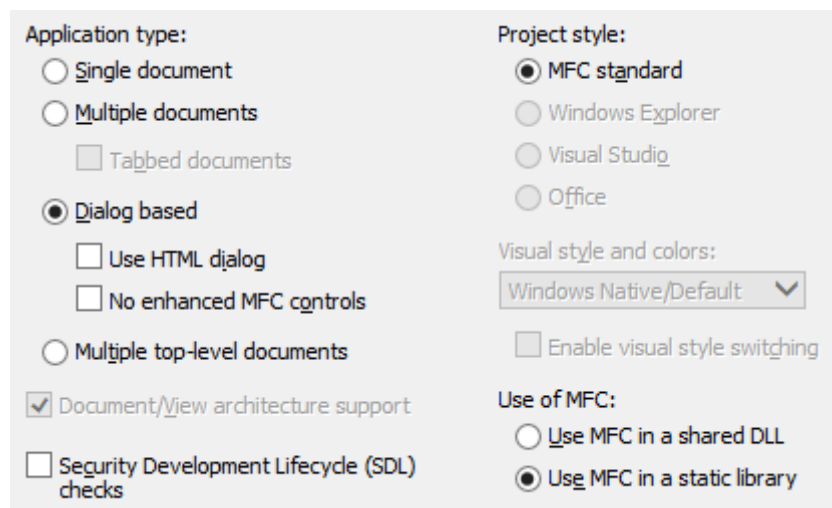
Make sure "**Create directory for solution**" is checked. By "directory" they mean "folder". The folder on the desktop will be named the same as the "Solution Name" which defaults to the application's

Name.

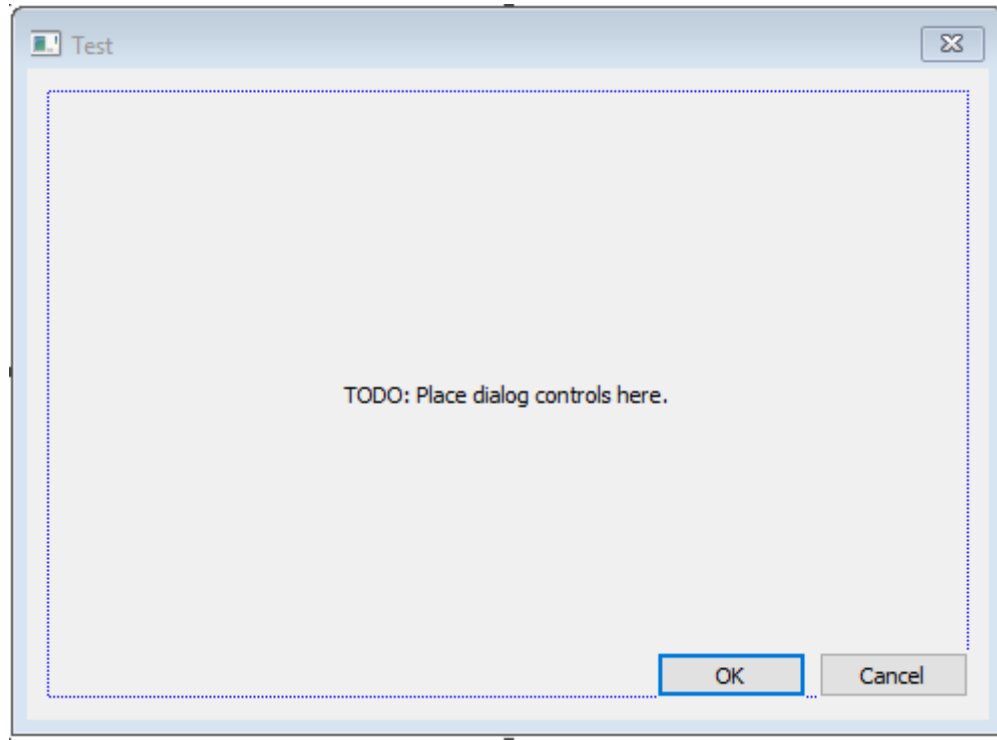
Wait -- we're not done. You have to explain to VS what *kind* of app you want to make. Is it a document viewer like Notepad, or a multi-document editor and viewer like Word? Or is it a display with buttons and menus and checkboxes like Calculator? In the "Wizard", choose **Next >**.



Choose **Dialog Based**, uncheck **Security Development Lifecycle (SDL)**, choose **Use MFC in a static library**, and then **Finish**:



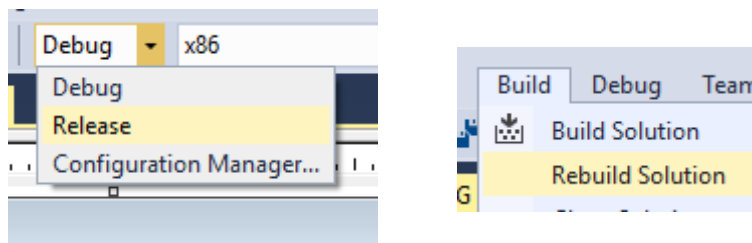
That starts a process of file generation. When it's done you'll have a blank window where you can start building your app by dropping and dragging "controls" (like buttons and menus):



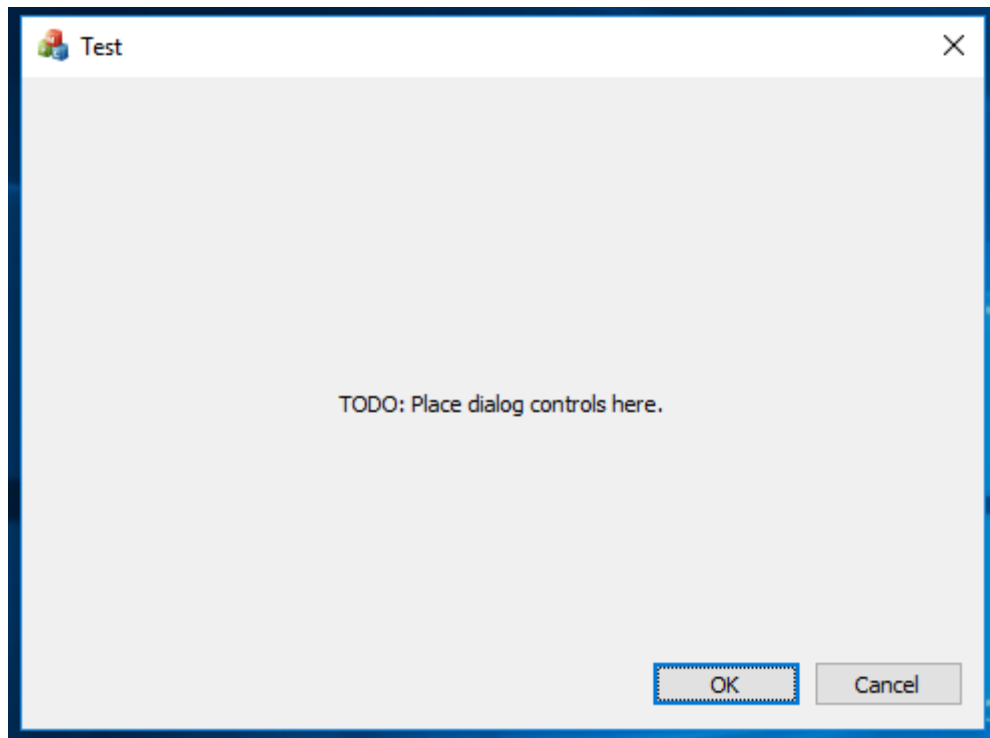
In this course we'll refer to this as the **"visual layout editor"**.

## Hello, World

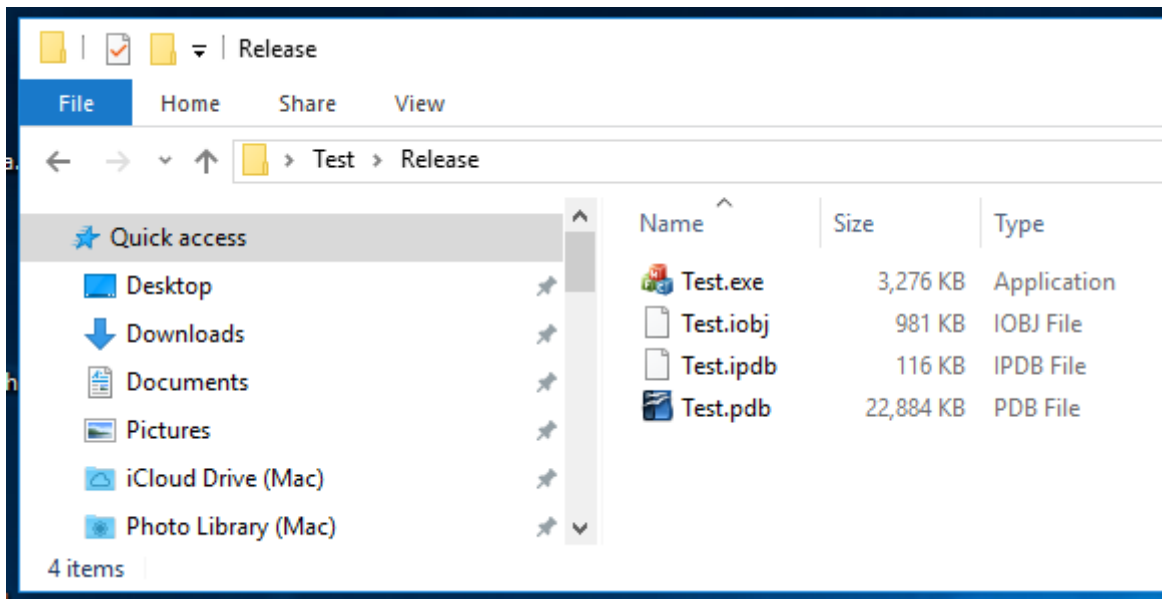
Without doing another thing, you now have your Hello, World! Now to compile and run. Before doing so it is *strongly* recommended that you work in **"Release"** mode instead of the default "Debug" mode. Then choose **"Rebuild Solution"** from the "Build" menu, and *then* after **"Rebuild All: 1 succeeded, 0 failed, 0 skipped"** appears in the Output window, you can run it by pressing the **F5** key.



At that point you may minimize your VS window so you can more clearly see your own app running:



When you're done admiring your work, look in the project's folder on your desktop. Look in its Release folder. There's the EXE for your app -- fully complete and ready to be shared with PC and Mac users!



Now you can close the folder and the app and go back to VS.

## Mac Users?

Did we say Mac users? Yes -- Mac users can run your EXE! But they first have to download and install a free program called [Wine](https://www.winehq.org/) [\(https://www.winehq.org/\)](https://www.winehq.org/). Start Wine and use the Mac Finder or Wine's File Manager to navigate to the EXE file -- double-click to run!