

How to Install TraceLab and Build your first Component in Visual Studios

Prerequisite: Have a Windows Operating System. If your computer is not already in Windows, this can be done a couple of ways.

1. VirtualBox <https://www.virtualbox.org/> (free)
2. Bootcamp <https://support.apple.com/boot-camp> (free)
3. Parallels <https://www.parallels.com/> (\$79.99)

Part 1: Installing TraceLab

Step 1: Go to <https://github.com/CoEST/TraceLab> or Google 'GitHub TraceLab'

Step 2: Scroll down to the files and select "OldTraceLabInstaller" (in yellow)

TraceLab - Software Traceability Instrument to Facilitate and Empower Traceability Research and Technology Transfer

13 commits

6 branches

0 releases

3 contributors

GPL-3.0

Branch: master

New pull request

Find file

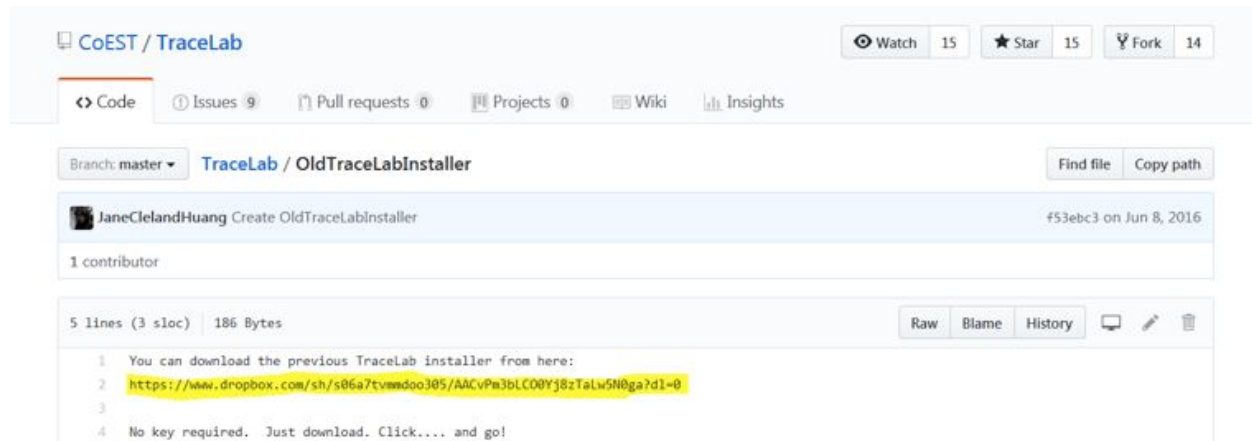
Clone or download

omarzohdi Updated Documentation

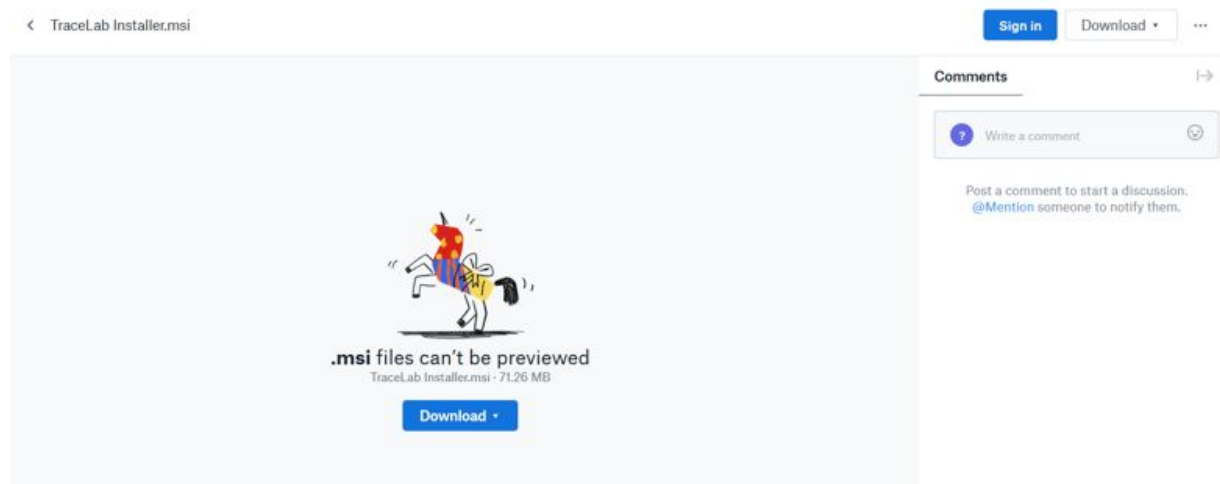
Latest commit a9c74bd on Oct 17, 2016

Main	Updated Documentation	a year ago
LICENSE	Initial commit	4 years ago
OldTraceLabInstaller	Create OldTraceLabInstaller	a year ago
README.md	Update README.md	3 years ago

Step 3: Open up the link located on the second line (in yellow)



Step 4: Click on download in the Dropbox page, and wait for the file to be downloaded



Step 5: After it is done, open up the download wizard and follow the instructions

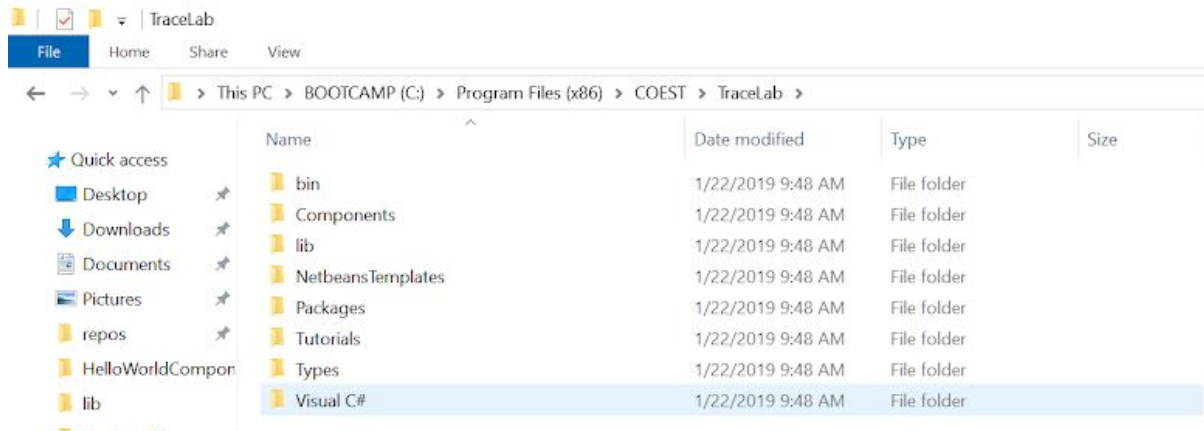
TraceLab is now installed!



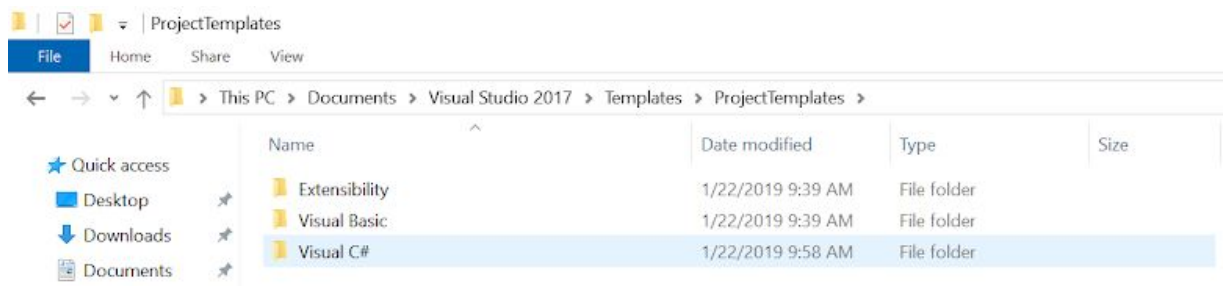
Part 2: Building a Component

Prerequisite: Install Visual Studio IDE <https://visualstudio.microsoft.com/vs/> (Community 2017 is the free tier)

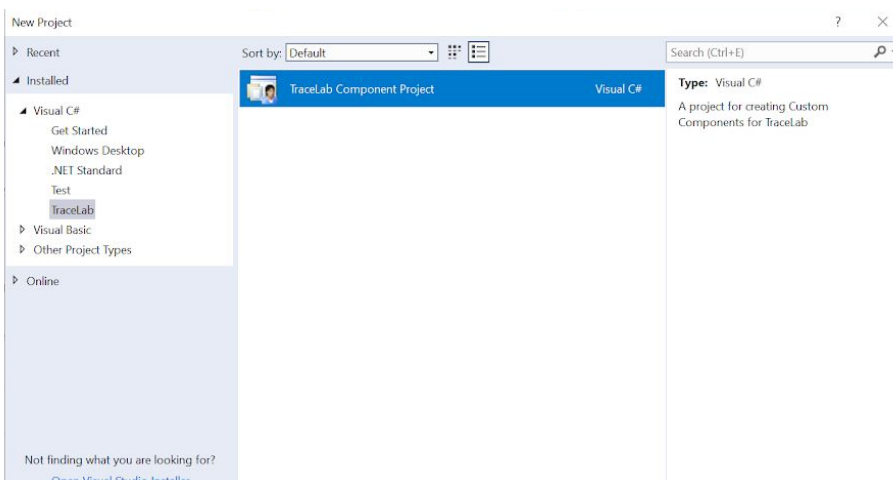
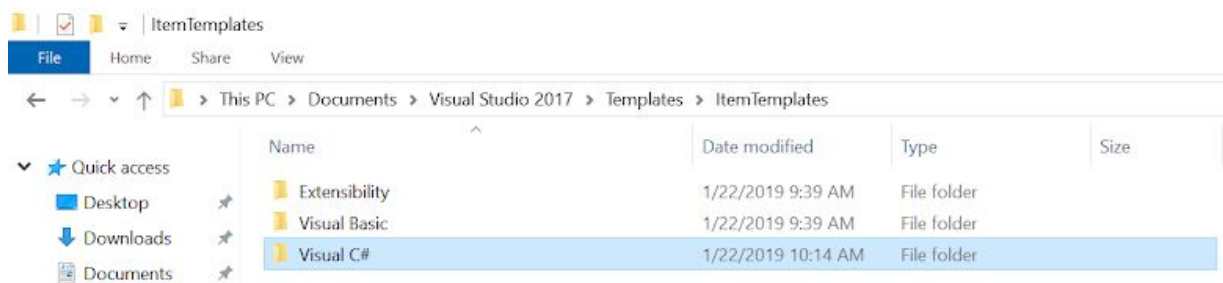
Step 1: Once Visual Studio is installed we need to rearrange some files, the location may vary depending on where it was installed but you'll need to **COPY** the entire folder
.../COEST/TraceLab/Visual C# (highlighted in blue)



Step 2: Now navigate in your files to ...\\Visual Studio 2017\\Templates\\ProjectTemplates and **PASTE** the Visual C# folder here.



Step 3: Now navigate to ...\\Visual Studio 2017\\Templates\\ItemTemplates and **PASTE** the same Visual C# folder here.

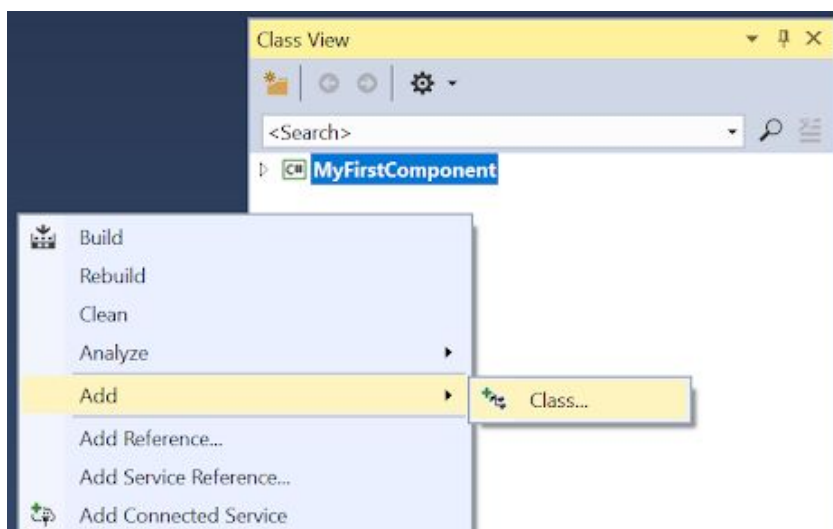
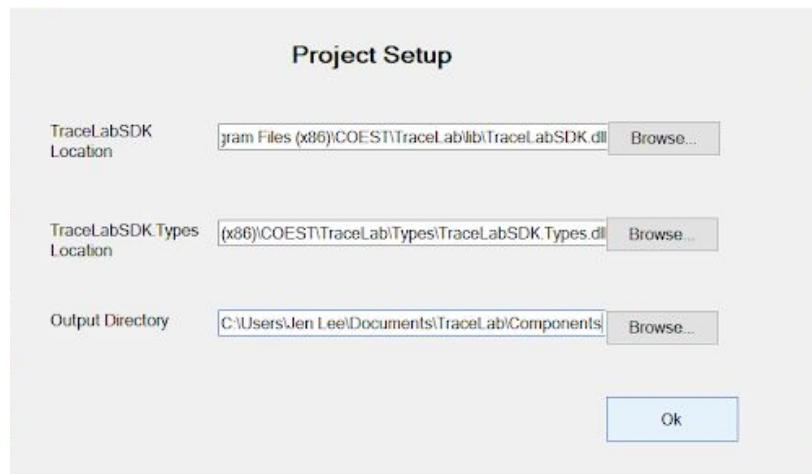


Step 4: Open the Visual Studio IDE, go to **File** -> **New Project**. A screen pops up and

under Visual C# there should now be a TraceLab option under C#. Select **TraceLab Component Project**, name your component, and click **OK**.

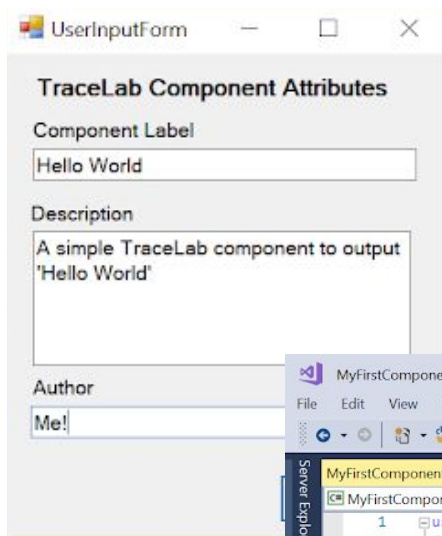
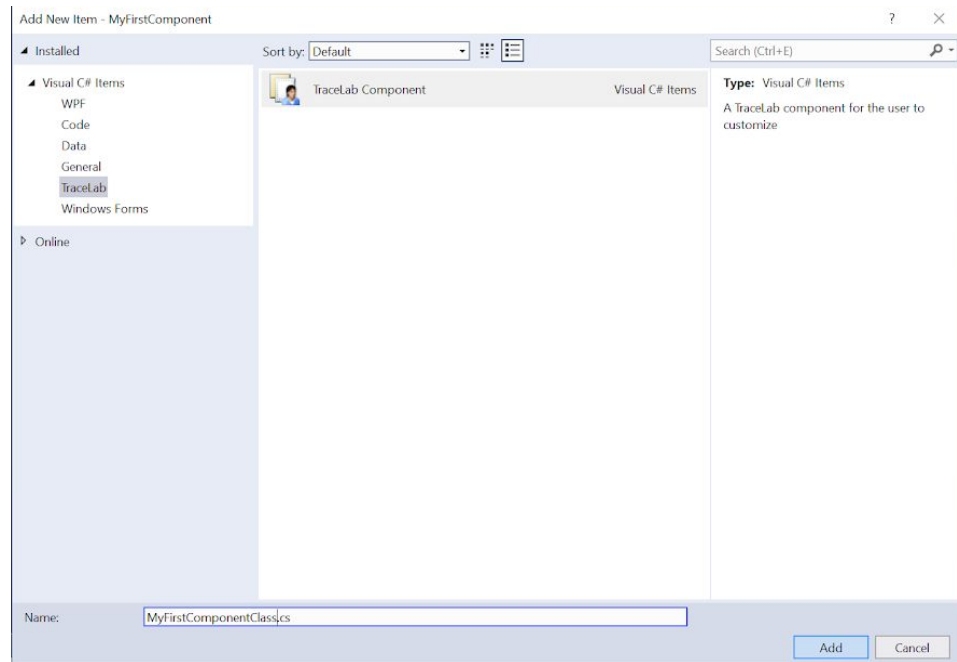
Step 5: The next step will have to be done **every time** you're creating a new component.

- a) Locate your TraceLabSDK location, this should be under
...\\COEST\\TraceLab\\lib\\TraceLabSDK.dll
- b) Locate your TraceLabSDK.Types location, this should be under
...\\COEST\\TraceLab\\Types\\TraceLabSDK.Types.dll
- c) Set your Output Directory to be wherever on your computer
...\\TraceLab\\Components is, this will have to be typed or pasted and will not show up under Browse



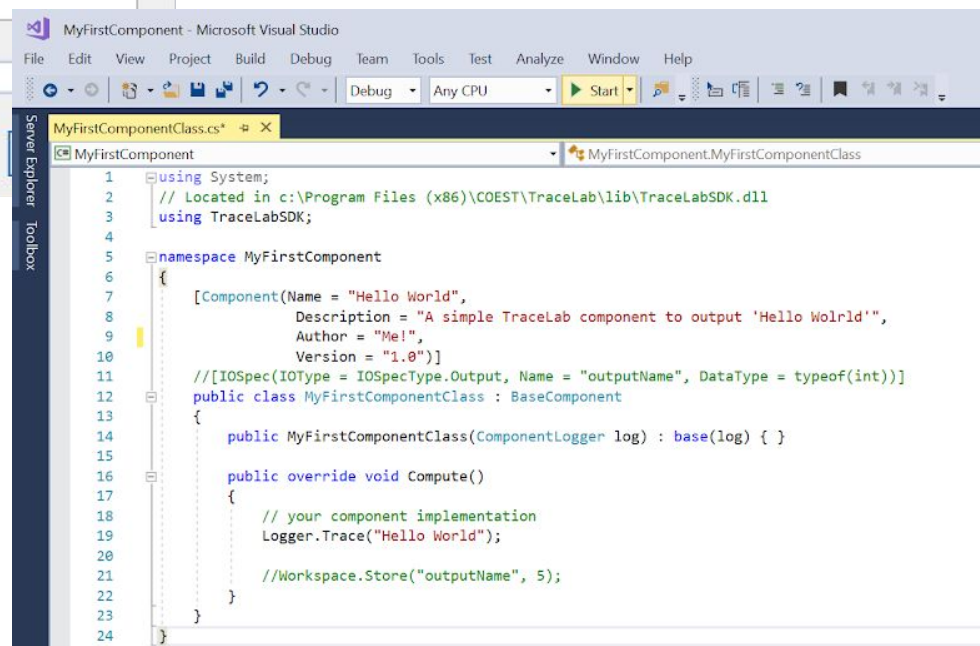
Step 6: A loading screen will appear while your component is being created. Once it is made, go over to Class View, **right click** on **MyFirstComponent**, go down to **Add**, and click **Class**

Step 7: A new window appears, under Visual C# Items, select TraceLab, click TraceLab Component, name your Class, then click Add.



Step 8: A UserImportForm appears, giving you the option to fill out the following information, click Ok.

Step 9: Congrats!
Your first TraceLab

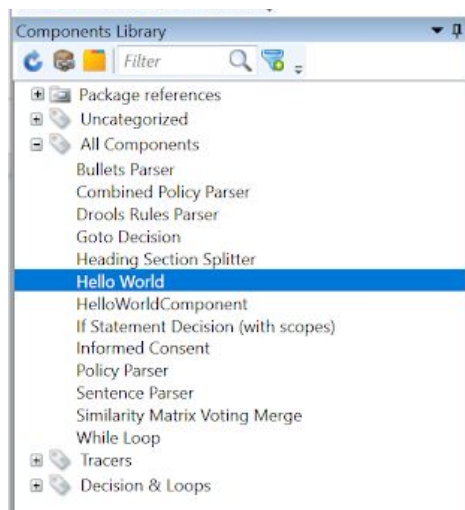
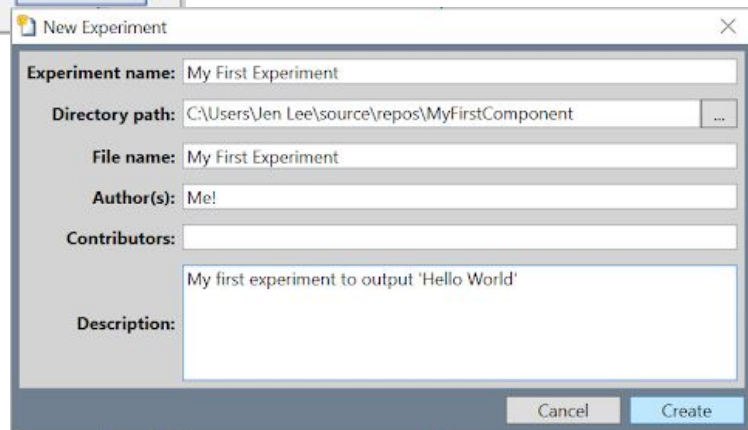


Component is created! Just a few more steps. Click the **green** start arrow in the menu bar.



Step 10: You'll receive this warning, but don't worry about it. This just means that the component cannot run in Visual Studio, but it should now be created in TraceLab

Step 11: Open TraceLab and create a New Experiment (in the top left corner). Fill out the form to create a New Experiment and click Create



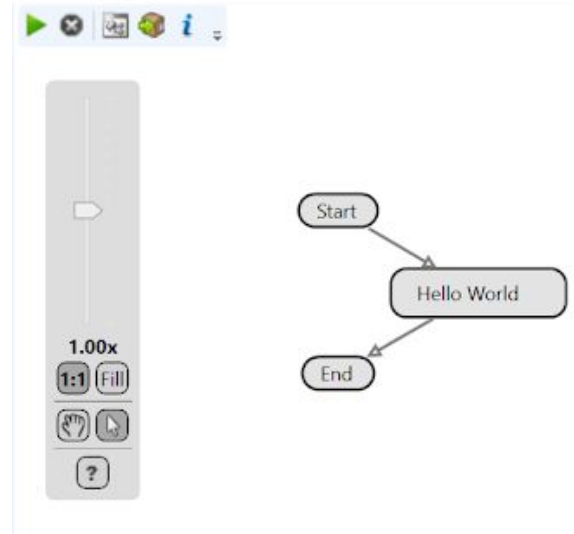
Step 12: Our new component should appear in the Components Library. It will have the same name as the Component Label you chose in Step 8. If not, take the following steps:

- Click the blue refresh arrow
- If it still isn't there, your component was not saved to correct Output Directory in Step 5. Search in your files for `MyFirstComponent.dll` and move it into `...\TraceLab\Components`

c) Click the blue refresh arrow again

Step 13: Drag your new component into the experiment window on the right. Drag the arrow from Start to your component and the arrow from your component to End before clicking the green Run arrow.

Congrats! You should now see a new message saying 'Hello World' in the Output window and have successfully created your first experiment!



Severity	Source	Message
Info	TraceLab.TraceLabApplication	Reading components from: C:\Program Files (x86)\COEST\TraceLab\Components\
Info	TraceLab.TraceLabApplication	Reading components from: C:\Users\Jen Lee\Documents\TraceLab\Components\
Trace	Hello World	Hello World