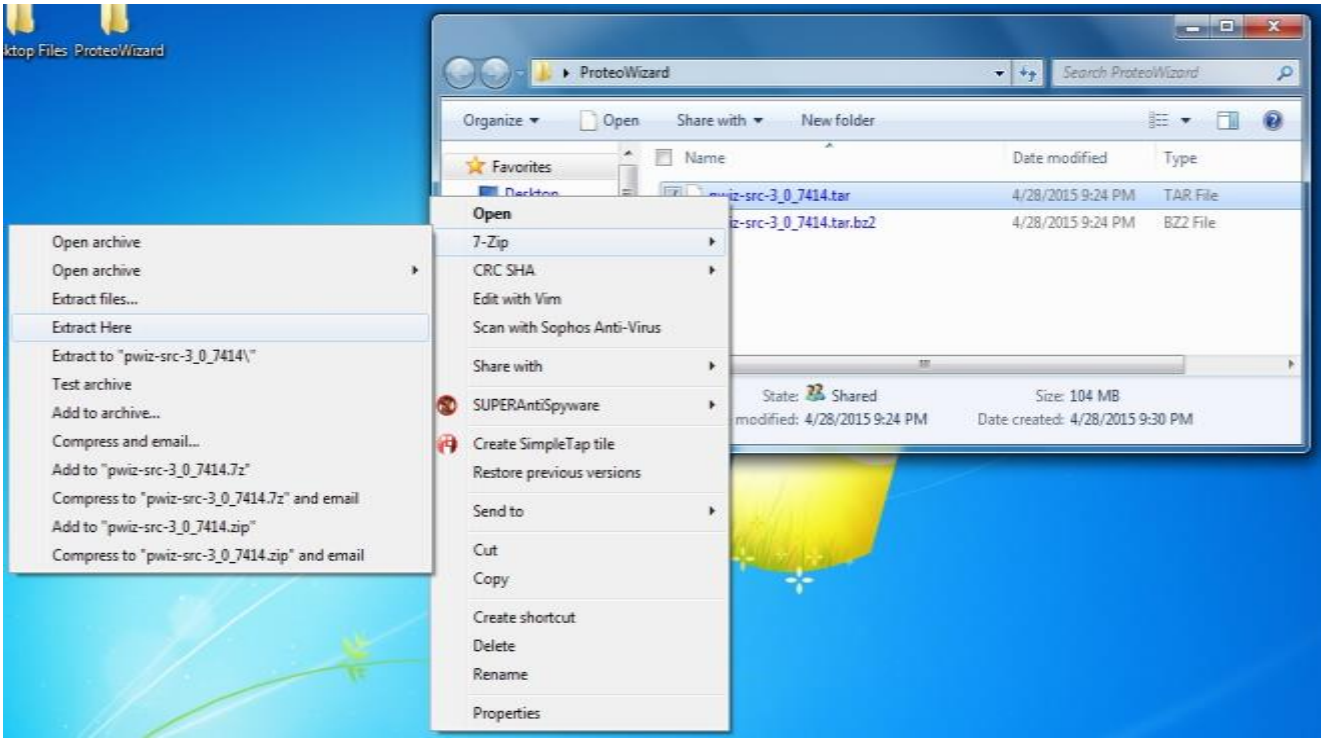
ProteoWizard

Code Download/Checkout and

Quickbuild.bat run (MS Windows)

- Before looking for a build containing the most recent c++ code, please make sure your computer system as the appropriate software to run build files or do development
- Make sure you have installed Microsoft Visual Studio 2013 (MSVS2013)
    - Use the Microsoft site, or your place of study or work, to acquire a copy
- Make sure you have installed Microsoft .NET Framework **3.5** SP1 and **4.0**
    - Both version are required for vendor DLL support
    - MS .NET Framework 3.5 SP1 can be found at: http://www.microsoft.com/en-us/download/details.aspx?id=22
    - MS .NET Framework 4 can be found at: http://www.microsoft.com/en-us/download/details.aspx?id=17851
- ProteoWizard Checkout (user level: novice)
    - Go to http://proteowizard.sourceforge.net/downloads.shtml to download the existing build under the heading For Developers: (**Source, bjam build** (includes vendor reader support)).
    - **Recommended**: you can get the build from http://sourceforge.net/p/proteowizard/code/HEAD/tree/trunk/pwiz/ where you can use an SVN Client like **TortoiseSVN**, to do an SVN Checkout or Update. Go to http://tortoisesvn.net/downloads.html . Download the version that matches your system such as 32-bit or 64-bit)
        - If checking out via SVN (**TortoiseSVN**), you can create a SourceForge account at: http://sourceforge.net/. It's not required, but you will need an account if you want to do development where you plan on checking code back in.
        - You can subscribe to proteowizard-developer@lists.sourceforge to get added to the ProteoWizard Developer list to stay informed on development updates or questions.
        - To check on possible existing issues or questions, you can also subscribe to the Support list at proteowizard-support@lists.sourceforge
        - Continuing the steps to check out code…
        - Create a 'proteowizard' somewhere (i.e. C:\project\)
        - Right on the 'proteowizard' folder and click **SVN Checkout** form the menu
        - Enter https://svn.code.sf.net/p/proteowizard/code/trunk/pwiz under **URL Repository**, and click ok.
        - This should take a few minutes, depending on system and internet connection to pull all the code. It is recommended to do this at least 1 time daily, where developing new code or looking at existing code.

- You will see a BZ2 file name in the folder you chose to save to with a name similar to "**pwiz-src-…_..._.....tar.bz2**"
- To extract the files for use from the download, you will need to download and install a file extraction/compression application. Go to http://www.7-zip.org/ and download 7-Zip. (you can use other tools you are comfortable with for this also)
- Once 7-Tip is installed, go to the folder with the **BZ2** file and right-click on the BZ2 file. (Windows will show it under file Type.)
- Select "Extract **Here**" and click Ok and it will create a **TAR** file similar to "**pwiz-src-…_..._.....tar"**
- Right click on the new TAR file and again select "Extract **Here"** and click Ok.



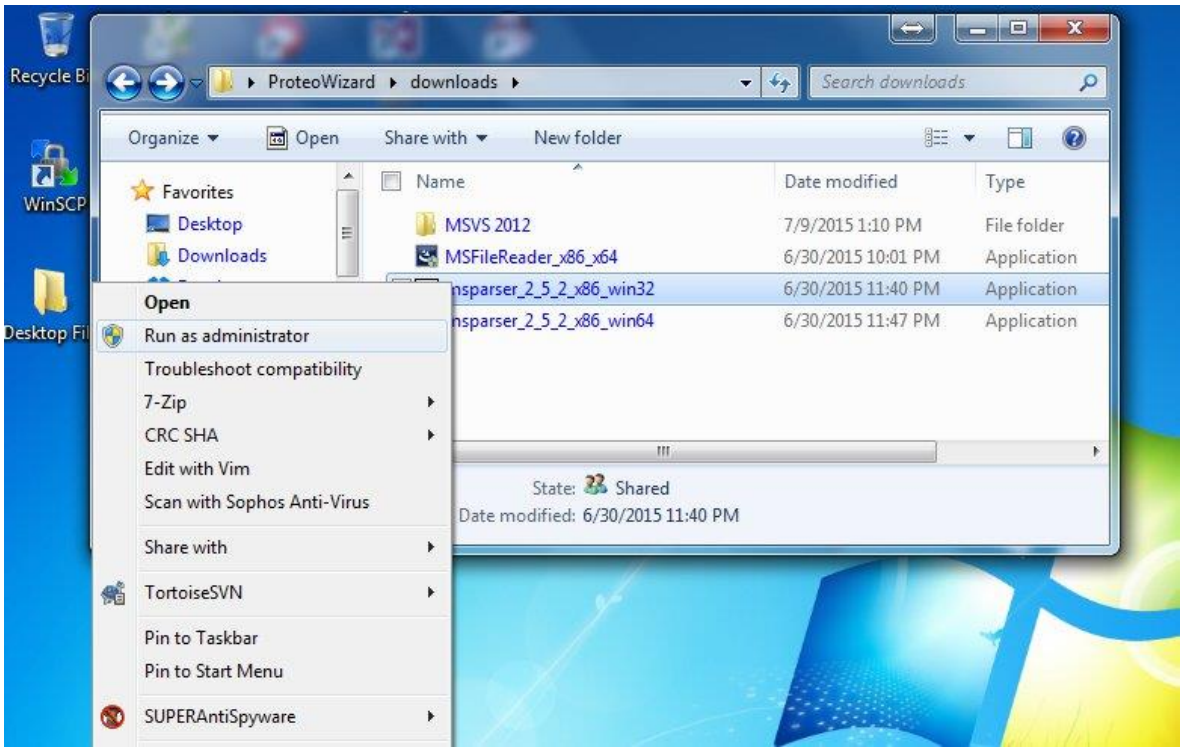
- Verify that you have the "**quickbuild.bat**" Windows batch file in the folder created so you can run it and build Proteowizard following the steps mentioned farther below.

- Download **MSFileReader**
  - You will need to accept license agreements and register with Thermo. Go to https://thermo.flexnetoperations.com/control/thmo/RegisterMemberToAccount
  - You will be downloading MSFileReader 3.0
  - Register on the Thermo website

- Then look under **Utility Software** for software named **MSFileReader 3.0 SP2** (or a newer version if it exists)
- Download to your laptop and unzip using instructions above for unpacking tar and BZ2 files.
- Right click on the installer file and select to "Run as Administrator" (this should avoid any install issue)
- Accept Default settings for the installation
    - **NOTE:** Make sure to install both 32-bit and 64-bit if and when possible

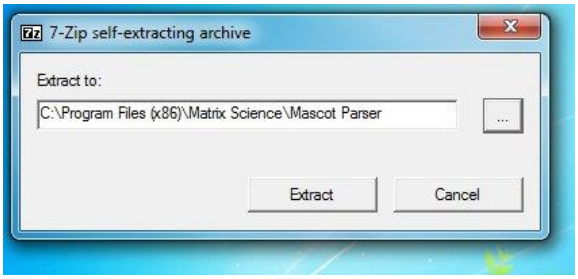
- Download **Mascot Parser**
    - You will need go to the Mascot website to register with Matrix Science. Go to
    - http://www.matrixscience.com/msparser_download.html
    - After you register, they will send you an email. Select the link to download v2.5.*(or the most recent) for Windows (32-bit and 64-bit versions)

    - Go to each installer file downloaded and right click and select **Run as administrator.**

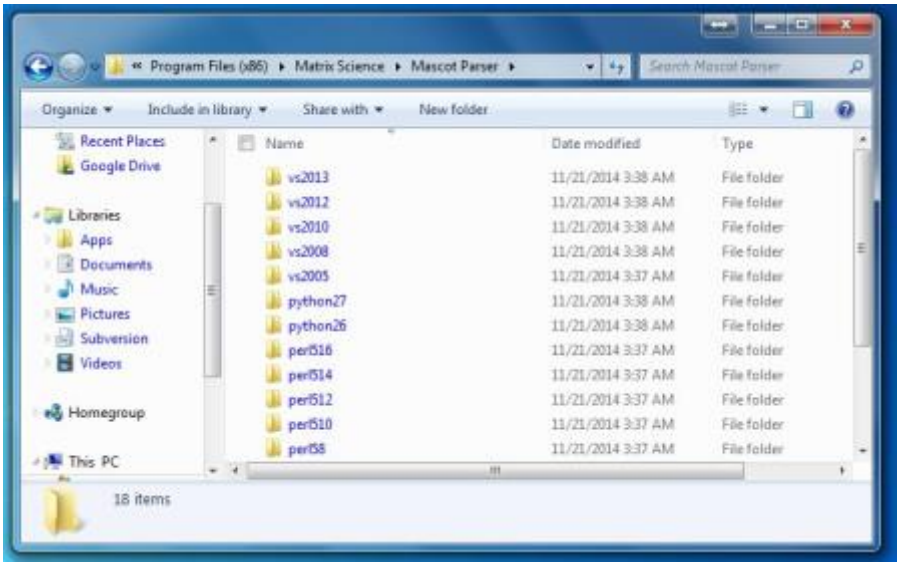


    - Go to each installer file downloaded and right click and select **Run as administrator.**
    - A window will pop up to select where to extract the files to:

- Extract the 32-bit file to C:**Program Files(x86)\Matrix Science\Mascot Parser**
- Extract the 62-bit file to C:**Program Files\Matrix Science\Mascot Parser**



(Below: sample results of 32-bit file extraction)



- **Building from Windows Command line**
  - Open a windows DOS prompt by going to the Start Menu of your Windows machine (alternative terminals encouraged as well; i.e. Console2 lets you navigate through the entire output when not creating your own output log file)
  - In text search box, type "cmd" to open terminal
  - In the terminal use the "cd" command to change directory to where you have the "**quickbuild.bat**" file.
  - Once in that directory, type '**quickbuild.bat'** or '**quickbuild.bat - -i-agree-to-the-vendor-licenses' (to include the Vendor tools you installed in the steps above)** and the build script will execute
    - **NOTE: TIPS for first time users**
      - you may want to run **clean.bat** first before running **quickbuild.bat**

- If you need to create a **quickbuild** log to assist you in debugging, please direct the output of your build into a log file by doing the following:

  quickbuild.bat (any flags) > quickbuildLog.txt

  After about a few minutes to a few hours (depending on how much of pwiz you want to build), the Windows DOS prompt will move to the next line meaning the build has completed and the quickbuildLogFile.txt is ready for viewing.

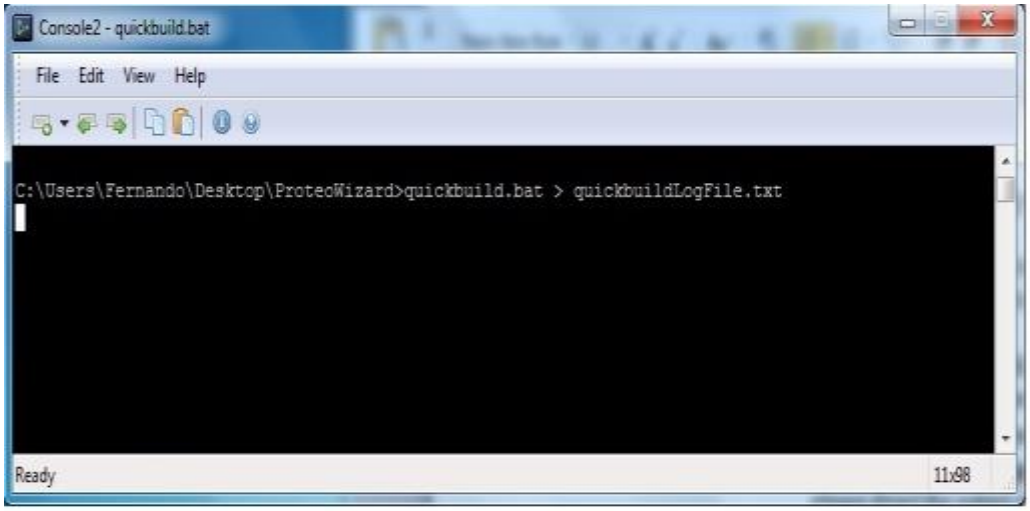
  (**sample flags**: toolset=.., address-model=.., --i-agree-to-the-vendor-licenses…)

  NOTE: Some of the additional flags that may be used are:

  address-model:

  toolset:

(Below: when build run is complete, cursor will move to next line)



- Feel free to email Juan Fernando – arguello at stanford.edu