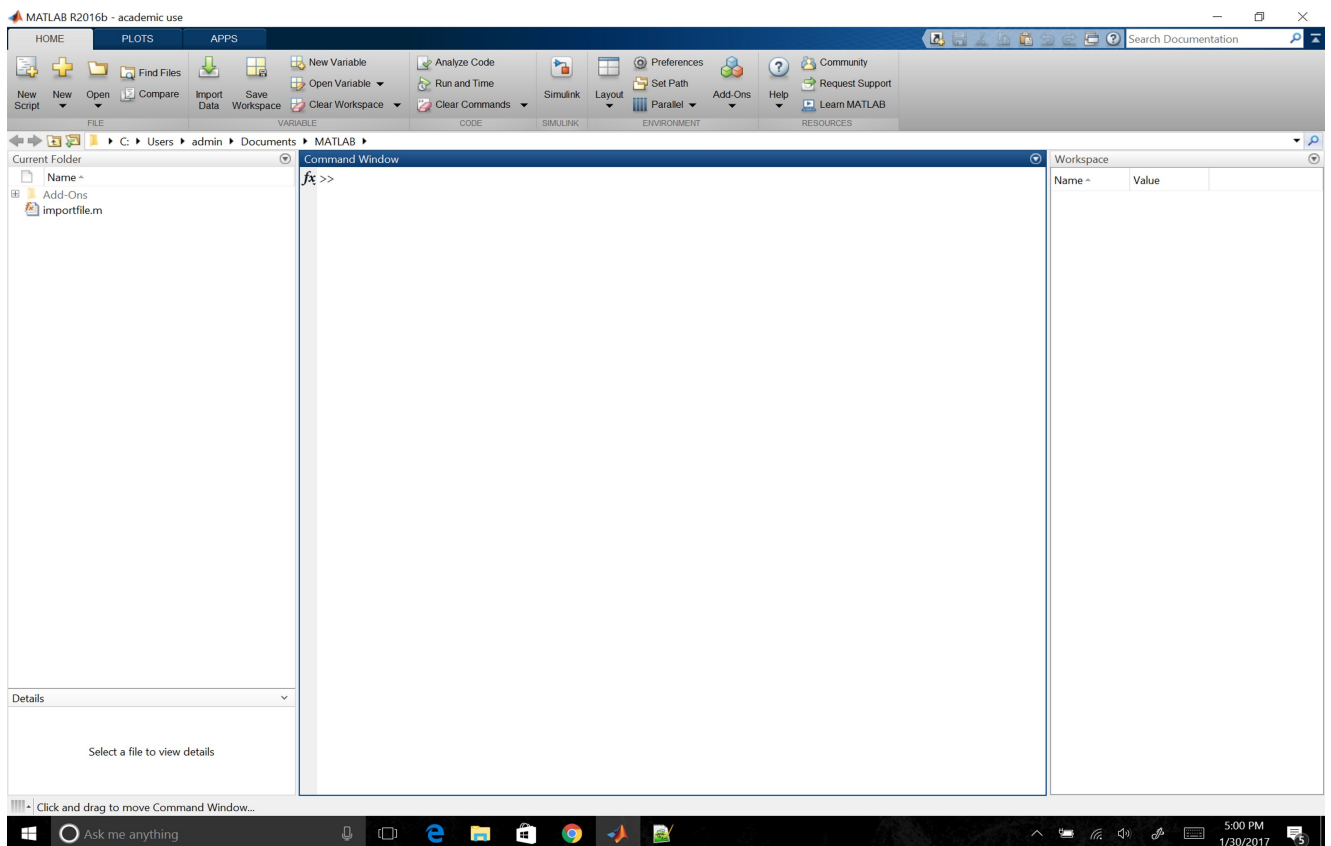


Accessing LabChart data in MatLab

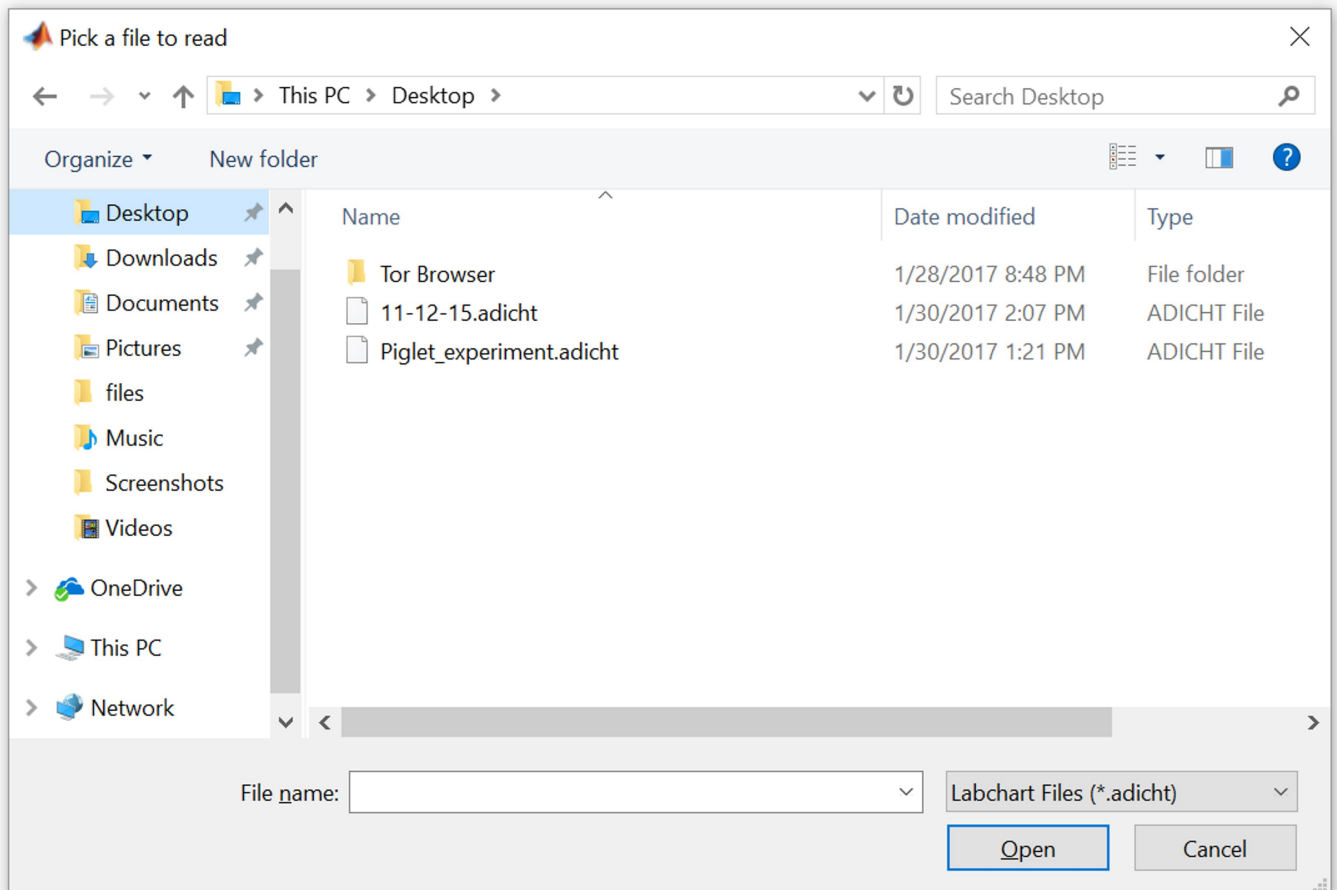
1. Open MatLab



2. Use one of the functions from the LabChart SDK.
The SDK gives you two options: `adi.readFile` or `adi.convert`.
I will use `adi.readFile` in this example.
In the command window, I enter '`f = adi.readFile;`'



3. This will open a window for you to select which file you would like to read



4. After opening a file, you can use the command 'disp(f);' to display the properties of the file.

```
Command Window
>> f = adi.readFile;
>> disp(f);
file with properties:

    file_path: 'C:\Users\admin\Desktop\11-12-15.adicht'
      n_records: 1
   n_channels: 4
      records: [1x1 adi.record]
 channel_specs: [1x4 adi.channel]
channel_names: {'Channel 1' 'Channel 2' 'Channel 3' 'Channel 4'}
```

5. With this information, you can choose which channel you would like to access. You can select a channel by using the command 'pres_channel = f.getChannelByName;'. You can then use 'disp(pres_channel);' to view the properties of that channel.

```
>> pres_chan = f.getChannelByName('Channel 1');
>> disp(pres_chan);
channel with properties:

        id: 1
       name: 'Channel 1'
      units: {'mmHg'}
  n_samples: 19656650
         dt: 1.0000e-03
         fs: 1000
  data_starts: 7.3628e+05
 record_starts: 7.3628e+05
downsample_amount: 1
```

fx >>

6. To display the data saved in a channel, you can use 'raw_pres_data = pres_channel.getData(1);' Finally, to display the data you can use 'disp(raw_pres_data(1));'.

```
>> raw_pres_data = pres_chan.getData(1);
>> for i = 1:10
    disp(raw_pres_data(i));
end;
    0
    0.0280
    0.1959
    0.6297
    1.4414
    2.6448
    4.2401
    6.1293
    8.1723
   10.1595
```

fx >>