03-pathnames-windows

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1 Pathname manipulation

- This notebook was authored on Windows
- os.path module has useful functions
- doc

```
In [1]: import tempfile as tf
        import os
```

```
In [23]: # module with helpful pathname functions

         import os

         # string that separates components of a pathname
         # different on mac/linux

         # since '\' is an escape char in a Python string,
         # need '\\' to represent a single '\', which
         # makes windows paths a little clunky

         os.sep
```

```
Out[23]: '\\'
```

```
In [25]: # Most pathname functions will NOT expand '~'
         # use os.path.expanduser

         import os

         ep = os.path.expanduser('~/foo/bar/zap.txt')
         ep
```

```
Out[25]: 'C:\\Users\\lss2168/foo/bar/zap.txt'
```

```
In [26]: # will make path consistent

         os.path.normpath(ep)
```

```
Out[26]: 'C:\\Users\\lss2168\\foo\\bar\\zap.txt'

In [27]: # will make a temp file in a system appropriate place

         tmp = tf.NamedTemporaryFile().name
         tmp

Out[27]: 'C:\\Users\\lss2168\\AppData\\Local\\Temp\\2\\tmplofwt2sp'

In [29]: os.path.split(tmp)

Out[29]: ('C:\\Users\\lss2168\\AppData\\Local\\Temp\\2', 'tmplofwt2sp')

In [30]: os.path.isdir('c:/Users/lss2168')

Out[30]: True

In [31]: os.path.normpath('c:/Users/lss2168')

Out[31]: 'c:\\Users\\lss2168'

In [37]: # can use forward '/' paths...

         with open('/Users/lss2168/foo', 'w') as fd:
             fd.write('asdf\n')

In [38]: # or windows '\' paths...

         with open('\\Users\\lss2168\\foo', 'r') as fd:
             print(fd.read())

asdf


In [39]: # add 'c:'

         with open('c:/Users/lss2168/foo', 'r') as fd:
             print(fd.read())

asdf
```