

## Problem Solving: handling long paths on pyinstaller .exe



Problem: executables, made by pyinstaller can only handle paths up to max 260 characters, also described on <https://stackoverflow.com/questions/59742078/enabling-windows-long-file-path-support-in-pyinstaller-application>

Solving attempts:

- On Machine: disable max path length in registry
  - <https://www.howtogeek.com/266621/how-to-make-windows-10-accept-file-paths-over-260-characters/> 05.05.2020 15:12

```
Regedit: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\FileSystem
```

- LongPathsEnabled REG\_DWORD 1
- On Creating exe:
  - create exe using pyinstaller
    - <https://pyinstaller.readthedocs.io/en/stable/usage.html> 05.05.2020 15:14
    - <https://www.youtube.com/watch?v=UZX5kH72Yx4> 05.05.2020 15:15
  - adding "manifest" file to folder of the exe  
[https://en.wikipedia.org/wiki/Manifest\\_file](https://en.wikipedia.org/wiki/Manifest_file)

Name	Datum	Typ	Größe
 Test.exe	05.05.2020 13:57	Anwendung	8.485 KB
 Test.exe.manifest	05.05.2020 14:55	MANIFEST-Datei	1 KB

- Manifest contains metadata of .exe , in this case contains following text :

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<assembly manifestVersion="1.0" xmlns="urn:schemas-microsoft-com:asm.v1">
  <application xmlns="urn:schemas-microsoft-com:asm.v3">
    <windowsSettings>
      <longPathAware
xmlns="http://schemas.microsoft.com/SMI/2016/WindowsSettings">true</longPath
Aware>
    </windowsSettings>
  </application>
</assembly>
```
- on this point, it would already work, next steps are optional
- combining exe and manifest together to one file (.exe)
  - <https://docs.microsoft.com/en-us/windows/win32/sbscs/mt-exe>
  - <https://docs.microsoft.com/de-de/cpp/build/how-to-embed-a-manifest-inside-a-c-cpp-application?view=vs-2019>

