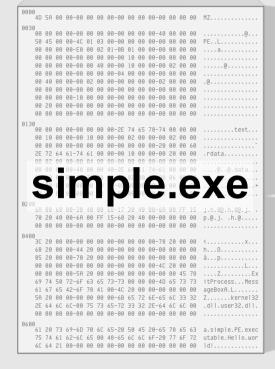
version 1, 3rd May 2012

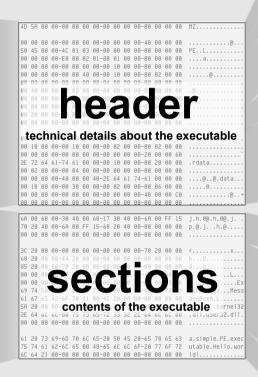


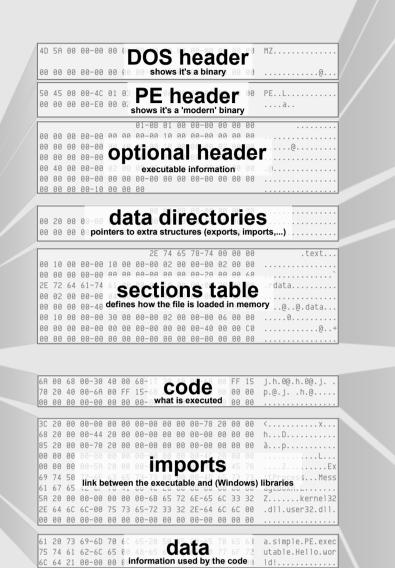
PE101 a windows executable walkthrough

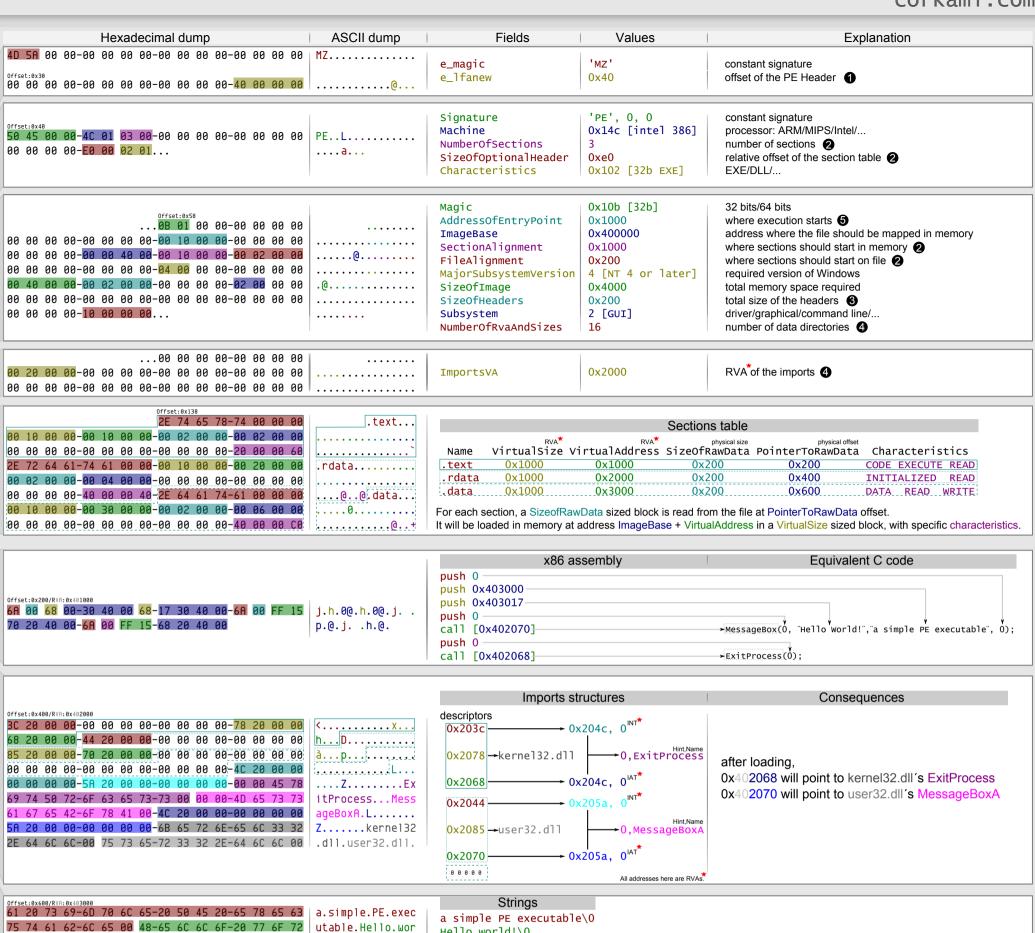
Dissected PE











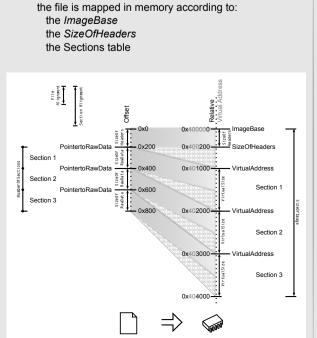


1 Headers

the PE Header is parsed (its offset is DOS Header's e Ifanew) (it follows the PE Header)

2 Sections table

it contains NumberOfSections elements it is checked for validity with alignments: FileAlignments and SectionAlignments



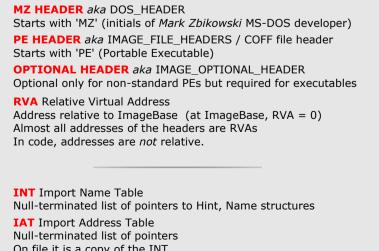
Mapping

4 Imports DataDirectories are parsed they follow the OptionalHeader their number is NumOfRVAAndSizes imports are always #2 Imports are parsed each descriptor specifies a DLLname this DLL is loaded in memory IAT and INT are parsed simultaneously for each API in INT its address is written in the IAT entry library.dll Hint,"API name" 🔷 🗦 -⊹API_Address:

6C 64 21 00

5 Execution Code is called at the EntryPoint the calls of the code go via the IAT to the APIs a simple PE executa... Hello world! OK

This is the whole file, however, most PE files contain more elements. Explanations are simplified, for conciseness



On file it is a copy of the INT After loading it points to the imported APIs Index in the exports table of a DLL to be imported Not required but provides a speed-up by reducing look-up

Notes