Lecture #19. 게임 패키징

2D 게임 프로그래밍

이대현 교수



학습 내용

■ PyInstaller 를 이용한 실행 파일 building

■ Installer의 제작

mygame.py가 실행되기 위해 필요로 하는 것들… (1)

- 여러분이 작성한 OOO.py

■ 리소스: image, json, font 파일 등등

mygame.py가 실행되기 위해 필요로 하는 것들…(2)

- Pico2d 데이터 파일
- SDL 라이브러리 DLL

libFLAC-8	dll
	dll
libjpeg-9	dll
	dll
	dll
⊗ libogg-0	dll
	dll
	dll
	dll
	dll
⊚ libwebp-4	dll
⊗ SDL2	dll
SDL2_image	dll
SDL2_mixer	dll
SDL2_ttf	dll
⊗ smpeg2	dll
⊗ zlib1	dll

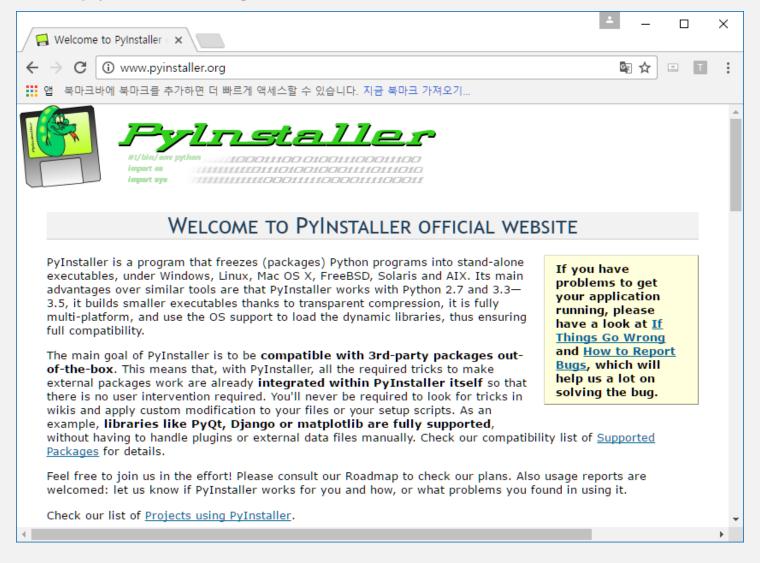
pico2d update(콘솔창에서)

pip uninstall pico2d pip install pico2d

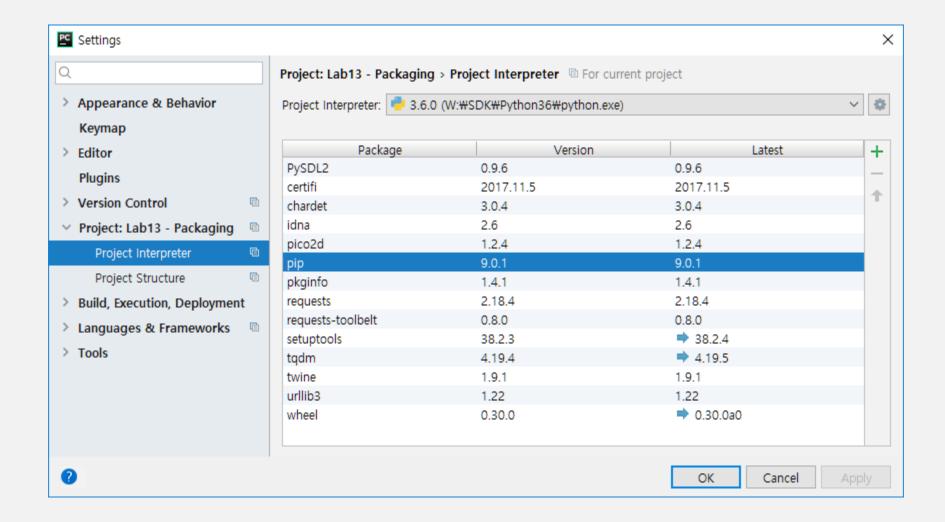


PyInstaller

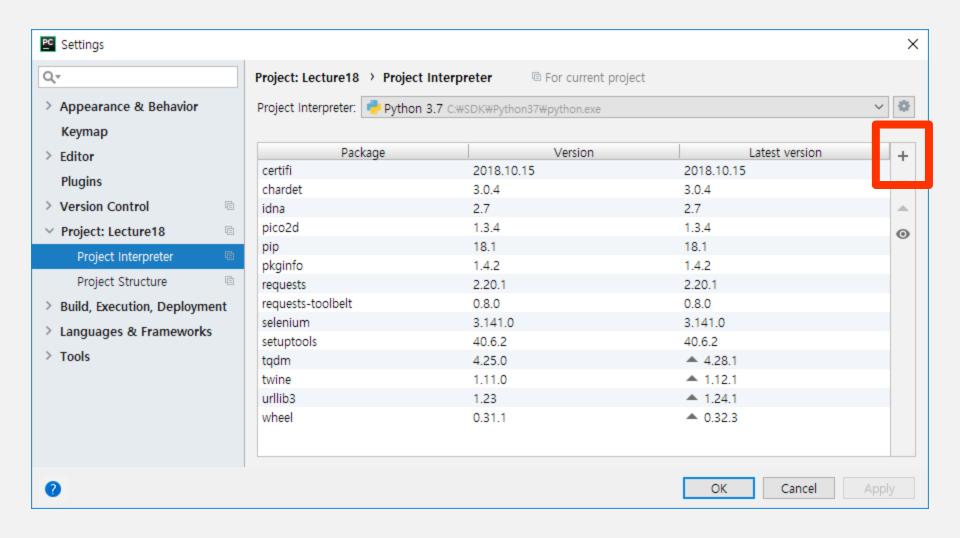
http://www.pyinstaller.org/



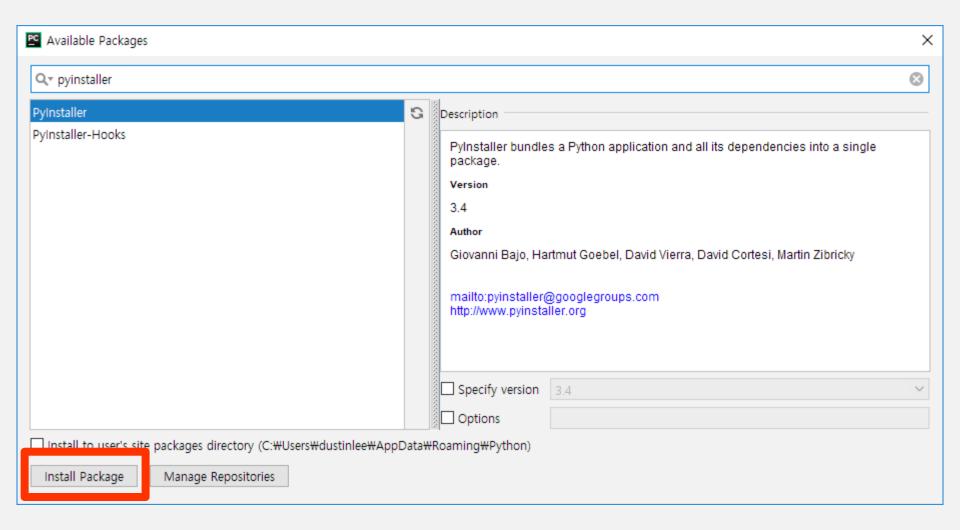
PyCharm: pip 설치 확인



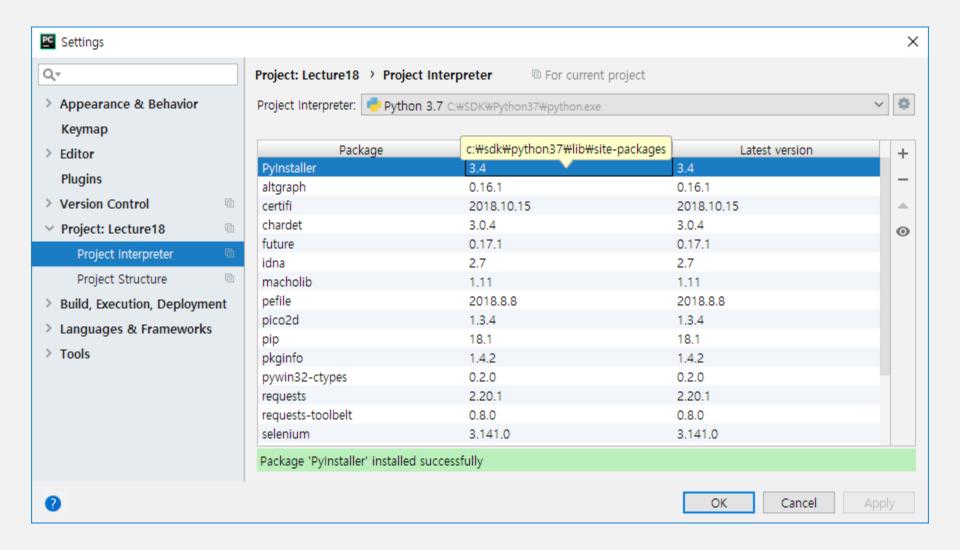
PyCharm: pip 설치 및 version upgrade



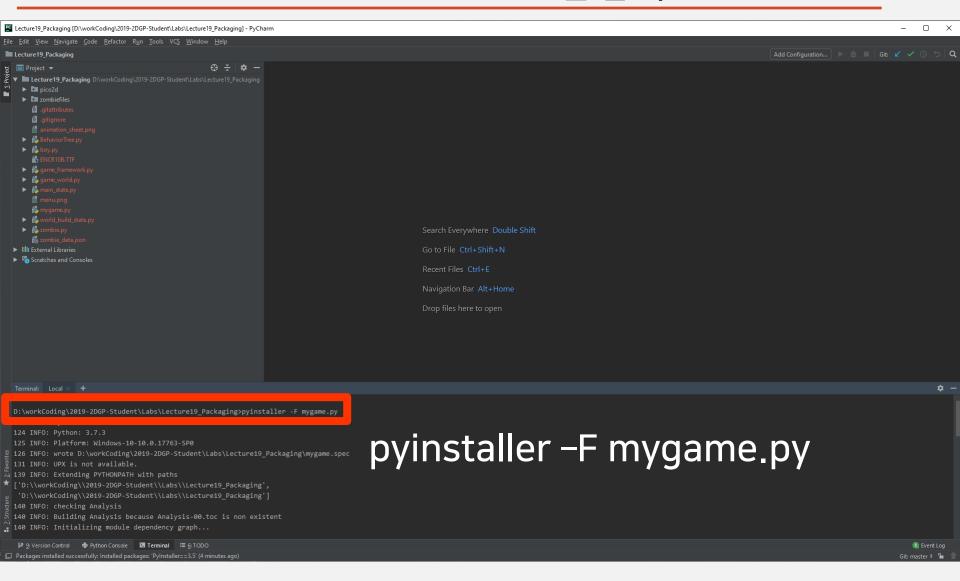
PyCharm: PyInstaller 설치



PyCharm: PyInstaller 설치 확인



View \rightarrow Tool Windows \rightarrow Terminal 을 열고,



```
Terminal: Local × +

7842 INFO: Building PYZ (ZlibArchive) D:\workCoding\2019-2DGP-Student\Labs\Lecture19_Packaging\build\mygame\PYZ-00.pyz completed successfully.

7855 INFO: checking PKG

7856 INFO: Building PKG because PKG-00.toc is non existent

7856 INFO: Building PKG (CArchive) PKG-00.pkg

10303 INFO: Building PKG (CArchive) PKG-00.pkg completed successfully.

10309 INFO: Bootloader c:\python37\lib\site-packages\PyInstaller\bootloader\Windows-64bit\run.exe

10310 INFO: checking EXE

10310 INFO: Building EXE because EXE-00.toc is non existent

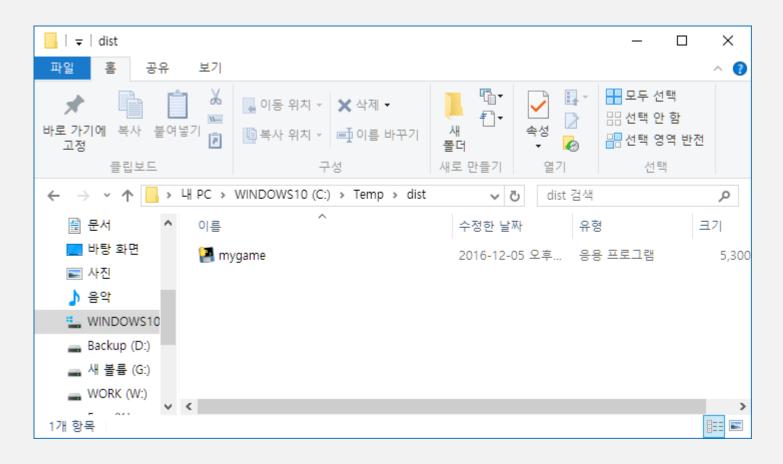
10311 INFO: Building EXE from EXE-00.toc

10312 INFO: Appending archive to EXE D:\workCoding\2019-2DGP-Student\Labs\Lecture19_Packaging\dist\mygame.exe

10399 INFO: Building EXE from EXE-00.toc completed successfully.

D:\workCoding\2019-2DGP-Student\Labs\Lecture19 Packaging>
```

dist 폴더에 만들어진, mygame.exe



여기서 그냥 단독 실행하면, 제대로 실행이 되지 않음. Mygame.exe가 필요로 하는 외부 파일을 찾을 수 없기 때문.

리소스 및 필요 DLL 을 dist 폴더로 복사해야 함.

- Pico2d 라이브러리 파일
 - □/pico2d 폴더에 담겨 있음.

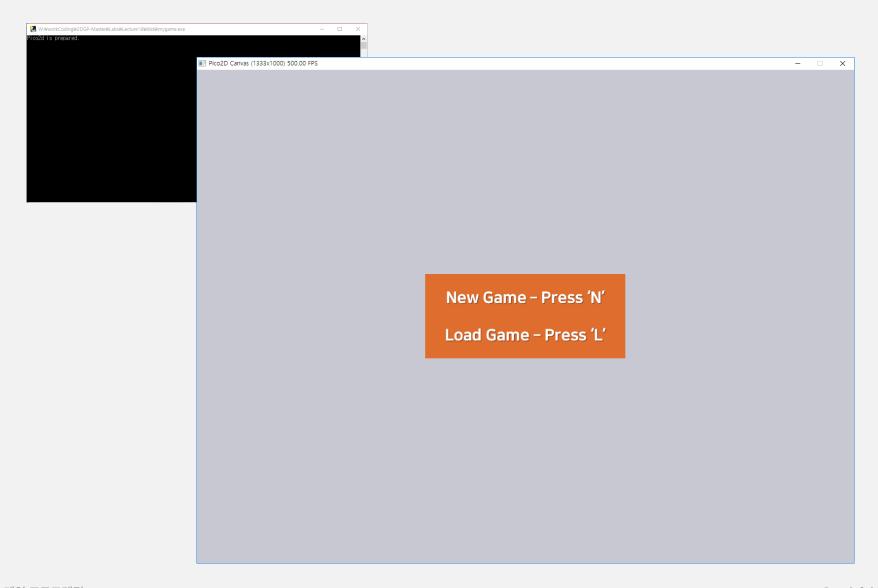
■게임에 따라 필요한 리소스 파일

- □ 현재 실습 파일의 경우,
 - 폰트 ENCR10B.TTF
 - 메뉴 이미지 menu.png
 - 애니메이션 스프라이트 이미지 animation_sheet.png
 - 좀비 데이터 JSON 파일 zombie_data.json

dist 폴더: 여기서 mygame.exe 을 클릭하면 실행!

Work (W:) > workCoding > 2DGP-Master > Labs > Lecture18 > dist >							
	기름	수정한 날짜	유형	크기			
*	pico2d	2018-11-27 오전	파일 폴더				
+	zombiefiles	2018-11-27 오전	파일 폴더				
	animation_sheet.png	2018-10-23 오전	알씨 PNG 파일	64KB			
A	ENCR10B.TTF	2018-09-15 오후	트루타입 글꼴 파일	43KB			
.	menu.png	2018-11-25 오후	알씨 PNG 파일	11KB			
9	Mygame.exe	2018-11-27 오전	응용 프로그램	5,815KB			
ī	🕽 zombie_data.json	2018-11-26 오전	JSON File	1KB			

실행 결과



콘솔창을 없애려면?

Pyinstaller -F --windowed mygame.py

파이썬 코드 최적화

python -O -m PyInstaller -F mygame.py



Inno Setup 의 설치



visitors since Jan. 1998

- . 6.0: Support for 64-bit mode on Windows 10 on ARM.
- . 6.0: Task dialog support for the [Code] section.

OS requirements change: Windows 2000, XP, and Server 2003 are no longer supported. Windows Vista is the minimum supported operating system.

Change in default behavior: Starting with Inno Setup 6 there's only one version available: Unicode Inno Setup. Unicode Inno Setup has been available for 9 years but in case you have not yet updated to it: please see the Unicode Inno Setup topic in the help file for more information. Basically, unless you're using [Code] to make DLL calls with string parameters you shouldn't have to make any changes to your script.

What's new in this version?

Random	Download Sites	DLS	Date	Description
innosetup-6.0.3.exe <u>US</u> Netherlan	Random site US Netherlands	154,057	2019-10-11	Unicode Inno Setup self-installing package .

tools, and translations of Setup into other languages.

QuickStart Pack

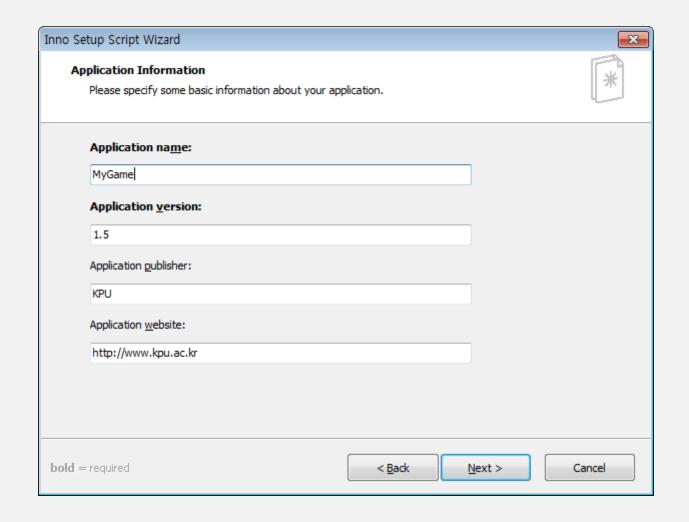
The Inno Setup QuickStart Pack includes Inno Setup itself and additionally includes an option to install the Inno Script Studio script editor. This script editor is not official and is not required for general usage, but makes Inno Setup easier to use. See the Third-Party Files page for more information.

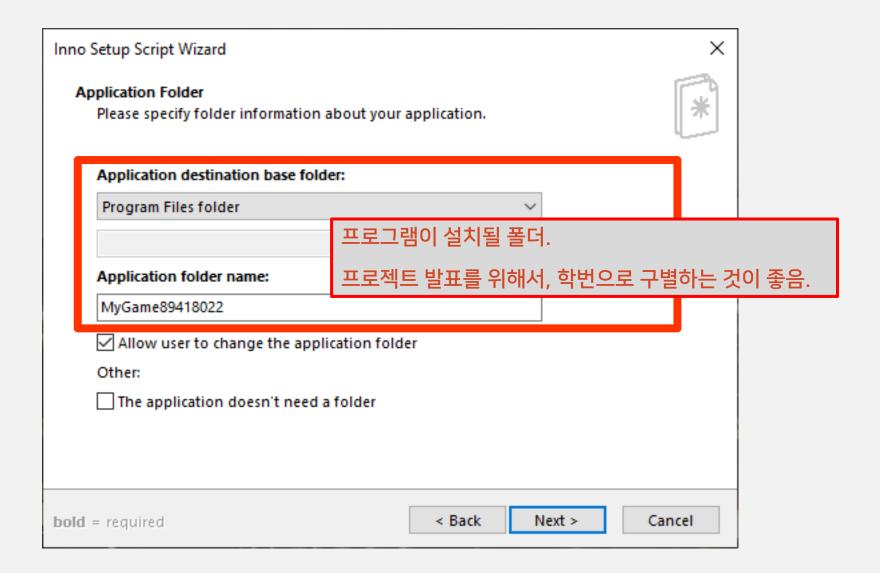
The Inno Setup QuickStart Pack also includes an option to download and install official encryption support.

Filename	Download Sites	DLs	Date	Description
	Random site			
innosetup-qsp-6.0.3.exe	<u>US</u>	11,010	2019-10-11	Unicode Inno Setup QuickStart Pack self-installing package .

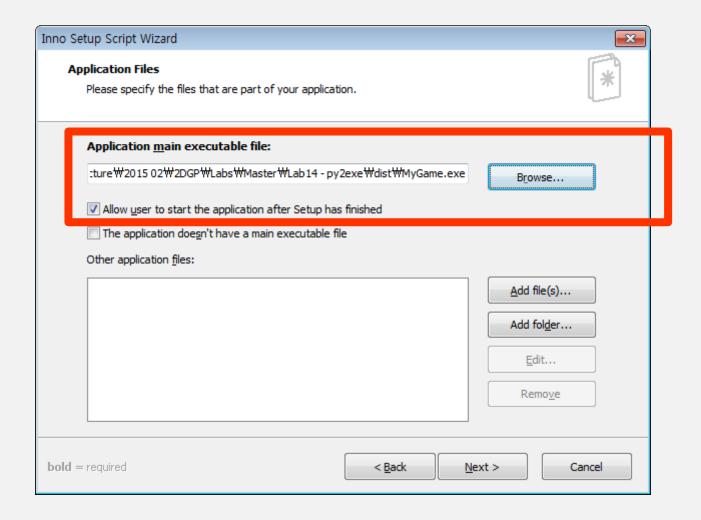
실행: File->New

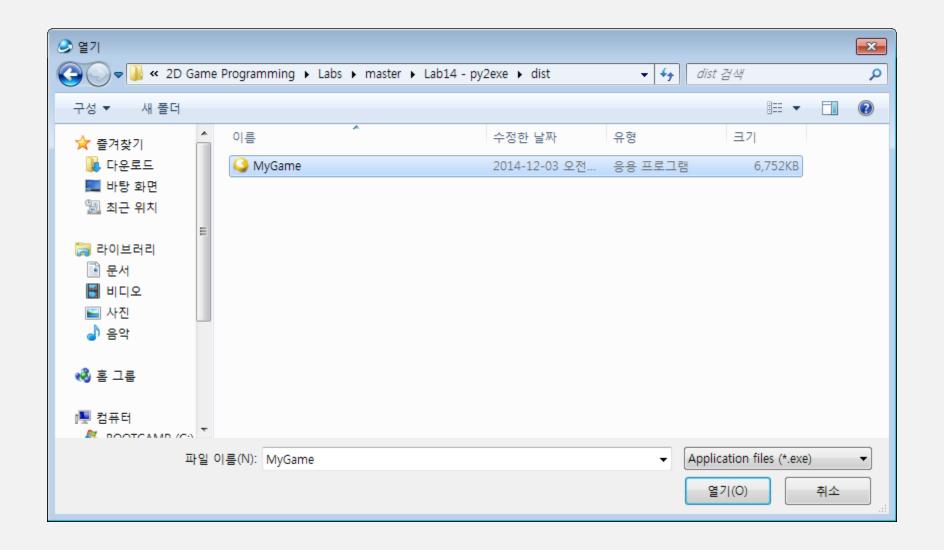




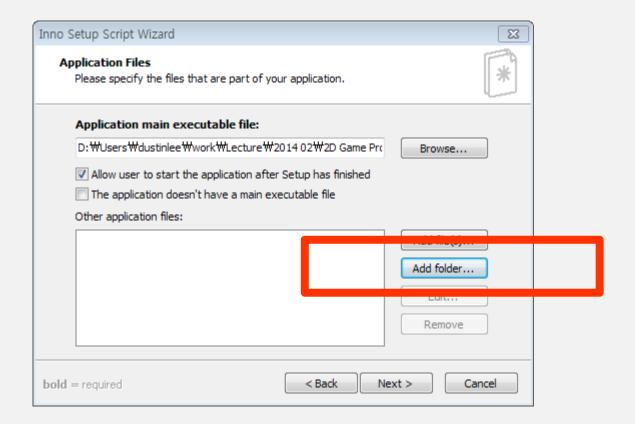


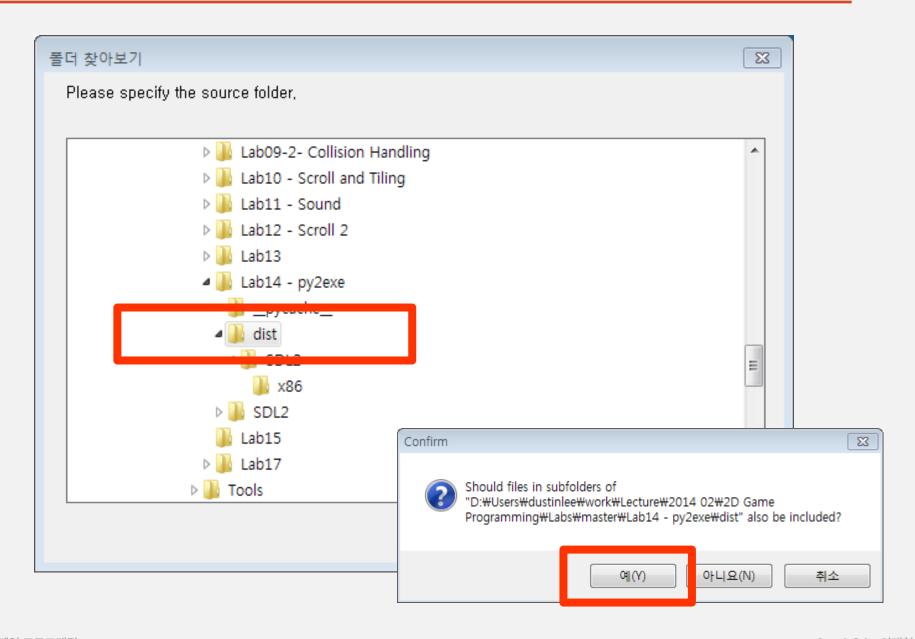
exe 파일의 추가

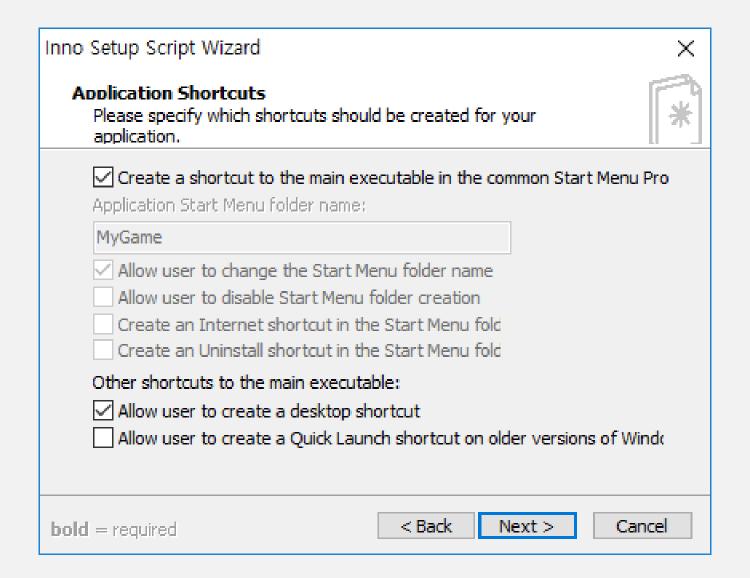


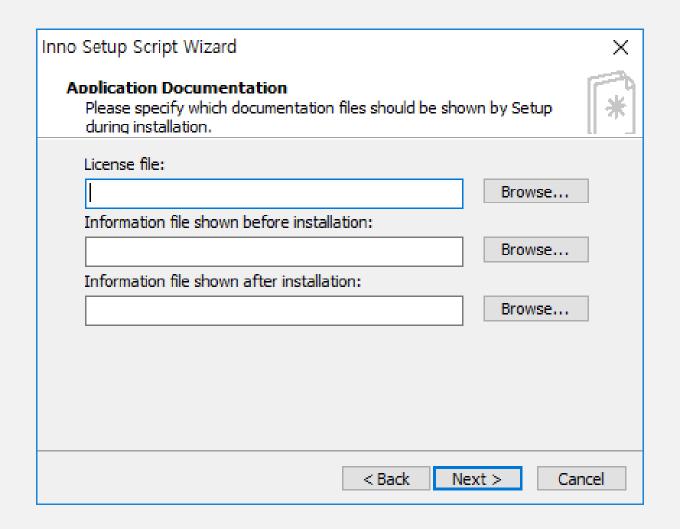


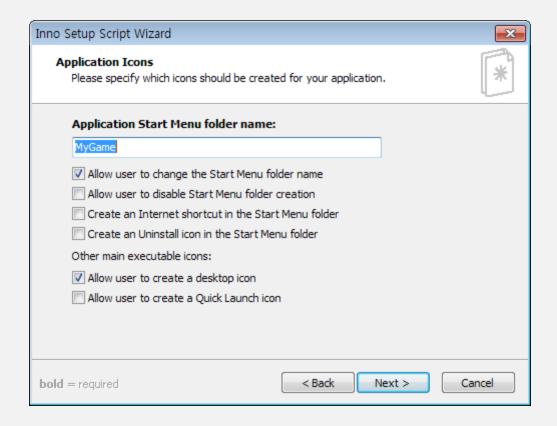
파일 폴더의 추가

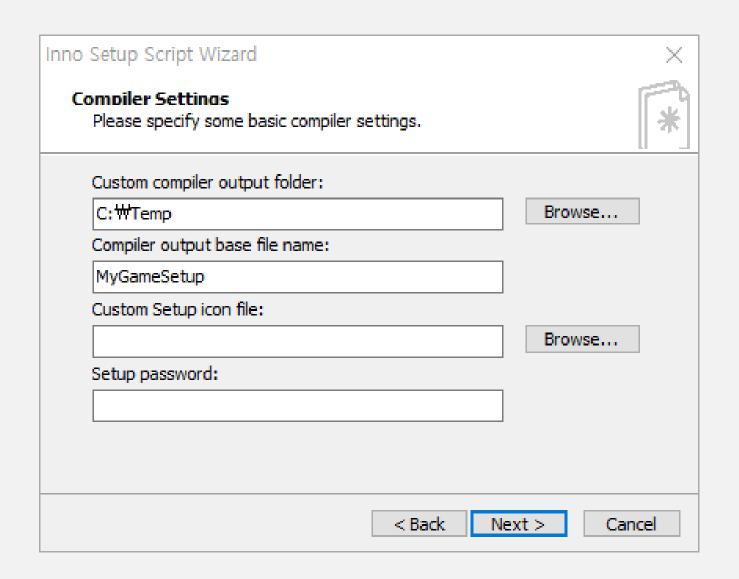


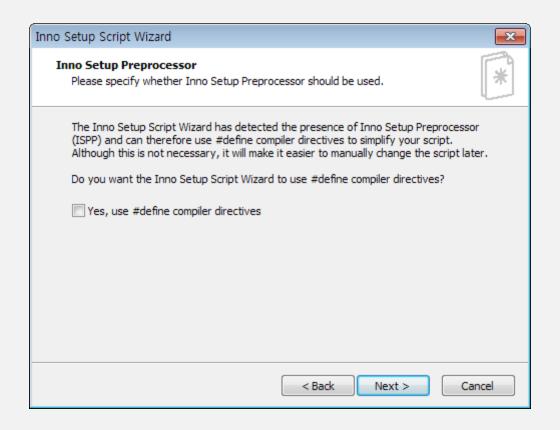


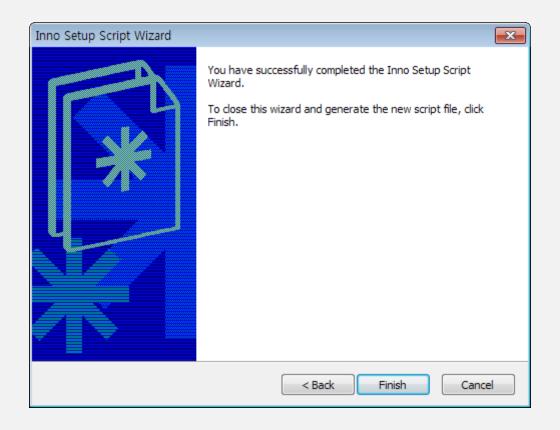


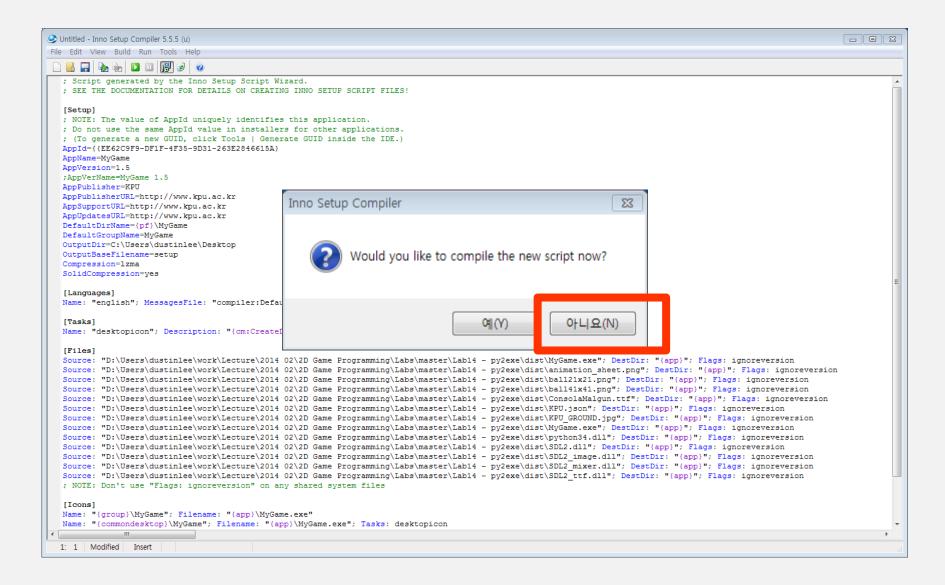


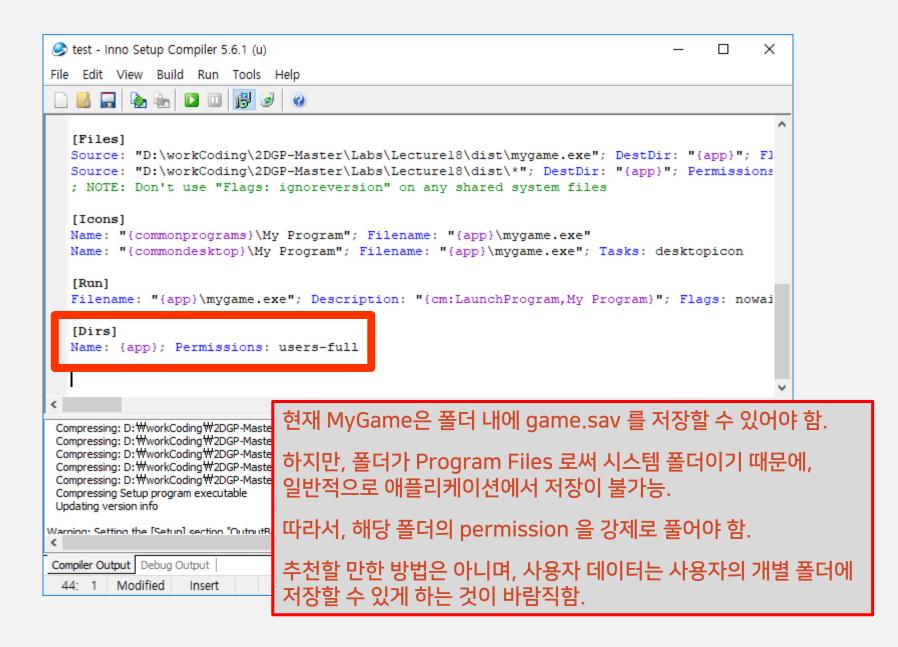


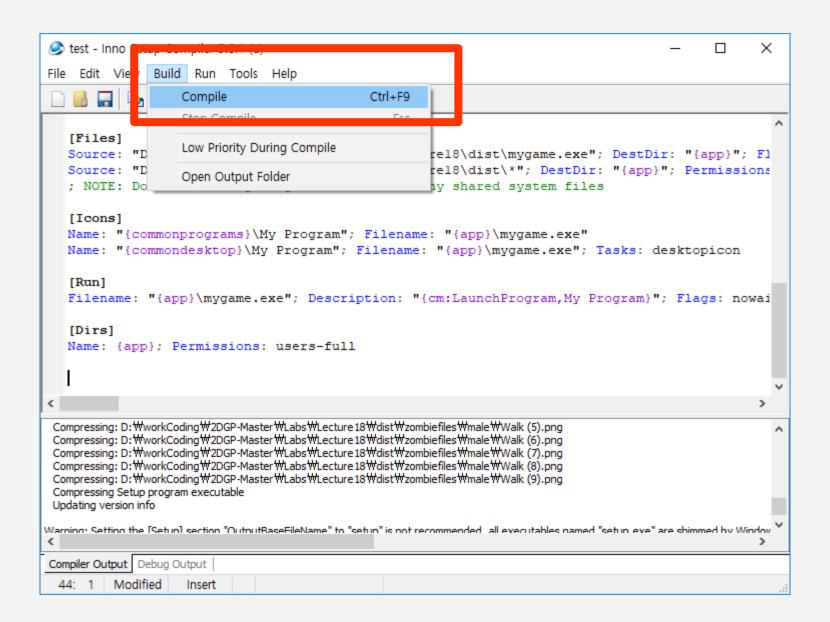












생성된 셋업 파일

