

Scripts

`_ensure-venv.ps1`

NAME

```
./scripts\_ensure-venv.ps1
```

SYNOPSIS

Helper utilities for FaceForge PowerShell scripts.

SYNTAX

```
./scripts\_ensure-venv.ps1 [<CommonParameters>]
```

DESCRIPTION

This file is intended to be dot-sourced by other scripts in the ``scripts/`` dire
It provides shared helpers for:

- Resolving the repository root.
- Creating and locating the repo-local Python virtual environment (``venv``)
- Returning the correct ``venv`` Python executable path for downstream scrip

Design goals:

- Never depend on global Python packages at runtime.
- Prefer the Windows ``py`` launcher to bootstrap Python 3.12 venv creation.
- Make failures actionable with clear error messages.

PARAMETERS

<CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug,
ErrorAction, ErrorVariable, WarningAction, WarningVariable,

OutBuffer, PipelineVariable, and OutVariable. For more information, see about_CommonParameters (<https://go.microsoft.com/fwlink/?LinkID=113216>).

INPUTS

OUTPUTS

NOTES

This file defines functions and does not execute any build/run tasks on its Usage pattern:

```
. (Join-Path $PSScriptRoot '_ensure-venv.ps1')  
$repoRoot = Get-RepoRoot  
$venvPython = Ensure-Venv -RepoRoot $repoRoot
```

RELATED LINKS

build-core.ps1

NAME

./scripts/build-core.ps1

SYNOPSIS

Builds the FaceForge Core executable for local bundling and releases.

SYNTAX

```
./scripts/build-core.ps1 [-KeepBuildHistory] [-AllowTimestampFallback] [<Co
```

DESCRIPTION

Produces a Windows executable for FaceForge Core using PyInstaller, using the r virtual environment under `.venv`.

This script is designed to be safe and repeatable:

- Uses a repo-local venv (never relies on global site-packages after bootstrapping)
- Cleans previous `core/build` and `core/dist` output directories.
- When requested, falls back to timestamped output folders if directories are 1
- Normalizes output to a stable path `core/dist/faceforge-core.exe` for downstream

Intended consumers:

- Local developers running the Desktop orchestrator.
- CI pipelines producing release artifacts.
- The all-in-one desktop bundler script (`scripts/build-desktop.ps1`).

PARAMETERS

`-KeepBuildHistory` [`<SwitchParameter>`]

Preserves older timestamped output folders (e.g. `core/build-YYYYMMDD-HHMMSS`
By default, old timestamped output folders are pruned to keep the repo tidy

Required?	false
Position?	named
Default value	False
Accept pipeline input?	false
Aliases	
Accept wildcard characters?	false

`-AllowTimestampFallback` [`<SwitchParameter>`]

If `core/build` or `core/dist` cannot be deleted (e.g. open file handles from
terminal with CWD inside those folders), the default behavior is to fail with
When this switch is provided, the script will instead build into timestamped

Required?	false
Position?	named
Default value	False
Accept pipeline input?	false
Aliases	
Accept wildcard characters?	false

`<CommonParameters>`

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ErrorAction, ErrorVariable, WarningAction, WarningVariable,
OutBuffer, PipelineVariable, and OutVariable. For more information, see
about_CommonParameters (<https://go.microsoft.com/fwlink/?LinkID=113216>).

INPUTS

OUTPUTS

On success, you will have:

- ``core/dist/faceforge-core.exe``

NOTES

Prerequisites:

- Python 3.12.x installed (only needed to bootstrap ``.venv`` the first time)
- Build dependencies are installed into ``.venv`` automatically.

This script intentionally disables confirmation prompts for non-interactive

----- EXAMPLE 1 -----

```
PS > ./scripts/build-core.ps1
Builds Core into `core/dist/faceforge-core.exe`, cleaning old outputs.
```

----- EXAMPLE 2 -----

```
PS > ./scripts/build-core.ps1 -AllowTimestampFallback
Builds Core even if `core/dist` is locked, by using timestamped folders.
```

RELATED LINKS

build-desktop.ps1

NAME

```
./scripts\build-desktop.ps1
```

SYNOPSIS

Builds a full FaceForge Desktop bundle (Desktop + Core sidecar).

SYNTAX

```
./scripts\build-desktop.ps1 [-Bundles <String>] [-SkipCoreBuild] [-KeepBuilds]
```

DESCRIPTION

This script follows the project's packaging intent:

- Build FaceForge Core as a standalone executable (PyInstaller)
- Stage it into Desktop's Tauri sidecar binaries folder
- Produce Desktop installers via `tauri build`

This script is designed for repeatable local and CI builds:

- Uses the repo-local `.venv` for Core builds (never global site-packages).
- Stages the Core sidecar into `desktop/src-tauri/binaries/faceforge-core.exe`
- Runs `cargo tauri build` to produce installable artifacts.

Prerequisites (Windows):

- Rust toolchain installed (cargo).
- Tauri prerequisites (WebView2, bundler toolchains). Tauri will prompt/download

Outputs (Windows):

- desktop/src-tauri/target/release/bundle/msi/*.msi
- desktop/src-tauri/target/release/bundle/nsis/*-setup.exe

PARAMETERS

-Bundles <String>

Which bundle target(s) to build. Allowed values: all, msi, nsis.

Default: all.

Required? false

Position? named

Default value all

Accept pipeline input? false

Aliases

Accept wildcard characters? false

-SkipCoreBuild [<SwitchParameter>]

Skip running scripts/build-core.ps1 (expects core/dist/faceforge-core.exe to

Required? false

Position? named

Default value False

Accept pipeline input? false

Aliases

Accept wildcard characters? false

-KeepBuildHistory [<SwitchParameter>]

Forwarded to scripts/build-core.ps1; preserves old build/dist folders under

Required?	false
Position?	named
Default value	False
Accept pipeline input?	false
Aliases	
Accept wildcard characters?	false

-AllowTimestampFallback [<SwitchParameter>]

Forwarded to scripts/build-core.ps1; if core/build or core/dist are locked,

Required?	false
Position?	named
Default value	False
Accept pipeline input?	false
Aliases	
Accept wildcard characters?	false

<CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, see about_CommonParameters (<https://go.microsoft.com/fwlink/?LinkID=113216>).

INPUTS

OUTPUTS

NOTES

Outputs (Windows):

- desktop/src-tauri/target/release/bundle/msi/*.msi
- desktop/src-tauri/target/release/bundle/nsis/*-setup.exe

This script sets `PositionalBinding = \$false` to discourage ambiguous invoc

----- EXAMPLE 1 -----

PS > ./scripts/build-desktop.ps1

Builds Core + Desktop, producing both MSI and NSIS artifacts.

----- EXAMPLE 2 -----

```
PS > ./scripts/build-desktop.ps1 -Bundles nsis
Builds only the NSIS installer.
```

----- EXAMPLE 3 -----

```
PS > ./scripts/build-desktop.ps1 -SkipCoreBuild -Bundles msi
Fast path when nothing changed in Core.
```

RELATED LINKS

check-core.ps1

NAME

```
./scripts\check-core.ps1
```

SYNOPSIS

```
Runs FaceForge Core quality gates (format, lint, tests).
```

SYNTAX

```
./scripts\check-core.ps1 [<CommonParameters>]
```

DESCRIPTION

Installs FaceForge Core in editable mode with development dependencies into the virtual environment (`.venv`), then runs:

- ruff format --check
- ruff check
- pytest

This is intended for local verification and CI usage. It will stop on the first return a non-zero exit code.

PARAMETERS

<CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, see about_CommonParameters (<https://go.microsoft.com/fwlink/?LinkID=113216>).

INPUTS

OUTPUTS

Console output from tooling. Exits non-zero on failure.

NOTES

Prerequisites:

- Python 3.12.x is recommended (used only to bootstrap `.venv` on first run). This script does not rely on global Python packaging once `.venv` exists.

----- EXAMPLE 1 -----

```
PS > ./scripts/check-core.ps1
Runs format, lint, and tests.
```

RELATED LINKS

dev-core.ps1

NAME

`./scripts\dev-core.ps1`

SYNOPSIS

Runs FaceForge Core locally in development mode.

SYNTAX


```
./scripts\dev-core.ps1 [<CommonParameters>]
```

DESCRIPTION

Bootstraps the repo-local virtual environment (`.venv`) if needed, installs FaceForge in editable mode with development dependencies, then launches the Core server.

Environment variables (optional):

- FACEFORGE_BIND: bind host for Uvicorn/FastAPI (default: 127.0.0.1)
- FACEFORGE_PORT: bind port for Core (default: 8787)

This script is intended for local development. For Desktop orchestration, run the script and let it start Core.

PARAMETERS

<CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug, ErrorAction, ErrorVariable, WarningAction, WarningVariable, OutBuffer, PipelineVariable, and OutVariable. For more information, see about_CommonParameters (<https://go.microsoft.com/fwlink/?LinkID=113216>).

INPUTS

OUTPUTS

NOTES

This script intentionally uses `.venv\Scripts\python.exe` for all Python external command failures (pip install, server start) cause the script to fail.

----- EXAMPLE 1 -----

```
PS > ./scripts/dev-core.ps1
Starts Core at http://127.0.0.1:8787
```

----- EXAMPLE 2 -----

```
PS > $env:FACEFORGE_PORT = '43210'
```

```
./scripts/dev-core.ps1  
Starts Core at http://127.0.0.1:43210
```

RELATED LINKS

set-version.ps1

NAME

```
./scripts\set-version.ps1
```

SYNOPSIS

Bumps FaceForge version across Core + Desktop manifests.

SYNTAX

```
./scripts\set-version.ps1 -Version <String> [-WhatIf] [-Confirm] [<CommonPa
```

DESCRIPTION

Updates version strings in the following files:

- core/pyproject.toml
- core/src/faceforge_core/app.py
- desktop/src-tauri/Cargo.toml
- desktop/src-tauri/Cargo.lock
- desktop/src-tauri/tauri.conf.json

The script supports -WhatIf / -Confirm for safe previews.

PARAMETERS

-Version <String>
The semantic version to set (e.g. 0.1.2).

Required?	true
Position?	named

```
Default value
Accept pipeline input?      false
Aliases
Accept wildcard characters?  false
```

```
-WhatIf [<SwitchParameter>]
```

```
Required?                    false
Position?                    named
Default value
Accept pipeline input?      false
Aliases
Accept wildcard characters?  false
```

```
-Confirm [<SwitchParameter>]
```

```
Required?                    false
Position?                    named
Default value
Accept pipeline input?      false
Aliases
Accept wildcard characters?  false
```

```
<CommonParameters>
```

```
This cmdlet supports the common parameters: Verbose, Debug,
ErrorAction, ErrorVariable, WarningAction, WarningVariable,
OutBuffer, PipelineVariable, and OutVariable. For more information, see
about_CommonParameters (https://go.microsoft.com/fwlink/?LinkID=113216).
```

INPUTS

OUTPUTS

NOTES

If a target file or pattern is not found, the script emits a warning and co

```
----- EXAMPLE 1 -----
```

```
PS > ./scripts/set-version.ps1 -Version 0.1.2
Updates all known manifests to 0.1.2.
```

```
----- EXAMPLE 2 -----
```

```
PS > ./scripts/set-version.ps1 -Version 0.1.2 -WhatIf
Shows what would change without modifying files.
```

RELATED LINKS

update-docs.ps1

NAME

```
./scripts\update-docs.ps1
```

SYNOPSIS

Builds HTML and PDF renderings for selected Markdown docs.

SYNTAX

```
./scripts\update-docs.ps1 [-ConfigPath <String>] [-Force] [-SkipScriptsRead
```

DESCRIPTION

Reads scripts/update-docs_config.json for a list of "actions" and executes them

- 1) copy (sync files into their canonical docs/ locations)
- 2) transform (e.g. Markdown -> HTML)
- 3) print (e.g. HTML -> PDF via headless Chromium)

This intentionally does NOT add Node.js tooling to the repo.

PARAMETERS

-ConfigPath <String>

Required?	false
Position?	named
Default value	
Accept pipeline input?	false

Aliases

Accept wildcard characters? false

-Force [<SwitchParameter>]

Required? false

Position? named

Default value False

Accept pipeline input? false

Aliases

Accept wildcard characters? false

-SkipScriptsReadme [<SwitchParameter>]

By default, docs/FaceForge - Dev Guide - Scripts.md is regenerated (from co
Use this switch to bypass that behavior.

Required? false

Position? named

Default value False

Accept pipeline input? false

Aliases

Accept wildcard characters? false

-WhatIf [<SwitchParameter>]

Required? false

Position? named

Default value

Accept pipeline input? false

Aliases

Accept wildcard characters? false

-Confirm [<SwitchParameter>]

Required? false

Position? named

Default value

Accept pipeline input? false

Aliases

Accept wildcard characters? false

<CommonParameters>

This cmdlet supports the common parameters: Verbose, Debug,
ErrorAction, ErrorVariable, WarningAction, WarningVariable,
OutBuffer, PipelineVariable, and OutVariable. For more information, see
about_CommonParameters (<https://go.microsoft.com/fwlink/?LinkID=113216>).

INPUTS

OUTPUTS

```
----- EXAMPLE 1 -----  
  
PS > ./scripts/update-docs.ps1  
  
----- EXAMPLE 2 -----  
  
PS > ./scripts/update-docs.ps1 -WhatIf  
  
----- EXAMPLE 3 -----  
  
PS > ./scripts/update-docs.ps1 -ConfigPath ./scripts/update-docs_config.json -F
```

RELATED LINKS