

# Wavelet Prosody Toolkit

## Installation Guide

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This guide provides **cross-platform installation instructions** for the *Wavelet Prosody Toolkit* on Windows, macOS, and Linux. Two installation methods are provided: a global user-level installation for general use across multiple projects, and a per-project installation with isolated dependencies for reproducible research environments.

## 1 Introduction

The *Wavelet Prosody Toolkit* is a powerful tool for analysing prosodic features in speech. This guide helps you install it on Windows, macOS, or Linux, but no guarantees are made. It describes files that are included in the installation package, pertaining to two installation methods: a global user-level installation and a per-project installation.

You can download the installation scripts from [github.com/EirikTengesdal/ProsodyIsAwesome](https://github.com/EirikTengesdal/ProsodyIsAwesome).

### 1.1 Support

For installation issues, please email Eirik Tengesdal at [eirik.tengesdal@oslomet.no](mailto:eirik.tengesdal@oslomet.no) with sufficient details about your system and the problem encountered. You can also open an issue on the [GitHub repository](#) if you believe it is a bug.

## 2 Which Installation Method?<sup>1</sup>

### 2.1 Global Installation (recommended):

- Windows: `install_toolkit_standalone.ps1`
- macOS/Linux: `install_toolkit_standalone.sh`
- Use across multiple projects without reinstalling

### 2.2 Per-Project Installation:

- Windows: `install_toolkit_project.ps1`
- macOS/Linux: `install_toolkit_project.sh`
- Isolated dependencies and strict reproducibility

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<sup>1</sup>For most users, the **global installation** is simpler and more convenient. Use per-project only when you need strict dependency isolation.

### 3 Option 1: Global User-Level Installation

This installs the toolkit once to your user Python environment, making it available from any directory.

#### Default Locations:

- Windows:  
`%USERPROFILE%\wavelet_prosody_toolkit`
- macOS/Linux:  
`~/wavelet_prosody_toolkit`

### 3.1 Installation

#### 3.1.1 Windows (PowerShell)

```
1 # Navigate to where you downloaded the script
2 cd path\to\scripts
3
4 # Install to default location
5 .\install_toolkit_standalone.ps1
6
7 # OR install to custom location
8 .\install_toolkit_standalone.ps1 -InstallDir "C:\Tools\wavelet_prosody_toolkit"
```

#### 3.1.2 macOS/Linux (Bash)

```
1 # Make script executable
2 chmod +x install_toolkit_standalone.sh
3
4 # Install to default location
5 ./install_toolkit_standalone.sh
6
7 # OR install to custom location
8 ./install_toolkit_standalone.sh /path/to/your/preferred/location
```

### 3.2 Usage

After installation, you can use the toolkit from **any directory**:

#### 3.2.1 Windows

```
1 # Launch the GUI
2 python -m wavelet_prosody_toolkit.wavelet_gui
3
4 # Or use in your Python scripts
5 python your_analysis_script.py
```


#### 3.2.2 macOS/Linux

```
1 # Launch the GUI
2 python3 -m wavelet_prosody_toolkit.wavelet_gui
3
4 # Or use in your Python scripts
5 python3 your_analysis_script.py
```

### 3.2.3 Python Usage

In your Python code (all platforms):


```
1 import wavelet_prosody_toolkit
2 # Use toolkit functions
```

 Python

## 3.3 Updating the Toolkit


### 3.3.1 Windows

```
1 cd $HOME\wavelet_prosody_toolkit
2 git pull
```

 PowerShell

### 3.3.2 macOS/Linux

```
1 cd ~/wavelet_prosody_toolkit
2 git pull
```

 Shell

## 4 Option 2: Per-Project Installation<sup>2</sup>


This creates a project-specific installation with its own virtual environment.

<sup>2</sup>Use this method when you need isolated dependencies for reproducible research environments.

### 4.1 Installation


#### 4.1.1 Windows (PowerShell)

```
1 # In your project directory
2 .\install_toolkit_project.ps1
```

 PowerShell

#### 4.1.2 macOS/Linux (Bash)


```
1 # In your project directory
2 chmod +x install_toolkit_project.sh
3 ./install_toolkit_project.sh
```

 Shell

### 4.2 Usage

#### 4.2.1 Windows

```
1 # Activate the virtual environment
2 .\.venv\Scripts\Activate.ps1
3
4 # Launch the GUI
5 python -m wavelet_prosody_toolkit.wavelet_gui
6
7 # Run your analysis scripts
8 python your_analysis_script.py
```

 PowerShell

#### Virtual Environment

The toolkit is installed in an isolated environment ( `.venv` ) within your project directory.

#### 4.2.2 macOS/Linux

```

1 # Activate the virtual environment
2 source .venv/bin/activate
3
4 # Launch the GUI
5 python -m wavelet_prosody_toolkit.wavelet_gui
6
7 # Run your analysis scripts
8 python your_analysis_script.py

```

### 4.3 Updating the Toolkit

#### 4.3.1 Windows

```

1 cd vendor\wavelet_prosody_toolkit
2 git pull

```

#### 4.3.2 macOS/Linux

```

1 cd vendor/wavelet_prosody_toolkit
2 git pull

```

## 5 Prerequisites

Before running either script, ensure you have the following installed:

### 5.1 All Platforms

#### 5.1.1 Python 3

##### Windows:

```
1 python --version
```

##### macOS/Linux:

```
1 python3 --version
```

#### 5.1.2 Git

##### Windows:

```
1 git --version
```

##### macOS/Linux:

```
1 git --version
```

#### Python Version:

Python 3.8 or later is recommended. The toolkit may work with earlier versions but has not been tested.

Download from: [python.org/downloads](https://python.org/downloads)

Download from: [git-scm.com/download/win](https://git-scm.com/download/win)

## 6 Quick Start Example

### 6.1 Global Installation

#### 6.1.1 Windows

```
1  # Install once
2  .\install_toolkit_standalone.ps1
3
4  # Navigate to your project
5  cd C:\Users\YourName\my_prosody_analysis
6
7  # Create your analysis script
8  @"
9  import wavelet_prosody_toolkit as wpt
10 # Your analysis code here
11 "@ | Out-File -Encoding utf8 analyse.py
12
13 # Run it
14 python analyse.py
```

#### 6.1.2 macOS/Linux

```
1  # Install once
2  ./install_toolkit_standalone.sh
3
4  # Navigate to your project
5  cd ~/my_prosody_analysis
6
7  # Create your analysis script
8  cat > analyse.py << 'EOF'
9  import wavelet_prosody_toolkit as wpt
10 # Your analysis code here
11 EOF
12
13 # Run it
14 python3 analyse.py
```

## 6.2 Per-Project Installation

### 6.2.1 Windows

```

1 # In your project directory
2 .\install_toolkit_project.ps1
3
4 # Activate environment
5 .\.venv\Scripts\Activate.ps1
6
7 # Create and run your analysis
8 python analyse.py

```

### 6.2.2 macOS/Linux

```

1 # In your project directory
2 ./install_toolkit_project.sh
3
4 # Activate environment
5 source .venv/bin/activate
6
7 # Create and run your analysis
8 python analyse.py

```

## 7 Summary of Installation Files

The following table summarises the installation scripts included in this package:

Purpose	Windows	macOS/Linux
Global installation	<code>install_toolkit_standalone.ps1</code>	<code>install_toolkit_standalone.sh</code>
Per-project installation	<code>install_toolkit_project.ps1</code>	<code>install_toolkit_project.sh</code>

#### File Distribution:

All files are included in the distribution package and can be used independently.