Using the Python Distribution

This page provides important information for users of the Ice for Python distribution.

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Overview of the Ice for Python Distribution

Ice for Python is available as a collection of Python packages on the Python Package Index. Each package provides the following:

- · Ice extension for Python
- Slice files for all Ice components (Glacier2, Ice, IceGrid etc.)
- Slice-to-Python compiler (slice2py)



The binary distributions for Linux also include Python packages.

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Installing the Ice for Python Distribution

Install Ice for Python using the pip source distribution. The following command will build and install the source package.:

```
pip install zeroc-ice
```

On Linux this command will build and install the source package. On macOS and Windows it installs a pre-built wheel for the following configurations:

- Python 2.7 on macOS (64 bit) and Windows (32 bit and 64 bit)
- Python 3.6 on Windows (32 bit and 64 bit)

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Using Ice for Python

The installation process automatically adds the Ice modules to Python's package directory and adds the Slice-to-Python compiler (slice2py) to a directory that's likely already in your executable search path. To verify that Ice is installed, execute these commands:

```
python
>>> import Ice
>>> Ice.getSliceDir()
```

The output of ${\tt getSliceDir}$ shows where the Slice files have been installed.

The Ice manual provides a complete description of the Python mapping, including the options for generating Python code from Slice definitions.

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Using the Sample Programs

Sample programs are provided in a separate GitHub repository. You can browse this repository to see build and usage instructions for all supported programming languages. Simply clone this repository:

git clone -b 3.7 https://github.com/zeroc-ice/ice-demos.git cd ice-demos $% \left(\frac{1}{2}\right) =\frac{1}{2}\left(\frac{1}{2}\right) +\frac{1}{2}\left(\frac{1}{2}\right) +\frac{$

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