

Get Started

In this section, we will guide you to start using Orion successfully. We will help you install Cairo 1.0 and add Orion dependency in your project.

Orion supports Cairo and Scarb v2.4.0

Installations

Install Cairo Step 1: Install Cairo

There are different ways to install Cairo. Use the one that suits you best [Cairo installer](#).

Step 2: Setup Language Server

Install the Cairo 1VS Code Extension for proper syntax highlighting and code navigation. Just follow the steps indicate [here](#) . Install the Cairo package manager Scarb Step 1: Install Scarb

Follow the installation guide on the [Scarb's Website](#) .

Step 2: Create a new Scarb project

Follow the instructions [here](#) to start a new Scarb project.

⚙️ Add Orion dependency in your project

If your Scarb.toml doesn't already have a [dependencies] section, add it, then list the package name and the URL to its Git repository.

...

```
Scarb.toml Copy [dependencies] orion={ git="https://github.com/gizatechxyz/onnx-cairo"}
```

...

Now, run `scarb build` , and Scarb will fetch Orion dependency and all its dependencies. Then it will compile your package with all of these packages included:

...

Copy `scarb build`

...

You can now use `theorion` in your files:

...

```
Copy usecore::array::{ArrayTrait,SpanTrait};
```

```
use orion::operators::tensor::{TensorTrait,Tensor,I32Tensor}; use orion::operators::nn::{NNTrait,I32NN};
```

```
fn relu_example()->Tensor { let tensor=TensorTrait::new( shape:array![2,2].span(), data:array![ IntegerTrait::new(1,false), IntegerTrait::new(2,false), IntegerTrait::new(1,true), IntegerTrait::new(2,true), ].span(), );
```

```
return NNTrait::relu(@tensor); }
```

...

Discover the Orion APIs

[⚙️ Operators](#) A set of standardized math functions that are used in the computation of neural network models.
[Numbers](#) A full implementation of Signed Integer and Fixed Point in Cairo.

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