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 supportsCairo 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 bestCairo installer.

Step 2: Setup Language Server

Install the Cairo 1VS Code Extension for proper syntax highlighting and code navigation. Just follow the steps indicatedhere . Install the Cairo package manager Scarb Step 1: Install Scarb

Follow the installation guide on theScarb's Website .

Step 2: Create a new Scarb project

Follow the instructionshere to start a new Scarb project.

⚙ Addorion dependency in your project

If yourScarb.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, runscarb build , and Scarb will fetchorion dependency and all its dependencies. Then it will compile your package with all of these packages included:

```

Copy scarbbuild

```

You can now use theorion in your files:

```

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

useorion::operators::tensor::{TensorTrait,Tensor,I32Tensor}; useorion::operators::nn::{NNTrait,I32NN};

fnrelu_example()->Tensor { lettensor=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(), );

returnNNTrait::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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