

# How to setup a new contract project

## Introduction

This guide explains the set up required to write a contract using the Aztec.nr library.

Prerequisite reading If you haven't read about [Aztec.nr](#) , we recommend going there first.

## Dependencies

### Aztec Sandbox

You need to setup the [Aztec sandbox](#) .

## Setup for Aztec.nr contracts

1. Inside the yarn project you created from the [Sandbox page](#)
2. , create a sub-folder where the contracts will reside.

`mkdir contracts` All contract projects will reside within this folder. Note that contracts don't actually have to live here and this is just a style choice.

1. Next, create an Aztec contract project using `aztec-nargo` by running the following in the terminal from the `contracts`
2. folder

`cd contracts aztec-nargo new --contract example_contract` This creates `example_contract` directory within `contracts` which is a Noir project with:

- a `Nargo.toml` (which is the manifest file of the project) at `example_contract/Nargo.toml`
- .
- a `main.nr` file (the file where our contract will reside) at `example_contract/src/main.nr`
- .

Your folder should look like:

`. | -contracts | | -example_contract | | | -src | | | -main.nr | | -Nargo.toml | -src | | -index.ts` Before writing the contracts, we must add the `aztec.nr` library. This adds smart contract utility functions for interacting with the Aztec network.

1. Finally, add relevant `aztec-nr` dependencies that you might use such as `aztec.nr`
2. and `value_note`
3. libraries.

Open `Nargo.toml` that is in the `contracts/example_contract` folder, and add the dependency section as follows

```
[ package ] name
```

```
=
```

```
"example_contract" authors
```

```
=
```

```
[ "" ] compiler_version
```

```
=
```

```
">=0.18.0" type
```

```
=
```

```
"contract"
```

```
[ dependencies ]
```

## Framework import

```
aztec
```

=

{

**git**

"https://github.com/AztecProtocol/aztec-packages/" ,

**tag**

"aztec-packages-v0.28.1" ,

**directory**

"noir-projects/aztec-nr/aztec"

}

## Utility dependencies

value\_note

=

{

**git**

"https://github.com/AztecProtocol/aztec-packages/" ,

**tag**

"aztec-packages-v0.28.1" ,

**directory**

"noir-projects/aztec-nr/value-note" } info Note: currently the dependency name MUST be aztec . The framework expects this namespace to be available when compiling into contracts. This limitation may be removed in the future. You are now ready to write your own contracts!

## Next Steps

- Follow a [tutorial](#)
- OR
- Read more [Edit this page](#)

[Previous Smart Contracts](#) [Next Structure of a contract](#)