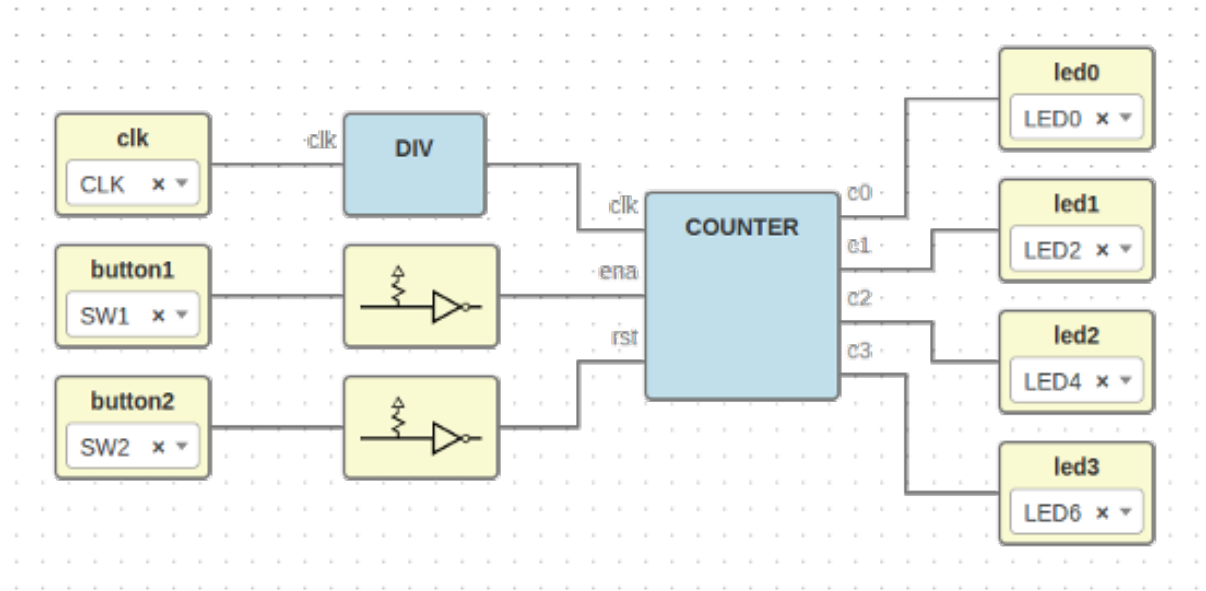


Workshop: open FPGAs tools



Jesús Arroyo Torrens

<https://github.com/Jesus89>

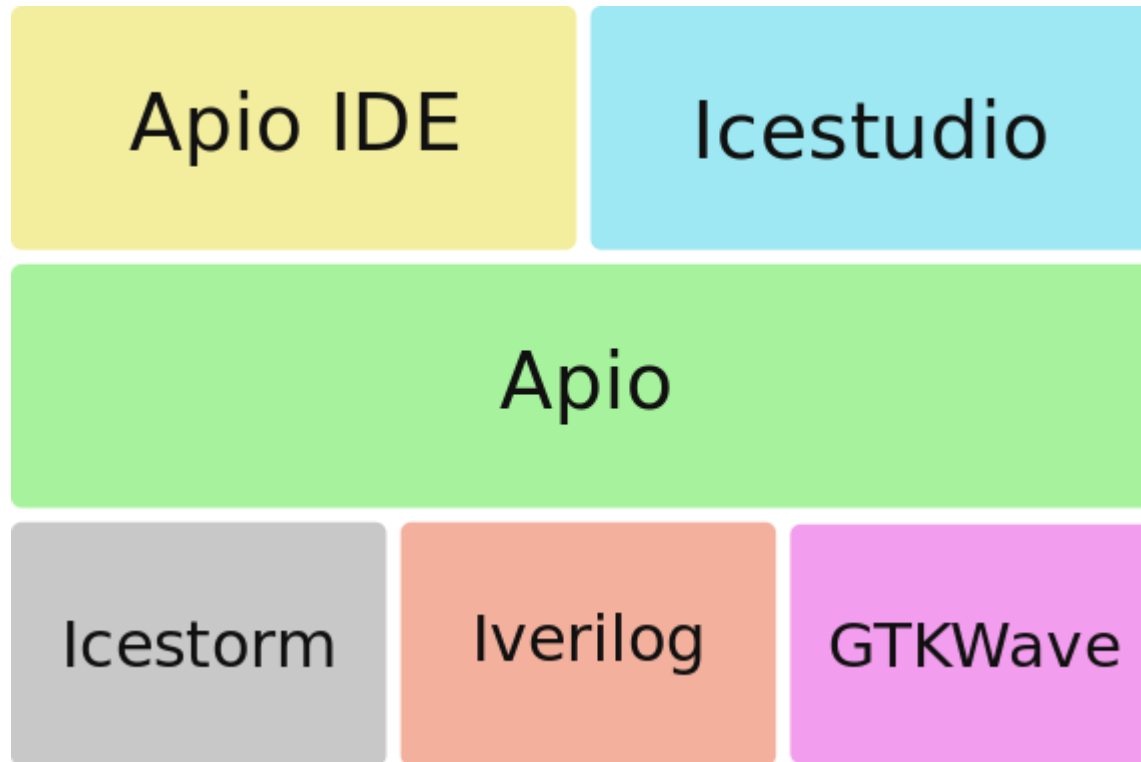


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Stack of tools



Apio

Micro-ecosystem for open FPGAs

- Requirements

Python 2.7

- Installation

```
$ pip install apio
```

```
$ apio install --all
```



Source code

<https://github.com/fpgawars/apio>

Documentation

<http://apiodoc.readthedocs.io/en/stable>



Apio IDE

Development IDE for open FPGAs

- Requirements

Apio, Atom

- Installation

Preferences > Install

Configure PATH

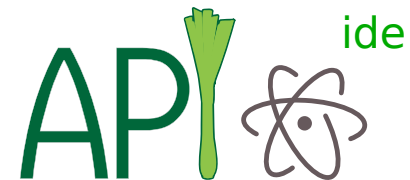


Source code

<https://github.com/fpgawars/apio-ide>

Documentation

<https://github.com/fpgawars/apio-ide/wiki>



Icestudio

Graphic editor for open FPGAs

- Requirements

Python 2.7

- Installation

Download and execute

Tools > Install toolchain



Source code

<https://github.com/fpgawars/icestudio>

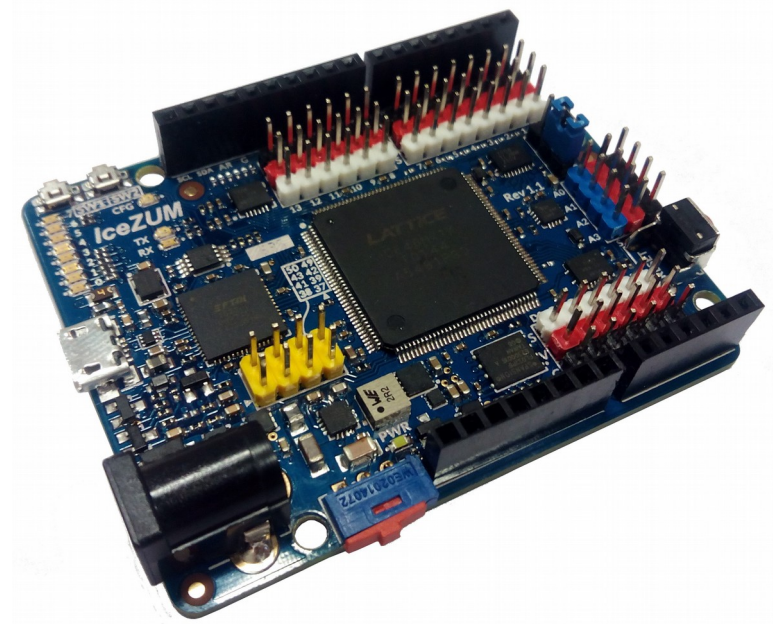
Documentation

<http://icestudio.readthedocs.io/en/stable>



Examples

- Verilog
 -
- Icestudio
 -



IceZUM Alhambra

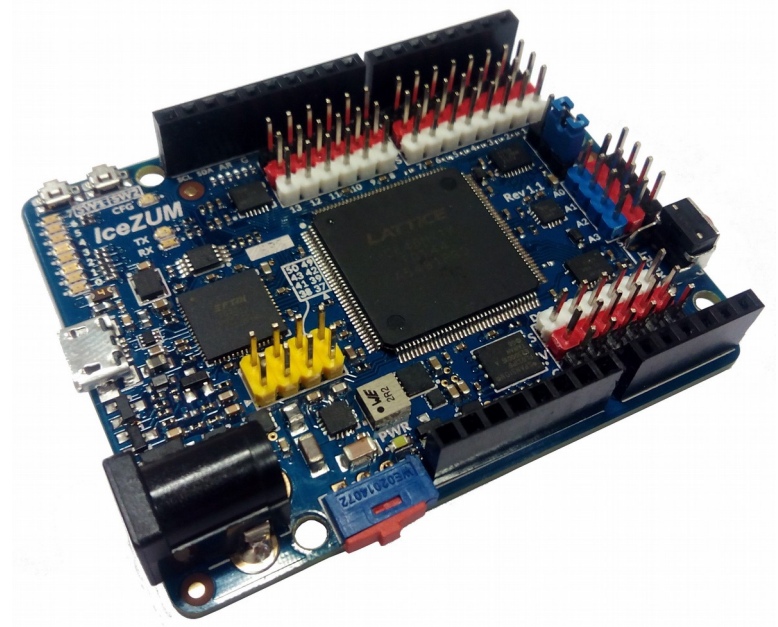
<https://github.com/FPGAwards/icezum/wiki>

Workwhop

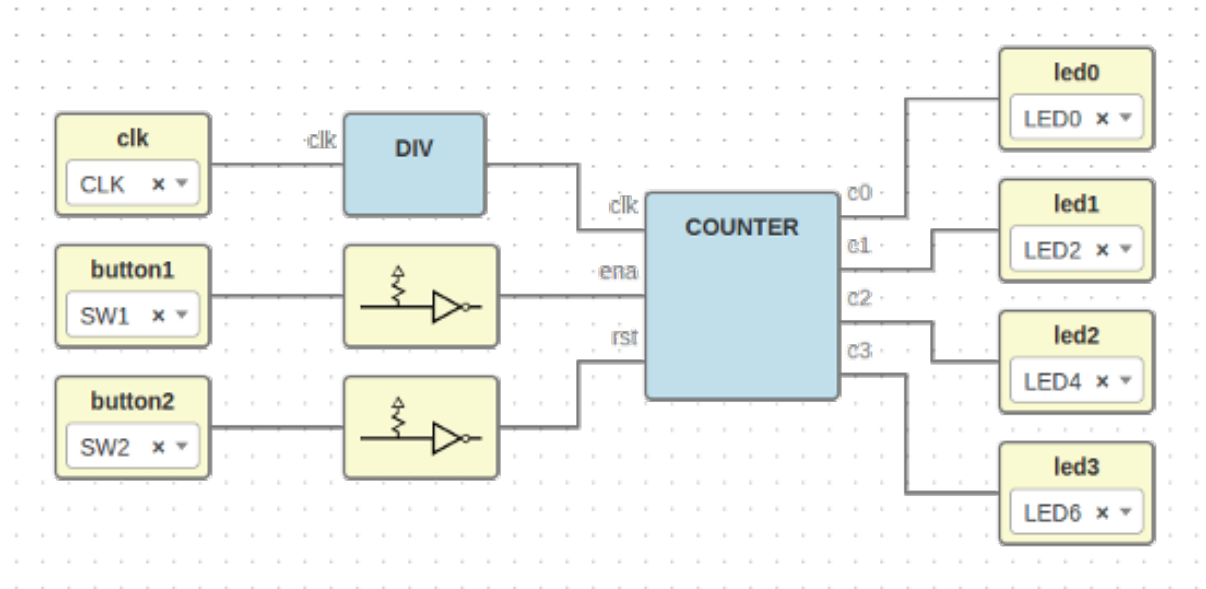
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Challenges

- Verilog
 -
- Icestudio
 -



Workshop: open FPGAs tools



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