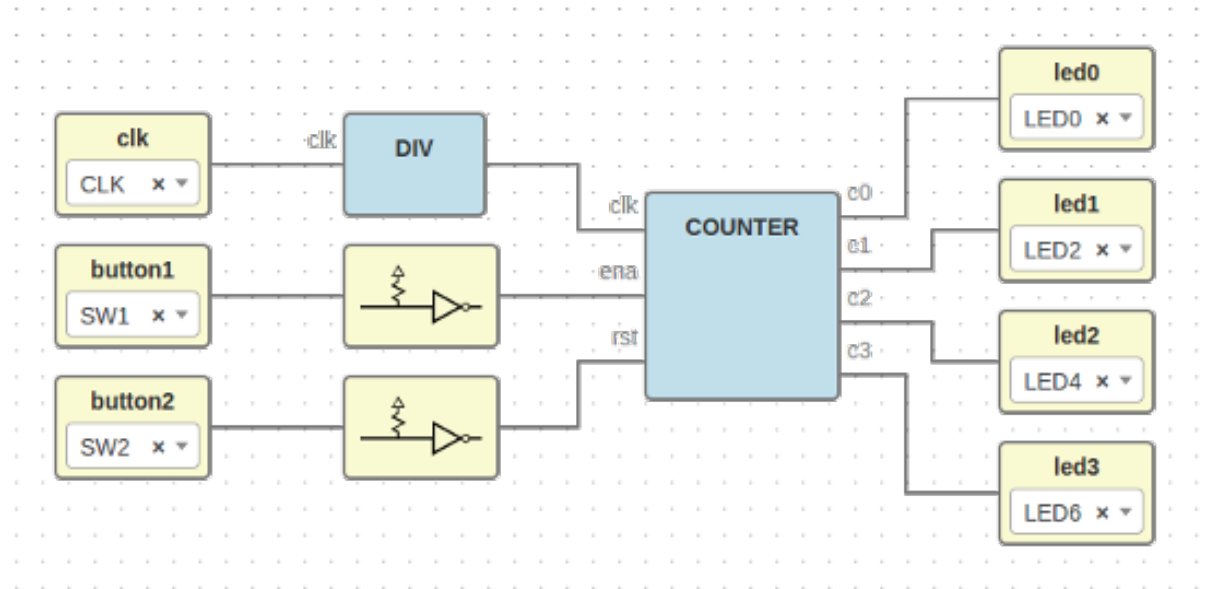


Workshop: open FPGAs tools



Jesús Arroyo Torrens

<https://github.com/Jesus89>

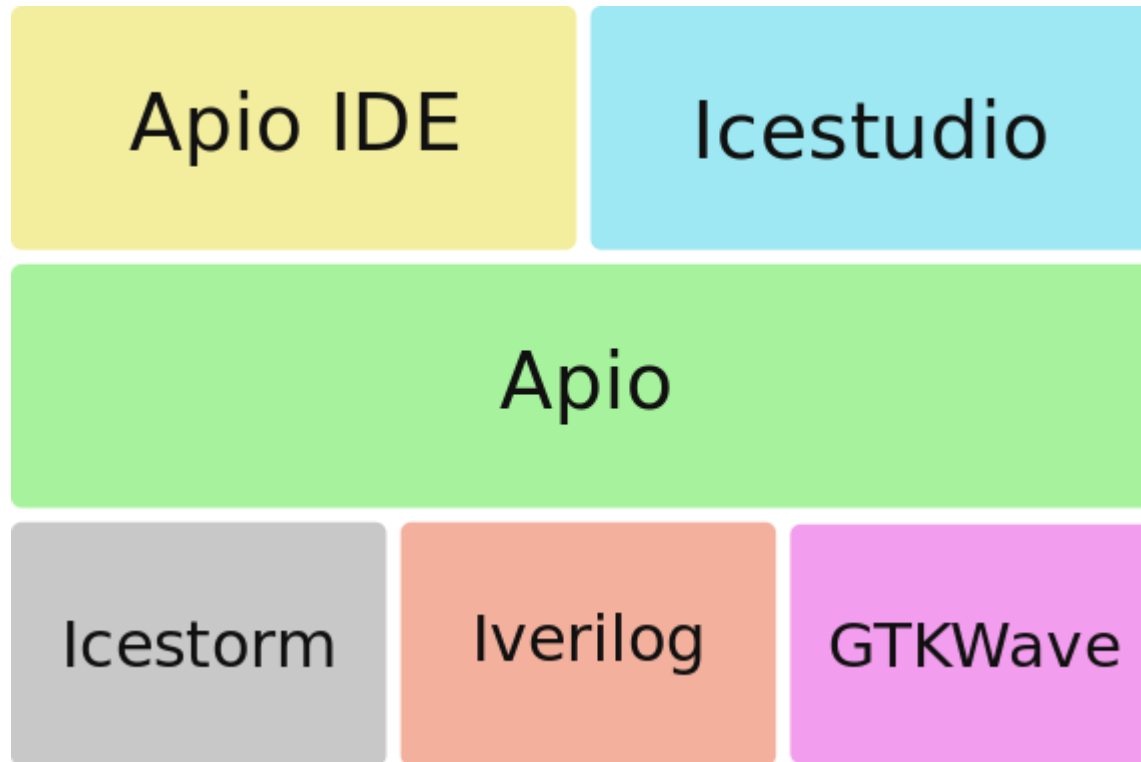


Reset 2016
28 de Octubre de 2016
ETSII Universidad Politécnica de Madrid

<https://github.com/FPGAwards/workshops>



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

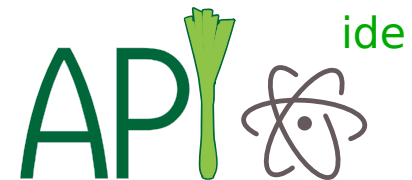


Source code

<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

<https://github.com/FPGAwards/workshops>
<https://github.com/fpgawars/apio-examples>

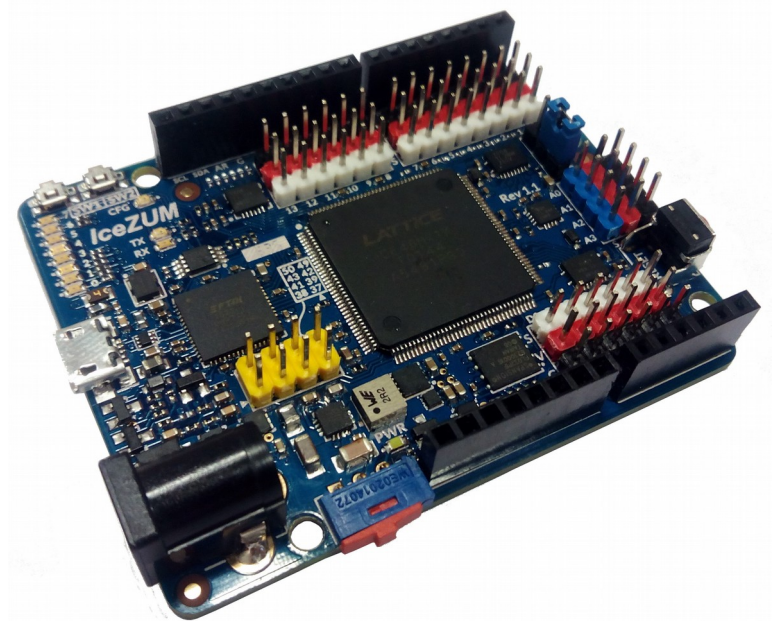
- Icestudio

<https://github.com/FPGAwards/icestudio-examples>
<https://github.com/Obijuan/ACC>

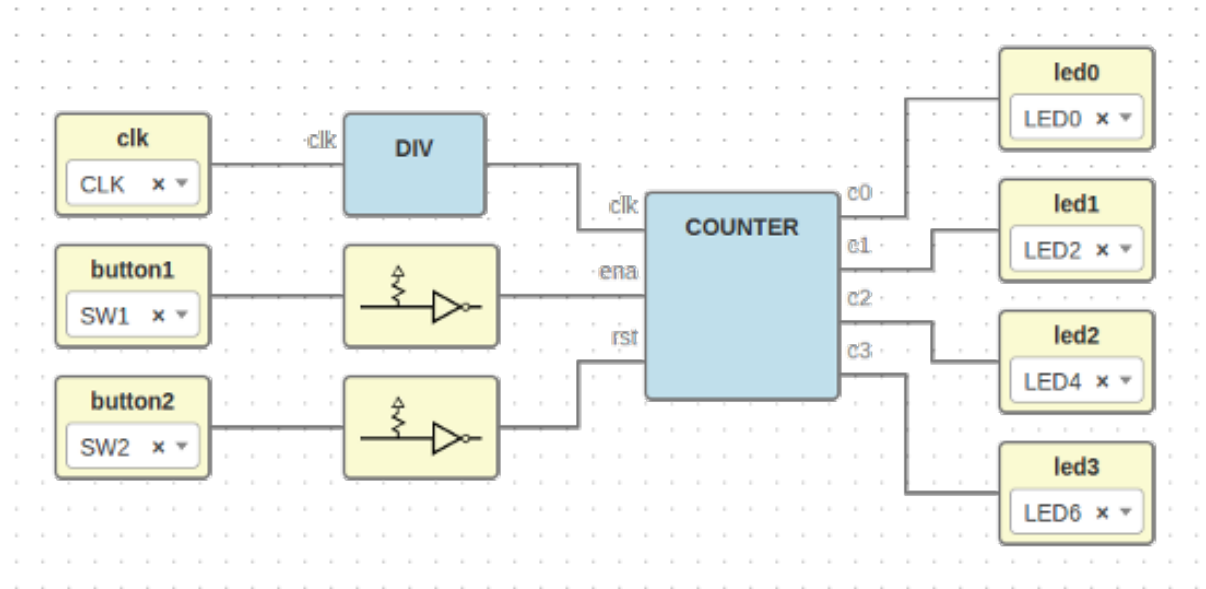
Counter challenge!

IceZUM Alhambra

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



Workshop: open FPGAs tools



Jesús Arroyo Torrens

<https://github.com/Jesus89>



Reset 2016
28 de Octubre de 2016
ETSII Universidad Politécnica de Madrid

<https://github.com/FPGAwards/workshops>

