

RISC-V Reference SoC Tapeout Program

Week 0 - Tools Installation

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Install Yosys (Logic Synthesis Tool)

```
$ sudo apt-get update
$ git clone https://github.com/YosysHQ/yosys.git
$ cd yosys

# Install make (if not already installed)
$ sudo apt install make

# Install required packages
$ sudo apt-get install build-essential clang bison flex \
  libreadline-dev gawk tcl-dev libffi-dev git \
  graphviz xdot pkg-config python3 libboost-system-dev \
  libboost-python-dev libboost-filesystem-dev zlib1g-dev

# Build and install Yosys
$ make config-gcc
$ make
$ sudo make install
```

Install Icarus Verilog (Iverilog – for Simulation)

```
$ sudo apt-get update
$ sudo apt-get install iverilog
```

Install GTKWave (Waveform Viewer)

```
$ sudo apt-get update
$ sudo apt install gtkwave
```