



You are required to customize an avr compiler for your project.

In order to make an avr compiler customized you need to download crosstool-ng
By cloning it from the repo:

[crosstool-ng/crosstool-ng: A versatile \(cross-\)toolchain generator. \(github.com\)](https://github.com/crosstool-ng/crosstool-ng)

after cloning the repo you MUST to checkout to the following commit: **25f6dae8**

Follow this step for configuration

Command	Definition
<code>./bootstrap</code>	To setup the environment
<code>./configure --enable-local</code>	To check all dependency
<code>make</code>	To generate the <u>Makefile</u> for <u>croostool-ng</u>
<code>./ct-ng list-samples</code>	To list all microcontrollers supported
<code>./ct-ng [microcontroller]</code>	To configure the microcontroller used
<code>./ct-ng menuconfig</code>	To configure toolchain
<code>./ct-ng build</code>	To build and get your toolchain



Make sure you already download crosstool-ng on your PC

Microcontroller == avr

You will face allot of libraries missing you need to get it by **sudo apt install**.

I want from you to try to fix and search for solution to run crosstool-ng on your device

Once the build is complete you will notice **x-tool** file created on your home directory
Under **avr/bin** you will see all **binutil**

