



## Training Introduction Yocto

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**Caveats:** This is not an introduction in the development process of Linux for embedded devices. It definitely presumes basic knowledge of Linux and C.

### Day 1:

- Introduction to git
- What is Yocto, and what is it not?
- Yocto concepts and syntax: recipes, classes, layers
- Generate an SD-card image and boot Linux

### Day 2:

- Generate a cross-toolchain (SDK)
- Integrate your own applications (Makefile, Autotools, Qt, Cmake)
- Define/integrate your own Yocto layer
- Define your own target board (64-bit ARM)

### Day 3:

- Build and integrate your own kernel
- Handling device trees in Yocto
- Integrate a boot loader
- Remote-cross-debugging with eclipse and the Yocto SDK

## Agenda Yocto

### **Requirement:**

Nothing on Hardware; Programming knowledge with Linux and C

### **Software:**

Linutronix provides an USB HDD with an x86 64-bit based Debian system for the host system, a Debian toolchain and for the target system an ARM Linux, running on a running on an embedded device. The HDD is a gift for the participant and can be taken home for further studies.

### **Number of participants:**

Due to our experience, we know that a single instructor could coach a maximum of 6 persons. Our courses are therefore limited to this number of individuals.

The „Embedded Device “is an ARM virtual machine and is provided for this course by Linutronix GmbH.