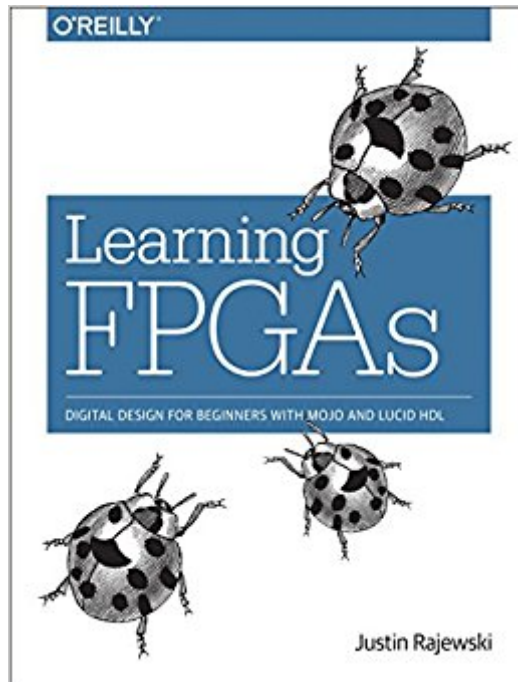# Learning FPGAs: Digital Design For Beginners With Mojo And Lucid HDL

Synopsis

Learn how to design digital circuits with FPGAs, the devices that reconfigure themselves to become the very hardware circuits you program. In this concise ebook, author Justin Rajewski teaches you hands-on how to create your first FPGA project.While FPGAs (Field Programmable Gate Arrays) and microcontrollers such as Arduino and Raspberry Pi are often compared, FPGAs are ideal for projects that can be broken down into parallel stages, need to operate at high speeds with low latency, or need custom logic not otherwise available. If you understand the basics of electricity as well as binary, hexadecimal, and decimal number systems, youâ ™re ready to start your journey toward digital hardware mastery.Learn how hardware designs are broken into modules, comparable to functions in a software programSet up your environment by installing Xilinx ISE and the Mojo IDEBuild a high level understanding of digital designs that can be implemented on an FPGABuild your project with Lucid, a hardware description language with syntax similar to C/C++, Verilog, and JavaUse the Mojo IDE to design, build, and load your FPGA designs

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