

# Vivado从此开始 ( To Learn Vivado From Here )



## 本书围绕Vivado四大主题

- 设计流程
- 时序约束
- 时序分析
- Tcl脚本的使用



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- 2012年2月，出版《基于FPGA的数字信号处理（第1版）》
- 2012年9月，发布网络视频课程《Vivado入门与提高》
- 2015年7月，出版《基于FPGA的数字信号处理（第2版）》
- 2016年7月，发布网络视频课程《跟Xilinx SAE学HLS》

- ◆ 内容翔实全面：涵盖Vivado所有基本功能
- ◆ 讲解深入浅出：结合大量案例，帮助读者加强对基本概念的理解
- ◆ 描述图文并茂：给出具体操作步骤，易于快速动手实践



**XILINX**

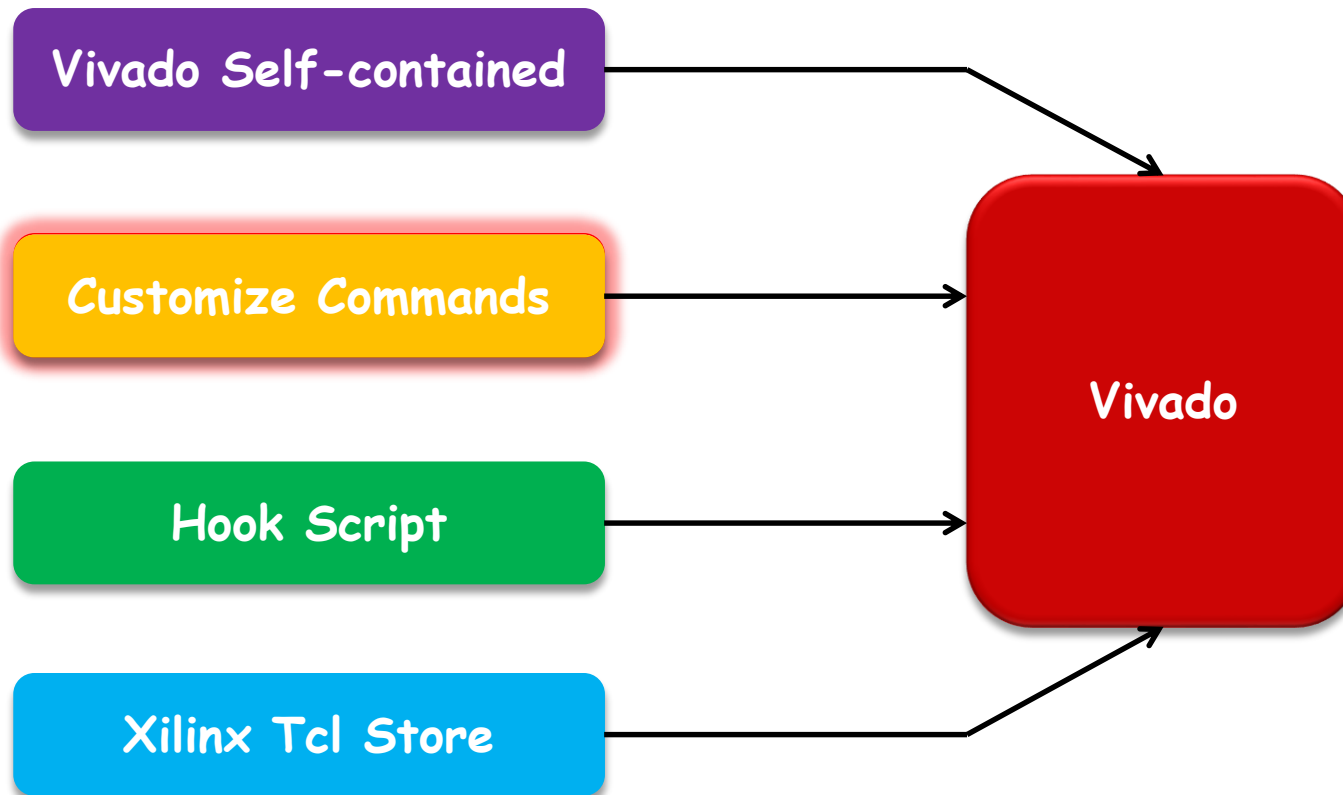
**ALL PROGRAMMABLE™**

# **TCL, Vivado One World**

## ***Part 4: Customize TCL Commands***

**Lauren Gao**

# Tcl Sources in Vivado



# Why Do We Need to Customize Tcl Commands

- Vivado itself contains a lot of useful Tcl commands which cover different applications
  - Project, Report, SDC, Simulation, Timing, Tools, etc.
- To customize Tcl commands can
  - Enrich Vivado Tcl container conveniently
  - Meet some personalized requirements simply
  - Reuse your own Tcl scripts effectively and easily

*Vivado provides a seamless interface to insert your own Tcl commands*

# Define Tcl Procedure

- Vivado Design Suite provides a full Tcl interpreter built into the tool
- Creating new custom commands and procedures is a simple task
  - You can write Tcl scripts that can be loaded and run from the Vivado IDE
  - You can write procedures (or procs), [to act like new Tcl commands](#)
- Tips
  - Tcl Procedure is recommended, which can enhance the efficiency of your Tcl code

DEMO