

# Shell Scripting with Bash

Introduction

Reindert-Jan Ekker  
<http://nl.linkedin.com/in/rjekker/>  
@rjekker



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# Overview

- What do I need shell scripting for?
- What to expect from this course
- Prerequisites

# Why Shell Scripting

- **Bash shell scripts**
  - Execute bash commands from a file
  - Automate sequences of shell commands
  - Run them later or at scheduled times
  - Take advantage of UNIX toolset
- **Who needs it?**
  - System administrators
  - Developers
  - Power users
- **Bash scripts are very good at:**
  - File manipulation
  - Running programs
  - Processing text
- **Sometimes other languages are better**
  - Examples: mathematical calculations, binary data, graphics

# In this course

- **All the basics of shell scripting**
  - I/O
  - Variables
  - Conditional execution (if, then, else, case)
  - Loops
  - Arithmetic
  - String manipulation
  - Handling script arguments
  - Shell functions
  
- **What's not in this course**
  - Portability to other shells
  - In-depth explanation of UNIX utilities

# Prerequisites

- **A basic knowledge of the Bash command-line**
  - Standard commands like cd, ls
  - Redirection
  - Pathname globbing
  - Bash introduction course
  
- **A system with Bash installed**
  - Bash 3 (Mac OS)
  - Bash 4 (Most current Linux distributions)