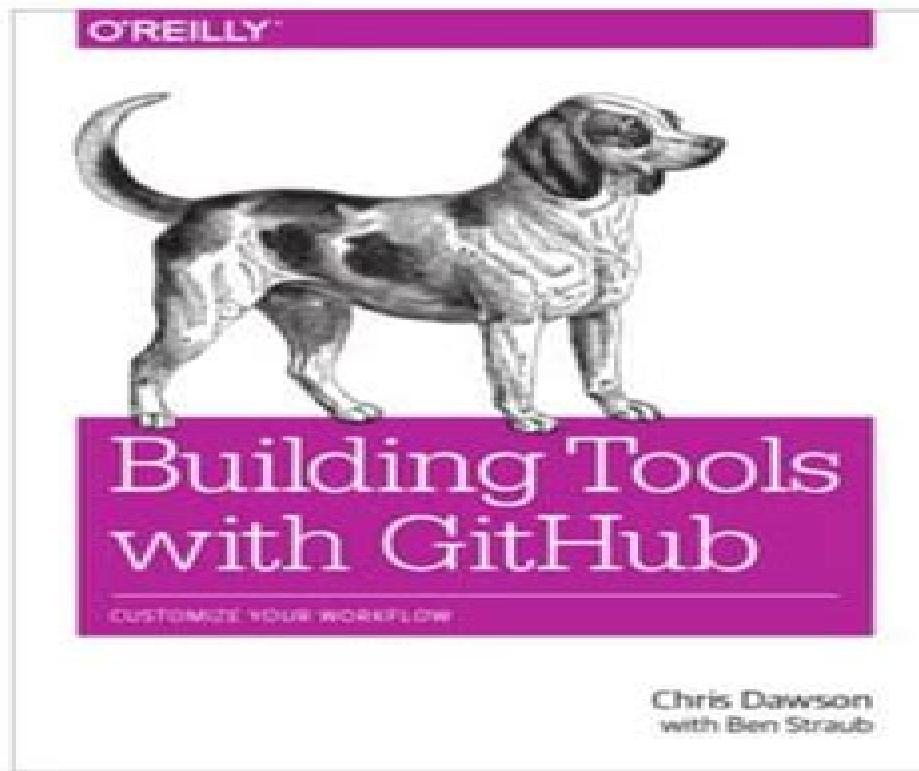


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# Building Tools With Github Customize Your Workflow

**Sam R. Alapati**

## **Building Tools With Github Customize Your Workflow:**

**Building Tools with GitHub** Chris Dawson (Computer programmer), Ben Straub, 2016 For your next project on GitHub take advantage of the service's powerful API to meet your unique development requirements. This practical guide shows you how to build your own software tools for customizing the GitHub workflow. Each hands-on chapter is a compelling story that walks you through the tradeoffs and considerations for building applications on top of various GitHub technologies. If you're an experienced programmer familiar with GitHub, you'll learn how to build tools with the GitHub API and related open source technologies such as Jekyll site builder, Hubot NodeJS chat robot, and Gollum wiki. Build a simple Ruby server with Gist API command line tools and Ruby's Octokit API client. Use the Gollum command line tool to build an image management application. Build a GUI tool to search GitHub with Python. Document interactions between third-party tools and your code. Use Jekyll to create a fully featured blog from material in your GitHub repository. Create an Android mobile application that reads and writes information into a Jekyll repository. Host an entire single page JavaScript application on GitHub. Use Hubot to automate pull request reviews.

*CI/CD Design Patterns* Garima Bajpai, Michel Schildmeijer, Muktesh Mishra, Paweł Piwosz, 2024-12-13 No detailed description available for CI CD Design Patterns

**Building Modern SaaS Web Applications with Bootstrap 5** Zvonimir Lokmer, 2025-08-28 TAGLINE Master Bootstrap 5 and Build Web Applications that Users will Love. KEY FEATURES Master responsive design and layouts with Bootstrap 5 components. Learn advanced customization for scalable high performance web apps. Improve UX by applying the best practices and real world examples. DESCRIPTION Bootstrap 5 plays a crucial role in modern web development by offering a powerful mobile first grid system, reusable UI components, and a flexible architecture that accelerates development without sacrificing design quality. Building Modern SaaS Web Applications with Bootstrap 5 is your practical guide to designing sleek, responsive, and scalable web interfaces using one of the most widely adopted front end frameworks today. This book walks you through a complete journey from Bootstrap fundamentals to building a fully responsive SaaS style application. You will start by mastering layout structures, typography, and interactive components. Then you will apply these skills to develop real world sections such as landing pages, pricing tables, feature showcases, testimonials, support sections, and blog layouts. Along the way, you will also learn how to apply UX/UI best practices, optimize performance, and ensure design consistency across devices. In the final section, you will unlock advanced customization techniques using SASS and learn how to extend Bootstrap for brand specific design systems. Thus, whether you are building internal tools, client facing dashboards, or launching your next SaaS product, this book equips you to create professional grade applications with confidence. So begin your journey today and build web applications your users will love. WHAT WILL YOU LEARN Design fully responsive web pages with Bootstrap 5 components. Customize UI with Bootstrap SASS and utility classes. Build practical SaaS app sections like pricing, testimonials, and blogs. Integrate UX best practices for user friendly conversion focused design. Improve performance and

scalability using advanced layout techniques Align frontend development with backend systems and project goals WHO IS THIS BOOK FOR This book is tailored for web developers UI UX designers and SaaS entrepreneurs seeking to build modern responsive web applications Readers should have a foundational understanding of HTML CSS and JavaScript Prior experience with Bootstrap is helpful but not essential as core concepts are introduced and built upon progressively TABLE OF CONTENTS 1 Introduction to Bootstrap 5 2 Core Concepts of Bootstrap s Grid System 3 Advanced Bootstrap 5 Techniques 4 Mastering Advanced Layouts and Utilities 5 Crafting Interactive Features 6 Building Advanced Forms and User Input 7 Performance Optimization Strategies 8 Starting Your Project 9 Designing the Hero Section 10 Building Feature and Benefit Sections 11 Designing the Pricing and Plans Section 12 Creating Trust with Testimonials and Case Studies 13 Building the Contact and Support Section 14 Building the Blog or Resource Section 15 Customizing Bootstrap 5 with SASS 16 Enhancing Your SaaS Application 17 Conclusion Index

### **Learn Docker in a Month of Lunches, Second Edition**

Elton Stoneman, 2025-10-14 Just the Docker you need to know in 22 bite sized lessons In Learn Docker in a Month of Lunches Docker expert Elton Stoneman guides through everything you need to know about Docker in 22 short lessons you can complete on your lunch break This freshly revised bestseller has been updated for modern tools and the latest versions of Linux Windows or Mac with new coverage of multi platform builds cloud container services replatforming legacy Windows apps and Kubernetes In Learn Docker in a Month of Lunches Second Edition you ll learn how to Run applications in Docker containers on Linux and Windows Package applications as Docker images and share them on registries Model and run distributed applications with Docker Compose and Kubernetes Add instrumentation to containerized applications Build and deploy apps with Docker in a CI CD process Docker revolutionized the way engineers build software By bundling an application together with all its dependencies in a portable container that can be deployed almost anywhere Docker makes it possible to manage applications without creating custom infrastructures Free open source and battle tested Docker has quickly become must know technology for developers and administrators About the Technology Docker is a set of powerful tools to bundle software components in safe portable containers you can drop wherever they re needed Whether you re deploying a pre built application creating a secure test environment or packaging microservices you re probably going to use Docker This book gets you up to speed with the Docker skills you need without the history theory and other blah blah you don t About the Book Learn Docker in a Month of Lunches Second Edition teaches you the most important Docker techniques in just 22 short hands on lessons Each chapter guides you through an essential concept complete with a self contained lab to practice your new skill You ll explore building Docker apps adding observability running databases in containers safely migrating legacy systems and more There s even a primer on using Kubernetes to manage your containers What s Inside 22 short lessons and labs you can complete in an hour or less Cloud migration microservices and handling legacy systems All examples work on Linux Windows and macOS About the Readers Developers administrators and DevOps all welcome About

the Author Elton Stoneman is a Docker Captain a multiyear Microsoft MVP and author of dozens of online training courses with Pluralsight and Udemy Table of Contents PART 1 1 Before you begin 2 Understanding Docker and running Hello World 3 Building your own Docker images 4 Packaging applications from source code into Docker images 5 Sharing images with Docker Hub and other registries 6 Using Docker volumes for persistent storage PART 2 7 Running multi container apps with Docker Compose 8 Supporting reliability with health checks and dependency checks 9 Adding observability with containerized monitoring 10 Running multiple environments with Docker Compose 11 Building and testing applications with Docker and Docker Compose PART 12 Running containers on different platforms 13 Replatforming the legacy Packaging and running Windows apps in Docker 14 Containers in the cloud with Microsoft Azure and Google Cloud 15 Kubernetes A primer 16 CI CD in the cloud with Docker and GitHub Actions PART 4 17 Optimizing your Docker images for size speed and security 18 Application configuration management in containers 19 Writing and managing application logs with Docker 20 Controlling HTTP traffic to containers with a reverse proxy 21 Asynchronous communication with a message queue 22 Never the end Get a free eBook PDF or ePub from Manning as well as access to the online liveBook format and its AI assistant that will answer your questions in any language when you purchase the print book *Beginning Facebook Game Apps Development* Wayne Graham, 2012-06-10 Today's Facebook is emerging to become tomorrow's operating system according to some Certainly a WebOS Web standards based apps using HTML5 JavaScript CSS3 and more are now possible on Facebook Why not get started with developing and selling Facebook game apps on Facebook's App Store *Beginning Facebook Game Apps Development* gets you started with building your first game apps that run on Facebook Become your own Zynga and create your own Civilization or Farmville and more Build rich Web based apps that you can sell on Facebook's App Store Because these apps are built on Web standards you can build and run on many browsers and more interestingly more computers tablets smartphones and even other devices and appliances that are Web connected or enabled **Go for DevOps** John Doak, David Justice, 2022-07-08 Achieve reliable release automation and get zero troublesome notifications on your release day Purchase of the print or Kindle book includes a free eBook in the PDF format Key Features Develop the skills to build command line tools to control thousands of nodes Use Go to create Terraform providers and GitHub actions and extend Kubernetes Gain the knowledge to build DevOps workflows that are understandable scalable and safe Book Description Go is the go to language for DevOps libraries and services and without it achieving fast and safe automation is a challenge With the help of Go for DevOps you'll learn how to deliver services with ease and safety becoming a better DevOps engineer in the process Some of the key things this book will teach you are how to write Go software to automate configuration management update remote machines author custom automation in GitHub Actions and interact with Kubernetes As you advance through the chapters you'll explore how to automate the cloud using software development kits SDKs extend HashiCorp's Terraform and Packer using Go develop your own DevOps services with gRPC and REST design system agents and build robust

workflow systems By the end of this Go for DevOps book you'll understand how to apply development principles to automate operations and provide operational insights using Go which will allow you to react quickly to resolve system failures before your customers realize something has gone wrong What you will learn Understand the basic structure of the Go language to begin your DevOps journey Interact with filesystems to read or stream data Communicate with remote services via REST and gRPC Explore writing tools that can be used in the DevOps environment Develop command line operational software in Go Work with popular frameworks to deploy production software Create GitHub actions that streamline your CI CD process Write a ChatOps application with Slack to simplify production visibility Who this book is for This book is for Ops and DevOps engineers who would like to use Go to develop their own DevOps tooling or integrate custom features with DevOps tools such as Kubernetes GitHub Actions HashiCorp Packer and Terraform Experience with some type of programming language but not necessarily Go is necessary to get started with this book

*Google Cloud Certified Professional Cloud Architect All-in-One Exam Guide* Iman Ghanizada, 2021-02-19 Everything you need to succeed on the Google Cloud Certified

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**Developer Associate All-in-One Exam Guide (Exam DVA-C01)** Kamesh Ganesan,2020-11-27 This effective self study system delivers complete coverage of every topic on the AWS Certified Developer Associate Exam Take the challenging AWS Certified Developer Associate Exam with confidence using the comprehensive information contained in this effective test preparation guide Written by an Amazon Web Services certified expert and experienced trainer AWS Certified Developer Associate All in One Exam Guide Exam DVA C01 covers every subject on the exam and clearly explains how to create deploy migrate monitor and debug cloud native applications Designed to help you pass the exam with ease this guide also serves as an ideal on the job reference Covers all topics on the exam including Getting started with AWS Journey AWS high availability and fault tolerance Working with cloud storage Authentication and authorization Creating SQL and NoSQL databases in AWS Cloud AWS application integration and management Developing cloud native applications in AWS Building deploying and debugging cloud applications Electronic content includes 130 practice questions Test engine containing full length practice exams and customizable quizzes

*Automating Workflows with GitHub Actions* Priscila Heller,2021-11-11 Build test and deploy code right from your GitHub repository by automating customizing and executing software development workflows with GitHub Actions Key FeaturesEnhance your CI CD and DevOps workflows using GitHub ActionsDiscover how to create custom GitHub Actions using Docker and JavaScriptGet up and running with building a CI CD pipeline effectivelyBook Description GitHub Actions is one of the most popular products that enables you to automate development tasks and improve your software development workflow Automating Workflows with GitHub Actions uses real world examples to help you automate everyday tasks and use your resources efficiently This book takes a practical approach to helping you develop the skills needed to create complex YAML files to automate your daily tasks You ll learn how to find and use existing workflows allowing you to get started with GitHub Actions right away Moving on you ll discover complex concepts and practices such as self hosted runners and writing workflow files that leverage other platforms such as Docker as well as programming languages such as Java and JavaScript As you advance you ll be able to write your own JavaScript Docker and composite run steps actions and publish them in GitHub Marketplace You ll also find instructions to migrate your existing CI CD workflows into GitHub Actions from platforms like Travis CI and GitLab Finally you ll explore tools that ll help you stay informed of

additions to GitHub Actions along with finding technical support and staying engaged with the community By the end of this GitHub book you ll have developed the skills and experience needed to build and maintain your own CI CD pipeline using GitHub Actions What you will learnGet to grips with the basics of GitHub and the YAML syntaxUnderstand key concepts of GitHub ActionsFind out how to write actions for JavaScript and Docker environmentsDiscover how to create a self hosted runnerMigrate from other continuous integration and continuous delivery CI CD platforms to GitHub ActionsCollaborate with the GitHub Actions community and find technical help to navigate technical difficultiesPublish your workflows in GitHub MarketplaceWho this book is for This book is for anyone involved in the software development life cycle for those looking to learn about GitHub Actions and what can be accomplished and for those who want to develop a new skill to help them advance their software development career If you are new to GitHub and GitHub Actions in general then this book is for you Basic knowledge of GitHub as a platform will help you to get the most out of this book

**Microsoft Certified Azure Fundamentals All-in-One Exam Guide (Exam AZ-900)** Jack Hyman,2021-08-27 A highly effective integrated self study system for the Microsoft Azure Fundamentals exam Prepare for the current version of the Microsoft Azure Fundamentals exam using the detailed information contained in this test preparation guide Written by a cloud computing expert and experienced author the book contains accurate practice questions step by step exercises and special elements that aid in learning and reinforce retention Microsoft Certified Azure Fundamentals All in One Exam Guide Exam AZ 900 features in depth coverage of every topic on the challenging exam You will explore core Azure services security compliance and trust Fulfilling the promise of the All in One series the guide serves as both a test preparation tool and an on the job reference for risk and compliance professionals 100% coverage of all objectives for the Microsoft Azure Fundamentals exam Contains hands on exercises and practical use cases for Microsoft Azure Online content includes practice exam software with 120 questions

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learn to build and package apps for production with various deployment options such as Heroku and more During the course of the book you will be introduced to microservice server side technologies and how to break your monolithic application with a database of your choice Next the book takes you through cloud deployment with microservices on Docker and Kubernetes Going forward you will learn to build your client side with React and master JHipster best practices By the end of the book you will be able to leverage the power of the best tools available to build modern web applications What you will learn Build business logic by creating and developing entity models us the JHipster Domain Language Customize web applications with Angular Bootstrap and Spring Tests and Continuous Integration with Jenkins Utilize the JHipster microservice stack which includes Netflix Eureka Spring Cloud config HashiCorp Consul and so on Understand advanced microservice concepts such as API rout load balancing rate limit circuit break centralized configuration server JWT authentication and more Run microservices locally using Docker and Kubernetes in production Who this book is for This book will appeal to developers who would like to build modern web applications quickly A basic knowledge of the Spring ecosystem would be an added advantage [GitHub Actions for Automated Workflows](#) Donald Pitt,2025-10-05

Are you tired of slow error prone deployments What if you could automate every build test and release without leaving GitHub Imagine cutting hours of manual work down to seconds all with a few lines of YAML Welcome to GitHub Actions for Automated Workflows your complete hands on guide to mastering one of the most powerful DevOps tools of the decade Whether you re a beginner exploring automation for the first time or a professional developer aiming to streamline enterprise pipelines this book shows you how to transform your workflow from manual chaos to seamless automation Inside you ll discover how to Build and customize CI CD pipelines that test build and deploy your applications automatically Integrate GitHub Actions with tools like Docker AWS Azure and Kubernetes Design secure scalable and efficient workflows for projects of any size Implement real world automation linting containerization cloud deployments and even MLOps pipelines Leverage the GitHub Actions Marketplace to supercharge your workflows with ready made automation solutions Avoid costly mistakes with expert security optimization and troubleshooting tips With clear explanations detailed examples and step by step hands on projects Donald Pitt turns complex DevOps principles into practical repeatable workflows that make your code ship faster and safer Whether you re managing personal projects scaling startup infrastructure or leading enterprise DevOps transformations this book will give you the confidence to automate smarter code better and deliver faster Key Features Build and deploy real CI CD pipelines for web apps APIs and microservices Learn advanced GitHub Actions techniques including reusable workflows matrix builds and OIDC authentication Includes practical hands on labs quizzes and real world case studies Covers modern DevOps integrations Docker AWS Lambda serverless and beyond Perfect for developers DevOps engineers and IT professionals seeking automation mastery [\*\*GitHub Essentials\*\*](#) Achilleas Pipinellis,2018-06-29 This book will teach you what you need to know to start using GitHub effectively for collaborating and working on your software projects Key

Features Effectively use GitHub by learning its key features to leverage the power of Git and make collaboration on code easy to work with Be more productive on the development workflow of your projects using the valuable toolset that GitHub provides Explore the world of GitHub by following simple step by step real world scenarios accompanied by helpful explanatory screenshots Book Description Whether you are an experienced developer or a novice learning to work with Version Control Systems is a must in the software development world Git is the most popular tool for that purpose and GitHub was built around it leveraging its powers by bringing it to the web Starting with the basics of creating a repository you will then learn how to manage the issue tracker the place where discussions about your project take place Continuing our journey we will explore how to use the wiki and write rich documentation that will accompany your project You will also master organization team management and some of the features that made GitHub so well known including pull requests Next we will focus on creating simple web pages hosted on GitHub and lastly we will explore the settings that are configurable for a user and a repository What you will learn Create and upload repositories to your account Create organizations and manage teams with different access levels on repositories Use the issue tracker effectively and add context to issues with labels and milestones Create access and personalize your user account and profile settings Build a community around your project using the sophisticated tools GitHub provides Create GitHub pages and understand web analytics Who this book is for This book is for experienced or novice developers with a basic knowledge of Git If you ever wanted to learn how big projects such as Twitter Google or even GitHub collaborate on code then this book is for you [Mastering GitHub Actions](#) Eric Chapman, 2024-03-22 Explore the full spectrum of GitHub Actions to unlock your team's potential and become a pro in no time Key Features Master GitHub events to foster a self-service mindset Elevate your GitHub Actions knowledge to a whole new level through real-world examples Learn how to integrate with popular cloud-based products within your workflows Purchase of the print or Kindle book includes a free PDF eBook Book Description Navigating GitHub Actions often leaves developers grappling with inefficiencies and collaboration bottlenecks Mastering GitHub Actions offers solutions to these challenges ensuring smoother software development With 16 extensive chapters this book simplifies GitHub Actions walking you through its vast capabilities from team and enterprise features to organization defaults self-hosted runners and monitoring tools You'll learn how to craft reusable workflows design bespoke templates publish actions incorporate external services and introduce enhanced security measures Through hands-on examples you'll gain best-practice insights for team-based GitHub Actions workflows and discover strategies for maximizing organization accounts Whether you're a software engineer or a DevOps guru by the end of this book you'll be adept at amplifying productivity and leveraging automation's might to refine your development process What you will learn Explore GitHub Actions features for team and business settings Create reusable workflows templates and standardized processes to reduce overhead Get to grips with CI/CD integrations code quality tools and communication Understand self-hosted runners for greater control of resources and settings Discover

tools to optimize GitHub Actions and manage resources efficiently Work through examples to enhance projects teamwork and productivity Who this book is for This book is for developers with a foundation in CI CD code quality tools and team communication keen on exploring GitHub Actions It's ideal for DevOps engineers system administrators software developers IT specialists automation aficionados and university students focused on software integration and deployment Those familiar with GitHub's ecosystem will find this content insightful     *Hands-on GitHub Actions* Chaminda Chandrasekara,Pushpa Herath,2021-02-23 Implement continuous integration continuous delivery CI CD workflows for any application you develop through GitHub Actions This book will give you an in depth idea of implementation patterns solutions for different technology builds guidelines to implement your own custom components as actions and usage of features available with GitHub Actions workflows to set up CI CD for your repositories Hands on GitHub Actions starts with an introduction to GitHub actions that gives an overview on CI CD followed by an introduction to its workflows Next you will learn how to use variables in a GitHub workflow along with tokens via a REST API Further you will explore artifacts and caching dependencies in GitHub and use artifacts in subsequent jobs Using self hosted runners is discussed next where you will set up your own hardware and software to run GitHub actions You will go through publishing packages and migrate to Azure DevOps Pipelines Along the way you will use Redis service and PostgreSQL service containers and create custom actions Finally you will work with GitHub apps and understand the syntax reference for GitHub Actions and workflows What You Will Learn Create workflows for any platform and any language with GitHub Actions Develop custom GitHub actions to enhance features and usage of database and service containers Use hosted runners and create self hosted runners for GitHub workflows Use GitHub Package registry with GitHub Actions to share and use packages Who This Book Is For DevOps teams who want to build quality CI CD workflows     **Github Essentials** Achilleas Pipinellis,2015-09-30 Unleash the power of collaborative development workflow using GitHub one step at a timeAbout This Book Effectively use GitHub by learning its key features that leverage the power of Git and make collaboration on code easy to work with Be more productive on the development workflow of your projects using the valuable toolset that GitHub provides Explore the world of GitHub by following simple step by step real world scenarios accompanied by helpful explanatory screenshotsWho This Book Is ForIntended for experienced or novice developers with a basic knowledge of Git If you ever wanted to learn how big projects like Twitter Google or even GitHub collaborate on code then this book is for youWhat You Will Learn Create and upload repositories to your account Create organizations and manage teams with different access levels on repositories Use effectively the issue tracker and add context to issues with labels and milestones Schedule and release versions of your software Work effectively with a team and collaborate on code Create access and personalize your user account and profile settings Build a community around your project using the sophisticated tools GitHub provides Build easy to deploy free of charge static websites for your projectsIn DetailWhether you are an experienced developer or a novice learning to work with Version Control Systems is a

**Github Essentials** Achilleas Pipinellis,2015-09-30 Unleash the power of collaborative development workflow using GitHub one step at a timeAbout This Book Effectively use GitHub by learning its key features that leverage the power of Git and make collaboration on code easy to work with Be more productive on the development workflow of your projects using the valuable toolset that GitHub provides Explore the world of GitHub by following simple step by step real world scenarios accompanied by helpful explanatory screenshotsWho This Book Is ForIntended for experienced or novice developers with a basic knowledge of Git If you ever wanted to learn how big projects like Twitter Google or even GitHub collaborate on code then this book is for youWhat You Will Learn Create and upload repositories to your account Create organizations and manage teams with different access levels on repositories Use effectively the issue tracker and add context to issues with labels and milestones Schedule and release versions of your software Work effectively with a team and collaborate on code Create access and personalize your user account and profile settings Build a community around your project using the sophisticated tools GitHub provides Build easy to deploy free of charge static websites for your projectsIn DetailWhether you are an experienced developer or a novice learning to work with Version Control Systems is a

must in the software development world Git is the most popular tool for that purpose and GitHub was built around it leveraging its powers by bringing it to the web Starting with the basics of creating a repository you will then learn how to manage the issue tracker the place where discussion about your project takes place Continuing our journey we will explore how to use the wiki and write rich documentation that will accompany your project Organization and team management will be the next stop and then onto the feature that made GitHub so well known Pull Requests Next we focus on creating simple web pages hosted on GitHub and lastly we explore the settings that are configurable for a user and a repository Style and approachA step by step guide with real world scenarios accompanied by helpful images Each topic is thoroughly explained with hands on examples and code where needed At the end of each chapter there is a Tips and tricks section presenting hidden or overlooked features of GitHub

[GitHub Actions in Action](#) Michael Kaufmann,Rob Ros,Marcel de

Vries,2024-12-10 Automate your build test and deploy pipelines using GitHub Actions Continuous delivery CI CD pipelines help you automate the software development process and maximize your team s efficiency GitHub Actions in Action teaches you to build real world build test and deploy pipelines in GitHub Actions through hands on labs and projects In GitHub Actions in Action you will learn how to Create and share GitHub Actions workflows Automate CI CD workloads and other GitHub tasks Secure release pipelines with secrets variables and environments Support compliance frameworks Create safe and scalable self hosted runners Written by three Microsoft MVPs and tech reviewed by a Staff DevOps Architect from GitHub this book delivers the hardworking skills and advice you ll need to be successful on the job DevOps engineers will love GitHub Actions in Action s coverage of reliable methods for Infrastructure as Code and automating cloud environments You ll follow an extended example application for selling tickets taking it all the way from initial build to cloud deployment Foreword by Scott Hanselman Purchase of the print book includes a free eBook in PDF and ePUB formats from Manning Publications About the technology Believe it or not CI CD can be simple With GitHub Actions you can automate your entire dev process using just the tools built into GitHub no external frameworks or complex integrations required GitHub Actions is secure reliable and best of all easy This book will get you started About the book GitHub Actions in Action teaches you how to build automated delivery pipelines in GitHub You ll start with simple examples that demonstrate workflow and action basics and then you ll dive into platform architecture security and workflow runtime details As you go you ll build a full CI CD pipeline optimizing for compliance performance and costs You ll even create shareable actions for the GitHub marketplace What s inside Create and share GitHub Actions workflows Automate testing and other GitHub tasks Secure release pipelines with secrets variables and environments About the reader For developers and DevOps engineers comfortable with GitHub About the author Michael Kaufmann is a Microsoft Regional Director and MVP Rob Bos is an Azure and GitHub Trainer a Microsoft MVP a GitHub Star and a LinkedIn Learning Instructor Marcel de Vries is a CTO of Xebia Microsoft Services Microsoft Regional Director and MVP The technical editor on this book was James Michael Gousset Table of Contents Part 1

1 Introduction to GitHub Actions 2 Hands on My first Actions workflow 3 Workflows 4 GitHub Actions Part 2 5 Runners 6 Self hosted runners 7 Managing your self hosted runners Part 3 8 Continuous integration 9 Continuous delivery 10 Security 11 Compliance 12 Improving workflow performance and costs

**GitHub Actions Cookbook** Michael Kaufmann,2024-04-30

Authored by a Microsoft Regional Director this book shows you how to leverage the power of the community driven GitHub Actions workflow platform to automate repetitive engineering tasks Key Features Automate CI CD workflows and deploy securely to cloud providers like Azure AWS or GCP using OpenID Create your own custom actions with Docker JavaScript programming or shell scripts and share them with others Discover ways to automate complex scenarios beyond the basic ones documented in GitHub Book Description Say goodbye to tedious tasks GitHub Actions is a powerful workflow engine that automates everything in the GitHub ecosystem letting you focus on what matters most This book explains the GitHub Actions workflow syntax the different kinds of actions and how GitHub hosted and self hosted workflow runners work You ll get tips on how to author and debug GitHub Actions and workflows with Visual Studio Code VS Code run them locally and leverage the power of GitHub Copilot The book uses hands on examples to walk you through real world use cases that will help you automate the entire release process You ll cover everything from automating the generation of release notes to building and testing your software and deploying securely to Azure Amazon Web Services AWS or Google Cloud using OpenID Connect OIDC secrets variables environments and approval checks The book goes beyond CI CD by demonstrating recipes to execute IssueOps and automate other repetitive tasks using the GitHub CLI GitHub APIs and SDKs and GitHub Token You ll learn how to build your own actions and reusable workflows to share building blocks with the community or within your organization By the end of this GitHub book you ll have gained the skills you need to automate tasks and work with remarkable efficiency and agility What you will learn Author and debug GitHub Actions workflows with VS Code and Copilot Run your workflows on GitHub provided VMs Linux Windows and macOS or host your own runners in your infrastructure Understand how to secure your workflows with GitHub Actions Boost your productivity by automating workflows using GitHub s powerful tools such as the CLI APIs SDKs and access tokens Deploy to any cloud and platform in a secure and reliable way with staged or ring based deployments Who this book is for This book is for anyone looking for a practical approach to learning GitHub Actions regardless of their experience level Whether you re a software developer a DevOps engineer anyone who has already experimented with Actions or someone completely new to CI CD tools like Jenkins or Azure Pipelines you ll find expert insights in this book Basic knowledge of using Git and command lines is a must

*GitHub For Dummies* Sarah Guthals,2023-01-27 Get more out of your coding with GitHub For today s coders GitHub is a must The world s largest software development platform GitHub helps developers store track and collaborate on software projects In this easy to follow Dummies guide you ll find insight into creating repositories establishing projects collaborating incorporating open source resources and establishing yourself as a valued member of the GitHub community With a working knowledge of

GitHub you'll be a better more employable programmer. The simple instructions and interactive examples in this book will get you there quickly. Get the instructions you need for using GitHub to collaborate on software projects. Become more attractive to employers with knowledge and experience in the largest development platform. Set up GitHub Desktop, create a repository and launch your first project. Use GitHub Skills courses to learn new tricks for beginners to pros. You've learned how to write a little code, now learn how to share it with GitHub.

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