Learning Selenium Testing Tools with Python

A practical guide on automated web testing with Selenium using Python

Unmesh Gundecha

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Learning Selenium Testing Tools With Python:

Learning Selenium Testing Tools with Python Unmesh Gundecha,2014-12-28 If you are a quality testing professional or a software or web application developer looking to create automation test scripts for your web applications with an interest in Python then this is the perfect guide for you Python developers who need to do Selenium testing need not learn Java as they can directly use Selenium for testing with this book *Learning Selenium Testing Tools with Python* Unmesh Gundecha,2015-02-13 A practical guide on automated web testing with Selenium using Python About This Book Write and automate tests for your applications with Selenium Explore the Selenium WebDriver API for easy implementations of small to complex operations on browsers and web applications Packed with easy and practical examples that get you started with Selenium WebDriver Who This Book Is For If you are a quality testing professional or a software or web application developer looking to create automation test scripts for your web applications with an interest in Python then this is the perfect guide for you Python developers who need to do Selenium testing need not learn Java as they can directly use Selenium for testing with this book In Detail Selenium WebDriver is a popular automated testing tool for web applications Python is one of the top programming languages and when used with Selenium it can automate and test web applications Using Python s unittest module you can write test cases in Selenium Over the years Selenium has become a very powerful testing platform and many organizations are adopting Selenium WebDriver for creating automated user interface tests The book s main aim is to cover the fundamentals related to Python Selenium testing You will learn how the Selenium WebDriver Python API can be integrated with CI and Build tools to allow tests to be run while building applications This book will guide you through using the Selenium WebDriver Python client library as well as other tools from the Selenium project Towards the end of this book you ll get to grips with Selenium Grid which is used for running tests in parallel using nodes for cross browser testing It will also give you a basic overview of the concepts while helping you improve your practical testing skills with Python and Selenium **Learning Selenium Testing Tools - Third Edition** Raghavendra Prasad MG,2015-02-24 If you are a software developer with a basic knowledge of testing and are interested in automated testing using Selenium this is the book for you No prior knowledge of Selenium is required **Selenium Testing Tools Cookbook** Unmesh Gundecha,2015-10-30 Over 90 recipes to help you build and run automated tests for your web applications with Selenium WebDriver About This Book Learn to leverage the power of Selenium WebDriver with simple examples that illustrate real world problems and their workarounds Explains the testing of mobile applications with Appium for mobile platforms such as iOS and Android A pragmatic manual with engaging recipes and attractive screenshots to test your web applications efficiently Who This Book Is For This book is intended for software quality assurance testing professionals software project managers or software developers with prior experience in using Selenium and Java to test web based applications This books also provides examples for C Python and Ruby users What You Will Learn Understand how the locators work and use various

locator methods to build reliable tests Build reliable and maintainable tests with the Selenium WebDriver API Use the PageFactory pattern to build a robust and easy to maintain test framework Build data driven tests and extend Selenium API to implement custom steps and checks Integrate and use ATDD BDD tools such as Cucumber SpecFlow Capybara and Behave with the Selenium WebDriver API Set up iPhone iPad and Android simulators and devices to test your mobile web application with Appium Set up Selenium Grid for faster and parallel running of tests increasing test coverage and reducing test execution time for cross browser testing Build extended Selenium WebDriver tests for additional coverage In Detail This book is an incremental guide that will help you learn and use the advanced features of the Selenium toolset including the WebDriver API in various situations to build a reliable test automation You start off by setting up the test development environment and gain tips on the advanced locater strategy and the effective use of the Selenium WebDriver API After that the use of design patterns such as data driven tests and PageFactory are demonstrated You will then be familiarised with extending Selenium WebDriver API by implementing custom tasks and setting up your own distributed environment to run tests in parallel for cross browser testing Finally we give you some tips on integrating Selenium WebDriver with other popular tools and testing mobile applications By the end of this book you will have learned enough to solve complex testing issues on your own Style and approach This recipe based guide covers real life scenarios of testing your web apps with Selenium Each recipe begins with a short introduction and key concepts along with illustrated examples of use cases and ends with detailed but informative descriptions of the inner workings of the example   Selenium Testing Tools Cookbook Second Edition Unmesh Gundecha,2015-10-30 Over 90 recipes to help you build and run automated tests for your web applications with Selenium WebDriverAbout This Book Learn to leverage the power of Selenium WebDriver with simple examples that illustrate real world problems and their workarounds Explains the testing of mobile applications with Appium for mobile platforms such as iOS and Android A pragmatic manual with engaging recipes and attractive screenshots to test your web applications efficientlyWho This Book Is ForThis book is intended for software quality assurance testing professionals software project managers or software developers with prior experience in using Selenium and Java to test web based applications This books also provides examples for C Python and Ruby users What You Will Learn Understand how the locators work and use various locator methods to build reliable tests Build reliable and maintainable tests with the Selenium WebDriver API Use the PageFactory pattern to build a robust and easy to maintain test framework Build data driven tests and extend Selenium API to implement custom steps and checks Integrate and use ATDD BDD tools such as Cucumber SpecFlow Capybara and Behave with the Selenium WebDriver API Set up iPhone iPad and Android simulators and devices to test your mobile web application with Appium Set up Selenium Grid for faster and parallel running of tests increasing test coverage and reducing test execution time for cross browser testing Build extended Selenium WebDriver tests for additional coverageIn DetailThis book is an incremental guide that will help you learn and use the advanced features of the Selenium

toolset including the WebDriver API in various situations to build a reliable test automation You start off by setting up the test development environment and gain tips on the advanced locater strategy and the effective use of the Selenium WebDriver API After that the use of design patterns such as data driven tests and PageFactory are demonstrated You will then be familiarised with extending Selenium WebDriver API by implementing custom tasks and setting up your own distributed environment to run tests in parallel for cross browser testing Finally we give you some tips on integrating Selenium WebDriver with other popular tools and testing mobile applications By the end of this book you will have learned enough to solve complex testing issues on your own Style and approachThis recipe based guide covers real life scenarios of testing your web apps with Selenium Each recipe begins with a short introduction and key concepts along with illustrated examples of use cases and ends with detailed but informative descriptions of the inner workings of the example *Learn Selenium* Unmesh Gundecha,Carl Cocchiaro,2019-07-18 Learn end to end automation testing techniques for web and mobile browsers using Selenium WebDriver AppiumDriver Java and TestNG Key FeaturesExplore the Selenium grid architecture and build your own grid for browser and mobile devicesUse ExtentReports for processing results and SauceLabs for cloud based test servicesUnlock the full potential of Selenium to test your web applications Book Description Selenium WebDriver 3 x is an open source API for testing both browser and mobile applications With the help of this book you can build a solid foundation and can easily perform end to end testing on web and mobile browsers You ll begin by being introduced to the Selenium Page Object Model for software development You ll architect your own framework with a scalable driver class Java utility classes and support for third party tools and plugins You ll design and build a Selenium grid from scratch to enable the framework to scale and support different browsers mobile devices and platforms You ll strategize and handle a rich web UI using the advanced WebDriver API and learn techniques to handle real time challenges in WebDriver You ll perform different types of testing such as cross browser testing load testing and mobile testing Finally you will also be introduced to data driven testing using TestNG to create your own automation framework By the end of this Learning Path you ll be able to design your own automation testing framework and perform data driven testing with Selenium WebDriver This Learning Path includes content from the following Packt products Selenium WebDriver 3 Practical Guide Second Edition by Unmesh GundechaSelenium Framework Design in Data Driven Testing by Carl CocchiaroWhat you will learnUse different mobile and desktop browser platforms with Selenium 3Use the Actions API for performing various keyboard and mouse actionsDesign the Selenium Driver Class for local remote and third party grid supportBuild page object classes with the Selenium Page Object ModelDevelop data driven test classes using the TestNG frameworkEncapsulate data using the JSON protocolBuild a Selenium Grid for RemoteWebDriver testingBuild and use utility classes in synchronization file I O reporting and test listener classesWho this book is for This Learning Path is ideal for software quality assurance testing professionals software project managers or software developers interested in using Selenium for testing their applications Professionals responsible for

designing and building enterprise based testing frameworks will also find this Learning Path useful Prior programming experience in Java are TestNG is necessary *Python Unit Test Automation* Ashwin Pajankar,2017-02-23 Quickly learn how to automate unit testing of Python 3 code with Python 3 automation libraries such as doctest unittest nose nose2 and pytest This book explores the important concepts in software testing and their implementation in Python 3 and shows you how to automate organize and execute unit tests for this language This knowledge is often acquired by reading source code manuals and posting questions on community forums which tends to be a slow and painful process Python Unit Test Automation will allow you to quickly ramp up your understanding of unit test libraries for Python 3 through the practical use of code examples and exercises All of which makes this book a great resource for software developers and testers who want to get started with unit test automation in Python 3 and compare the differences with Python 2 This short work is your must have quick start guide to mastering the essential concepts of software testing in Python What You ll Learn Essential concepts in software testing Various test automation libraries for Python such as doctest unittest nose nose2 and pytest Test driven development and best practices for test automation in Python Code examples and exercises Who This Book Is For Python developers software testers open source enthusiasts and contributors to the Python community *Selenium Testing Tools Cookbook* Unmesh Gundecha,2012-11-23 This is a cookbook packed with code examples and step by step instructions to ease your learning curve This book is intended for software quality assurance testing professionals software project managers or software developers with prior experience in using Selenium and Java for testing web based applications This book also provides examples for C Python and Ruby users **Selenium WebDriver 3 Practical Guide** Unmesh Gundecha,Satya Avasarala,2018-07-31 Selenium WebDriver 3 is the latest version used by many professionals for automated testing The book will guide you through various Selenium WebDriver APIs and provide solutions to the common challenges faced while using Selenium WebDriver You will learn to use remote WebDriver to run tests on remote machines for cross browser testing and **Selenium with Python - A Beginner's Guide** Pallavi R Sharma,2019-10-04 Step by step directions to get started with Selenium using Python as a programming language DESCRIPTION Selenium is the most popular open source test automation tool available in the market In the last decade its usage has dramatically increased in the IT sector across all types of organizations The reason for its popularity is mainly because it supports multiple programming languages test executions on multiple browsers and operating systems In this book we will learn about the different components of Selenium We will discuss the concepts of WebDriver and learn how to apply test automation concepts with it to automate the testing of our application We will learn the process of recognizing the test objects on the screen and writing Selenium commands using Python as a programming language We will also discuss how to use design patterns like the page object mode and data driven testing to ensure building a robust test framework which is modular and scalable in nature KEY FEATURES Get introduced to the world of Selenium Understand the concept of locators in Selenium Learn how to write scripts using

Selenium WebDriver in Python Learn the concepts of synchronization Learn how to handle different HTML elements like form table alert frame and dropdown Learn about design patterns like the page object model data driven tests and adding assertions WHAT WILL YOU LEARN The objective is to introduce the world of Selenium to a manual tester who knows Python as a programming language You will learn to demystify the concept of identifying test objects and writing Selenium commands to create robust test scripts This book will help learn to automate different HTML elements which we come across in the web applications we need to test You will understand how to build a good test suite by learning the concept of design patterns like the page object model and data driven tests to ensure maintainability of code WHO THIS BOOK IS FOR This book is for people who have experience in manual testing and knowledge in Python as a programming language This book will also be helpful for a developer who knows Python as a programming language and is looking for test automation as a career option Table of Contents 1 Selenium Important Conceptual Background 2 Selenium IDE 3 Locators in Selenium 4 Installation and Setup 5 Selenium WebDriver 6 Unit Test Creation n Python 7 Synchronizing Tests 8 Parameterization of Tests 9 Handling Different Web Elements 10 Working with Frames 11 Concept of the Page Object Model 12 Implementing Selenium Grid   **Selenium Python Framework Design in Keyword-Driven Testing** Chaubal Pinakin Ashok,2020-04-10 An easy to understand guide that will get you acquainted with the core concepts of Selenium WebDriver Key Featuresa Understand and work with the core concepts of Selenium WebDriver 3 0a Learn how to design a Keyword driven framework with Database a Find how to use Build triggers in Jenkins to automate tests DescriptionThe book starts by introducing the Selenium WebDriver 3 and Selenium Server by covering each aspect of it in detail You will learn different concepts like instances and how instances relate to browser sessions You will further explore the new features in Java 8 with the help of easy to follow examples Moving on you will create a Singleton class for fetching WebDriver instances and then explore the different kinds of waits in Selenium You will then delve into the advanced WebDriver interactions using the Actions class and the JavascriptExecutor You will then understand the various database operations which will help you with using the MySQL database to store our framework Next you will go through the TestNG framework followed by parallel execution Further you will use Maven as a build tool and Jenkins as a build automation tool You will go through the working of Selenium Grid along with Mobile automation Lastly you will be taken through Selenium 4 and it s AI integrated features What will you learna Learn the process of building a Selenium Framework a Understand the Keyword Driven Framework concept a Work with Document Object Model to access page elementsa Integrate Maven and Jenkins with Selenium WebDrivera Use Selenium Grid to run multiple tests across Who this book is forThis book has been designed for Automation developers who would like to build a Keyword Driven framework that fetches keywords from Database It is also intended for audiences who are interested in understanding Selenium and designing a framework Table of Contents1 First look at Selenium WebDriver and Web Elements 2 Looking at the various WebDrivers3 A brief look at Java 84 Deep dive into Selenium WebDriver5 Actions

class and the JavascriptExecutor6 WebDriver Events7 Database Operations8 Introduction to TestNG framework9 Parallel Execution10 Understanding Maven11 Jenkins Introduction and Scheduling12 Selenium grid and executing in the cloud13 Mobile test automation using Appium14 A look at Selenium 4About the AuthorPinakin Chaubal a BE Computer Science with 19 years of experience in the IT area He has done PMP ISTQB HP0 M47 QTP 11 0 Functional testing expert and INS 21 General Insurance He is working as an Automation Architect at Intellect Design Arena Ltd Previously Polaris Consulting Previously he has worked with companies like Patni Accenture ACS International USA L T Infotech USA India Polaris Financial Technology and SQS He carries six years of onsite experience in the US and eight months in Hong Kong China working closely with the client and getting involved in senior management and stakeholder meetings The clients that he has worked for are YES Bank HSBC Travelers Insurance Harleysville Insurance Albertsons retail chain Bellsouth Telecommunications GE Fleet Services and GE Supply He is the creator of Youtube channel Automation Geek which teaches PMP ISTQB Test Automation using Selenium and Cucumber and Performance testing using JMeter 3 0 He is the author of Page Object Model using Selenium WebDriver and Java and Selenium WebDriver Quick Start Guide He is also the reviewer of the newly released book on Selenium Frameworks Selenium Framework Design in Data Driven Testing by Carl Cocchiaro

  Appium Recipes Shankar Garg,2016-11-21 Learn how Appium is implemented in Java and integrated with tools such as TestNG Cucumber Maven Jenkins and Selenium Grid to create test automation frameworks With these frameworks you can test mobile apps on simulators or real devices and create CICD pipelines This brief book focuses on using Appium for automation on both Android and iOS platforms Appium Recipes illustrates test automation framework and Cloud Test Lab scenarios that will empower you to take full advantage of Appium s critical features to achieve continuous integration and deployments in your live projects Readers will also learn about mobile specific actions such as Swipe Scroll and Tap and mobile specific locators such as iOSUIAutomator What You ll Learn Set up Appium for mobile Web and Hybrid App Automation Use mobile specific actions such as Swipe Scroll and Tap Work with mobile specific locators such as iOSUIAutomator Integrate Appium with Selenium Grid and Cloud Test Labs such as Perfecto and Sauce Labs Who This Book Is For Readers familiar with the basic concepts of test automation mobile landscape core java programming basic and maven and Appium   *Debugging Machine Learning Models with Python* Ali Madani,2023-09-15 Master reproducible ML and DL models with Python and PyTorch to achieve high performance explainability and real world success Key Features Learn how to improve performance of your models and eliminate model biases Strategically design your machine learning systems to minimize chances of failure in production Discover advanced techniques to solve real world challenges Purchase of the print or Kindle book includes a free PDF eBook Book DescriptionDebugging Machine Learning Models with Python is a comprehensive guide that navigates you through the entire spectrum of mastering machine learning from foundational concepts to advanced techniques It goes beyond the basics to arm you with the expertise essential for building reliable high

performance models for industrial applications Whether you re a data scientist analyst machine learning engineer or Python developer this book will empower you to design modular systems for data preparation accurately train and test models and seamlessly integrate them into larger technologies By bridging the gap between theory and practice you ll learn how to evaluate model performance identify and address issues and harness recent advancements in deep learning and generative modeling using PyTorch and scikit learn Your journey to developing high quality models in practice will also encompass causal and human in the loop modeling and machine learning explainability With hands on examples and clear explanations you ll develop the skills to deliver impactful solutions across domains such as healthcare finance and e commerce What you will learn Enhance data quality and eliminate data flaws Effectively assess and improve the performance of your models Develop and optimize deep learning models with PyTorch Mitigate biases to ensure fairness Understand explainability techniques to improve model qualities Use test driven modeling for data processing and modeling improvement Explore techniques to bring reliable models to production Discover the benefits of causal and human in the loop modeling Who this book is forThis book is for data scientists analysts machine learning engineers Python developers and students looking to build reliable high performance and explainable machine learning models for production across diverse industrial applications Fundamental Python skills are all you need to dive into the concepts and practical examples covered Whether you re new to machine learning or an experienced practitioner this book offers a breadth of knowledge and practical insights to elevate your modeling skills   **Advanced Information Networking and Applications** Leonard Barolli,Farookh Hussain,Tomoya Enokido,2022-03-30 This book covers the theory design and applications of computer networks distributed computing and information systems Networks of today are going through a rapid evolution and there are many emerging areas of information networking and their applications Heterogeneous networking supported by recent technological advances in low power wireless communications along with silicon integration of various functionalities such as sensing communications intelligence and actuations is emerging as a critically important disruptive computer class based on a new platform networking structure and interface that enable novel low cost and high volume applications Several of such applications have been difficult to realize because of many interconnections problems To fulfill their large range of applications different kinds of networks need to collaborate and wired and next generation wireless systems should be integrated in order to develop high performance computing solutions to problems arising from the complexities of these networks The aim of the book Advanced Information Networking and Applications is to provide the latest research findings innovative research results methods and development techniques from both theoretical and practical perspectives related to the emerging areas of information networking and applications   **Future Data and Security Engineering. Big Data, Security and Privacy, Smart City and Industry 4.0 Applications** Tran Khanh Dang,Josef Küng,Tai M. Chung,2023-11-17 This book constitutes the proceedings of the 10th International Conference on Future Data and Security Engineering Big

Data Security and Privacy Smart City and Industry 4 0 Applications FDSE 2023 held in Da Nang Vietnam during November 22 24 2023 The 38 full papers and 8 short papers were carefully reviewed and selected from 135 submissions They were organized in topical sections as follows big data analytics and distributed systems security and privacy engineering machine learning and artificial intelligence for security and privacy smart city and industry 4 0 applications data analytics and healthcare systems and short papers security and data engineering **Python Microservices Development** Simon Fraser,Tarek Ziadé,2021-09-30 Use Python microservices to craft applications that are built as small standard units using proven best practices and avoiding common errors Key FeaturesBecome well versed with the fundamentals of building designing testing and deploying Python microservicesIdentify where a monolithic application can be split how to secure it and how to scale it once ready for deploymentUse the latest framework based on asynchronous programming to write effective microservices with PythonBook Description The small scope and self contained nature of microservices make them faster cleaner and more scalable than code heavy monolithic applications However building microservices architecture that is efficient as well as lightweight into your applications can be challenging due to the complexity of all the interacting pieces Python Microservices Development Second Edition will teach you how to overcome these issues and craft applications that are built as small standard units using proven best practices and avoiding common pitfalls Through hands on examples this book will help you to build efficient microservices using Quart SQLAlchemy and other modern Python tools In this updated edition you will learn how to secure connections between services and how to script Nginx using Lua to build web application firewall features such as rate limiting Python Microservices Development Second Edition describes how to use containers and AWS to deploy your services By the end of the book you ll have created a complete Python application based on microservices What you will learnExplore what microservices are and how to design themConfigure and package your code according to modern best practicesIdentify a component of a larger service that can be turned into a microserviceHandle more incoming requests more effectivelyProtect your application with a proxy or firewallUse Kubernetes and containers to deploy a microserviceMake changes to an API provided by a microservice safely and keep things workingIdentify the factors to look for to get started with an unfamiliar cloud providerWho this book is for This book is for developers who want to learn how to build test scale and manage Python microservices Readers will require basic knowledge of the Python programming language the command line and HTTP based application principles No prior experience of writing microservices in Python is assumed *Python Microservices Development* Tarek Ziadé,2017-07-25 A practical approach to conquering the complexities of Microservices using the Python tooling ecosystem Key Features A very useful guide for Python developers who are shifting to the new microservices based development A concise up to date guide to building efficient and lightweight microservices in Python using Flask Tox and other tools Learn to use Docker containers CoreOS and Amazon Web Services to deploy your services Book DescriptionWe often deploy our web applications into the cloud and our code needs to interact

with many third party services An efficient way to build applications to do this is through microservices architecture But in practice it s hard to get this right due to the complexity of all the pieces interacting with each other This book will teach you how to overcome these issues and craft applications that are built as small standard units using all the proven best practices and avoiding the usual traps It s a practical book you ll build everything using Python 3 and its amazing tooling ecosystem You will understand the principles of TDD and apply them You will use Flask Tox and other tools to build your services using best practices You will learn how to secure connections between services and how to script Nginx using Lua to build web application firewall features such as rate limiting You will also familiarize yourself with Docker s role in microservices and use Docker containers CoreOS and Amazon Web Services to deploy your services This book will take you on a journey ending with the creation of a complete Python application based on microservices By the end of the book you will be well versed with the fundamentals of building designing testing and deploying your Python microservices What you will learn Explore what microservices are and how to design them Use Python 3 Flask Tox and other tools to build your services using best practices Learn how to use a TDD approach Discover how to document your microservices Configure and package your code in the best way Interact with other services Secure monitor and scale your services Deploy your services in Docker containers CoreOS and Amazon Web Services Who this book is for This book is for developers who have basic knowledge of Python the command line and HTTP based application principles and those who want to learn how to build test scale and manage Python 3 microservices No prior experience of writing microservices in Python is assumed **Practical Amazon EC2, SQS, Kinesis, and S3** Sunil Gulabani,2017-06-21 Provide solutions to all your Amazon EC2 SQS Kinesis and S3 problems including implementation using the AWS Management Console AWS CLI and AWS SDK Java You ll find recipes on implementation and configuration of Amazon EC2 SQS Kinesis and S3 along with the code snippets and AWS CLI commands Practical Amazon EC2 SQS Kinesis and S3 uses focused examples that include only the details you need to get things done You ll see production use cases of Amazon EC2 SQS Kinesis and S3 and how to implement cloud watch in projects for these services Learn how to raise an alarm on Amazon EC2 SQS Kinesis and S3 as part of a continuous monitoring system designed to increase performance and avoid side effects in your services What You ll Learn Manage Amazon EC2 SQS Kinesis and S3 using the AWS Management Console Use the AWS CLI Employ the AWS Java SDK Configure alarms on Amazon EC2 SQS Kinesis and S3 Who This Book Is For Software developers and architects system engineers and project managers **Scaling Big Data with Hadoop and Solr - Second Edition** Hrishikesh Vijay Karambelkar,2015-04-27 This book is aimed at developers designers and architects who would like to build big data enterprise search solutions for their customers or organizations No prior knowledge of Apache Hadoop and Apache Solr Lucene technologies is required **Python for Beginners** Kuldeep Singh Kaswan,Jagjit Singh Dhatterwal,B Balamurugan,2023-03-17 Python is an amazing programming language It can be applied to almost any programming task It allows for rapid development and debugging Getting started

with Python is like learning any new skill it s important to find a resource you connect with to guide your learning Luckily there s no shortage of excellent books that can help you learn both the basic concepts of programming and the specifics of programming in Python With the abundance of resources it can be difficult to identify which book would be best for your situation Python for Beginners is a concise single point of reference for all material on python Provides concise need to know information on Python types and statements special method names built in functions and exceptions commonly used standard library modules and other prominent Python tools Offers practical advice for each major area of development with both Python 3 x and Python 2 x Based on the latest research in cognitive science and learning theory Helps the reader learn how to write effective idiomatic Python code by leveraging its best and possibly most neglected features This book focuses on enthusiastic research aspirants who work on scripting languages for automating the modules and tools development of web applications handling big data complex calculations workflow creation rapid prototyping and other software development purposes It also targets graduates postgraduates in computer science information technology academicians practitioners and research scholars

The Enigmatic Realm of **Learning Selenium Testing Tools With Python**: Unleashing the Language is Inner Magic

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