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| Selenium RC | WebDriver |
| Requires Selenium server to be up and running Selenium Selenium server acts as a middleman between the browser and Selenese commands | Controls the browser from the OS level. Hence the architecture is simple than RC |
| Cannot test mobile Applications | Can test mobile Applications |
| Dictionary based API with all methods exposed to single class | Purely object oriented |
| Introduction to WebDriver & Comparison with Selenium RC | Introduction to WebDriver & Comparison with Selenium RC |
| Slow | Fast |
| Complex API | Simple API |
| Does not Support Headless automation | Supports Headless Automation |
| Has Reporting ability | No built in command for Reporting |
| Issues in moving from HTTP to HTTPS site | Resolved |
| Single API for all Browsers | Different drivers for different browsers |