

# What Makes TestDrive Superior Video Transcript

TestDrive is our automated software quality solution that provides automated regression testing that is dynamic and flexible, requires much less maintenance, is truly code free, is easy to maintain, covers the widest technologies and is unique in its approach.

So, let's review the top six concepts that makes TestDrive automation superior.

**Number one- patented user interface annotation.** The objects near application are automatically recognised by examining the visible user interface so they are easy to identify. The labels next to the fields are used to annotate them. So as shown here, each field is annotated with a common sense readable name. It also works with tables giving good names for cells so it doesn't matter if data is presented in different rows. This makes the scripts more readable and more importantly makes automation less sensitive to application changes. This means your scripts will require less maintenance while making them easy to understand.

**Number two- automatic playback speed throttling.** A common issue automation has to address is how fast to execute a test. More often than not the addition of pauses or complicated code based schemes to wait on the application being tested is needed. If not a slow to respond application will cause the automation to fail. This is a pervasive and common problem all other application automation tools have. These scripts are littered with lots of extra stuff that have nothing to do with the testing at hand, it makes for a complicated mess that's hard to read and maintain. TestDrive automatically adjusts its execution speed using our busy sense technology. The scripts you create with TestDrive will automatically play as fast as it can but never too fast, it doesn't matter if your application slows down or speeds up, TestDrive keeps things humming along automatically. In looking at the TestDrive automation you'll see that it's all automatic, there's no code to write or manage, the scripts that you create and maintain are easy to read.

**Number three- code free creation and maintenance.** We are the pioneers of truly code-free automation, we don't generate code, you don't write code, this is true for the initial creation and more importantly is true for when you need to make changes. No diving into the code because there is no code. Here's a typical TestDrive script: see how it is intuitive and shows each action in plain english. A drag-and-drop interface and intuitive but powerful suite of features enables robust automation without code. Notice here in the script the user interface annotation described earlier and the automatic busy sense make the readability and maintenance of the scripts much clearer and easier to understand.

**Number four- cross-platform and end-to-end testing.** Watch TestDrive easily produce automation that moves from any application to another in a seamless, consistent way, no need to use different tools and approaches. One tool, one consistent intuitive approach. Take modular reusable scripts from different applications and add them to an automation playlist, easily grab information presented in one application and use it for dynamic input on subsequent applications. This provides the easiest and most robust way to produce true end to end test automation. Here's an example of how easy it is to take variables that have been captured from previous groups and drag them into an input on a subsequent script. So now that we've assembled a playlist comprised of scripts that touch different applications, let's go ahead and run it. It starts off running the green-screen script, it grabs the order number, then launches the GUI application and uses that same order number to do an order inquiry and looking at the results of the run you can see that on screen 10 I grabbed order number 109, saved that into a track variable and used that as a means to change the dynamic input on the GUI application and use the same order 109 in the playback.

**Number five- full content analysis.** When performing automated validation, it's critical that all the objects on the screen are analysed and catalogued, other tools force you to predefine upfront explicitly the objects to be referenced and maintain them in an object repository but with TestDrive all the objects on every screen are automatically analysed and catalogued. Besides the fact that this makes things much easier to build and maintain automation it also means that automation scripts can be reused for multiple tests because the objects of interest for one test may be different from the objects of interest for another test. Full content analysis is made every time a script is recorded and when it's played back, here's an example of a script being recorded and after this script is saved you can see that it's got all of the content for every object fully catalogued. As an example, a picklist shown here as content and that has been captured as part of the analysis.

**Number six- robust validation and reporting.** Building on the full content analysis discussed previously, TestDrive automatically matches all of the fully analysed objects for each screen to enable comparisons of what's expected versus what's actually happening during the execution. This provides the easy means to automatically compare and report on differences. Code free checking rules are used to specify exactly what and how the comparisons are made. You can even make comparisons of specific individual test runs so you have the power of defining baselines for comparison automatically and again it's all code free and simple. Here's version 2 on the fun times toy application, it's got some slight changes made to it, the picklist and some other cosmetic changes to the user interface. So, let's now run the automation against this changed application. This automation will use a checking rule to automatically define what it is going to compare. As the script executes it does the full content analysis again and this information is available for comparison purposes. Examining the details of that automation run, we can see the actual and the expected side by side. In each screen that has anything highlighted as an error will be shown with a little red dot. Drilling into that shows the side by side comparison and actually shows the error that were identified as differences between the matched elements. You can see here the picklist had Asia and the expected and the actual have APAC. In addition to finding differences it can also find elements that are missing or added to the screens. Here are some examples of elements that were added to the screen that weren't in the expected. Now let's produce a report of this run. Very robust reporting is available that shows you everything that

happened during the automation run, side by side comparisons of the screens, performance characteristics. See here how the checking rule that's been applied produces validation errors and warnings.

So, the top six concepts reviewed are user interface annotation, automatic playback speed throttling, code-free creation and maintenance, cross-platform end-to-end testing, full content analysis and robust validation and reporting.

Thank you for viewing this demonstration if you have any questions please get in touch.

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