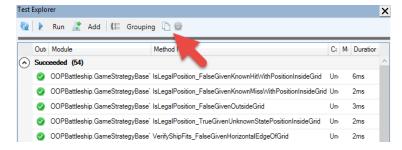


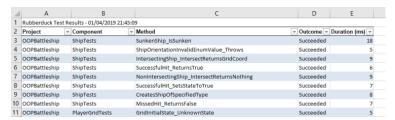
Code Insights with Rubbarduck + Excel

Posted on January 5, 2019 by Rubberduck VBA

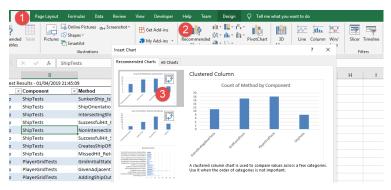
You're writing a rather large VBA/VB6 project, and you're starting to have a sizable amount of passing unit tests. Did you know you can copy the test results to the clipboard with a single click?



...and then paste them onto a new worksheet and turn it into a data table:

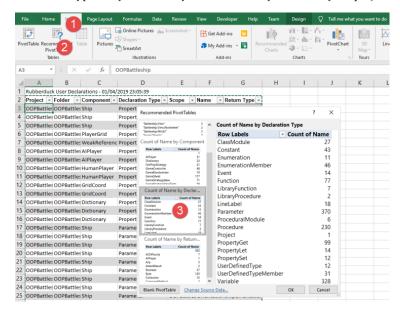


If you're not sure what to do next, you can even let Excel give you ideas - you'll find the Recommended Charts button under the Insert Ribbon tab:

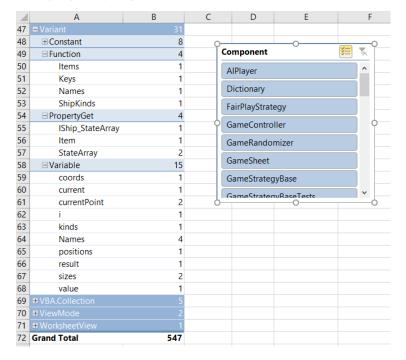


With the *count of method by component* chart, we can see what test modules have more test methods; the *sum of duration by component* chart can show us which test modules take the longer to execute – or we could average it across *test categories*, or archive test results and later aggregate them... and then use this data to performance-profile problematic test scenarios.

Similarly, the "Copy to Clipboard" button from the Code Explorer can be used to export a table into Excel, and using the recommended pivot tables feature, we can get a detailed breakdown of the project – for example count of names by declaration type creates a pivot table that lists all Rubberduck declaration types, so you can easily know how many line labels your project has, or how many Declare Function imports are used:



With a little bit of filtering and creativity, we can regroup all *Constant*, *Function*, *PropertyGet* and *Variable* declarations by return type, and easily identify, say, everything that returns a Variant:



The possibilities are practically endless: the data could be timestamped and exported to some Access or SQL Server database, to feed some dashboard or report showing how a project grows over time.

How would you analyze your VBA projects? What *code metrics* would you like to be able to review and pivot like this? Share your ideas, or implement them, and send a pull request our way!



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Published by Rubberduck VBA

I'm Mathieu Guindon (Microsoft MVP Office Apps & Services, 2018), you may have known me as "Mat's Mug" on Stack Overflow and Code Review Stack Exchange. I manage the Rubberduck open-source project, whose goal is to bring the Visual Basic Editor (VBE) - VBA's IDE - into the 21st century, by providing features modern IDE's provide. <u>View all posts by Rubberduck VBA</u>