

Flexibility of Keywords

US Robot Framework Community Webinars - January 28, 2021
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My background

- I'm currently working as a Principal QA Engineer at Secureworks.
 - <https://www.secureworks.com/>
- I have been a tester for approximately 14 years, in agency and product companies.
- I enjoy experimenting with test tools, and learning more about [Rapid Software Testing](#) methodology.
 - <https://www.satisfice.com/rapid-testing-methodology>
- I'm also a part-time writer.
 - <https://leanpub.com/toolstrategiesforonetesters>
- I like considering myself as simply a tester.

Some history, an article from 2004...

“Process begins with a **test designer** writing a test”

“The real benefit is the improved maintainability of the test scripts”

Keyword-driven Testing, Danny R. Fought, November 2004

<https://www.stickyminds.com/article/keyword-driven-testing>

Keyword-driven Approach

In testing and RPA (Robotic Process Automation).

- Keyword-driven approach has been around the testing industry for at least 17 years.
 - ... Possibly longer.
- “Action word” is a similar concept, and way of thinking about it.
- Can help you focus more on designing tests.
 - ... Hopefully you consider your product risks as you do it

Keyword-driven Approach

In testing and RPA (Robotic Process Automation).

- Maintainable, readable, accessible, adaptable etc.
 - Non-technical and technical team members should be able to understand the tests written with this approach.
 - Terse, straight-forward plain english, natural language, with no additional extra DSL needed.
- You are probably in a small team, and “wear multiple hats”.
 - Keywords can help you experiment quickly in a project with rapidly changing context.
- If you are comfortable with keywords in your test strategy, that mindset is easily transferred to applying keywords in RPA.

Some people may think...

“Sounds good in theory but...
What is the gist of a Keyword-driven approach?
I am new. How do I start from nothing?”



Identify Your Automation Goals

Think about your goals, consider breaking them down into parts, and basing them on project risks.

- Try building a list of repetitive challenges or high priority testing goals, based on your work environment or project.
- Map out each of those challenges or tasks into your own outlines, and be descriptive about the steps and procedures that feed them.
- For example, your outlines could look similar to the following.

First Outline Title: High-level goal of these tasks

Description of the first repetitive task

[Risk Level] High

Step one for this first task

Step two for this first task

... etc.

Description of the second repetitive task

[Risk Level] Low

Step one for this second task

Step two for this second task

... etc.

Second Outline Title:... etc.

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Reliable Frameworks Can Help You

Robot Framework is a well maintained, adaptable, and accessible Keyword Driven Testing and automation framework

- The following example is based on the outlines from the previous slide.
- This is written in **Robot Framework's natural language syntax**.
 - <https://robotframework.org/#examples>

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***** Settings *****

Documentation High-level goal of these tasks

***** Test Cases *****

Description of the first repetitive task

[Tags] High Risk Level

Step one for this first task

Step two for this first task

Description of the second repetitive task

[Tags] Low Risk Level

Step one for this second task

Step two for this second task

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Demonstrations

First Demo/Walkthrough: Robot Framework in your testing, it's **much more** than just “browser automation”

Second Demo/Walkthrough: Using Robot Framework **RPA for fun**, and **possibly** a little **crypto profit**



.... Also, this is my humble little mining set up.



Summary

Flexibility of Keywords

- Keyword-driven approach is not limited to just the testing industry anymore
- RPA is an industry growing in popularity
 - Keyword-driven tester experience is reusable in RPA roles
- Robot Framework has contributed a lot to testing and RPA
 - <https://robotframework.org/>

The automation examples for this session can be found here.

- <https://github.com/jg8481/Tool-Strategies-Lone-Testers-Test-Leadership-Congress-2019/tree/master/Workshop-Examples/Shared-Resources/General-Purpose-RPA-Toolkits>

Additional RPA examples combined with a conversational AI assistant can be found here.

- <https://github.com/jg8481/leon/tree/develop/packages/robotframework-test-assistant>



Questions?