

Stacking The Automation Deck



Magenic // Fast Forward

#STPCon

@pgrizzaffi

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Who Is This Guy?

Paul Grizzaffi

Principal Automation Architect at Magenic

Career focused on automation

Advisor

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Advanced Research Center for STQA at UT Dallas







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Where Is This Guy?

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Plan To Write Your Own Framework?

DON'T

At the very least, don't start there

Stack The Deck



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LIVE

breakyourownnews.com

BREAKING NEWS

AUTOMATION DECLARED SOFTWARE

22:03 "DOGS AND CATS LIVING TOGETHER...MASS HYSTERIA" - DR. P. VENKMAN | "40 YEARS

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What's A Framework?

“a skeletal, openwork, or structural frame”*

“A framework calls you”**



* Merriam-Webster
** Attribution unknown

What's A Stack?

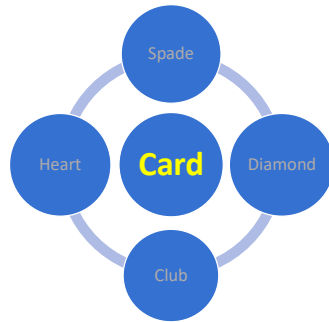
“an orderly pile or heap” *

Not the “classic” computer science definition

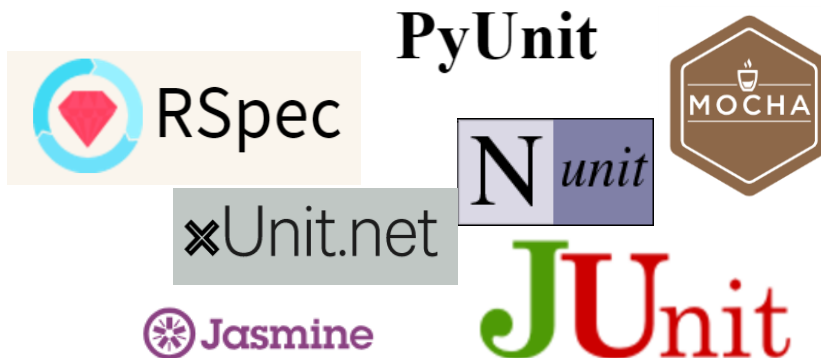


* Merriam-Webster

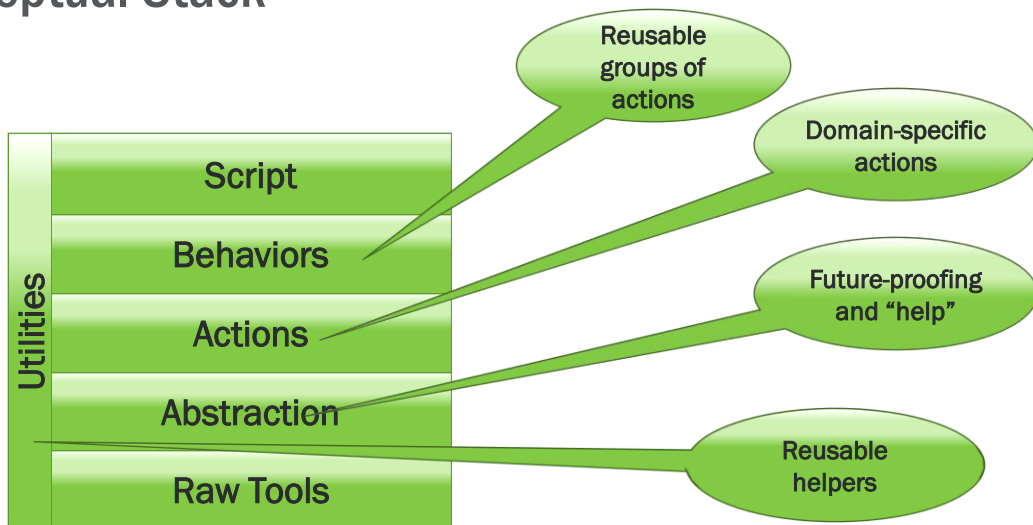
Why A Stack?



Why Not A Framework?



Conceptual Stack



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A Stack Example



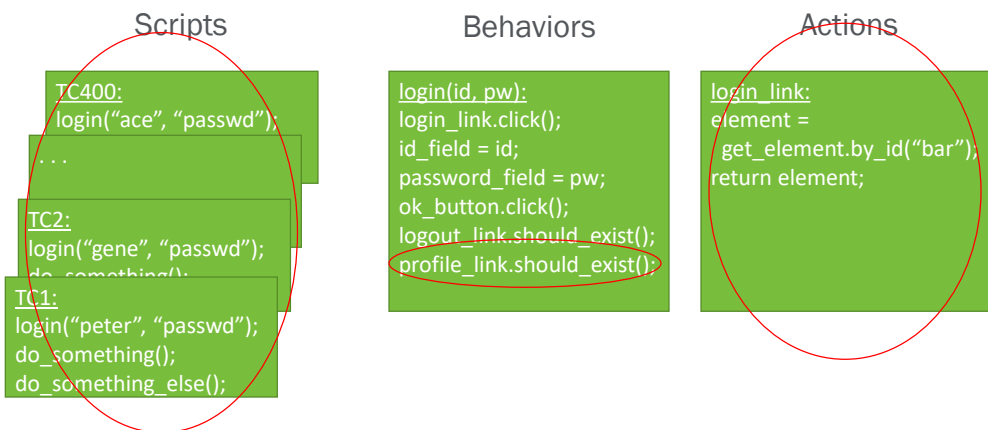
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A Stack Example



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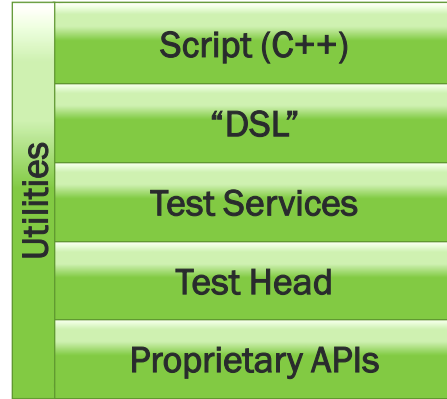
A Stack Example



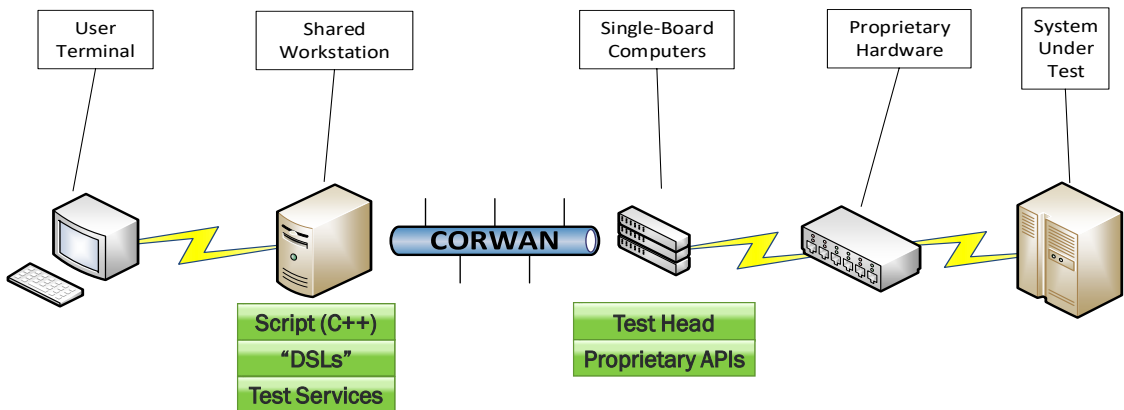
Less Maintenance!

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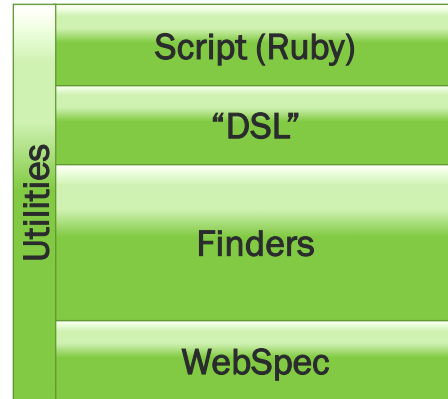
Telecom Company



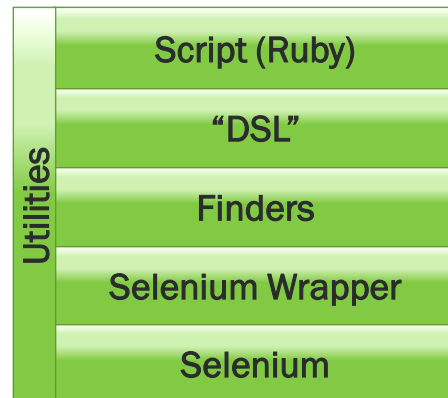
Telecom Company – Automation Infrastructure (Partial)



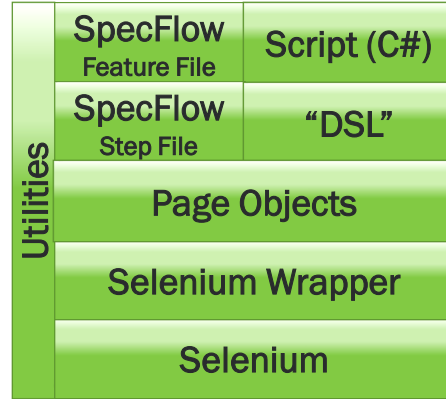
E-Commerce Organization – WebSpec



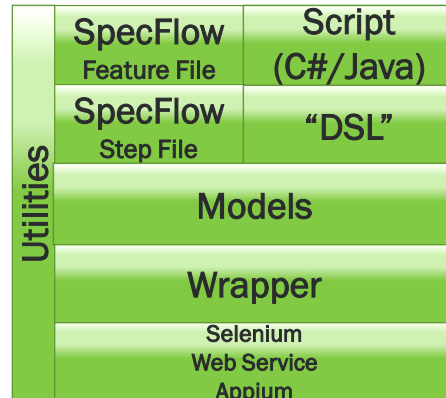
E-Commerce Organization – Selenium



SaaS Company



Magenic



Logging and Error Reports



Layers can make debugging a challenge
 Higher layers may hide lower layers' details
 Each layer logs
 Context-sensitive
 Domain-appropriate

I Just Want To Buy A CD



```
FileName1, 49: Failed to add "Bark At The Moon" to the cart
  FileName2, 107: Couldn't find the "Add to cart" button when you tried to click it
    FileName3, 55: WebElement with ID "flum-lmnop-697142112" could not be found
```



Outside Of Test Scripts

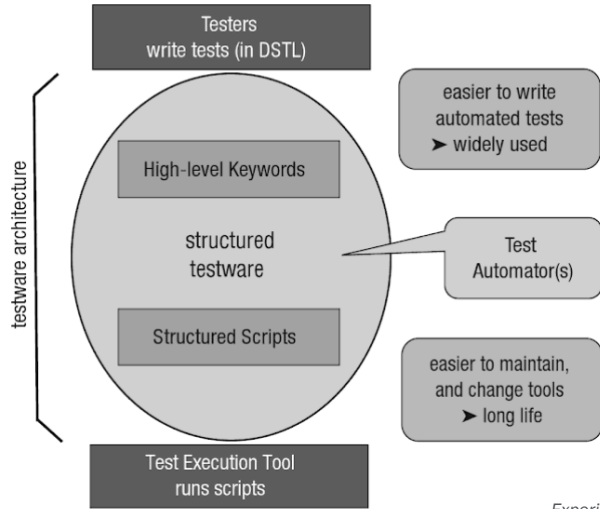
Script
Behaviors
Actions
Abstraction
Raw Tools

Order Pumper
Finders
Selenium Wrapper
Selenium

Random Link Clicker
Selenium Wrapper
Selenium



Experiences of Test Automation Stack

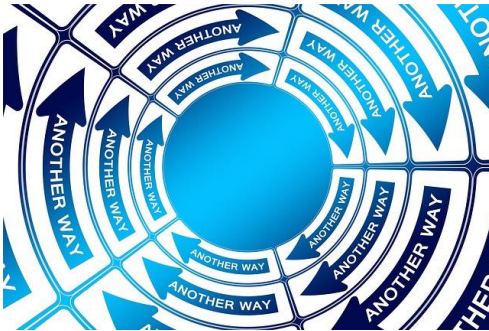


Experiences of Test Automation; Graham, Fewster

Beware!



Stewardship



What goes in which layer?
It matters and it doesn't
What matters is that someone is overseeing

General Guidance



TL;DR

Stacks are portable – frameworks, non-traditional automation

Use software development idioms

Appropriate logging and error messages are critical

Stewardship required



Question Time!

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