
Digitizing Testers



Jason Arbon @jarbon

Checking VS Testing

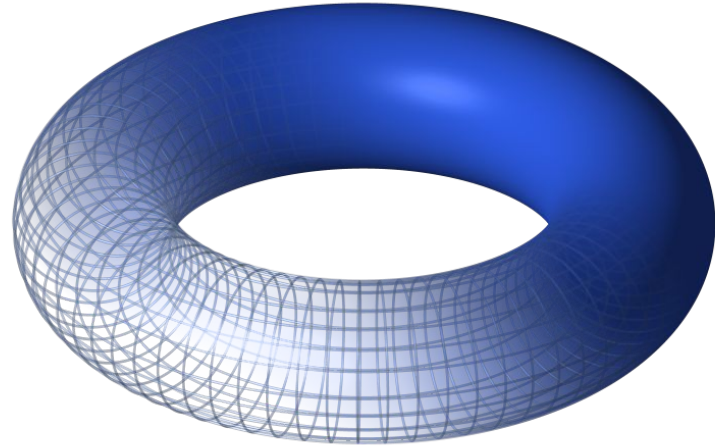
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 [@jarbon](https://twitter.com/jarbon)





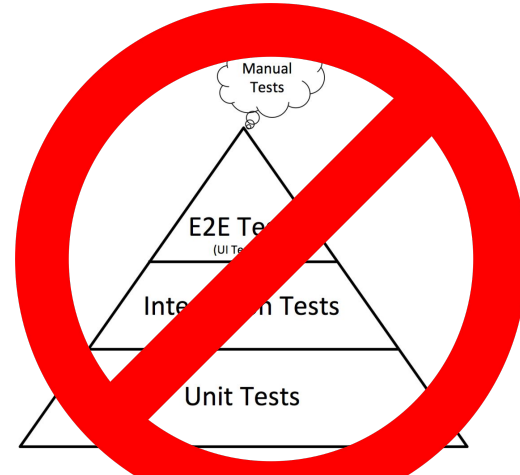
The Testing Toroid

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The Joy Of Manual Regression Testing



Jason Arbon

Manual Regression Sample

File Edit View Insert Format Data Tools Add-ons Help All changes saved in Drive

Comments Share

100% \$ % .0 .00 123 Arial 10 B I S A More

	A	B	C	D	E	F	G
1	Simple Example						
2	Functional Areas	Priority	Status	Tester	Jira #	Notes	
3	Log In	P1	Ok	Luke (QA)			
4	Header	P3					
5	Footer	P3					
6	Article Search	P2	In Progress	Rey (Dev)			
7	Homepage	P2	In Progress	Chewie (Dev)			
8	Article Template	P1	Ok	Leia (QA)			
9	Article Ratings	P1	Problem	Leia (QA)	SW-1023	4 Star rating reloads page	
10	Article Comments	P2	Problem	Rey (Dev)	SW-1024	Post button overlay not functional in Edge	
11	Social Media Sharing	P2					
12	User Settings	P1	Ok	Leia (QA)			
13	Leadership Page	P2	Blocked	Chewie (Dev)		Not accessible in QA Env	
14	Bio Template	P3					
15	Contact Us	P3					
16	CMS: Create Article	P2	Ok	Han (PO)			
17	CMS: Post Article	P2	Ok	Han (PO)			
18	CMS: Delete Article	P2	Ok	Rey (Dev)			
19	CMS: Edit User	P2	Problem	Rey (Dev)	SW-1025	Super User can't post articles	
20	CMS: Edit Comments	P1	Ok	Luke (QA)			
21	CMS: User Roles	P2		Han (PO)			
22	Page Analytics	P3					
23	Accessibility: Screen Reader	P2	In progress	Luke (QA)			
24	Performance: Page Load	P3					
25							

+ Master Sprint 2 Sprint 3 Full Regression Pass 12.6.2017 Sprint 4 Explore

Serialize Flaky Tests for Breakfast



Jason Arbon

Digitizing Testers



Jason Arbon @jarbon

—

All characters in this presentation—even those based on real people—are entirely fictional. All celebrity testing skills are impersonated...poorly. The following presentation contains disturbing opinions and due to its content should not be viewed by anyone.

We are here to learn from: Testing experts.



W5 Getting Started With A

Dionny Santiago



Chris Navrides, Dev Tools

Chris Navrides was the VP of engineer at test.ai, which is built the first AI based mobile & web testing solution. Before that for Google Play and mobile ads, and Dropbox on their mobile platform team. Chris received his Bachelors and masters from

Tariq King

Vice President



Tariq King is the Chief Scientist at [test.ai](#), where he leads research and development of their core platform for AI-driven testing. Tariq has over fifteen years' experience in software engineering and testing and has formerly held positions as Head of Quality, Director of Quality Engineering, Manager of Software Engineering, and Test Architect. Tariq holds Ph.D. and M.S. degrees in Computer Science from Florida International University, and a B.S. in Computer Science from Florida Tech. His areas of research are software testing, artificial intelligence, autonomic and cloud computing, model-driven engineering, and computer science education. He has published over 40 research articles in peer-reviewed IEEE and ACM journals, conferences, and workshops, and has been an international keynote speaker at leading software conferences in industry and academia.

Email the PNSQC [Vice President](#)

learn from Tariq?
or have Tariq test your App's
APIs?



or Head of FedEx address box testing, testing your App's address boxes?

Address

Example: Banne Buikslaan 101C

Apartment, suite, etc.

Example: 3rd floor

0x250

or have Dionny test your signup forms?

Applying: Text Generation

Can we model these sequences (test flows) using a language?

A screenshot of a web form with three input fields: 'First Name*' with a red error message 'Please enter first name.', 'Last Name*' with a red error message 'Please enter last name.', and 'Company'. A 'SUBMIT' button is located to the right of the 'Company' field.

Observe Required TextBox FirstName Input BLANK FirstName Click Commit Observe ErrorMessage

PERCEIVE ACT OBSERVE

Ultimate
SOFTWARE FIU

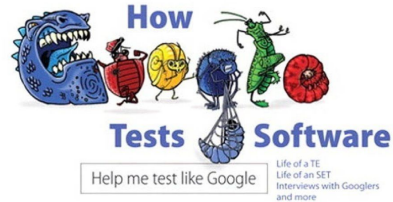


AI-Driven Test Generation

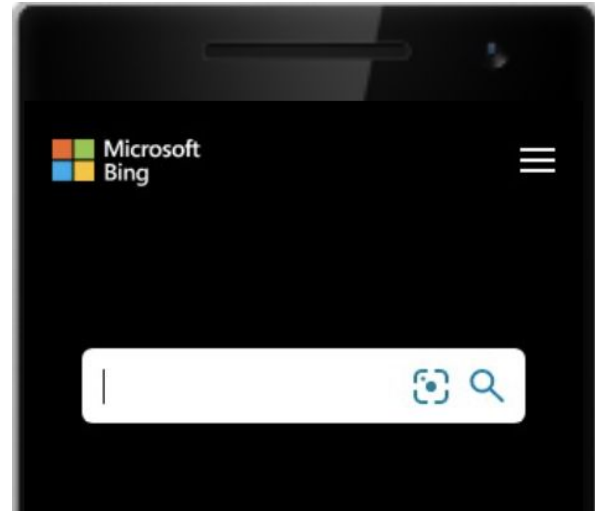
Machines Learning from Human Testers

36TH ANNUAL
PACIFIC NW SOFTWARE
QUALITY
CONFERENCE
OCTOBER 8-10, 2018

or maybe let me test your search boxes?



James Whittaker · Jason Arbon · Jeff Carollo



Meet Virtual Tariq



The King

"The King of Testing"



0

Leader at the center of AI and Software testing.
Director of testing and research.

Tests:

 API

 Games

Meet Virtual Janna



Janna

"The G.O.A.T"

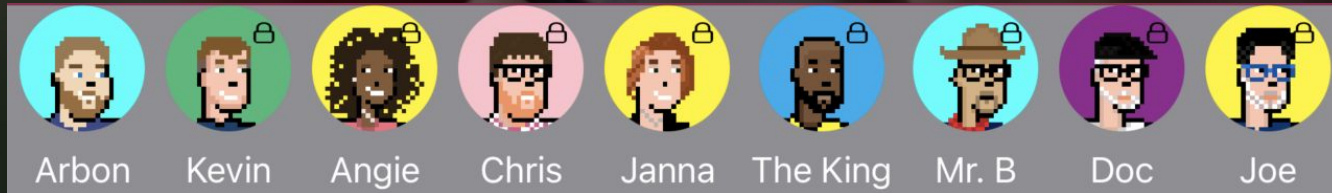


👤 = 0

Janna has directed testing at high profile startups, with complex multi-platforms and an authority on topics of Agile and DevOps.

Tests: 🔄 Browser Matrix

They are already testing

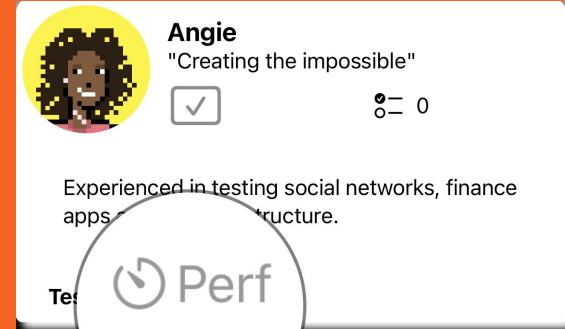


Tip
Speak through code.

Performance

Homepage: Performance

Selenium	913ms
Tricentis	1,044ms
Testers.ai	1,215ms
Appium	1,337ms
Sauce Labs	1,451ms
QA	1,584ms
Parasoft	1,610ms
PNSQC	1,802ms
Practica	1,953ms
Test	2,075ms
Rainforest	2,140ms
Applause	2,170ms
BlazeMeter	2,203ms
Eggplant	2,255ms
SmartBear	2,272ms
TestRail	2,419ms
Headspin	2,474ms
DevTools.ai	2,504ms
MABL	2,633ms
Coveros	2,677ms
Testlio	2,701ms
	2,706ms
	2,731ms
	2,732ms
	2,787ms
	2,796ms
	2,957ms



LinkedIn profile card for Angie. The card includes a profile picture of a woman with curly hair, a name 'Angie', a tagline '"Creating the impossible"', a checkmark icon, a menu icon with '0' next to it, and a bio: 'Experienced in testing social networks, finance apps, and infrastructure.' A circular callout with a refresh icon and the text 'Perf' is overlaid on the bottom right of the card.

6:40



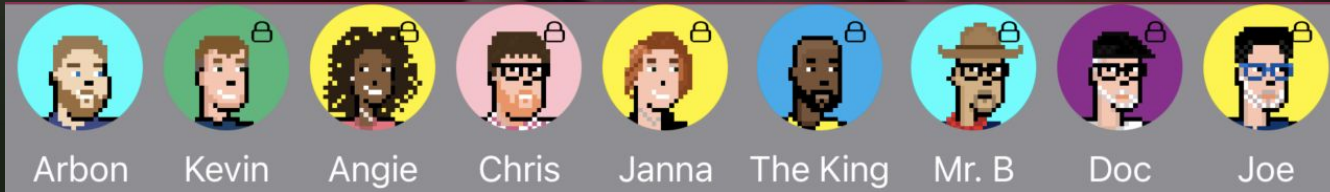
Visual AI

Differences Detected by AI

Same as Last: 15

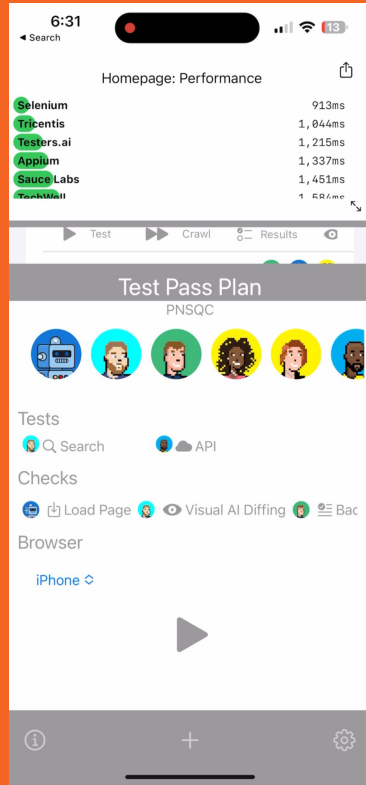
Visual AI Diffing

It's a Mobile-First World



Tip
Most web traffic is mobile

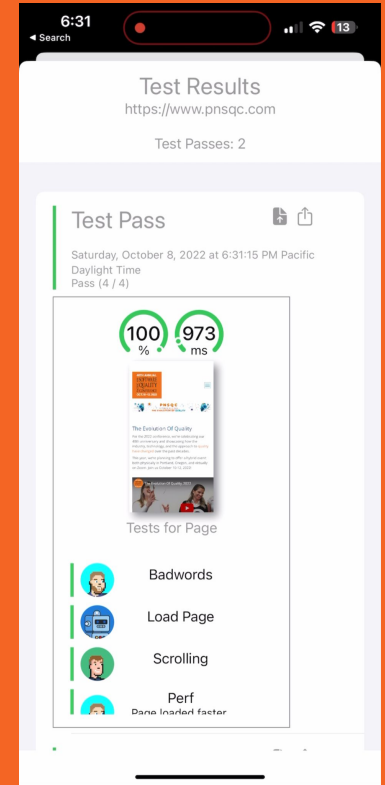
Testing



Test Pass Plan



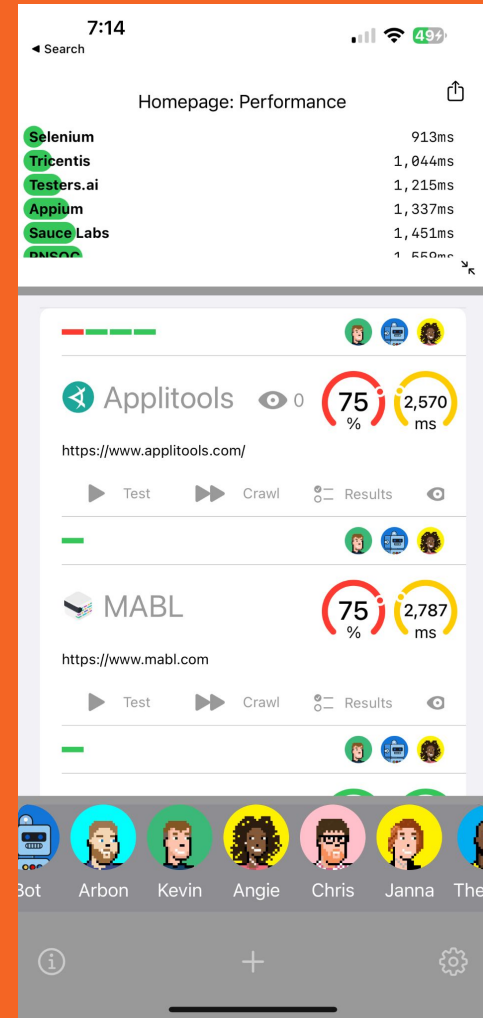
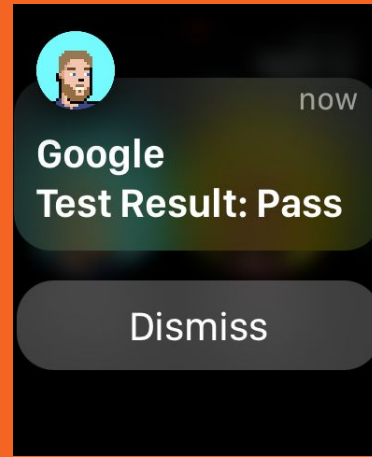
Active Testing



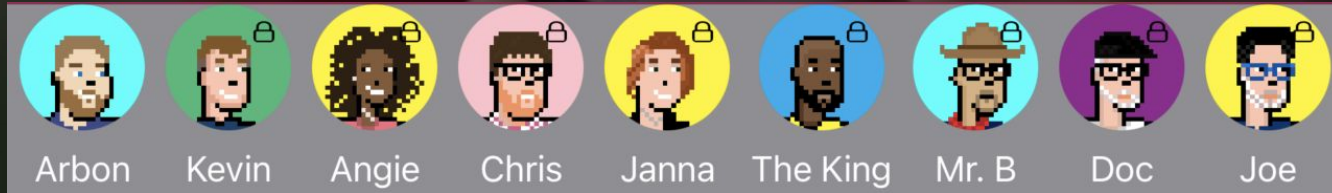
Test Results

And what if they all lived on your phone?

Super Accessible

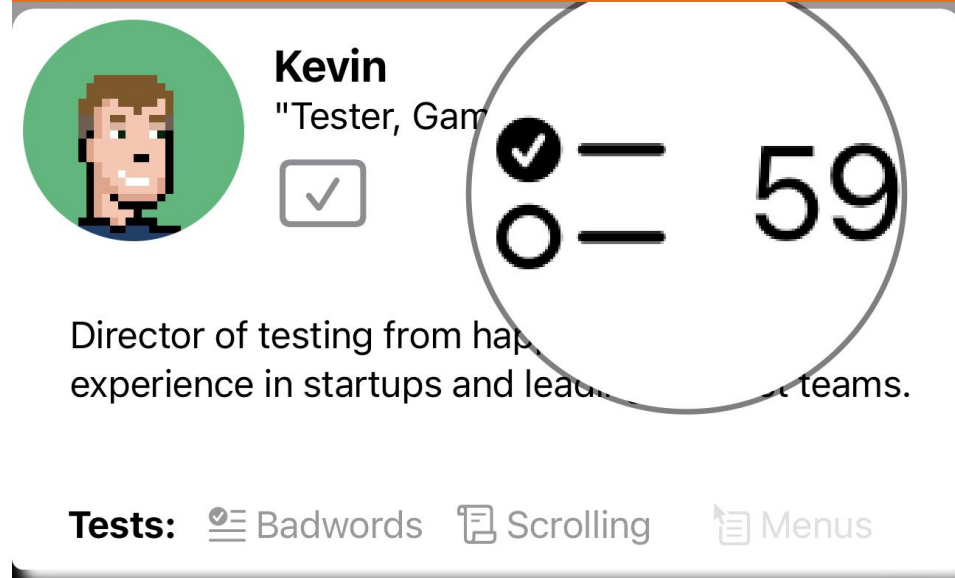


Why would they do this?



Nerd-Famous + Cool

Virtual Kevin has tested 59 apps



A user profile card for Kevin, featuring a pixelated avatar, a bio, and a list of tests. A large white circle highlights the test count '59'.

Kevin
"Tester, Gam"
✓

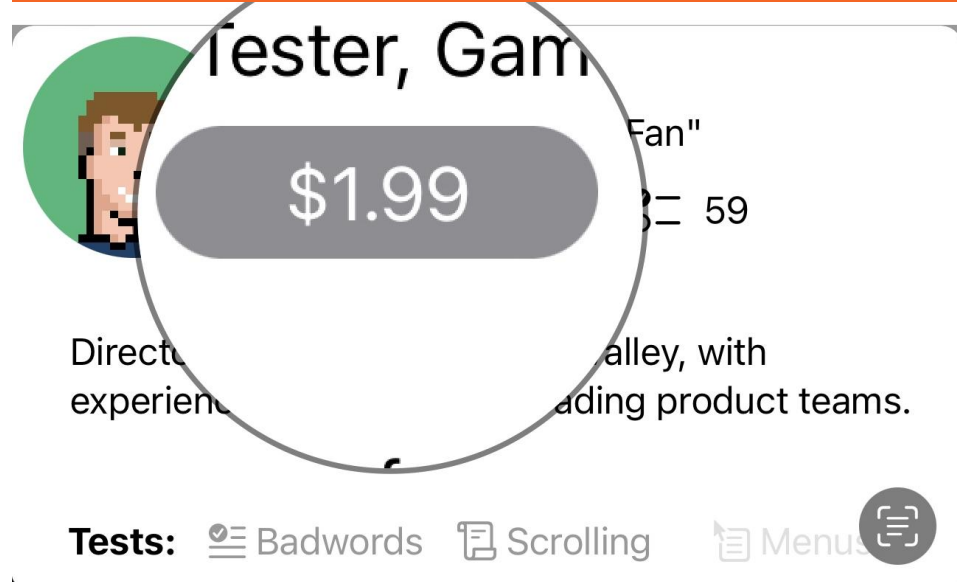
Director of testing from hap...
experience in startups and lea... teams.

Tests: ✓ Badwords Scrolling Menus

59

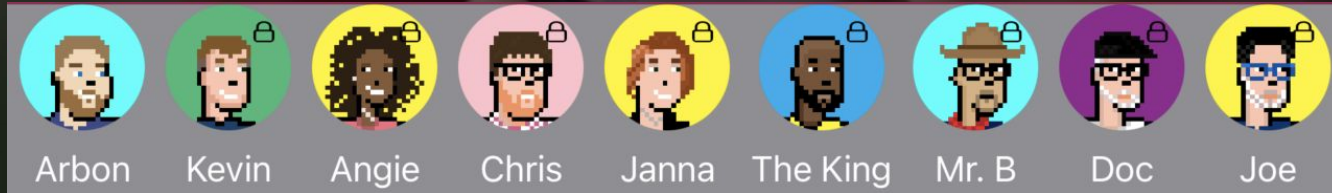
Money

Maybe Kevin gets a
new golf club?



The image shows a mobile application interface with an orange header and footer. The main content area is white and displays a user profile for "Tester, Gam". To the left of the name is a circular profile picture of a man with brown hair. A large, semi-transparent grey rounded rectangle with the text "\$1.99" in white is overlaid on the profile picture and name. Below the name, the text "Fan" is visible. Further down, there is a line of text: "Directo... alley, with" and "experie... ading product teams." At the bottom of the profile card, there is a "Tests:" label followed by three items: "Badwords" with a checkmark icon, "Scrolling" with a document icon, and "Menus" with a document icon. A circular icon with a list symbol is located at the bottom right of the profile card.

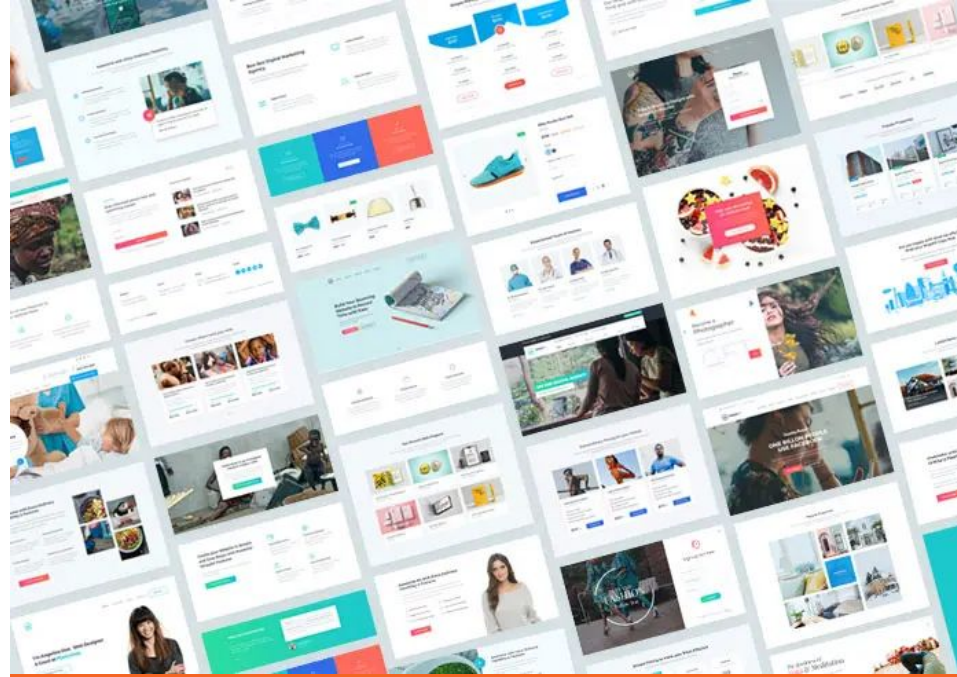
Why do people want this?



Everyone but Testers

Most Apps are tested poorly, or not all.

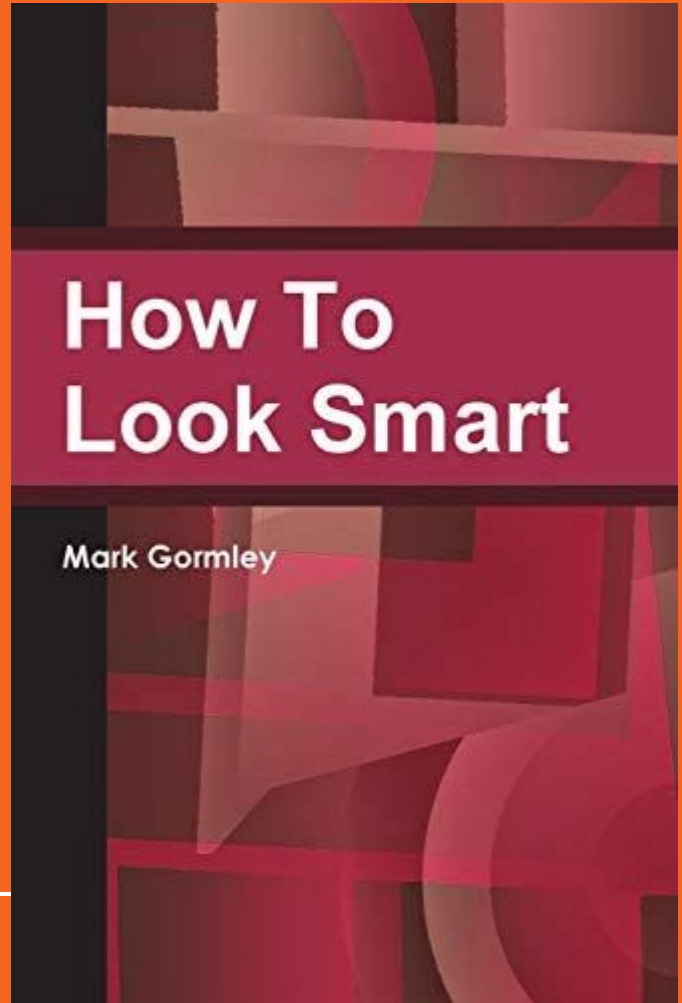
Easier, Faster, Better, Cheaper



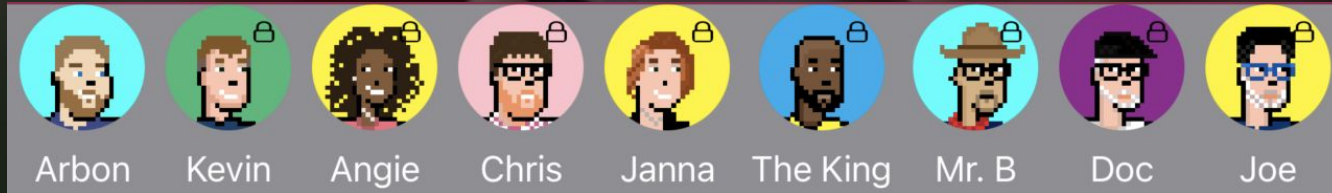
Testers

Get rid of the basic testing, focus on the hard stuff.

Fun to have a test team at your whim.



How is this technically possible?



AI Magic under the hood.

AI/ML->Abstraction->Reuse->Scale

Enabling:

AI mobile chips

Better AI models



Tip

Lots of PNSQC and other resources online discussing Application of AI to software testing.



1. Please Help

→ **Beta Testers**

Testing and feedback

→ **Volunteer to be Digitized**

If you are an expert in an area let me know so I can digitize you :-)

→ **Simple**

@jarbon

<https://www.testersai.com>