

# Where Exploration and Automation meet

Leveraging your investment in  
automated functional tests

# Andy Kemp



twitter: @kyndainverse

blog: [kyndainverse.com](http://kyndainverse.com)

# Exploratory testing

© Andres Aspinos

“Parallel test design, test execution, and learning” - Michael Bolton

<http://www.flickr.com/photos/aandres/2672043528/>

# Automated functional testing



# Tools and practices

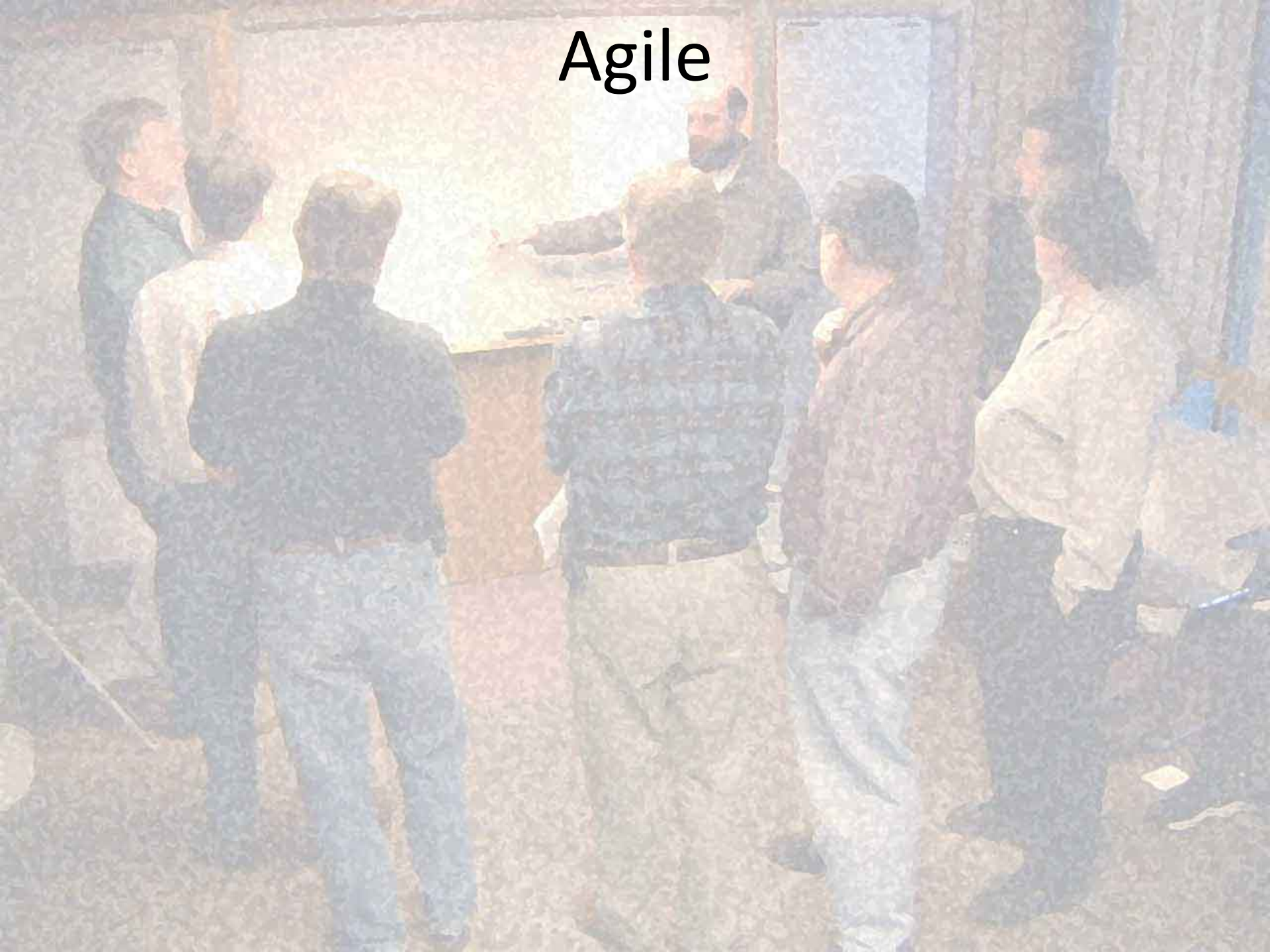




**twist**<sup>®</sup>

Agile Testing

# Agile



# Automate then explore







Automated Regression



Manual Exploratory

Use your automation  
to help you explore



Benefits?



# Reusable steps

# Hybrid tests



#	comp	mass	time	rt_index	chg	S1	S2	S3	S4
0	1	300.130	13.271	218.720	2	35.200	71.000		
1	3	300.142	16.546	277.850	2	37.800	38.900	48.500	63.700
2	4	300.150	21.879	369.890	1	26.700	22.600		
3	5	300.156	14.974	250.627	2	11.400		26.700	25.700
4	7	300.160	23.724	405.368	3	1390.000	1080.000	463.000	552.000
5	9	300.170	27.365	459.410	3	27.700	21.400		
6	10	300.174	18.146	303.145	1	191.000	20.300	16.000	
7	11	300.184	22.930	390.230	1	21.600	23.800		
8	12	300.189	19.380	322.203	2		420.000	690.000	353.000
9	13	300.190	20.750	350.840	2	123.000		114.000	
10	14	300.218	26.257	441.103	2	472.000	306.000	316.000	
11	16	300.480	18.599	309.823	3	18.500		26.000	26.000
12	18	300.480	14.272	237.073	3		23.500		39.000
13	19	300.500	27.109	455.170	3	40.900	37.000	21.000	24.200
14	22	300.640	29.241	490.978	2	80.200	86.800	90.400	100.000
15	23	300.649	17.936	300.046	1	44.500	45.200	26.500	34.100
16	24	300.665	15.088	253.020	2	119.000	366.000	634.000	345.000
17	26	300.690	14.023	232.220	2	446.000	399.000	618.000	607.000
18	27	300.682	21.130	357.260	1	43.800	15.400		
19	28	300.690	20.134	337.710	2	27.400	21.200	13.800	22.200
20	29	300.698	22.291	377.470	2	1400.000	1290.000	73.200	95.400
21	31	300.700	18.390	306.732	2	182.000	156.000	200.000	245.000
22	33	300.850	26.615	447.026	3	130.000	139.000	110.000	116.000
23	36	301.155	19.741	329.060	1	22.000			11.500
24	37	301.158	36.577	619.438	1	16.800	38.600	49.200	32.000
25	38	301.160	18.014	301.190	2	183.000	202.000	90.100	111.000
26	40	301.163	14.308	237.775	2	75.300	76.600		110.000
27	41	301.164	16.116	270.677	1	24.900		19.700	52.100
28	42	301.168	16.362	274.773	2		24.200	29.500	
29	44	301.181	20.429	344.366	2	54.300	51.600	55.100	80.500
30	45	301.187	21.619	365.506	2	104.000	104.000	90.600	87.100
31	48	301.194	19.293	320.552	2	47.700	56.300	78.200	83.400
32	49	301.200	24.271	412.480	2	129.000	127.000	86.900	103.000
33	50	301.200	22.727	385.908	2		204.000	283.000	341.000

# Data Driven

# Test like Alan

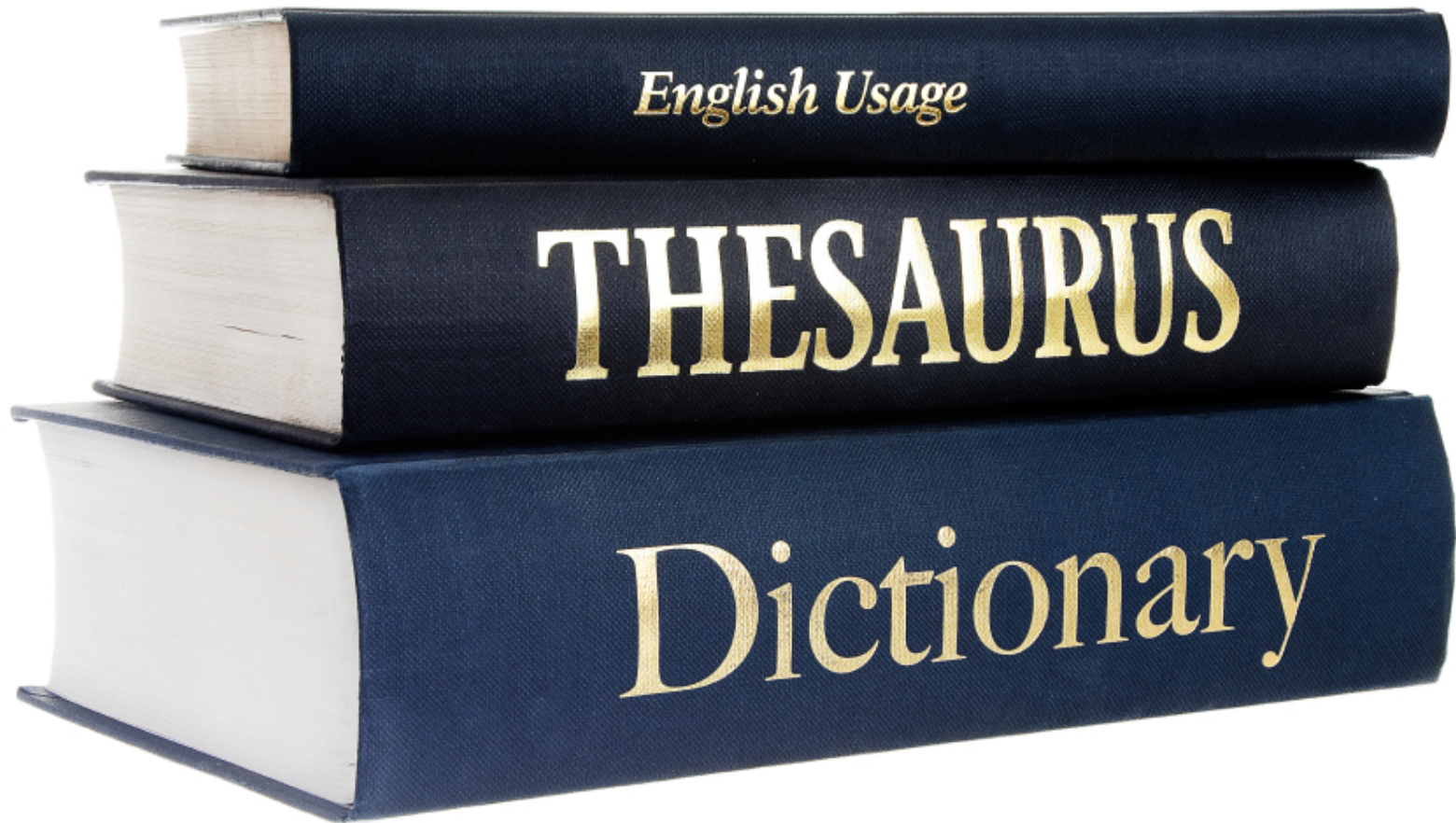




# Organise your tests



Choose your  
words carefully



You have  
the answers

