

Test Section		Gameplay functional tests				
This test section lists functional tests of the gameplay against the expected outcomes of all actions						
Application Section		Game - the tests below are those against actions that are taken within the game				
SCENARIOS TESTED:						
Scenario 1	Medium					
Scenario 2	Very Hard					
Scenario 3	Custom game - 3x3, 4 colours, no timer					
Scenario 4	Custom game - 3x3, 6 colours, 10 seconds timer					
Scenario 5	Custom game - 4x4, 5 colours, 5 seconds timer					
Test ID	Test Description		Expected result?	Scenario tested	Result	Comments
Viewing Pattern						
1	Go' button clicked	Blank grid displayed.	1	N/A		
			2	N/A		
			3	Pass		
			4	N/A		
			5	N/A		
2		Palette reflecting chosen number of colours displayed below grid with no colours selected	1	N/A		
			2	N/A		
			3	Pass		
			4	N/A		
			5	N/A		
3		Submit button displayed below palette.	1	N/A		
			2	N/A		
			3	Pass		
			4	N/A		
			5	N/A		
4	View timer completes countdown	Blank grid displayed.	1	Pass		
			2	Pass		
			3	N/A		
			4	Pass		
			5	Pass		
5		Palette reflecting chosen number of colours displayed below grid with no colours selected	1	Pass		
			2	Pass		
			3	N/A		
			4	Pass		
			5	Pass		
6		Submit button displayed below palette.	1	Pass		
			2	Pass		
			3	N/A		
			4	Pass		
			5	Pass		
7	Main menu button selected during timer	Main menu (landing page) shown	1	Pass		
			2	Pass		
			3	N/A		
			4	Pass		
			5	Pass		
8	Main menu button selected before go button	1) Main menu (landing page) shown	1	N/A		
			2	N/A		
			3	Pass		
			4	N/A		
			5	N/A		
Filling in Grid						
9	Click on grid square without selecting colour	Grid square should remain clear	1	Pass		
			2	Pass		
			3	Pass		
			4	Pass		
			5	Pass		
10		Alert message appears with appropriate message	1	Pass		
			2	Pass		
			3	Pass		
			4	Pass		
			5	Pass		
11	Select 1st colour from palette	Black border appears around clicked or tapped colour	1	Pass		
			2	Pass		
			3	Pass		
			4	Pass		
			5	Pass		
12		Pick colour selection noise plays	1	Pass		
			2	Pass		
			3	Pass		
			4	Pass		
			5	Pass		
13	Select subsequent colour from palette	Black border appears around clicked or tapped colour.	1	Pass		
			2	Pass		
			3	Pass		
			4	Pass		
			5	Pass		
14		Black border from previous selected colour disappears.	1	Pass		
			2	Pass		
			3	Pass		
			4	Pass		
			5	Pass		
15		Pick colour selection noise plays.	1	Pass		
			2	Pass		
			3	Pass		
			4	Pass		
			5	Pass		
16	Click on a blank grid square	Clicked grid square changes to a square now filled with the selected colour	1	Pass		
			2	Pass		
			3	Pass		
			4	Pass		
			5	Pass		
17		Add colour noise plays	1	Pass		
			2	Pass		
			3	Pass		
			4	Pass		
			5	Pass		
18	Click on multiple blank grid squares	Clicked grid squares now filled with the selected colour	1	Pass		
			2	Pass		
			3	Pass		
			4	Pass		
			5	Pass		
19		Add colour noise plays	1	Pass		
			2	Pass		
			3	Pass		
			4	Pass		
			5	Pass		
20	Click on a coloured grid square whilst a different colour selected	Clicked grid square changes to a square now filled with the selected colour	1	Pass		
			2	Pass		
			3	Pass		
			4	Pass		
			5	Pass		
21		Add colour noise plays	1	Pass		
			2	Pass		
			3	Pass		
			4	Pass		
			5	Pass		
22	Main menu button selected before submit button	Main menu (landing page) shown	1	Pass		
			2	Pass		
			3	Pass		
			4	Pass		
			5	Pass		
			1	Pass		

23	Click the submit button before all grid squares coloured	Game should not progress	2	Pass	
24		Alert message appears with appropriate message	3	Pass	
			4	Pass	
			5	Pass	
			1	Pass	
	2		Pass		
25	Click the submit button when all grid squares coloured and do not match pattern	Message displays below grid with appropriate text for not matching patterns, time taken and 'next round' button	3	Pass	
			4	Pass	
			5	Pass	
			1	Pass	
			2	Pass	
26		Result and time taken shown in results column on left	3	Pass	
			4	Pass	
			5	Pass	
			1	Pass	
			2	Pass	
27		Result and time taken shown in modal	3	Pass	
			4	Pass	
			5	pass	
			1	Pass	
			2	Pass	
28		View computer pattern text appears with switch button above grid	3	Pass	
			4	Pass	
			5	Pass	
			1	Pass	
			2	Pass	
29	Loss (no match) sound plays	3	Pass		
		4	Pass		
		5	Pass		
		1	Pass		
		2	Pass		
30	Click the submit button when all grid squares coloured match pattern	Message displays below grid with appropriate text for matching patterns, time taken and 'next round' button	3	Pass	
			4	Pass	
			5	Pass	
			1	Pass	
			2	Pass	
31		Result and time taken shown in results column on left	3	Pass	
			4	Pass	
			5	Pass	
			1	Pass	
			2	Pass	
32		Result and time taken shown in modal	3	Pass	
			4	Pass	
			5	Pass	
			1	Pass	
			2	Pass	
33		View computer pattern text appears with switch button above grid	3	pass	
			4	Pass	
			5	Pass	
			1	Pass	
			2	Pass	
34	Win (match achieved) sound plays	3	Pass		
		4	Pass		
		5	Pass		
		1	Pass		
		2	Pass		
Viewing result/end of round					
35	Click the Compare (switch) button below 'View computer pattern' text	The computer grid pattern is shown and the text above 'switch' button changes to 'View your pattern'	1	Pass	
			2	Pass	
			3	Pass	
			4	Pass	
			5	Pass	
36	Click the Compare (switch) button (again) below 'View your pattern' text	The player grid pattern shown and the text above 'switch' button changes to 'View computer pattern'	1	Pass	
			2	Pass	
			3	Pass	
			4	Pass	
			5	pass	
37	Main menu button selected before continuing to next round	Main menu (landing page) shown	1	Pass	
			2	Pass	
			3	pass	
			4	pass	
			5	Pass	
38	Click button in message to progress to next round	New Pattern displayed with countdown timer or Go button	1	Pass	
			2	Pass	
			3	Pass	
			4	Pass	
			5	Pass	
End of game					
39	5th round of game completed	Message displays below grid with appropriate text for not matching/matching patterns and time taken.	1	Pass	
			2	Pass	
			3	Pass	
			4	Pass	
			5	Pass	
40		Additional text showing how many out of 5 rounds matched	1	Pass	
			2	Pass	
			3	Pass	
			4	Pass	
			5	Pass	
41		Continue button displayed	1	Pass	
			2	Pass	
			3	Pass	
			4	Pass	
			5	Pass	
42	Click the continue button (custom game)	Score achieved message displayed with score achieved. No opportunity to save score.	1	N/A	
			2	N/A	
			3	Pass	
			4	Pass	
			5	Pass	
43		'Play again' and 'Main menu' buttons shown.	1	N/A	
			2	N/A	
			3	Pass	
			4	Pass	
			5	Pass	
44	Click the continue button (set difficulty - new high score achieved)	Appropriate new high score achieved message displayed with score achieved.	1	Pass	
			2	Pass	
			3	N/A	
			4	N/A	
			5	N/A	
45		Opportunity to enter name to save score	1	Pass	
			2	Pass	
			3	N/A	
			4	N/A	
			5	N/A	
46		Save button NOT enabled.	1	Pass	
			2	Pass	
			3	N/A	
			4	N/A	
			5	N/A	
47		'Play again' and 'Main menu' buttons shown.	1	Pass	
	2		Pass		
	3		N/A		
	4		N/A		
	5		N/A		

48	Enter name to save score	Save button enabled	1	Pass	
			2	Pass	
			3	N/A	
			4	N/A	
			5	N/A	
49	Click save button	Save button and text are removed (disappear)	1	Pass	
			2	Pass	
			3	N/A	
			4	N/A	
			5	N/A	
50		Message 'Score saved.' shows. With 'Play again?' and 'Main menu' button displayed below.	1	Pass	
			2	Pass	
			3	N/A	
			4	N/A	
			5	N/A	
51	Enter name and hit enter	Save button and text are removed (disappear)	1	Pass	
			2	Pass	
			3	N/A	
			4	N/A	
			5	N/A	
52		Message 'Score saved.' shows. With 'Play again?' and 'Main menu' button displayed below.	1	Pass	
			2	Pass	
			3	N/A	
			4	N/A	
			5	N/A	
53	Check High Score page	High score should display within the chosen difficulty in position 1, 2 or 3	1	Pass	
			2	Pass	
			3	N/A	
			4	N/A	
			5	N/A	
54	Click the continue button (set difficulty - no new high achieved)	Appropriate NO new high score achieved message displayed with score achieved.	1	Pass	
			2	Pass	
			3	N/A	
			4	N/A	
			5	N/A	
55		'Play again' and 'Main menu' buttons shown.	1	Pass	
			2	Pass	
			3	N/A	
			4	N/A	
			5	N/A	
56	Click play again from high score message	New game should start straight away with same difficulty or custom game settings	1	Pass	
			2	Pass	
			3	Pass	
			4	Pass	
			5	Pass	
57		Results column should clear of last games results	1	Pass	
			2	Pass	
			3	Pass	
			4	Pass	
			5	Pass	
58		Results modal should clear of last games results	1	Pass	
			2	Pass	
			3	Pass	
			4	Pass	
			5	Pass	
59		No colour selected	1	Pass	
			2	Pass	
			3	Pass	
			4	Pass	
			5	Pass	
60	Click Main menu from high score message	Main menu (landing page) shown	1	Pass	
			2	Pass	
			3	Pass	
			4	Pass	
			5	Pass	
Between rounds/games check.					
61	During game (between rounds)	Results and time taken from previous rounds of current game persist in display of results column on left.	1	Pass	
			2	Pass	
			3	Pass	
			4	Pass	
			5	Pass	
62		Results and time taken from previous rounds of current game persist in display shown in modal.	1	Pass	
			2	Pass	
			3	Pass	
			4	Pass	
			5	Pass	
63		Final Colour selection from previous round does not persist	1	Pass	
			2	Pass	
			3	Pass	
			4	Pass	
			5	Pass	
64		Results and time taken from previous game are not displayed in results column on left.	1	Pass	
			2	Pass	
			3	Pass	
			4	Pass	
			5	Pass	
65		Results and time taken from previous game are not displayed in modal.	1	Pass	
			2	Pass	
			3	Pass	
			4	Pass	
			5	Pass	
66		Final Colour selection from previous game does not persist	1	Pass	
			2	Pass	
			3	Pass	
			4	Pass	
			5	Pass	
	Between Games		1	Pass	Screen grab of console logs in the below cells each show console logs concerned with the score. The top five entries show the last round of previous game showing the final game score. The next five show the first round of the next game showing an updated game score. Proof that score is reset.  the score for minutes is 0script.js:888 the score for time taken is 52.47script.js:889 the current match score is 60script.js:890 the current round score is 112.47script.js:891 the game score is 227script.js:892 the score for minutes is 0script.js:888 the score for time taken is 43.379999999999995script.js:889 the current match score is 0script.js:890 the current round score is 0script.js:891 the game score is 0script.js:892
			2	Pass	the score for minutes is 0script.js:888 the score for time taken is 49.59script.js:889 the current match score is 60script.js:890 the current round score is 109.59script.js:891 the game score is 323.82script.js:892 the score for minutes is 0script.js:888 the score for time taken is 43.769999999999996script.js:889 the current match score is 60script.js:890 the current round score is 103.77script.js:891 the game score is 103.77script.js:892

67		Score is reset	3	Pass	the score for minutes is 0 the score for time taken is 55.14 the current match score is 0 the current round score is 0 the game score is 113.44 the score for minutes is 0 the score for time taken is 47.78 the current match score is 0 the current round score is 0 the game score is 0	script.js:888 script.js:889 script.js:890 script.js:891 script.js:892 script.js:888 script.js:889 script.js:890 script.js:891 script.js:892
			4	Pass	the score for minutes is 0 the score for time taken is 42.32 the current match score is 60 the current round score is 102.32 the game score is 429.15000000000003 the score for minutes is 0 the score for time taken is 54.03 the current match score is 0 the current round score is 0 the game score is 0	script.js:888 script.js:889 script.js:890 script.js:891 script.js:892 script.js:888 script.js:889 script.js:890 script.js:891 script.js:892
			5	Pass	the score for minutes is 0 the score for time taken is 42.85 the current match score is 60 the current round score is 102.85 the game score is 311.76 the score for minutes is 0 the score for time taken is 10.399999999999999 the current match score is 60 the current round score is 70.4 the game score is 70.4	script.js:888 script.js:889 script.js:890 script.js:891 script.js:892 script.js:888 script.js:889 script.js:890 script.js:891 script.js:892
Check of message presentation based on whether more or less than a minute was taken within a round.						
68	End of round message displaying correctly if time under a minute	Message should convey correct information, be contained within message box and all content justified center	1	Pass		
			2	Pass		
			3	Pass		
			4	Pass		
			5	Pass		
69	End of round message displaying correctly if time over a minute	Message should convey correct information, be contained within message box and all content justified center	1	Pass		
			2	Pass		
			3	Pass		
			4	Pass		
			5	Pass		
70	End of game message displaying correctly if time under a minute	Message should convey correct information, be contained within message box and all content justified center	1	Pass		
			2	Pass		
			3	Pass		
			4	pass		
			5	Pass		
71	End of game message displaying correctly if time over a minute	Message should convey correct information, be contained within message box and all content justified center	1	Pass		
			2	Pass		
			3	Pass		
			4	Pass		
			5	Pass		

test history  
test 1 - 17/4/2021: first test.