

Appendix

A) Instructions

The standardized instructions were read from an examiner to the subjects as follows:

“In this experiment, we’re interested in visual attention while walking. Any time you’re trying to get somewhere, you’re actually performing a number of tasks simultaneously. You must get where you’re going. You typically follow a particular route. Frequently there are obstacles that you must not collide with, such as cars, trees, and other people. Often there are objects of interest to interact with on the way, such as talking with old friends or picking up your keys on the way out the door. These tasks may vary in importance at any point in time - stopping to pick up a \$20 bill is far more important than stopping to pick up every penny.

We’ve created a virtual world that captures several aspects of these tasks that we perform daily. You’ll be walking through a series of rooms and must proceed to the opposite corner of the room while staying on a path. Each room is filled with a number of targets and obstacles. You’ll be verbally instructed on how to identify each and when to avoid obstacles and/or collect targets. When you are collecting targets, walk into the cubes to make contact with them. When you are avoiding obstacles, avoid walking into the cubes. When you make contact with an obstacle or target, you’ll hear a sound and the object will disappear. Proceeding through the rooms at a reasonable pace is more important than collecting every target, avoiding every obstacle, or staying directly on the path – try to avoid

stopping. At the end of each path is an elevator (marked with a green disk) to take you to the next room.”

B) List of Tables

Table B1. The total numbers, sums, means, and standard deviations of fixations detected by the algorithm and of remaining fixations after exclusion by handcoding for the 12 participants. In addition, the percentage of excluded and analyzed fixations are presented for several reference numbers.

subject #	# of fixations found by fixation finder algorithm		# of fixations after handcoding , total and for each number of visible objects o: 1 fixated object + (o-1) neighbors					% of excluded fixations by handcoding		% of analyzed fixations, i.e. 2 visible objects		
	total	on objects	total	o = 1	o = 2	o = 3	o = 4	as % of # on objects	as % of total #	as % of # after hand-coding	as % of # on objects	as % of total #
1	2255	1016	265	79	60	66	60	73.9	88.3	22.6	5.9	2.7
2	2231	986	242	63	50	67	62	75.5	89.2	20.7	5.1	2.2
3	1924	799	289	84	77	66	62	63.8	85.0	26.6	9.6	4.0
4	2153	879	244	69	66	55	54	72.2	88.7	27.1	7.5	3.1
5	2097	752	174	39	42	44	49	76.9	91.7	24.1	5.6	2.0
6	2049	971	327	83	116	65	63	66.3	84.0	35.5	12.0	5.7
7	2000	507	146	48	38	35	25	71.2	92.7	26.0	7.5	1.9
8	1986	789	313	72	68	90	83	60.3	84.2	21.7	8.6	3.4
9	1526	509	134	40	27	31	36	73.7	91.2	20.2	5.3	1.8
10	1803	817	172	47	35	47	43	79.0	90.5	20.4	4.3	1.9
11	2668	1264	380	91	128	104	57	69.9	85.8	33.7	10.1	4.8
12	2659	611	173	40	59	49	25	71.7	93.5	34.1	9.7	2.2
sum	25351	9900	2859	755	766	719	619					
mean	2112.5	825.0	238.3	62.9	63.8	59.9	51.6	71.12	88.72	26.8	7.7	3.0
std	309.7	210.9	75.9	18.5	29.7	20.5	16.3					

Table B2. The total numbers of fixations made by the 12 subjects in the three different Tasks (CT = collect targets, AO = avoid obstacles, BOTH = both at once), separated for the Type of Fixated Object (second line, target vs. obstacle) and each Type of Neighbor (third line). Marginal sums are shown for each subject (right) and for each combination of Task, Type of Fixated Object and Type of Neighbor (bottom).

subject #	CT-targ-targ	CT-targ-obst	CT-obst-targ	CT-obst-obst	AO-targ-targ	AO-targ-obst	AO-obst-targ	AO-obst-obst	BOTH-targ-targ	BOTH-targ-obst	BOTH-obst-targ	BOTH-obst-obst	sum
1	10	21	7	0	0	3	0	0	5	12	1	1	60
2	4	17	1	0	1	8	0	0	6	13	0	0	50
3	10	25	0	3	1	4	4	2	8	15	5	0	77
4	10	20	5	0	0	4	0	0	7	18	2	0	66
5	7	10	1	0	5	4	1	0	4	9	1	0	42
6	18	31	5	3	3	8	2	1	19	23	3	0	116
7	5	7	4	0	3	2	2	1	5	8	1	0	38
8	8	14	2	0	1	1	4	5	6	20	5	2	68
9	4	5	0	0	0	0	1	1	5	9	2	0	27
10	4	12	1	0	0	2	0	0	6	10	0	0	35
11	17	26	6	0	0	14	0	1	14	36	12	2	128
12	6	5	1	0	0	1	0	0	8	34	4	0	59
sum	103	193	33	6	14	51	14	11	93	207	36	5	766

Table B3. One sample *t*-test statistics (SPSS) for the overall mean relative frequency of fixations in the same direction as the neighbor (arcsine transformed: $0 \leq h \leq 1.57$) averaged across subjects ($N=12$), tasks, object types and directions.

	N	Mean	Std. Deviation	Std. Error Mean
arcsine_samedir	12	1.020	0.085	0.025

Table B4. One sample *t*-test (SPSS) for the overall mean relative frequency of fixations in the same direction as the neighbor (arcsine transformed) averaged across subjects, tasks, object types and directions (test value = 0.785, that is arcsine transformed chance level).

	Test Value = 0.78539816339745					
	t	df	Sig. (2-tailed)	Mean Difference	95% Confidence Interval of the Difference	
					Lower	Upper
arcsine_samedir	9.566	11	.000	0.235	0.181	0.289

Table B5. One sample *t*-test statistics (SPSS) for the mean relative frequency of fixations in the same direction as the neighbor (arcsine transformed: $0 \leq h \leq 1.57$) averaged across subjects ($N=12$), tasks, and object types for situations, in which the neighbor was visible either on the left or on the right side of the fixated object.

	N	Mean	Std. Deviation	Std. Error Mean
arcsine_same_right	12	1.010	0.237	0.069
arcsine_same_left	12	1.071	0.182	0.053

Table B6. One sample *t*-test (SPSS) for the mean relative frequency of fixations in the same direction as the neighbor (arcsine transformed) averaged across subjects, tasks and object types (test value = 0.785, that is arcsine transformed chance level) for situations, in which the neighbor was visible either on the left or on the right side of the fixated object.

	Test Value = 0.78539816339745					
	t	df	Sig. (2-tailed)	Mean Difference	95% Confidence Interval of the Difference	
					Lower	Upper
arcsine_same_right	3.279	11	.007	0.224	0.074	0.376
arcsine_same_left	5.437	11	.000	0.286	0.170	0.402

Table B7. Paired samples *t*-test (SPSS) for the mean relative frequency of fixations in the same direction as the neighbor (arcsine transformed: $0 \leq h \leq 1.57$) averaged across subjects, tasks and object types for situations, in which the neighbor was visible either on the left or on the right side of the fixated object.

		Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
					Lower	Upper			
Pair 1	arcsine_same_right - arcsine_same_left	-0.061	0.327	0.094	-0.269	0.146	-0.650	11	.529

Table B8. The combinations of levels of the three within subject factors Task (CT = collect targets, AO = avoid obstacles, BOTH = both at once), Type of Fixated Object (target vs. obstacle), and Type of Neighbor (target vs. obstacle) in the conducted 3-way analysis of variance for the mean relative frequency of fixations in the same direction as the neighbor.

Task	FixObj_type	Neighbor_type	Dependent Variable
1	1	1	arcsine_same.CT.targ.targ
		2	arcsine_same.CT.targ.obst
	2	1	arcsine_same.CT.obst.targ
		2	arcsine_same.CT.obst.obst
2	1	1	arcsine_same.AO.targ.targ
		2	arcsine_same.AO.targ.obst
	2	1	arcsine_same.AO.obst.targ
		2	arcsine_same.AO.obst.obst
3	1	1	arcsine_same.BOTH.targ.targ
		2	arcsine_same.BOTH.targ.obst
	2	1	arcsine_same.BOTH.obst.targ
		2	arcsine_same.BOTH.obst.obst

Table B9. Mauchly's Test of Sphericity (SPSS) of the conducted 3-way analysis of variance for the mean relative frequency of fixations in the same direction as the neighbor (arcsine transformed).

Within Subjects Effect	Mauchly's W	Approx. Chi-Square	df	Sig.	Epsilon ^b		
					Greenhouse-Geisser	Huynh-Feldt	Lower-bound
Task	0.790	2.358	2	.308	0.826	0.954	0.500
FixObj_type	1.000	0.000	0	.	1.000	1.000	1.000
Neighbor_type	1.000	0.000	0	.	1.000	1.000	1.000
Task * FixObj_type	0.736	3.064	2	.216	0.791	0.902	0.500
Task * Neighbor_type	0.825	1.927	2	.382	0.851	0.991	0.500
FixObj_type * Neighbor_type	1.000	0.000	0	.	1.000	1.000	1.000
Task * FixObj_type * Neighbor_type	0.923	0.799	2	.671	0.929	1.000	0.500

Table B10. Tests of Within Subjects Effects (SPSS) of the three within subject factors Task, Type of Fixated Object and Type of Neighbor and their interactions showing sums of squares (Type 3), degrees of freedom, mean squares, F -, and p -values for the mean relative frequency of fixations in the same direction as the neighbor (arcsine transformed: $0 \leq h \leq 1.57$).

Source		Type III Sum of Squares	df	Mean Square	F	Sig.
Task	Sphericity Assumed	0.054	2	0.027	0.235	.793
	Greenhouse-Geisser	0.054	1.653	0.033	0.235	.752
	Huynh-Feldt	0.054	1.908	0.028	0.235	.783
	Lower-bound	0.054	1.000	0.054	0.235	.638
Error (Task)	Sphericity Assumed	2.521	22	0.115		
	Greenhouse-Geisser	2.521	18.181	0.139		
	Huynh-Feldt	2.521	20.987	0.120		
	Lower-bound	2.521	11.000	0.229		
FixObj_type	Sphericity Assumed	2.100	1	2.100	16.556	.002
	Greenhouse-Geisser	2.100	1.000	2.100	16.556	.002
	Huynh-Feldt	2.100	1.000	2.100	16.556	.002
	Lower-bound	2.100	1.000	2.100	16.556	.002
Error (FixObj_type)	Sphericity Assumed	1.395	11	0.127		
	Greenhouse-Geisser	1.395	11.000	0.127		
	Huynh-Feldt	1.395	11.000	0.127		
	Lower-bound	1.395	11.000	0.127		
Neighbor_type	Sphericity Assumed	0.514	1	0.514	7.451	.020
	Greenhouse-Geisser	0.514	1.000	0.514	7.451	.020

	Huynh-Feldt	0.514	1.000	0.514	7.451	.020
	Lower-bound	0.514	1.000	0.514	7.451	.020
Error (Neighbor_type)	Sphericity Assumed	0.758	11	0.069		
	Greenhouse-Geisser	0.758	11.000	0.069		
	Huynh-Feldt	0.758	11.000	0.069		
	Lower-bound	0.758	11.000	0.069		
Task * FixObj_type	Sphericity Assumed	0.029	2	0.014	0.104	.902
	Greenhouse-Geisser	0.029	1.582	0.018	0.104	.858
	Huynh-Feldt	0.029	1.804	0.016	0.104	.883
	Lower-bound	0.029	1.000	0.029	0.104	.753
Error (Task*FixObj_type)	Sphericity Assumed	3.029	22	0.138		
	Greenhouse-Geisser	3.029	17.407	0.174		
	Huynh-Feldt	3.029	19.844	0.153		
	Lower-bound	3.029	11.000	0.275		
Task * Neighbor_type	Sphericity Assumed	1.191	2	0.596	3.764	.039
	Greenhouse-Geisser	1.191	1.702	0.700	3.764	.048
	Huynh-Feldt	1.191	1.981	0.601	3.764	.040
	Lower-bound	1.191	1.000	1.191	3.764	.078
Error (Task*Neighbor_type)	Sphericity Assumed	3.482	22	0.158		
	Greenhouse-Geisser	3.482	18.719	0.186		
	Huynh-Feldt	3.482	21.792	0.160		
	Lower-bound	3.482	11.000	0.317		
FixObj_type *	Sphericity Assumed	0.629	1	0.629	3.041	.109

Neighbor_type	Greenhouse-Geisser	0.629	1.000	0.629	3.041	.109
	Huynh-Feldt	0.629	1.000	0.629	3.041	.109
	Lower-bound	0.629	1.000	0.629	3.041	.109
Error (FixObj_type* Neighbor_type)	Sphericity Assumed	2.274	11	0.207		
	Greenhouse-Geisser	2.274	11.000	0.207		
	Huynh-Feldt	2.274	11.000	0.207		
	Lower-bound	2.274	11.000	0.207		
Task * FixObj_type * Neighbor_type	Sphericity Assumed	0.211	2	0.105	0.745	.486
	Greenhouse-Geisser	0.211	1.857	0.113	0.745	.478
	Huynh-Feldt	0.211	2.000	0.105	0.745	.486
	Lower-bound	0.211	1.000	0.211	0.745	.406
Error (Task*FixObj_type* Neighbor_type)	Sphericity Assumed	3.109	22	0.141		
	Greenhouse-Geisser	3.109	20.431	0.152		
	Huynh-Feldt	3.109	22.000	0.141		
	Lower-bound	3.109	11.000	0.283		

Table B11. Mean, standard error of mean, and confidence interval bounds (SPSS) for the mean relative frequency of fixations in the same direction as the neighbor (arcsine transformed: $0 \leq h \leq 1.57$) separated for the Types of the Fixated Object (target or obstacle) averaged across subjects ($N=12$), Task, and Type of Neighbor.

FixObj_type	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
target	1.102	0.032	1.032	1.173
obstacle	0.861	0.045	0.763	0.959

Table B12. One sample post-hoc *t*-test (SPSS) for the mean relative frequencies of fixations in the same direction as the neighbor (arcsine transformed: $0 \leq h \leq 1.57$) for the Types of Fixated Object (target or obstacle) averaged across subjects ($N=12$), Tasks, and Types of Neighbor (test value = 0.785, that is arcsine transformed chance level).

	Test Value = 0.78539816339745					
	t	df	Sig. (2-tailed)	Mean Difference	95% Confidence Interval of the Difference	
					Lower	Upper
arcsine_fixobj_ target	9.851	11	.000	0.317	0.246	0.388
arcsine_fixobj_ obstacle	1.696	11	.118	0.076	-0.023	0.174

Table B13. Mean, standard error of mean, and confidence interval bounds (SPSS) for the mean relative frequency of fixations in the same direction as the neighbor (arcsine transformed: $0 \leq h \leq 1.57$) separated for the Types of Neighbor (target or obstacle) averaged across subjects ($N=12$), Tasks, and Types of Fixated Object.

Neighbor_type	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
target	1.041	0.033	0.969	1.114
obstacle	0.922	0.033	0.848	0.996

Table B14. One sample post-hoc *t*-test (SPSS) for the mean relative frequencies of fixations in the same direction as the neighbor (arcsine transformed: $0 \leq h \leq 1.57$) for the Types of Neighbor (target or obstacle) averaged across subjects ($N=12$), Tasks, and Types of Fixated Object (test value = 0.785, that is arcsine transformed chance level).

	Test Value = 0.78539816339745					
	t	df	Sig. (2-tailed)	Mean Difference	95% Confidence Interval of the Difference	
					Lower	Upper
arcsine_neighbor_ target	7.743	11	.000	0.256	0.183	0.329
arcsine_neighbor_ obstacle	4.078	11	.002	0.137	0.063	0.210

Table B15. Mean, standard error of mean, and confidence interval bounds (SPSS) for the mean relative frequency of fixations in the same direction as the neighbor (arcsine transformed: $0 \leq h \leq 1.57$) separated for the three Tasks (collect targets, avoid obstacles or both at once) averaged across subjects ($N=12$), Types of Fixated Object, and Types of Neighbor.

Task	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
CT	1.002	0.049	0.894	1.111
AO	0.956	0.050	0.846	1.066
BOTH	0.987	0.042	0.895	1.078

Table B16. One sample post-hoc *t*-test (SPSS) for the mean relative frequencies of fixations in the same direction as the neighbor (arcsine transformed: $0 \leq h \leq 1.57$) for the three different Tasks (collect targets, avoid obstacles or do both at once) averaged across subjects ($N=12$), Types of Fixated Object, and Types of Neighbor (test value = 0.785, that is arcsine transformed chance level).

	Test Value = 0.78539816339745					
	t	df	Sig. (2-tailed)	Mean Difference	95% Confidence Interval of the Difference	
					Lower	Upper
arcsine_CT	4.398	11	.001	0.217	0.108	0.326
arcsine_AO	3.408	11	.006	0.170	0.060	0.281
arcsine_BOTH	4.852	11	.001	0.201	0.110	0.293

Table B17. Mean, standard error of mean, and confidence interval bounds (SPSS) for the mean relative frequency of fixations in the same direction as the neighbor (arcsine transformed: $0 \leq h \leq 1.57$) separated for all combinations of the three Tasks (collect targets, avoid obstacles or both at once) and the Types of Neighbor (target or obstacle) averaged across subjects ($N=12$) and Type of Fixated Object.

Task	Neighbor_type	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
CT	target	1.078	0.082	0.898	1.259
	obstacle	0.926	0.039	0.841	1.012
AO	target	0.897	0.093	0.693	1.101
	obstacle	1.015	0.079	0.840	1.189
BOTH	target	1.149	0.060	1.017	1.281
	obstacle	0.825	0.052	0.710	0.939

Table B18. One sample post-hoc t-test (SPSS) for the mean relative frequencies of fixations in the same direction as the neighbor (arcsine transformed: $0 \leq h \leq 1.57$) separated for all combinations of the three Tasks (collect targets, avoid obstacles or both at once) and the Types of Neighbor (target or obstacle) averaged across subjects ($N=12$) and Types of Fixated Object (test value = 0.785, that is arcsine transformed chance level).

	Test Value = 0.78539816339745					
	t	df	Sig. (2-tailed)	Mean Difference	95% Confidence Interval of the Difference	
					Lower	Upper
arcsine_ nbTarg_CT	3.573	11	.004	0.293	0.113	0.474
arcsine_ nbObst_CT	3.646	11	.004	0.141	0.056	0.226
arcsine_ nbTarg_AO	1.205	11	.253	0.112	-0.092	0.315
arcsine_ nbObst_AO	2.896	11	.015	0.229	0.055	0.404
arcsine_ nbTarg_BOTH	6.052	11	.000	0.363	0.231	0.496
arcsine_ nbObst_BOTH	0.753	11	.467	0.039	-0.075	0.154

Table B19. Paired samples post-hoc *t*-test (SPSS) for the mean relative frequencies of fixations in the same direction as the neighbor (arcsine transformed: $0 \leq h \leq 1.57$) separated for all combinations of the three Tasks (collect targets, avoid obstacles or both at once) and the Types of Neighbor (target or obstacle) averaged across subjects ($N=12$) and Types of Fixated Object (test value = 0.785, that is arcsine transformed chance level).

		Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
					Lower	Upper			
Pair 1	arcsine_ nbTarg_CT - arcsine_ nbObst_CT	0.152	0.284	0.082	-0.028	0.332	1.856	11	.090
Pair 2	arcsine_ nbTarg_AO - arcsine_ nbObst_AO	-0.118	0.486	0.140	-0.427	0.191	-0.840	11	.419
Pair 3	arcsine_ nbTarg_BOTH - arcsine_ nbObst_BOTH	0.324	0.263	0.076	0.157	0.491	4.275	11	.001
Pair 4	arcsine_ nbTarg_CT - arcsine_ nbTarg_AO	0.181	0.523	0.151	-0.151	0.513	1.202	11	.255
Pair 5	arcsine_ nbTarg_CT - arcsine_ nbTarg_BOTH	-0.071	0.351	0.101	-0.293	0.152	-0.696	11	.501
Pair 6	arcsine_ nbTarg_AO - arcsine_ nbTarg_BOTH	-0.252	0.408	0.118	-0.511	0.007	-2.140	11	.056

Pair 7	arcsine_ nbObst_CT - arcsine_ nbObst_AO	-0.088	0.275	0.079	-0.263	0.086	-1.113	11	.290
Pair 8	arcsine_ nbObst_CT - arcsine_ nbObst_BOTH	0.102	0.229	0.066	-0.044	0.248	1.536	11	.153
Pair 9	arcsine_ nbObst_AO - arcsine_ nbObst_BOTH	0.190	0.358	0.103	-0.037	0.417	1.842	11	.093

Table B20. Mean, standard error of mean, and confidence interval bounds (SPSS) for the mean relative frequency of fixations in the same direction as the neighbor (arcsine transformed: $0 \leq h \leq 1.57$) separated for all combinations of the three Tasks (collect targets, avoid obstacles or both at once) and the Types of Fixated Object (target or obstacle) averaged across subjects ($N=12$) and Type of Neighbor.

Task	FixObj_type	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
CT	target	1.132	0.074	0.969	1.295
	obstacle	0.872	0.071	0.715	1.030
AO	target	1.057	0.074	0.893	1.220
	obstacle	0.855	0.082	0.674	1.036
BOTH	target	1.118	0.042	1.025	1.211
	obstacle	0.855	0.074	0.693	1.018

Table B21. Mean, standard error of mean, and confidence interval bounds (SPSS) for the mean relative frequency of fixations in the same direction as the neighbor (arcsine transformed: $0 \leq h \leq 1.57$) separated for all combinations of the Types of Fixated Object (target or obstacle) and the Types of Neighbor (target or obstacle) averaged across subjects ($N=12$) and Tasks.

FixObj_type	Neighbor_type	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
target	target	1.096	0.062	0.960	1.232
	obstacle	1.109	0.036	1.031	1.187
obstacle	target	0.987	0.075	0.822	1.151
	obstacle	0.735	0.055	0.614	0.856

Table B22. Mean, standard error of mean, and confidence interval bounds (SPSS) for the mean relative frequency of fixations in the same direction as the neighbor (arcsine transformed: $0 \leq h \leq 1.57$) separated for all combinations of the three Tasks (collect targets, avoid obstacles or both at once), the Types of Fixated Object (target or obstacle) and the Types of Neighbor (target or obstacle) averaged across subjects ($N=12$).

Task	FixObj_type	Neighbor_type	Mean	Std. Error	95% Confidence Interval	
					Lower Bound	Upper Bound
CT	target	target	1.169	0.102	0.944	1.394
		obstacle	1.096	0.074	0.932	1.260
	obstacle	target	0.988	0.145	0.668	1.307
		obstacle	0.757	0.019	0.715	0.799
AO	target	target	0.878	0.120	0.613	1.142
		obstacle	1.236	0.105	1.006	1.466
	obstacle	target	0.916	0.135	0.620	1.213
		obstacle	0.794	0.137	0.492	1.095
BOTH	target	target	1.241	0.074	1.078	1.405
		obstacle	0.995	0.044	0.899	1.091
	obstacle	target	1.056	0.135	0.760	1.352
		obstacle	0.654	0.088	0.460	0.849

Table B23. The combinations of levels of the three within subject factors Task (CT = collect targets, AO = avoid obstacles, BOTH = both at once), Type of Fixated Object (target vs. obstacle) and Type of Neighbor (target vs. obstacle) in the conducted 3-way analysis of variance for the arcsine-transformed mean relative frequency of fixations on the right-hand side of the object center.

Task	FixObj_type	Neighbor_type	Dependent Variable
1	1	1	arcsine_ fixright_CT.targ.targ
		2	arcsine_ fixright_CT.targ.obst
	2	1	arcsine_ fixright_CT.obst.targ
		2	arcsine_ fixright_CT.obst.obst
2	1	1	arcsine_ fixright_AO.targ.targ
		2	arcsine_ fixright_AO.targ.obst
	2	1	arcsine_ fixright_AO.obst.targ
		2	arcsine_ fixright_AO.obst.obst
3	1	1	arcsine_ fixright_BOTH.targ.targ
		2	arcsine_ fixright_BOTH.targ.obst
	2	1	arcsine_ fixright_BOTH.obst.targ
		2	arcsine_ fixright_BOTH.obst.obst

Table B24. Tests of Within Subjects Effects (SPSS) of the three within subject factors Task, Type of Fixated Object, and Type of Neighbor and their interactions showing sums of squares (Type 3), degrees of freedom, mean squares, *F*- and *p*-values for the mean relative frequency of fixations on the right-hand side of the object center (arcsine transformed: $0 \leq h \leq 1.57$).

Source		Type III Sum of Squares	df	Mean Square	F	Sig.
Task	Sphericity Assumed	0.118	2	0.059	0.267	.768
	Greenhouse-Geisser	0.118	1.953	0.060	0.267	.763
	Huynh-Feldt	0.118	2.000	0.059	0.267	.768
	Lower-bound	0.118	1.000	0.118	0.267	.616
Error (Task)	Sphericity Assumed	4.864	22	0.221		
	Greenhouse-Geisser	4.864	21.487	0.226		
	Huynh-Feldt	4.864	22.000	0.221		
	Lower-bound	4.864	11.000	0.442		
FixObj_type	Sphericity Assumed	0.735	1	0.735	9.026	.012
	Greenhouse-Geisser	0.735	1.000	0.735	9.026	.012
	Huynh-Feldt	0.735	1.000	0.735	9.026	.012
	Lower-bound	0.735	1.000	0.735	9.026	.012
Error (FixObj_type)	Sphericity Assumed	0.896	11	0.081		
	Greenhouse-Geisser	0.896	11.000	0.081		
	Huynh-Feldt	0.896	11.000	0.081		
	Lower-bound	0.896	11.000	0.081		
Neighbor_type	Sphericity Assumed	0.118	1	0.118	0.615	.449
	Greenhouse-Geisser	0.118	1.000	0.118	0.615	.449
	Huynh-Feldt	0.118	1.000	0.118	0.615	.449

	Lower-bound	0.118	1.000	0.118	0.615	.449
Error (Neighbor_type)	Sphericity Assumed	2.104	11	0.191		
	Greenhouse-Geisser	2.104	11.000	0.191		
	Huynh-Feldt	2.104	11.000	0.191		
	Lower-bound	2.104	11.000	0.191		
Task * FixObj_type	Sphericity Assumed	0.220	2	0.110	0.959	.399
	Greenhouse-Geisser	0.220	1.464	0.151	0.959	.377
	Huynh-Feldt	0.220	1.633	0.135	0.959	.385
	Lower-bound	0.220	1.000	0.220	0.959	.348
Error (Task*FixObj_type)	Sphericity Assumed	2.528	22	0.115		
	Greenhouse-Geisser	2.528	16.109	0.157		
	Huynh-Feldt	2.528	17.965	0.141		
	Lower-bound	2.528	11.000	0.230		
Task * Neighbor_type	Sphericity Assumed	0.102	2	0.051	0.306	.740
	Greenhouse-Geisser	0.102	1.209	0.084	0.306	.632
	Huynh-Feldt	0.102	1.278	0.080	0.306	.644
	Lower-bound	0.102	1.000	0.102	0.306	.591
Error (Task*Neighbor_type)	Sphericity Assumed	3.671	22	0.167		
	Greenhouse-Geisser	3.671	13.303	0.276		
	Huynh-Feldt	3.671	14.058	0.261		
	Lower-bound	3.671	11.000	0.334		
FixObj_type * Neighbor_type	Sphericity Assumed	1.072	1	1.072	11.792	.006
	Greenhouse-Geisser	1.072	1.000	1.072	11.792	.006

	Huynh-Feldt	1.072	1.000	1.072	11.792	.006
	Lower-bound	1.072	1.000	1.072	11.792	.006
Error (FixObj_type* Neighbor_type)	Sphericity Assumed	1.000	11	0.091		
	Greenhouse-Geisser	1.000	11.000	0.091		
	Huynh-Feldt	1.000	11.000	0.091		
	Lower-bound	1.000	11.000	0.091		
Task * FixObj_type * Neighbor_type	Sphericity Assumed	0.044	2	0.022	0.137	.873
	Greenhouse-Geisser	0.044	1.948	0.023	0.137	.868
	Huynh-Feldt	0.044	2.000	0.022	0.137	.873
	Lower-bound	0.044	1.000	0.044	0.137	.719
Error (Task*FixObj_type* Neighbor_type)	Sphericity Assumed	3.560	22	0.162		
	Greenhouse-Geisser	3.560	21.427	0.166		
	Huynh-Feldt	3.560	22.000	0.162		
	Lower-bound	3.560	11.000	0.324		

Table B25. Mean, standard error of mean, and confidence interval bounds (SPSS) for the mean relative frequency of fixations on the right-hand side of the object center (arcsine transformed: $0 \leq h \leq 1.57$) separated for the Types of Fixated Object (target or obstacle) averaged across subjects ($N=12$), Tasks, and Types of Neighbor.

FixObj_type	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
target	0.635	0.037	0.553	0.717
obstacle	0.778	0.054	0.659	0.897

Table B26. One sample post-hoc *t*-test (SPSS) for the mean relative frequency of fixations on the right-hand side of the object center (arcsine transformed: $0 \leq h \leq 1.57$) for the Types of Fixated Object (target or obstacle) averaged across subjects ($N=12$), Tasks, and Types of Neighbor (test value = 0.785, that is arcsine transformed chance level).

	Test Value = 0.78539816339745					
	t	df	Sig. (2-tailed)	Mean Difference	95% Confidence Interval of the Difference	
					Lower	Upper
arcsine_fixright_ fixobj_target	-4.054	11	.002	-0.150	-0.232	-0.069
arcsine_fixright_ fixobj_obstacle	-0.137	11	.893	-0.007	-0.127	0.112

Table B27. Paired samples post-hoc *t*-test (SPSS) for the mean relative frequency of fixations on the right-hand side of the object center (arcsine transformed: $0 \leq h \leq 1.57$) for all combinations of Type of Fixated Object (target or obstacle) and Type of Neighbor (target or obstacle) averaged across subjects ($N=12$) and Tasks.

		Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
					Lower	Upper			
Pair 1	fixTarget_ nbTarget - fixTarget_ nbObstacle	0.230	0.305	0.088	0.036	0.424	2.607	11	.024
Pair 2	fixObstacle_ nbTarget - fixObstacle_ nbObstacle	-0.115	0.308	0.089	-0.311	0.080	-1.298	11	.221
Pair 3	fixTarget_ nbTarget - fixObstacle_ nbTarget	0.030	0.308	0.089	-0.166	0.225	0.334	11	.744
Pair 4	fixTarget_ nbObstacle - fixObstacle_ nbObstacle	-0.315	0.142	0.041	-0.406	-0.225	-7.693	11	.000

Table B28. Mean, standard error of mean, and confidence interval bounds (SPSS) for the mean relative frequency of fixations on the right-hand side of the object center (arcsine transformed: $0 \leq h \leq 1.57$) separated for all combinations of the Type of Fixated Object (target or obstacle) and the Type of Neighbor (target or obstacle) averaged across subjects ($N=12$) and Tasks.

FixObj_type	Neighbor_type	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
target	target	0.750	0.069	0.597	0.903
	obstacle	0.520	0.043	0.426	0.614
obstacle	target	0.720	0.083	0.538	0.903
	obstacle	0.836	0.054	0.716	0.955

Table B29. One sample post-hoc *t*-test (SPSS) for the mean relative frequency of fixations on the right-hand side of the object center (arcsine transformed: $0 \leq h \leq 1.57$) for all combinations of Type of Fixated Object (target or obstacle) and Type of Neighbor (target or obstacle) averaged across subjects ($N=12$) and Tasks (test value = 0.785, that is arcsine transformed chance level).

	Test Value = 0.78539816339745					
	t	df	Sig. (2-tailed)	Mean Difference	95% Confidence Interval of the Difference	
					Lower	Upper
arcsine_fixright_ fixTarget_nbTarget	-0.511	11	.619	-0.035	-0.188	0.117
arcsine_fixright_ fixTarget_nbObstacle	-6.199	11	.000	-0.265	-0.359	-0.171
arcsine_fixright_ fixObstacle_nbTarget	-0.786	11	.448	-0.065	-0.248	0.117
arcsine_fixright_ fixObstacle_nbObstacle	0.927	11	.374	0.050	-0.069	0.170

Table B30. Mean, standard error of mean, and confidence interval bounds (SPSS) for the mean relative frequency of fixations on the right-hand side of the object center (arcsine transformed: $0 \leq h \leq 1.57$) separated for the Types of Neighbor (target or obstacle) averaged across subjects ($N=12$), Tasks, and Type of Fixated Object.

Neighbor_type	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
target	0.735	0.062	0.598	0.872
obstacle	0.678	0.044	0.580	0.776

Table B31. Mean, standard error of mean and confidence interval bounds (SPSS) for the mean relative frequency of fixations on the right-hand side of the object center (arcsine transformed: $0 \leq h \leq 1.57$) separated for the three Tasks (collect targets, avoid obstacles or both at once) averaged across subjects ($N=12$), Types of Fixated Object, and Types of Neighbor.

Task	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
CT	0.726	0.068	0.577	0.875
AO	0.666	0.070	0.513	0.820
BOTH	0.727	0.067	0.579	0.875

Table B32. Mean, standard error of mean and confidence interval bounds (SPSS) for the mean relative frequency of fixations on the right-hand side of the object center (arcsine transformed: $0 \leq h \leq 1.57$) separated for all combinations of the three Tasks (collect targets, avoid obstacles or both at once) and the Types of Fixated Object (target or obstacle) averaged across subjects ($N=12$) and Types of Neighbor.

Task	FixObj_type	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
CT	target	0.690	0.067	0.542	0.838
	obstacle	0.763	0.088	0.568	0.957
AO	target	0.540	0.088	0.347	0.733
	obstacle	0.792	0.100	0.572	1.012
BOTH	target	0.675	0.050	0.565	0.786
	obstacle	0.779	0.092	0.577	0.981

Table B33. Mean, standard error of mean, and confidence interval bounds (SPSS) for the mean relative frequency of fixations on the right-hand side of the object center (arcsine transformed: $0 \leq h \leq 1.57$) separated for all combinations of the three Tasks (collect targets, avoid obstacles or both at once) and the Types of Neighbor (target or obstacle) averaged across subjects ($N=12$) and Types of Fixated Object.

Task	Neighbor_type	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
CT	target	0.761	0.115	0.507	1.015
	obstacle	0.692	0.041	0.600	0.783
AO	target	0.724	0.119	0.462	0.985
	obstacle	0.608	0.099	0.391	0.826
BOTH	target	0.721	0.094	0.515	0.926
	obstacle	0.734	0.046	0.632	0.836

Table B34. Mauchly's Test of Sphericity (SPSS) of the conducted 3-way analysis of variance for the mean relative frequency of fixations on the right-hand side of the object center (arcsine transformed: $0 \leq h \leq 1.57$).

Within Subjects Effect	Mauchly's W	Approx. Chi-Square	df	Sig.	Epsilon ^b		
					Greenhouse-Geisser	Huynh-Feldt	Lower-bound
Task	0.976	0.242	2	.886	0.977	1.000	0.500
FixObj_type	1.000	0.000	0	.	1.000	1.000	1.000
Neighbor_type	1.000	0.000	0	.	1.000	1.000	1.000
Task * FixObj_type	0.634	4.552	2	.103	0.732	0.817	0.500
Task * Neighbor_type	0.346	10.607	2	.005	0.605	0.639	0.500
FixObj_type * Neighbor_type	1.000	0.000	0	.	1.000	1.000	1.000
Task * FixObj_type * Neighbor_type	0.973	0.271	2	.873	0.974	1.000	0.500

Table B35. Mean, standard error of mean and confidence interval bounds (SPSS) for the mean relative frequency of fixations on the right-hand side of the object center (arcsine transformed: $0 \leq h \leq 1.57$) separated for all combinations of the three Tasks (collect targets, avoid obstacles or both at once), the Types of Fixated Object (target or obstacle) and the Types of Neighbor (target or obstacle) averaged across subjects ($N=12$).

Task	FixObj_type	Neighbor_type	Mean	Std. Error	95% Confidence Interval	
					Lower Bound	Upper Bound
CT	target	target	0.810	0.082	0.630	0.990
		obstacle	0.570	0.081	0.390	0.749
	obstacle	target	0.712	0.180	0.315	1.108
		obstacle	0.814	0.019	0.772	0.856
AO	target	target	0.706	0.152	0.372	1.040
		obstacle	0.374	0.100	0.155	0.594
	obstacle	target	0.742	0.154	0.403	1.081
		obstacle	0.842	0.152	0.508	1.177
BOTH	target	target	0.734	0.093	0.530	0.938
		obstacle	0.617	0.048	0.512	0.722
	obstacle	target	0.707	0.138	0.404	1.011
		obstacle	0.851	0.065	0.707	0.995

Table B36. The combinations of levels of the three within subject factors Task (CT = collect targets, AO = avoid obstacles, BOTH = both at once), Type of Fixated Object (target vs. obstacle) and Type of Neighbor (target vs. obstacle) in the conducted 3-way analysis of variance for the arcsine-transformed mean relative frequency of the neighbor being on the right-hand side of the object center.

Task	FixObj_type	Neighbor_type	Dependent Variable
1	1	1	arcsine_ rightneighbor _CT.targ.targ
		2	arcsine_ rightneighbor _CT.targ.obst
	2	1	arcsine_ rightneighbor _CT.obst.targ
		2	arcsine_ rightneighbor _CT.obst.obst
2	1	1	arcsine_ rightneighbor _AO.targ.targ
		2	arcsine_ rightneighbor _AO.targ.obst
	2	1	arcsine_ rightneighbor _AO.obst.targ
		2	arcsine_ rightneighbor _AO.obst.obst
3	1	1	arcsine_ rightneighbor _BOTH.targ.targ
		2	arcsine_ rightneighbor _BOTH.targ.obst
	2	1	arcsine_ rightneighbor _BOTH.obst.targ
		2	arcsine_ rightneighbor _BOTH.obst.obst

Table B37. Mauchly's Test of Sphericity (SPSS) of the conducted 3-way analysis of variance for the mean relative frequency of the neighbor being on the right-hand side of the object center (arcsine transformed: $0 \leq h \leq 1.57$).

Within Subjects Effect	Mauchly's W	Approx. Chi-Square	df	Sig.	Epsilon ^b		
					Greenhouse-Geisser	Huynh-Feldt	Lower-bound
Task	0.879	1.289	2	.525	0.892	1.000	0.500
FixObj_type	1.000	0.000	0	.	1.000	1.000	1.000
Neighbor_type	1.000	0.000	0	.	1.000	1.000	1.000
Task * FixObj_type	0.460	7.755	2	.021	0.650	0.700	0.500
Task * Neighbor_type	0.786	2.402	2	.301	0.824	0.950	.500
FixObj_type * Neighbor_type	1.000	0.000	0	.	1.000	1.000	1.000
Task * FixObj_type * Neighbor_type	0.709	3.434	2	.180	0.775	0.878	0.500

Table B38. Mean, standard error of mean, and confidence interval bounds (SPSS) for the mean relative frequency of the neighbor being on the right-hand side of the object center (arcsine transformed: $0 \leq h \leq 1.57$) separated for the three Tasks (collect targets, avoid obstacles or both at once) averaged across subjects ($N=12$), Types of Fixated Object, and Type of Neighbor.

Task	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
CT	0.595	0.051	0.483	0.708
AO	0.612	0.067	0.465	0.759
BOTH	0.618	0.043	0.523	0.714

Table B39. Tests of Within Subjects Effects (SPSS) of the three within subject factors Task, Type of Fixated Object, and Type of Neighbor and their interactions showing sums of squares (Type 3), degrees of freedom, mean squares, *F*- and *p*-values for the mean relative frequency of the neighbor being on the right-hand side of the object center (arcsine transformed: $0 \leq h \leq 1.57$).

Source		Type III Sum of Squares	df	Mean Square	F	Sig.
Task	Sphericity Assumed	0.014	2	0.007	0.041	.960
	Greenhouse-Geisser	0.014	1.784	0.008	0.041	.947
	Huynh-Feldt	0.014	2.000	0.007	0.041	.960
	Lower-bound	0.014	1.000	0.014	0.041	.844
Error (Task)	Sphericity Assumed	3.672	22	0.167		
	Greenhouse-Geisser	3.672	19.626	0.187		
	Huynh-Feldt	3.672	22.000	0.167		
	Lower-bound	3.672	11.000	0.334		
FixObj_type	Sphericity Assumed	0.638	1	0.638	5.512	.039
	Greenhouse-Geisser	0.638	1.000	0.638	5.512	.039
	Huynh-Feldt	0.638	1.000	0.638	5.512	.039
	Lower-bound	0.638	1.000	0.638	5.512	.039
Error (FixObj_type)	Sphericity Assumed	1.273	11	0.116		
	Greenhouse-Geisser	1.273	11.000	0.116		

	Huynh-Feldt	1.273	11.000	0.116		
	Lower-bound	1.273	11.000	0.116		
Neighbor_type	Sphericity Assumed	0.903	1	0.903	4.829	.050
	Greenhouse-Geisser	0.903	1.000	0.903	4.829	.050
	Huynh-Feldt	0.903	1.000	0.903	4.829	.050
	Lower-bound	0.903	1.000	0.903	4.829	.050
Error (Neighbor_type)	Sphericity Assumed	2.056	11	0.187		
	Greenhouse-Geisser	2.056	11.000	0.187		
	Huynh-Feldt	2.056	11.000	0.187		
	Lower-bound	2.056	11.000	0.187		
Task * FixObj_type	Sphericity Assumed	0.660	2	0.330	3.603	.044
	Greenhouse-Geisser	0.660	1.299	0.508	3.603	.070
	Huynh-Feldt	0.660	1.401	0.471	3.603	.065
	Lower-bound	0.660	1.000	0.660	3.603	.084
Error (Task*FixObj_type)	Sphericity Assumed	2.014	22	0.092		
	Greenhouse-Geisser	2.014	14.290	0.141		
	Huynh-Feldt	2.014	15.409	0.131		
	Lower-bound	2.014	11.000	0.183		

Task * Neighbor_type	Sphericity Assumed	0.207	2	0.103	0.907	.418
	Greenhouse-Geisser	0.207	1.648	0.126	0.907	.403
	Huynh-Feldt	0.207	1.901	0.109	0.907	.414
	Lower-bound	0.207	1.000	0.207	0.907	.361
Error (Task*Neighbor_type)	Sphericity Assumed	2.511	22	0.114		
	Greenhouse-Geisser	2.511	18.129	0.139		
	Huynh-Feldt	2.511	20.910	0.120		
	Lower-bound	2.511	11.000	0.228		
FixObj_type * Neighbor_type	Sphericity Assumed	1.420	1	1.420	11.956	.005
	Greenhouse-Geisser	1.420	1.000	1.420	11.956	.005
	Huynh-Feldt	1.420	1.000	1.420	11.956	.005
	Lower-bound	1.420	1.000	1.420	11.956	.005
Error (FixObj_type* Neighbor_type)	Sphericity Assumed	1.307	11	0.119		
	Greenhouse-Geisser	1.307	11.000	0.119		
	Huynh-Feldt	1.307	11.000	0.119		
	Lower-bound	1.307	11.000	0.119		
Task * FixObj_type * Neighbor_type	Sphericity Assumed	0.148	2	0.074	0.456	.639

Error (Task*FixObj_type* Neighbor_type)	Greenhouse-Geisser	0.148	1.550	0.096	0.456	.592
	Huynh-Feldt	0.148	1.756	0.084	0.456	.615
	Lower-bound	0.148	1.000	0.148	0.456	.513
	Sphericity Assumed	3.572	22	0.162		
	Greenhouse-Geisser	3.572	17.045	0.210		
	Huynh-Feldt	3.572	19.316	0.185		
	Lower-bound	3.572	11.000	0.325		

Table B40. Mean, standard error of mean, and confidence interval bounds (SPSS) for the mean relative frequency of the neighbor being on the right-hand side of the object center (arcsine transformed: $0 \leq h \leq 1.57$) separated for the Types of Neighbor (target or obstacle) averaged across subjects ($N=12$), Tasks, and Type of Fixated Object.

Neighbor_type	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
target	0.688	0.053	0.570	0.805
obstacle	0.529	0.033	0.457	0.602

Table B41. Mean, standard error of mean, and confidence interval bounds (SPSS) for the mean relative frequency of the neighbor being on the right-hand side of the object center (arcsine transformed: $0 \leq h \leq 1.57$) separated for the Types of Fixated Object (target or obstacle) averaged across subjects ($N=12$), Tasks, and Type of Neighbor.

FixObj_type	Mean	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound
target	0.542	0.035	0.466	0.618
obstacle	0.675	0.042	0.583	0.767

Table B42. One sample post-hoc *t*-test (SPSS) for the mean relative frequency of the neighbor being on the right-hand side of the object center (arcsine transformed: $0 \leq h \leq 1.57$) for the Types of Fixated Object (target or obstacle) averaged across subjects ($N=12$), Tasks, and Types of Neighbor (test value = 0.785, that is arcsine transformed chance level).

	Test Value = 0.78539816339745					
	t	df	Sig. (2-tailed)	Mean Difference	95% Confidence Interval of the Difference	
					Lower	Upper
arcsine_rightneighbor_ fixobj_target	-7.014	11	.000	-0.243	-0.320	-0.167
arcsine_rightneighbor_ fixobj_obstacle	-2.636	11	.023	-0.110	-0.202	-0.018

Table B43. Mean, standard error of mean, and confidence interval bounds (SPSS) for the mean relative frequency of the neighbor being on the right-hand side of the object center (arcsine transformed: $0 \leq h \leq 1.57$) separated for all combinations of the Types of Fixated object (target or obstacle) and the Types of Neighbor (target or obstacle) averaged across subjects ($N=12$) and Tasks.

FixObj_type	Neighbor_type	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
target	target	0.721	0.040	0.632	0.809
	obstacle	0.364	0.043	0.269	0.458
obstacle	target	0.655	0.087	0.464	0.846
	obstacle	0.695	0.059	0.567	0.824

Table B44. One sample post-hoc *t*-test (SPSS) for the mean relative of the neighbor being on the right-hand side of the object center (arcsine transformed: $0 \leq h \leq 1.57$) for all combinations of Types of Fixated Object (target or obstacle) and Types of Neighbor (target or obstacle) averaged across subjects ($N=12$) and Tasks (test value = 0.785, that is arcsine transformed chance level).

	Test Value = 0.78539816339745					
	t	df	Sig. (2-tailed)	Mean Difference	95% Confidence Interval of the Difference	
					Lower	Upper
arcsine_rightneighbor_fixTarget_nbTarget	-1.619	11	.134	-0.0648	-0.153	0.023
arcsine_rightneighbor_fixTarget_nbObstacle	-9.803	11	.000	-0.4218	-0.517	-0.327
arcsine_rightneighbor_fixObstacle_nbTarget	-1.503	11	.161	-0.1303	-0.321	0.061
arcsine_rightneighbor_fixObstacle_nbObstacle	-1.539	11	.152	-0.0901	-0.219	0.039

Table B45. Paired samples post-hoc *t*-test (SPSS) for the mean relative frequency of the neighbor being on the right-hand side of the object center (arcsine transformed: $0 \leq h \leq 1.57$) for all combinations of Types of Fixated Object (target or obstacle) and Types of Neighbor (target or obstacle) averaged across subjects ($N=12$) and Tasks.

		Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
					Lower	Upper			
Pair 1	fixTarget_nbTarget	0.357	0.159	0.0456	0.256	0.458	7.798	11	.000
	fixTarget_nbObstacle								
Pair 2	fixObstacle_nbTarget	-0.040	0.423	0.122	-0.309	0.228	-0.330	11	.748
	fixObstacle_nbObstacle								
Pair 3	fixTarget_nbTarget	0.066	0.286	0.082	-0.116	0.247	0.794	11	.444
	fixObstacle_nbTarget								
Pair 4	fixTarget_nbObstacle	-0.332	0.273	0.079	-0.505	-0.158	-4.204	11	.001
	fixObstacle_nbObstacle								

Table B46. Mean, standard error of mean, and confidence interval bounds (SPSS) for the mean relative frequency of the neighbor being on the right-hand side of the object center (arcsine transformed: $0 \leq h \leq 1.57$) separated for all combinations of the three Tasks (collect targets, avoid obstacles or both at once) and the Types of Fixated Object (target or obstacle) averaged across subjects ($N=12$) and Types of Neighbor.

Task	FixObj_type	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
CT	target	0.599	0.052	0.484	0.714
	obstacle	0.592	0.086	0.402	0.782
AO	target	0.454	0.077	0.285	0.623
	obstacle	0.770	0.085	0.583	0.958
BOTH	target	0.574	0.045	0.474	0.673
	obstacle	0.663	0.071	0.508	0.819

Table B47. Mean, standard error of mean and confidence interval bounds (SPSS) for the mean relative frequency of the neighbor being on the right-hand side of the object center (arcsine transformed: $0 \leq h \leq 1.57$) separated for all combinations of the three Tasks (collect targets, avoid obstacles or both at once) and the Types of Neighbor (target or obstacle) averaged across subjects ($N=12$) and Types of Fixated Object.

Task	Neighbor_type	Mean	Std. Error	95% Confidence Interval	
				Lower Bound	Upper Bound
CT	target	0.635	0.082	0.455	0.815
	obstacle	0.556	0.046	0.455	0.656
AO	target	0.743	0.101	0.520	0.965
	obstacle	0.482	0.074	0.319	0.644
BOTH	target	0.686	0.087	0.494	0.877
	obstacle	0.551	0.057	0.425	0.677

Table B48. Mean, standard error of mean, and confidence interval bounds (SPSS) for the mean relative frequency of the neighbor being on the right-hand side of the object center (arcsine transformed: $0 \leq h \leq 1.57$) separated for all combinations of the three Tasks (collect targets, avoid obstacles or both at once), the Types of the Fixated Object (target or obstacle) and the Types of Neighbor (target or obstacle) averaged across subjects ($N=12$).

Task	FixObj_type	Neighbor_type	Mean	Std. Error	95% Confidence Interval	
					Lower Bound	Upper Bound
CT	target	target	0.741	0.058	0.612	0.869
		obstacle	0.457	0.069	0.305	0.609
	obstacle	target	0.530	0.137	0.228	0.831
		obstacle	0.654	0.088	0.460	0.849
AO	target	target	0.721	0.122	0.453	0.990
		obstacle	0.187	0.086	-0.003	0.376
	obstacle	target	0.764	0.138	0.459	1.068
		obstacle	0.777	0.137	0.476	1.078
BOTH	target	target	0.700	0.061	0.564	0.835
		obstacle	0.447	0.050	0.337	0.558
	obstacle	target	0.672	0.152	0.336	1.008
		obstacle	0.654	0.088	0.460	0.849

Table B49. One sample *t*-test statistics (SPSS) for the mean relative frequency of fixations on the right-hand side of the object center (arcsine transformed: $0 \leq h \leq 1.57$) averaged across subjects ($N=12$), tasks, object types, and directions, for situations, in which only one object was visible.

	N	Mean	Std. Deviation	Std. Error Mean
arcsine_fixright_1	12	0.758	0.140	0.040

Table B50. One sample *t*-test (SPSS) for the overall mean relative frequency of fixations on the right-hand side of the object center (arcsine transformed) averaged across subjects, tasks, object types, and directions (test value = 0.785), for situations, in which only one object was visible.

	Test Value = 0.78539816339745					
	t	df	Sig. (2-tailed)	Mean Difference	95% Confidence Interval of the Difference	
					Lower	Upper
arcsine_fixright_1	-0.682	11	.509	-0.028	-0.116	0.061

Table B51. One sample *t*-test statistics (SPSS) for the mean relative frequency of fixations on the right-hand side of the object center (arcsine transformed: $0 \leq h \leq 1.57$) for the different Types of Fixated Object (target or obstacle) averaged across subjects ($N=12$) and tasks for situations, in which only one object was visible.

	N	Mean	Std. Deviation	Std. Error Mean
arcsine_fixright_1_ target	12	0.754	0.139	0.040
arcsine_fixright_1_ obstacle	12	0.963	0.447	0.129

Table B52. One sample *t*-test (SPSS) for the mean relative frequency of fixations on the right-hand side of the object center (arcsine transformed) for the different Types of Fixated Object (target or obstacle) averaged across subjects (*N*=12) and tasks for situations, in which only one object was visible.

	Test Value = 0.78539816339745					
	t	df	Sig. (2-tailed)	Mean Difference	95% Confidence Interval of the Difference	
					Lower	Upper
arcsine_fixright_1_ target	-0.780	11	.452	-0.031	-0.120	0.057
arcsine_fixright_1_ obstacle	1.378	11	.196	0.178	-0.106	0.462

Effects of Peripheral Vision on Eye Movements
A Virtual Reality Study on Gaze Allocation in Naturalistic
Tasks

Hitzel, E.

2015, X, 101 p. 18 illus., Softcover

ISBN: 978-3-658-08465-3