

# Results

## ANOVA Bearbeitungszeit

ANOVA – Bearbeitungszeit

Homogeneity Correction	Cases	Sum of Squares	df	Mean Square	F	p	$\eta^2$	95% CI for $\eta^2$		$\omega^2$	95% CI for $\omega^2$	
								Lower	Upper		Lower	Upper
Welch	Ordner	73,966	4.000	18,491.5	297.0	< .001	0.150	0.125	0.175	0.149	0.124	0.173
	Residuals	417,508	1,012.505	412.4								

Note. Type III Sum of Squares

## Descriptives

Descriptives – Bearbeitungszeit

Ordner	N	Mean	SD	SE	Coefficient of variation
0	500	0.255	1.229	0.055	4.810
0.15	500	5.217	12.615	0.564	2.418
0.3	500	9.451	16.485	0.737	1.744
0.45	500	12.741	14.733	0.659	1.156
0.6	500	15.600	13.682	0.612	0.877

## Assumption Checks

Test for Equality of Variances (Levene's)

F	df1	df2	p
282.8	4.000	2,495	< .001

Post Hoc Tests

Standard

Post Hoc Comparisons – Ordner

		Mean Difference	SE	df	t	Cohen's d	P <sub>holm</sub>
0	0.15	−4.961	0.818	2,495	−6.064	−0.384	< .001
	0.3	−9.195	0.818	2,495	−11.239	−0.711	< .001
	0.45	−12.485	0.818	2,495	−15.261	−0.965	< .001
0.15	0.6	−15.344	0.818	2,495	−18.755	−1.186	< .001
	0.3	−4.234	0.818	2,495	−5.175	−0.327	< .001
	0.45	−7.524	0.818	2,495	−9.196	−0.582	< .001
0.3	0.6	−10.383	0.818	2,495	−12.691	−0.803	< .001
	0.45	−3.290	0.818	2,495	−4.022	−0.254	< .001
	0.6	−6.149	0.818	2,495	−7.516	−0.475	< .001
0.45	0.6	−2.859	0.818	2,495	−3.495	−0.221	< .001

Note. P-value adjusted for comparing a family of 10 estimates.

Games–Howell

Games–Howell Post Hoc Comparisons – Ordner

Comparison	Mean Difference	SE	t	df	P <sub>tukey</sub>
0 – 0.15	−4.961	0.567	−8.753	508.5	< .001
0 – 0.3	−9.195	0.739	−12.438	504.5	< .001
0 – 0.45	−12.485	0.661	−18.883	505.9	< .001
0 – 0.6	−15.344	0.614	−24.977	507.0	< .001
0.15 – 0.3	−4.234	0.928	−4.561	934.2	< .001
0.15 – 0.45	−7.524	0.867	−8.674	974.9	< .001
0.15 – 0.6	−10.383	0.832	−12.475	991.5	< .001
0.3 – 0.45	−3.290	0.989	−3.328	985.7	.008
0.3 – 0.6	−6.149	0.958	−6.418	965.2	< .001
0.45 – 0.6	−2.859	0.899	−3.180	992.6	.013

Note. Results based on uncorrected means.

ANOVA Nacharbeitszeit

ANOVA – Nacharbeitszeit

Homogeneity Correction	Cases	Sum of Squares	df	Mean Square	F	p	η²	95% CI for η²		ω²	95% CI for ω²	
								Lower	Upper		Lower	Upper
Welch	Ordner	73,970	4.000	18,492.5	297.2	< .001	0.151	0.125	0.175	0.149	0.124	0.174
	Residuals	417,322	1,012.498	412.2								

Note. Type III Sum of Squares

Descriptives

Descriptives – Nacharbeitszeit

Ordner	N	Mean	SD	SE	Coefficient of variation
0	500	0.213	1.228	0.055	5.760
0.15	500	5.172	12.617	0.564	2.439
0.3	500	9.410	16.484	0.737	1.752
0.45	500	12.699	14.728	0.659	1.160
0.6	500	15.557	13.675	0.612	0.879

Assumption Checks

Test for Equality of Variances (Levene's)

F	df1	df2	p
282.6	4.000	2,495	< .001

Post Hoc Tests

Standard

Post Hoc Comparisons – Ordner

		Mean Difference	SE	df	t	Cohen's d	P <sub>holm</sub>
0	0.15	−4.959	0.818	2,495	−6.063	−0.383	< .001
	0.3	−9.196	0.818	2,495	−11.243	−0.711	< .001
	0.45	−12.486	0.818	2,495	−15.265	−0.965	< .001
	0.6	−15.343	0.818	2,495	−18.758	−1.186	< .001
0.15	0.3	−4.237	0.818	2,495	−5.180	−0.328	< .001
	0.45	−7.527	0.818	2,495	−9.202	−0.582	< .001
	0.6	−10.384	0.818	2,495	−12.696	−0.803	< .001
0.3	0.45	−3.290	0.818	2,495	−4.022	−0.254	< .001
	0.6	−6.147	0.818	2,495	−7.515	−0.475	< .001
0.45	0.6	−2.857	0.818	2,495	−3.493	−0.221	< .001

Note. P-value adjusted for comparing a family of 10 estimates.

Games–Howell

Games–Howell Post Hoc Comparisons – Ordner

Comparison	Mean Difference	SE	t	df	P <sub>tukey</sub>
0 – 0.15	−4.959	0.567	−8.748	508.5	< .001
0 – 0.3	−9.196	0.739	−12.440	504.5	< .001
0 – 0.45	−12.486	0.661	−18.891	505.9	< .001
0 – 0.6	−15.343	0.614	−24.988	507.1	< .001
0.15 – 0.3	−4.237	0.928	−4.565	934.3	< .001
0.15 – 0.45	−7.527	0.867	−8.679	975.0	< .001
0.15 – 0.6	−10.384	0.832	−12.480	991.6	< .001
0.3 – 0.45	−3.290	0.989	−3.328	985.6	.008
0.3 – 0.6	−6.147	0.958	−6.418	965.1	< .001
0.45 – 0.6	−2.857	0.899	−3.179	992.6	.013

Note. Results based on uncorrected means.

ANOVA Fehler

ANOVA – Fehler

Homogeneity Correction	Cases	Sum of Squares	df	Mean Square	F	p	η²	95% CI for η²		ω²	95% CI for ω²	
								Lower	Upper		Lower	Upper
Welch	Ordner	112.5	4.000	28.13	NaN	NaN	0.214	0.187	0.241	0.213	0.185	0.239
	Residuals	412.5	NaN	NaN								

Note. The Welch correction could not be computed because 'Fehler' has zero variance after grouping on the following level(s) of 'Ordner': 0  
Note. Type III Sum of Squares

Descriptives

Descriptives – Fehler

Ordner	N	Mean	SD	SE	Coefficient of variation
0	500	0.000	0.000	0.000	NaN
0.15	500	0.150	0.357	0.016	2.383
0.3	500	0.300	0.459	0.021	1.529
0.45	500	0.450	0.498	0.022	1.107
0.6	500	0.600	0.490	0.022	0.817

Assumption Checks

Test for Equality of Variances (Levene's)

F	df1	df2	p
994.0	4.000	2,495	< .001

Post Hoc Tests

Standard

Post Hoc Comparisons – Ordner

		Mean Difference	SE	df	t	Cohen's d	P <sub>holm</sub>
0	0.15	−0.150	0.026	2,495	−5.833	−0.369	< .001
	0.3	−0.300	0.026	2,495	−11.666	−0.738	< .001
	0.45	−0.450	0.026	2,495	−17.499	−1.107	< .001
	0.6	−0.600	0.026	2,495	−23.332	−1.476	< .001
0.15	0.3	−0.150	0.026	2,495	−5.833	−0.369	< .001
	0.45	−0.300	0.026	2,495	−11.666	−0.738	< .001
	0.6	−0.450	0.026	2,495	−17.499	−1.107	< .001
0.3	0.45	−0.150	0.026	2,495	−5.833	−0.369	< .001
	0.6	−0.300	0.026	2,495	−11.666	−0.738	< .001
0.45	0.6	−0.150	0.026	2,495	−5.833	−0.369	< .001

Note. P-value adjusted for comparing a family of 10 estimates.

Games–Howell

Games–Howell Post Hoc Comparisons – Ordner

Comparison	Mean Difference	SE	t	df	P <sub>tukey</sub>
0 – 0.15	−0.150	0.016	−9.384	499.0	< .001
0 – 0.3	−0.300	0.021	−14.624	499.0	< .001
0 – 0.45	−0.450	0.022	−20.206	499.0	< .001
0 – 0.6	−0.600	0.022	−27.359	499.0	< .001
0.15 – 0.3	−0.150	0.026	−5.768	941.7	< .001
0.15 – 0.45	−0.300	0.027	−10.943	905.3	< .001
0.15 – 0.6	−0.450	0.027	−16.582	912.5	< .001
0.3 – 0.45	−0.150	0.030	−4.954	991.3	< .001
0.3 – 0.6	−0.300	0.030	−9.990	993.6	< .001
0.45 – 0.6	−0.150	0.031	−4.799	997.8	< .001

Note. Results based on uncorrected means.

ANOVA STP

Homogeneity Correction	Cases	Sum of Squares	df	Mean Square	F	p	$\eta^2$	95% CI for $\eta^2$		$\omega^2$	95% CI for $\omega^2$	
								Lower	Upper		Lower	Upper
Welch	Ordner	104.6	4.000	26.145	226.7	< .001	0.189	0.162	0.215	0.187	0.161	0.213
	Residuals	449.2	1,177.897	0.381								

Note. Type III Sum of Squares

Descriptives

Descriptives – STP

Ordner	N	Mean	SD	SE	Coefficient of variation
0	500	0.962	0.191	0.009	0.199
0.15	500	0.810	0.393	0.018	0.485
0.3	500	0.668	0.471	0.021	0.706
0.45	500	0.520	0.500	0.022	0.962
0.6	500	0.384	0.487	0.022	1.268

Assumption Checks

Test for Equality of Variances (Levene's)

F	df1	df2	p
602.6	4.000	2,495	< .001

Post Hoc Tests

Standard

Post Hoc Comparisons – Ordner

		Mean Difference	SE	df	t	Cohen's d	P <sub>holm</sub>
0	0.15	0.152	0.027	2,495	5.664	0.358	< .001
	0.3	0.294	0.027	2,495	10.956	0.693	< .001
	0.45	0.442	0.027	2,495	16.471	1.042	< .001
0.15	0.6	0.578	0.027	2,495	21.539	1.362	< .001
	0.3	0.142	0.027	2,495	5.292	0.335	< .001
	0.45	0.290	0.027	2,495	10.807	0.683	< .001
0.3	0.6	0.426	0.027	2,495	15.875	1.004	< .001
	0.45	0.148	0.027	2,495	5.515	0.349	< .001
	0.6	0.284	0.027	2,495	10.583	0.669	< .001
0.45	0.6	0.136	0.027	2,495	5.068	0.321	< .001

Note. P-value adjusted for comparing a family of 10 estimates.

Games–Howell

Games–Howell Post Hoc Comparisons – Ordner

Comparison	Mean Difference	SE	t	df	P <sub>tukey</sub>
0 – 0.15	0.152	0.020	7.780	723.4	< .001
0 – 0.3	0.294	0.023	12.921	659.2	< .001
0 – 0.45	0.442	0.024	18.457	642.1	< .001
0 – 0.6	0.578	0.023	24.707	649.6	< .001
0.15 – 0.3	0.142	0.027	5.175	966.5	< .001
0.15 – 0.45	0.290	0.028	10.198	944.9	< .001
0.15 – 0.6	0.426	0.028	15.229	955.2	< .001
0.3 – 0.45	0.148	0.031	4.815	994.5	< .001
0.3 – 0.6	0.284	0.030	9.371	997.0	< .001
0.45 – 0.6	0.136	0.031	4.357	997.3	< .001

Note. Results based on uncorrected means.