

## Results

Statistical analysis for Emotion Dynamics features calculated for both passes (interview and continuous annotation).  
Takeaways:

- At a group level, none of the variables - inertia, instability, and variability - are correlated;
- RM ANOVA fails to reject the null hypothesis for all three variables.

## Repeated Measures ANOVA: Inertia

Within Subjects Effects

	Sum of Squares	df	Mean Square	F	p
Pass	1.54e-33	1	1.54e-33	1.45e-33	1.000
Residual	16.0	15	1.07		

Note. Type 3 Sums of Squares

[3]

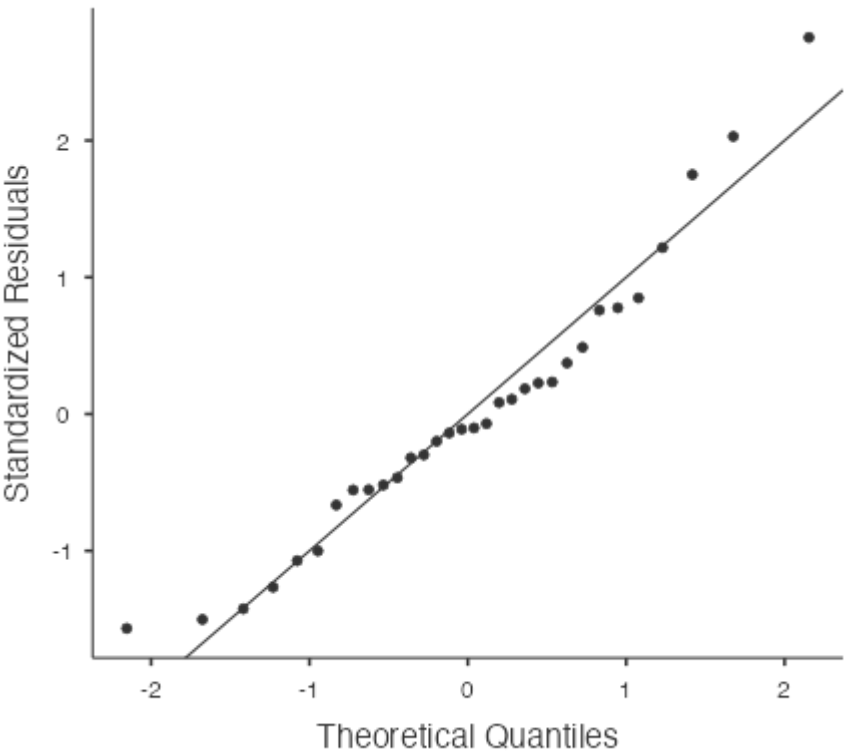
Between Subjects Effects

	Sum of Squares	df	Mean Square	F	p
Residual	16.0	15	1.07		

Note. Type 3 Sums of Squares

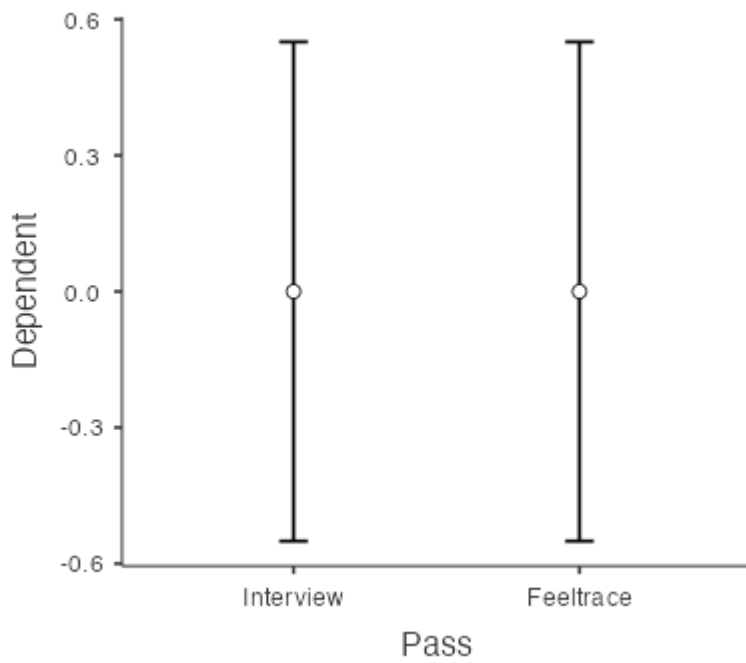
## Assumptions

Q-Q Plot



## Estimated Marginal Means

Pass



[4]

## Repeated Measures ANOVA: Instability

Within Subjects Effects

	Sum of Squares	df	Mean Square	F	p
Pass	6.16e-31	1	6.16e-31	4.46e-31	1.000
Residual	20.7	15	1.38		

*Note.* Type 3 Sums of Squares

[3]

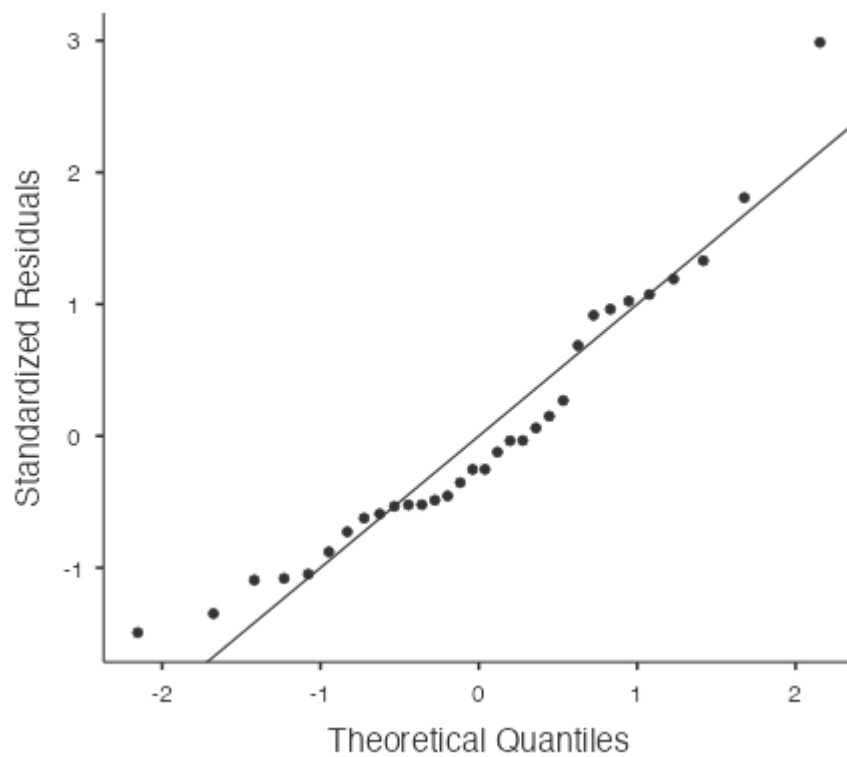
Between Subjects Effects

	Sum of Squares	df	Mean Square	F	p
Residual	11.3	15	0.751		

*Note.* Type 3 Sums of Squares

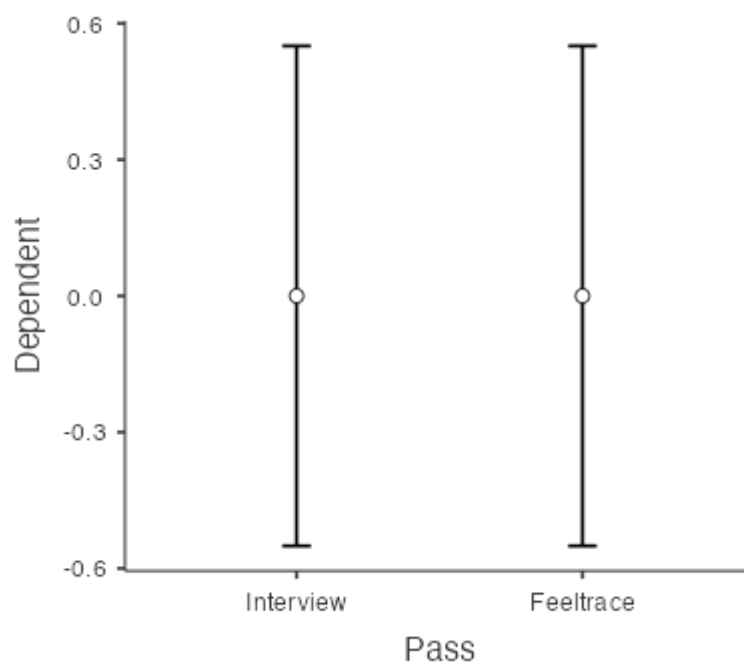
## Assumptions

Q-Q Plot



## Estimated Marginal Means

Pass



[4]

## Repeated Measures ANOVA: Variability

Within Subjects Effects

	Sum of Squares	df	Mean Square	F	p
Pass	3.94e-31	1	3.94e-31	2.90e-31	1.000
Residual	20.4	15	1.36		

Note. Type 3 Sums of Squares

[3]

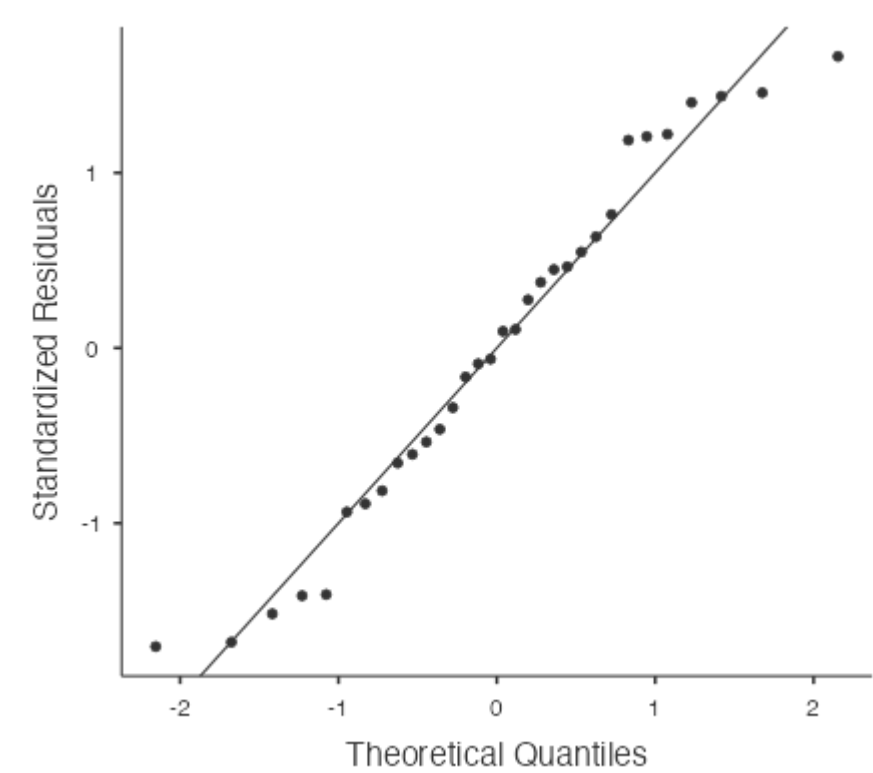
Between Subjects Effects

	Sum of Squares	df	Mean Square	F	p
Residual	11.6	15	0.774		

Note. Type 3 Sums of Squares

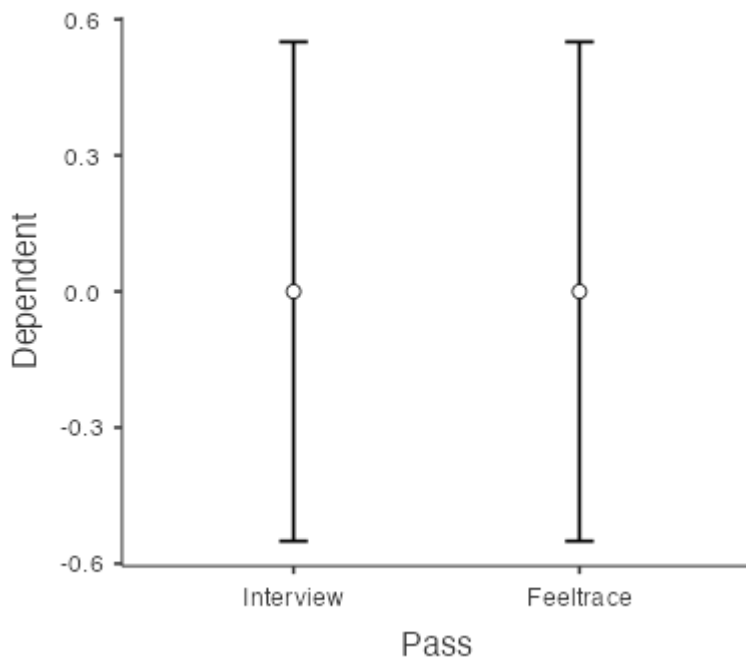
Assumptions

Q-Q Plot



Estimated Marginal Means

Pass



[4]

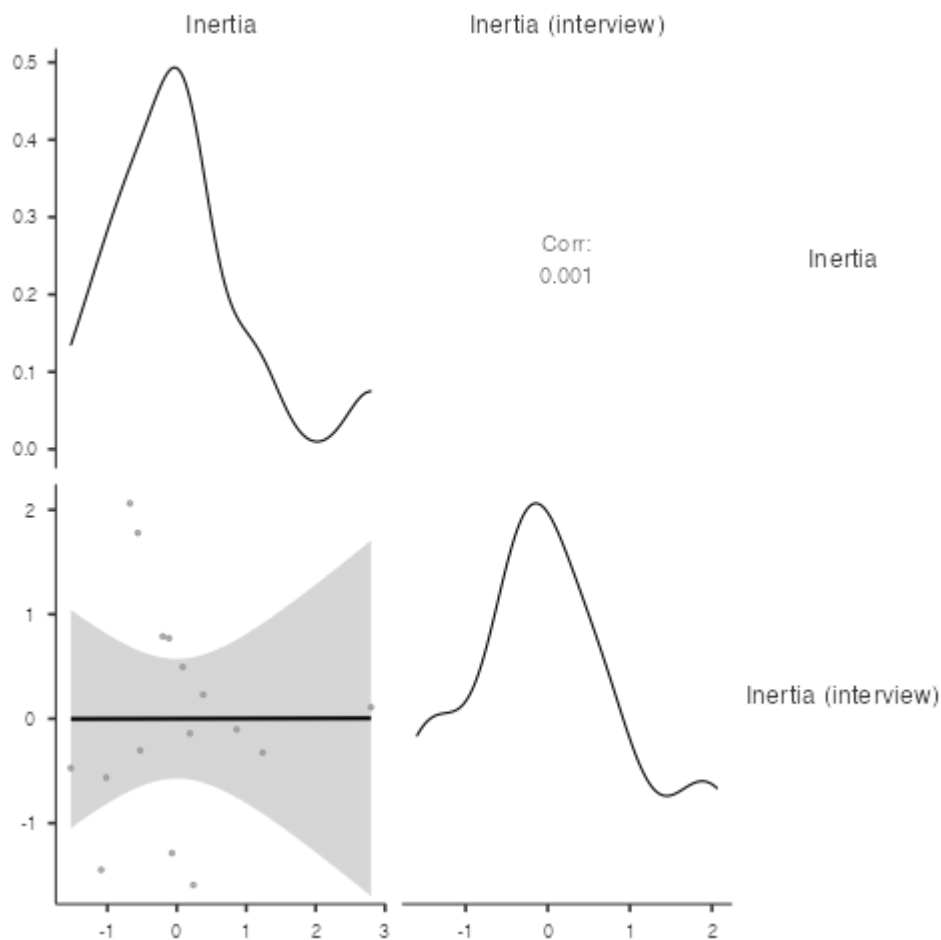
## Correlation Matrix: Inertia

Correlation Matrix

		Inertia	Inertia (interview)
Inertia	Pearson's r	—	
	p-value	—	
	Spearman's rho	—	
	p-value	—	
	Kendall's Tau B	—	
	p-value	—	
Inertia (interview)	Pearson's r	0.001	—
	p-value	0.996	—
	Spearman's rho	0.041	—
	p-value	0.882	—
	Kendall's Tau B	-0.050	—
	p-value	0.825	—

Note. \*  $p < .05$ , \*\*  $p < .01$ , \*\*\*  $p < .001$

## Plot



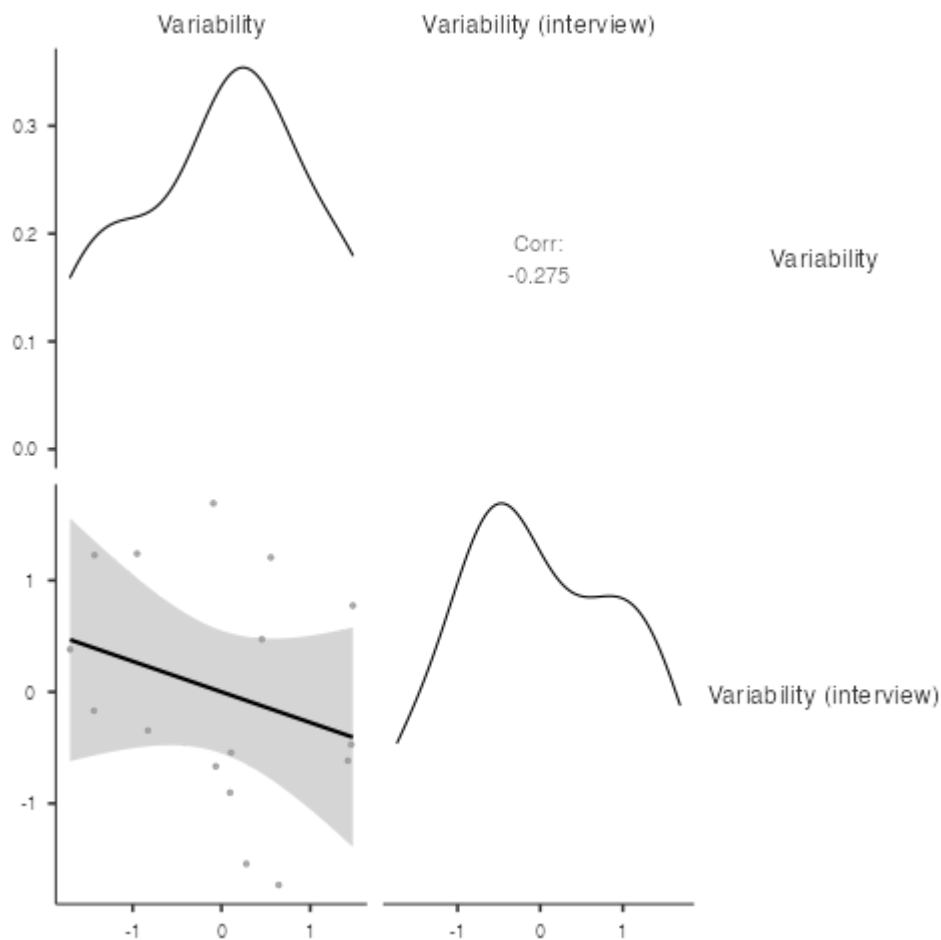
## Correlation Matrix: Variability

Correlation Matrix

		Variability	Variability (interview)
Variability	Pearson's r	—	
	p-value	—	
	Spearman's rho	—	
	p-value	—	
	Kendall's Tau B	—	
	p-value	—	
Variability (interview)	Pearson's r	-0.275	—
	p-value	0.303	—
	Spearman's rho	-0.315	—
	p-value	0.235	—
	Kendall's Tau B	-0.200	—
	p-value	0.306	—

Note. \*  $p < .05$ , \*\*  $p < .01$ , \*\*\*  $p < .001$

## Plot



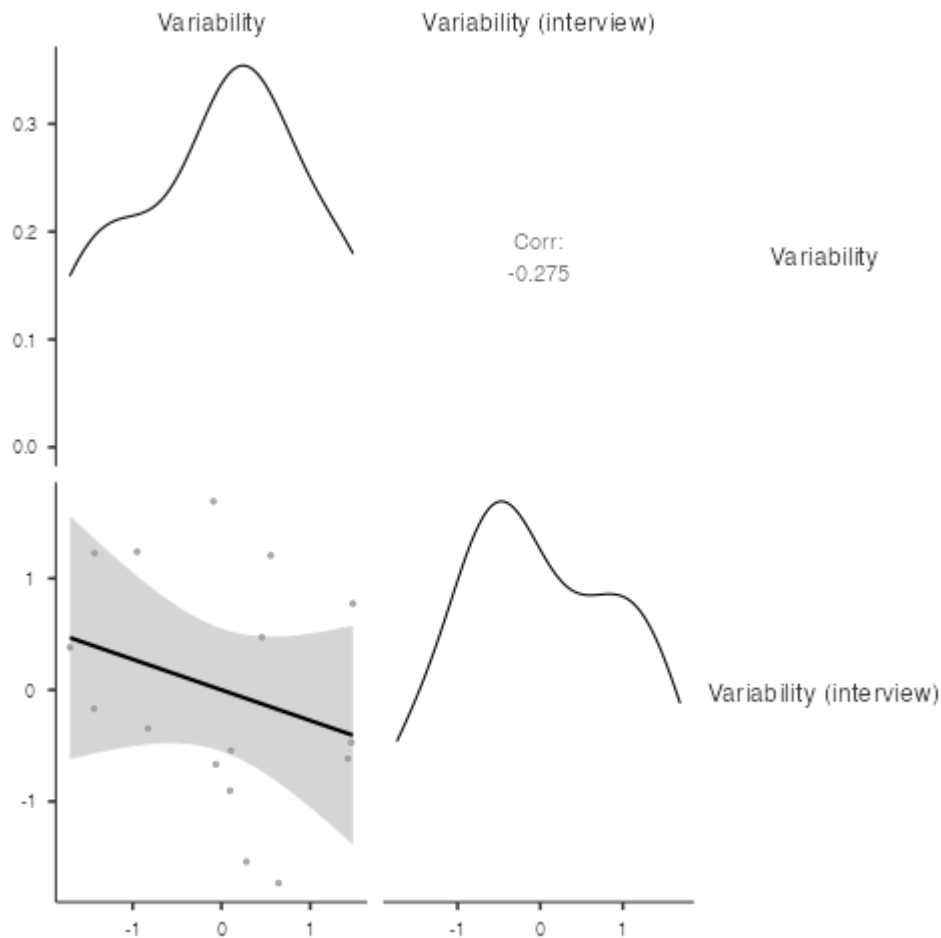
## Correlation Matrix: Instability

Correlation Matrix

		Variability	Variability (interview)
Variability	Pearson's r	—	
	p-value	—	
	Spearman's rho	—	
	p-value	—	
	Kendall's Tau B	—	
	p-value	—	
Variability (interview)	Pearson's r	-0.275	—
	p-value	0.303	—
	Spearman's rho	-0.315	—
	p-value	0.235	—
	Kendall's Tau B	-0.200	—
	p-value	0.306	—

Note. \*  $p < .05$ , \*\*  $p < .01$ , \*\*\*  $p < .001$

## Plot



## References

- [1] The jamovi project (2021). *jamovi*. (Version 2.2) [Computer Software]. Retrieved from <https://www.jamovi.org>.
- [2] R Core Team (2021). *R: A Language and environment for statistical computing*. (Version 4.0) [Computer software]. Retrieved from <https://cran.r-project.org>. (R packages retrieved from MRAN snapshot 2021-04-01).
- [3] Singmann, H. (2018). *afex: Analysis of Factorial Experiments*. [R package]. Retrieved from <https://cran.r-project.org/package=afex>.
- [4] Lenth, R. (2020). *emmeans: Estimated Marginal Means, aka Least-Squares Means*. [R package]. Retrieved from <https://cran.r-project.org/package=emmeans>.