BSkyOpenNewDataset(datasetName='Dataset1')

Open Dataset

Anova (1 Way and 2 Way)

`Summarise()` ungrouping output (override with `.groups` arment)

Summaries for Sand___ by factor variable Tube_diameter

Tube_diame Ter	n	mean	median	min	Max	Sd	variance	
4.5cm	48	86.4746	86.6	85.29	88.78	0.609	0.3708	
7.5cm	48	86.4775	86.68	85.28	86.98	0.5006	0.2505	

`summarise()` ungrouping output (override with `.groups` argument)

Summaries for Sand___ by factor variable Time

	• • •						
	Time	n	mean	median	min	max	sd
•	T1	24	86.7037	86.665	85.29	88.78	0.5745
	T2	24	85.9	85.69	85.28	86.95	0.4919
	T3	24	86.8	86.845	86.23	86.92	0.1651
	T4	24	86.5004	86.55	85.79	86.99	0.4001

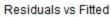
variance
0.33
0.242
0.0273
0.1601

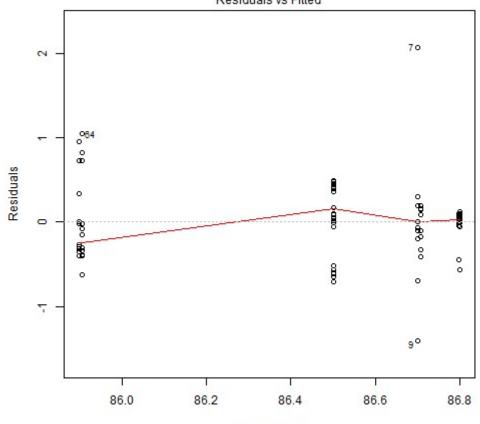
`summarise()` regrouping output by 'Tube_diameter' (override with `.groups` argument)

Summaries for Sand___ by factor variables Tube_diameter*Time

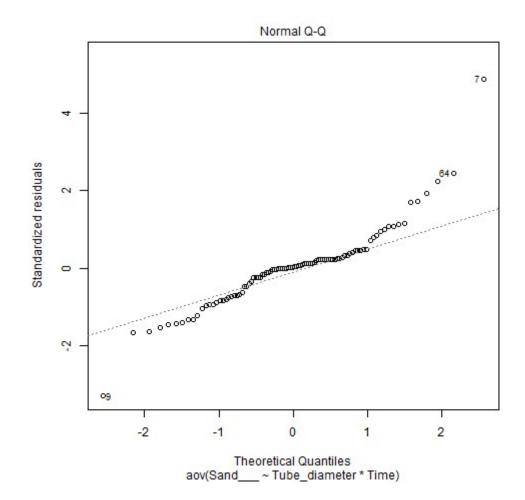
Tube_diame Ter	Time	n	mean	median	min	max
4.5cm	T1	12	86.7	86.615	85.29	88.78
4.5cm	T2	12	85.8967	85.755	85.5	86.85
4.5cm	T3	12	86.8008	86.85	86.23	86.92
4.5cm	T4	12	86.5008	86.57	85.85	86.99
7.5cm	T1	12	86.7075	86.825	86.3	86.9
7.5cm	T2	12	85.9033	85.675	85.28	86.95
7.5cm	T3	12	86.7992	86.835	86.35	86.9
7.5cm	T4	12	86.5	86.55	85.79	86.98

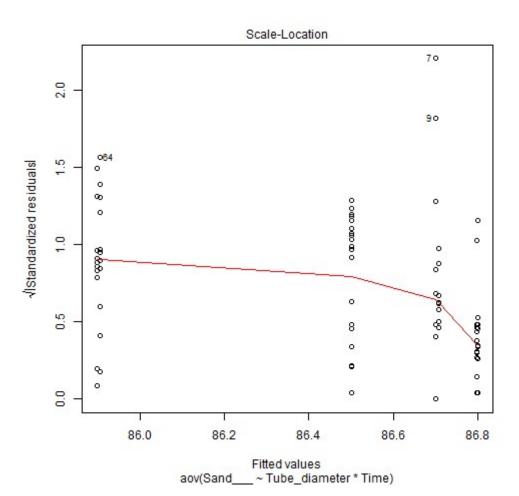
sd	variance
0.8022	0.6436
0.4502	0.2027
0.1868	0.0349
0.4082	0.1666
0.2156	0.0465
0.5507	0.3033
0.1486	0.0221
0.41	0.1681



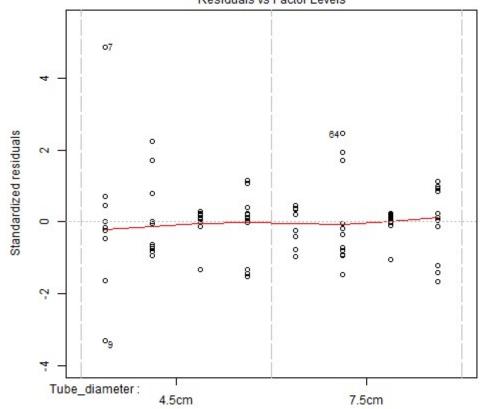


Fitted values aov(Sand___ ~ Tube_diameter * Time)





Constant Leverage: Residuals vs Factor Levels



Factor Level Combinations

Anova table with type III sum of squares for Sand___ by Tube_diameter*Time

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
Tube_diame	1	0.0002	0.0002	0.001	0.9745
Ter					
Time	3	11.7412	3.9137	19.7206	<.001***
Tube_diame	3	0.0004	0.0001	0.0007	1
ter:Time					
Residuals	88	17.4644	0.1985	NA	NA

Note. Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

NOTE: Results may be misleading due to involvement in interactions

Estimated Marginal Means for Sand___ by Tube_diameter

Tube_diame ter	emmean	SE	df	lower.CL	upper.CL
4.5cm	86.4746	0.0643	88	86.3468	86.6024
7.5cm	86.4775	0.0643	88	86.3497	86.6053

NOTE: Results may be misleading due to involvement in interactions

Estimated Marginal Means for Sand___ by Time

250000000000000000000000000000000000000	· · · · · · · · · · · · · · · · · · ·	<i>y</i> =			
Time	e emmean	SE	df	lower.CL	upper.CL
T1	86.7037	0.0909	88	86.523	86.8845
T2	85.9	0.0909	88	85.7193	86.0807
T3	86.8	0.0909	88	86.6193	86.9807
T4	86.5004	0.0909	88	86.3197	86.6811

Estimated Marginal Means for Sand___ by Tube_diameter*Time

Tube_diame ter	Time	emmean	SE	df	lower.CL	upper.CL
4.5cm	T1	86.7	0.1286	88	86.4444	86.9556
7.5cm	T1	86.7075	0.1286	88	86.4519	86.9631
4.5cm	T2	85.8967	0.1286	88	85.6411	86.1522
7.5cm	T2	85.9033	0.1286	88	85.6478	86.1589
4.5cm	T3	86.8008	0.1286	88	86.5453	87.0564
7.5cm	T3	86.7992	0.1286	88	86.5436	87.0547
4.5cm	T4	86.5008	0.1286	88	86.2453	86.7564
7.5cm	T4	86.5	0.1286	88	86.2444	86.7556

Levene's test for homogenity of variances (center=mean) for Sand___ against Tube_diameter

	Df	F value	Pr(>F)
Group	1	0.4713	0.4941
	94	NA	NA

Note. Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Levene's test for homogenity of variances (center=mean) for Sand___ against Time

	Df	F value	Pr(>F)
group	3	3.2156	0.0265 *
	92	NA	NA

Note. Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Results are averaged over the levels of: Time

Post-hoc tests for Sand by Tube diameter (using method = pairwise)

 contrast	estimate	SE	df	t.ratio	p.value
 4.5cm -	-0.0029	0.0909	88	-0.0321	0.9745
7.5cm					

Note. Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Results are averaged over the levels of: Tube_diameter
P value adjustment: tukey method for comparing a family of 4 estimates

Post-hoc tests for Sand___ by Time (using method = pairwise)

con	trast e	stimate	SE	df	t.ratio	p.value
T1	- T2	0.8038	0.1286	88	6.2499	<.001***

contrast	estimate	SE	df	t.ratio	p.value
T1 - T3	-0.0962	0.1286	88	-0.7484	0.8771
T1 - T4	0.2033	0.1286	88	1.5811	0.3946
T2 - T3	-0.9	0.1286	88	-6.9984	<.001***
T2 - T4	-0.6004	0.1286	88	-4.6688	<.001***
T3 - T4	0.2996	0.1286	88	2.3296	0.0991 .

4.5cm,T4

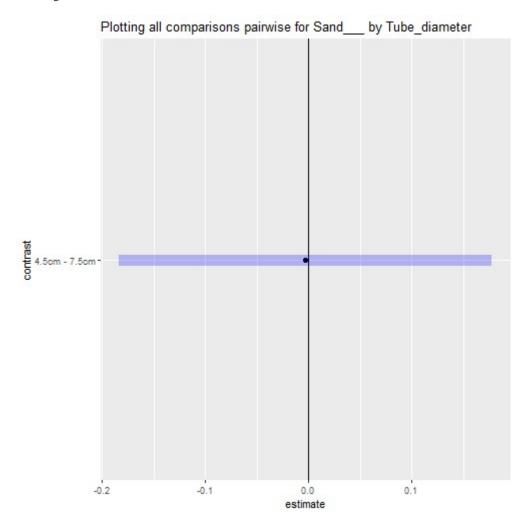
P value adjustment: tukey method for comparing a fam Simple effects for Sand by Tube diameter*Time (using

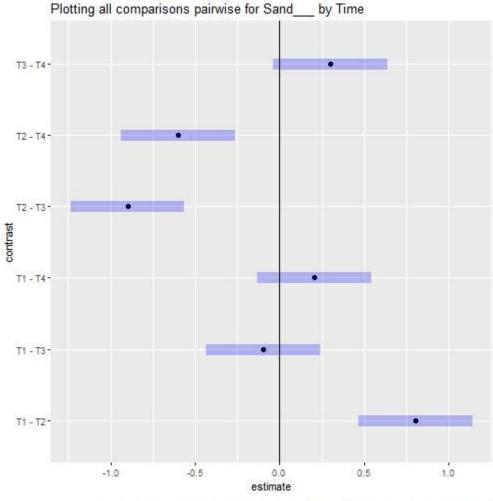
ily of 8 thod = pairwimates contrast estimate t.ratio SE df p.value -0.0412 4.5cm,T1 --0.0075 0.1819 88 1 7.5cm,T1 4.5cm,T1 -0.8033 0.1819 88 4.4171 <.001** 4.5cm,T2 4.5cm,T1 -0.7967 0.1819 88 4.3804 <.001** 7.5cm,T2 4.5cm,T1 --0.1008 0.1819 88 -0.5544 0.9993 4.5cm,T3 4.5cm,T1 --0.0992 0.1819 88 -0.5453 0.9994 7.5cm,T3 4.5cm,T1 -0.1992 0.1819 88 1.0951 0.9562 4.5cm,T4 4.5cm,T1 -0.2 0.1819 88 1.0997 0.9553 7.5cm,T4 7.5cm,T1 -0.8108 0.1819 88 4.4583 <.001** 4.5cm,T2 7.5cm,T1 -0.8042 0.1819 88 4.4217 <.001** 7.5cm,T2 7.5cm,T1 --0.0933 0.1819 88 -0.5132 0.9996 4.5cm,T3 -0.504 0.9996 7.5cm,T1 --0.0917 0.1819 88 7.5cm,T3 7.5cm,T1 -0.2067 0.1819 88 1.1363 0.9469 4.5cm,T4 7.5cm,T1 -0.2075 0.1819 88 1.1409 0.9458 7.5cm,T4 4.5cm,T2 --0.0067 0.1819 -0.0367 1 88 7.5cm,T2 4.5cm,T2 --0.9042 0.181988 -4.9715 <.001** 4.5cm,T3 4.5cm,T2 --0.9025 0.1819 -4.9623 <.001** 88 7.5cm,T3 4.5cm,T2 --0.6042 0.1819 88 -3.322 0.0273 * 4.5cm,T4 4.5cm,T2 -0.1819 88 -3.3174 0.0277 * -0.6033 7.5cm,T4 7.5cm,T2 --0.8975 0.1819 -4.9349 <.001** 88 4.5cm,T3 7.5cm,T2 --0.89580.1819 88 -4.9257<.001** 7.5cm,T3 0.0303 * 7.5cm,T2 --0.5975 0.1819 88 -3.2853 4.5cm,T4 7.5cm,T2 --0.5967 0.1819 88 -3.2807 0.0307 * 7.5cm,T4 4.5cm,T3 -0.0017 0.1819 88 0.0092 1 7.5cm,T3 0.3 1.6495 0.7190 4.5cm,T3 -0.1819 88 4.5cm,T4 df t.ratio p.value contrast estimate SE 88 4.5cm,T3 -0.3008 0.1819 1.6541 0.7162 7.5cm,T4 7.5cm,T3 -0.2983 0.1819 88 1.6404 0.7246

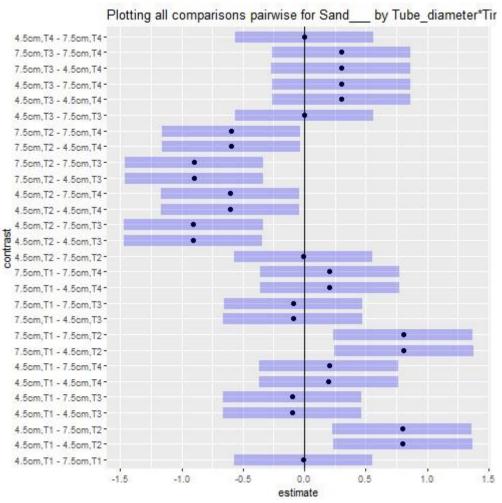
7.5cm,T3 - 7.5cm,T4	0.2992	0.1819	88	1.645	0.7218
4.5cm,T4 -	0.0008	0.1819	88	0.0046	1

7.5cm,T4

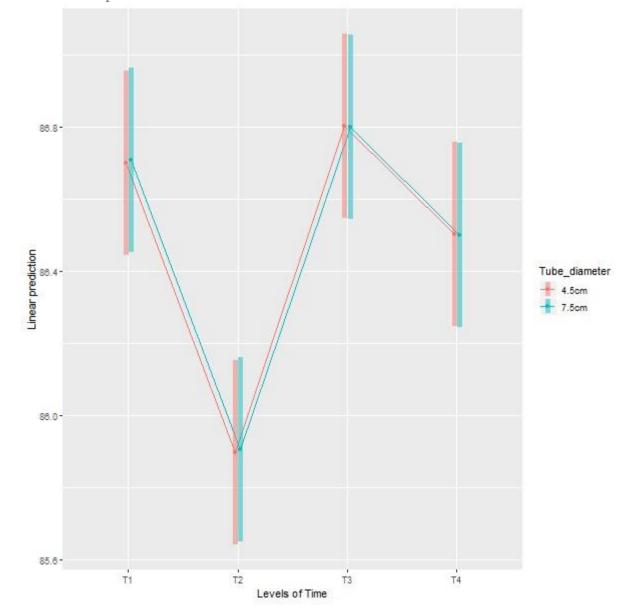
Note. Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1







Interaction plot with Confidence Intervals



Anova (1 Way and 2 Way)

 $[Restoration.plots.xlsx.Sediment] - C: \ \ Users \ \ User \ \ \ Marg \ I \ \ Clean \ data \ D\&R \ trials \ \ Restoration \ plots.xlsx$

`summarise()` ungrouping output (override with `.groups` argument)

Summaries for Silt___ by factor variable Tube_diameter

Tube_diameter	n	mean	median	min	max	sd	variance
4.5cm	48	11.3304	11.475	9.2	13	0.6686	0.447
7.5cm	48	11.3212	11.485	10.11	12.08	0.5113	0.2614

`summarise()` ungrouping output (override with `.groups` argument)

Summaries for Silt___ by factor variable Time

Time	n	mean	median	min	max	sd
T1	24	11.3987	11.5	9.2	13	0.6915
T2	24	10.7004	10.6	10.1	11.6	0.4562
T3	24	11.4	11.405	11	11.9	0.2658
T4	24	11.8042	11.835	11.43	12.08	0.1803

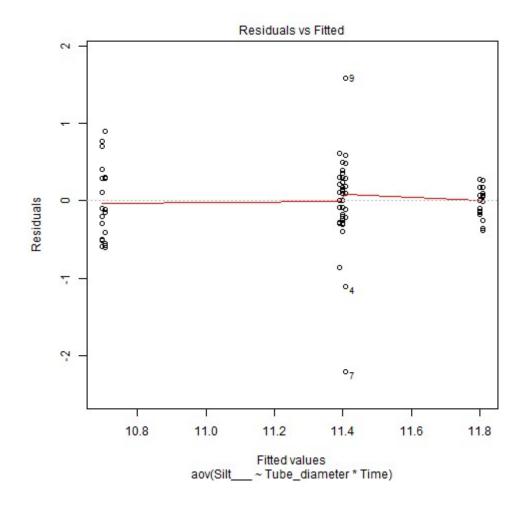
variance 0.4782 0.2082 0.0706 0.0325

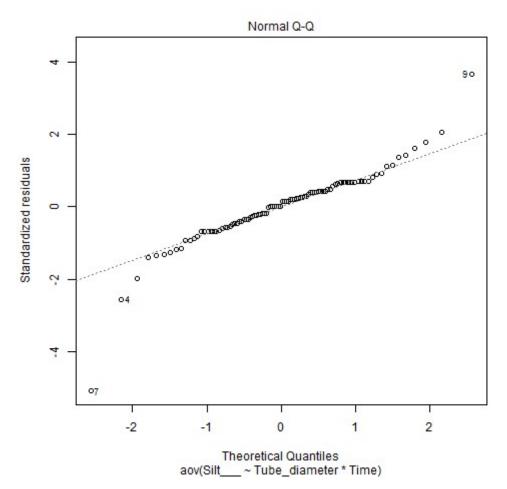
`summarise()` regrouping output by 'Tube_diameter' (override with `.groups` argument)

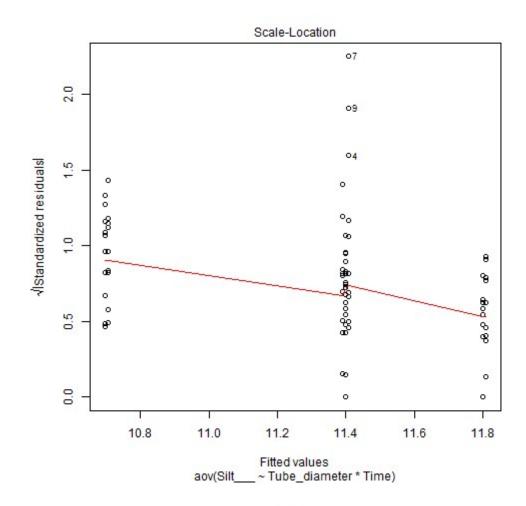
Summaries for Silt___ by factor variables Tube_diameter*Time

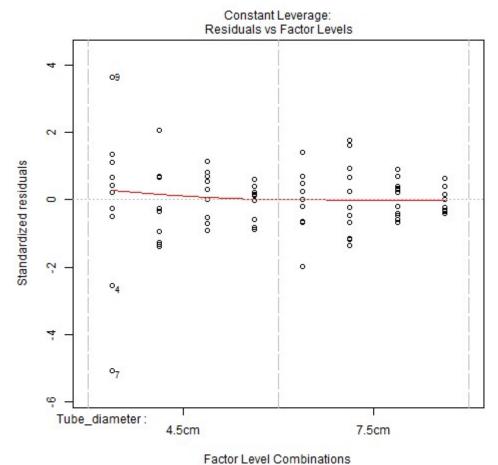
Tube_diame Ter	Time	n	mean	median	min	max
4.5cm	T1	12	11.4083	11.6	9.2	13
4.5cm	T2	12	10.705	10.8	10.1	11.6
4.5cm	T3	12	11.4	11.405	11	11.9
4.5cm	T4	12	11.8083	11.88	11.43	12.08
7.5cm	T1	12	11.3892	11.45	10.53	12.01
7.5cm	T2	12	10.6958	10.6	10.11	11.47
7.5cm	T3	12	11.4	11.41	11.11	11.79
7.5cm	T4	12	11.8	11.8	11.63	12.08

Sd	variance
0.9288	0.8627
0.4702	0.2211
0.3045	0.0927
0.2136	0.0456
0.3702	0.1371
0.4627	0.2141
0.2345	0.055
0.1494	0.0223









Anova table with type III sum of squares for Silt___ by Tube_diameter*Time

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
Tube_diame ter	1	0.002	0.002	0.0098	0.9215
Time	3	15.1384	5.0461	24.4574	<.001***
Tube_diame ter:Time	3	0.0011	0.0004	0.0018	0.9999
Residuals	88	18.1564	0.2063	NA	NA

Note. Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

NOTE: Results may be misleading due to involvement in interactions

Estimated Marginal Means for Silt by Tube diameter

Tube_diame Ter	emmean	SE	Df	lower.CL	upper.CL
4.5cm	11.3304	0.0656	88	11.2001	11.4607
7.5cm	11.3212	0.0656	88	11.191	11.4515

NOTE: Results may be misleading due to involvement in interactions

Estimated Marginal Means for Silt___ by Time

Time	Emmean	SE	df	lower.CL	upper.CL
T1	11.3987	0.0927	88	11.2145	11.583
T2	10.7004	0.0927	88	10.5162	10.8847
T3	11.4	0.0927	88	11.2157	11.5843
T4	11.8042	0.0927	88	11.6199	11.9884

Estimated Marginal Means for Silt____by Tube_diameter*Time

Tube_diame ter	Time	emmean	SE	Df	lower.CL	upper.CL
4.5cm	T1	11.4083	0.1311	88	11.1478	11.6689
7.5cm	T1	11.3892	0.1311	88	11.1286	11.6497
4.5cm	T2	10.705	0.1311	88	10.4444	10.9656
7.5cm	T2	10.6958	0.1311	88	10.4352	10.9564
4.5cm	T3	11.4	0.1311	88	11.1394	11.6606
7.5cm	T3	11.4	0.1311	88	11.1394	11.6606
4.5cm	T4	11.8083	0.1311	88	11.5478	12.0689
7.5cm	T4	11.8	0.1311	88	11.5394	12.0606

Levene's test for homogenity of variances (center=mean) for Silt___ against Tube_diameter

	Df	F value	Pr(>F)
group	1	1.4624	0.2296
	94	NA	NA

Note. Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

	Df	F value	Pr(>F)
group	3	3.97	0.0104 *
	92	NA	NA

Note. Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 '' 1

Results are averaged over the levels of: Time

Post-hoc tests for Silt___ by Tube_diameter (using method = pairwise)

 		` 0			
contrast	estimate	SE	df	t.ratio	p.value
4.5cm - 7.5cm	0.0092	0.0927	88	0.0989	0.9215

Note. Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Results are averaged over the levels of: Tube_diameter P value adjustment: tukey method for comparing a family of 4 estimate

Post-hoc tests for Silt___ by Time (using method = pairwise)

conti	rast Estim	ate SE	df	t.ratio	p.value
T1 -	T2 0.698	33 0.1311	88	5.3257	<.001***
T1 -	T3 -0.00	12 0.1311	88	-0.0095	1.0000
T1 -	T4 -0.40	54 0.1311	88	-3.0919	0.0139 *
T2 -	T3 -0.69	96 0.1311	88	-5.3353	<.001***
T2 -	T4 -1.10	38 0.1311	88	-8.4176	<.001***
T3 -	T4 -0.40	42 0.1311	88	-3.0823	0.0143 *

Note. Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

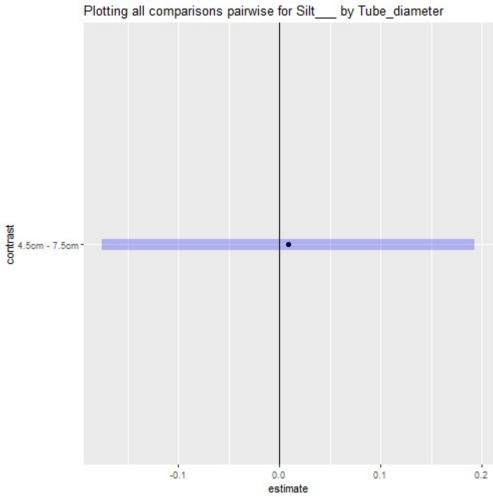
P value adjustment: tukey method for comparing a family of 8 estimates

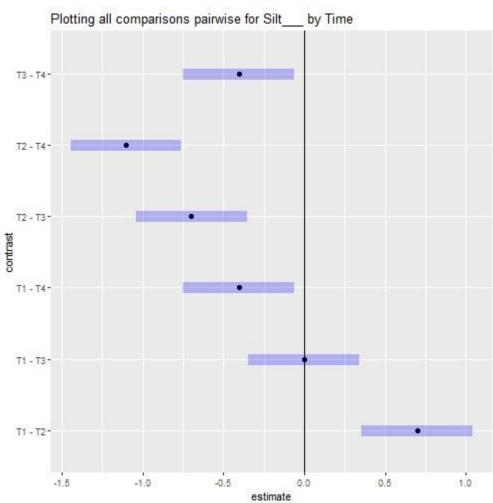
Simple effects for Silt___ by Tube_diameter*Time (using method = pairwise)

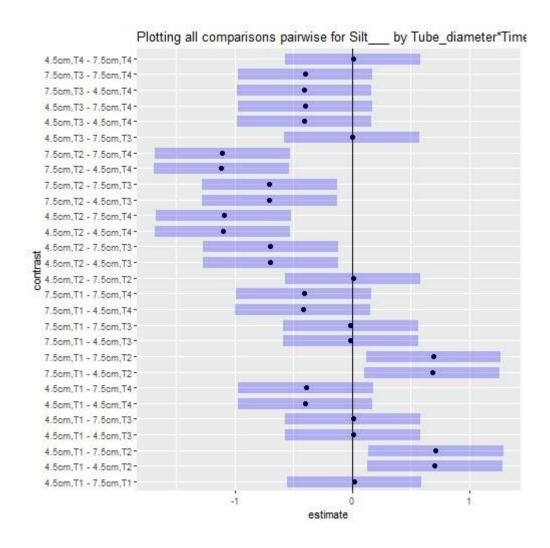
contra	ast estima	te SE	df	t.ratio	p.value
4.5cm,T	1 - 0.0192	0.1854	88	0.1034	1
7.5cm,	Γ1				
4.5cm,T	1 - 0.7033	0.1854	88	3.7928	0.0064 **
4.5cm,	Γ2				

4.5cm,T1 -	0.7125	0.1854	88	3.8423	0.0054 **
7.5cm,T2 4.5cm,T1 -	0.0083	0.1854	88	0.0449	1
4.5cm,T3	0.0003	0.105 1	00	0.0115	-
4.5cm,T1 -	0.0083	0.1854	88	0.0449	1
7.5cm,T3	0.4000	0.1054	00	2 4 5 7 4	0.2077
4.5cm,T1 -	-0.4000	0.1854	88	-2.1571	0.3877
4.5cm,T4	Fatimata	SE	df	t vatia	
contrast	Estimate			t.ratio	p.value
4.5cm,T1 -	-0.3917	0.1854	88	-2.1121	0.4155
7.5cm,T4 7.5cm,T1 -	0.6842	0.1854	88	3.6895	0.0089 **
4.5cm,T2					
7.5cm,T1 -	0.6933	0.1854	88	3.7389	0.0076 **
7.5cm,T2					
7.5cm,T1 -	-0.0108	0.1854	88	-0.0584	1
4.5cm,T3					
7.5cm,T1 -	-0.0108	0.1854	88	-0.0584	1
7.5cm,T3					
7.5cm,T1 -	-0.4192	0.1854	88	-2.2604	0.3272
4.5cm,T4					
7.5cm,T1 -	-0.4108	0.1854	88	-2.2155	0.3529
7.5cm,T4					
4.5cm,T2 -	0.0092	0.1854	88	0.0494	1
7.5cm,T2	0.0032	0.100	00	0.0.75.	-
4.5cm,T2 -	-0.6950	0.1854	88	-3.7479	0.0074 **
4.5cm,T3	0.0550	0.1051	00	3.7 17 3	0.007 1
4.5cm,T2 -	-0.6950	0.1854	88	-3.7479	0.0074 **
7.5cm,T3	0.0550	0.1054	00	3.7473	0.0074
4.5cm,T2 -	-1.1033	0.1854	88	-5.9499	<.001***
4.5cm,T4	1.1055	0.1054	00	3.5455	<.001
4.5cm,T2 -	-1.095	0.1854	88	-5.9049	<.001***
7.5cm,T2	-1.095	0.1054	00	-3.90+9	<.001
7.5cm,T4 -	-0.7042	0.1854	88	-3.7973	0.0063 **
4.5cm,T3	-0.7042	0.1054	00	-3.7973	0.0003
7.5cm,T2 -	-0.7042	0.1854	88	-3.7973	0.0063 **
7.5cm,T2 - 7.5cm,T3	-0.7042	0.1634	00	-3.7973	0.0003
	-1.1125	0.1854	88	-5.9993	<.001***
7.5cm,T2 -	-1.1123	0.1634	00	-3.9993	<.001
4.5cm,T4	-1.1042	0.1054	88	E 0E44	<.001***
7.5cm,T2 -	-1.1042	0.1854	00	-5.9544	<.001
7.5cm,T4	0.0000	0.1054	00	0.0000	4
4.5cm,T3 -	-0.0000	0.1854	88	-0.0000	1
7.5cm,T3	0.4003	0.1054	00	2 202	0.2600
4.5cm,T3 -	-0.4083	0.1854	88	-2.202	0.3608
4.5cm,T4	0.4000	0.1054	00	2 1 5 7 1	0.2077
4.5cm,T3 -	-0.4000	0.1854	88	-2.1571	0.3877
7.5cm,T4	0.4000	0.1054	00	2 202	0.2600
7.5cm,T3 -	-0.4083	0.1854	88	-2.202	0.3608
4.5cm,T4	0.4000	0.1054	00	2 4 5 7 4	0.2077
7.5cm,T3 -	-0.4000	0.1854	88	-2.1571	0.3877
7.5cm,T4	0.0000	0.405.4	00	0.6440	
4.5cm,T4 -	0.0083	0.1854	88	0.0449	1
7.5cm,T4 Note Signif codes: 0 '***' 0 001 '**' 0	04 144 0 0 7 11 0 6 11	4			
// // // Note Stonit codes: () '***' () ()()() '***' ()	OL * 0.05 ' 'O I ' '	1			

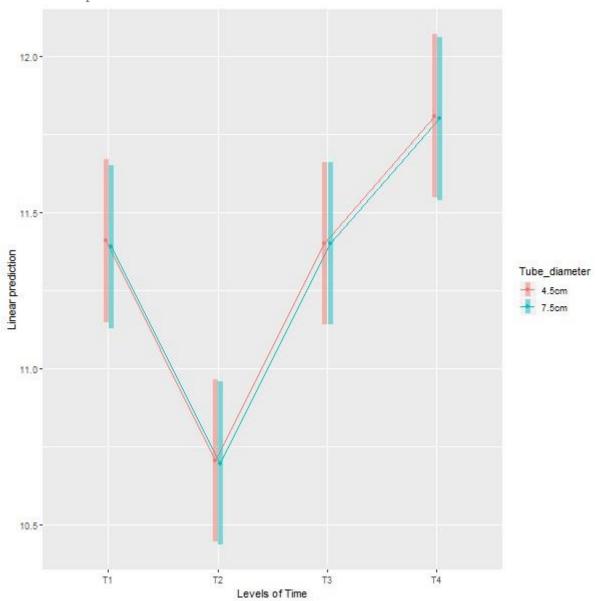
Note. Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 '' 1







Interaction plot with Confidence Intervals



Anova (1 Way and 2 Way)

 $[Restoration.plots.xlsx.Sediment] - C: \ \ Users \ \ User \ \ \ Marg \ I \ \ Clean \ data \ D\&R \ trials \ \ Restoration \ plots.xlsx$

`summarise()` ungrouping output (override with `.groups` argument)

Summaries for Clay___ by factor variable Tube_diameter

0.6893

				_		
Tube_diame	n	mean	median	min	max	sd
ter						
4.5cm	48	2.1977	2.005	1.06	4.34	0.8576
7.5cm	48	2.2012	1.96	1.05	4.33	0.8303
variance						
0.7355						

`summarise()` ungrouping output (override with `.groups` argument)

Summaries for Clay___ by factor variable Time

J —— J J						
Time	n	mean	median	min	max	sd
T1	24	1.8975	1.81	1.3	2.8	0.3377
T2	24	3.3996	3.28	2.17	4.34	0.6529
T3	24	1.8	1.92	1.18	2.36	0.3054
T4	24	1.7008	1.605	1.05	2.66	0.5039

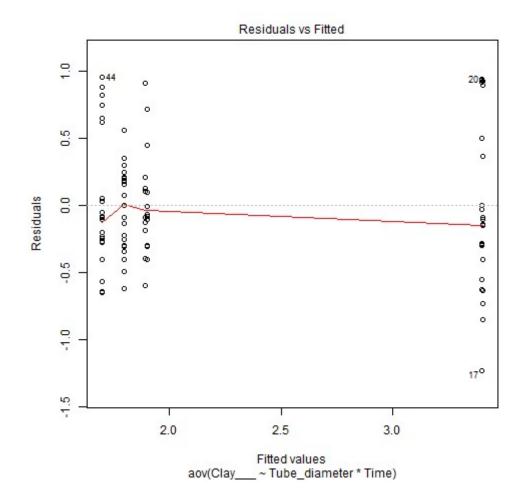
0.114 0.4263 0.0933 0.2539

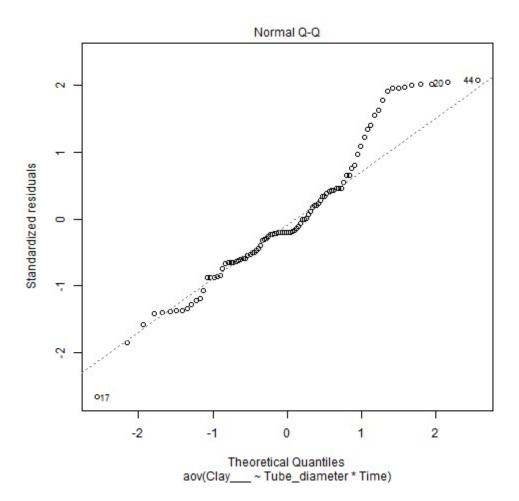
`summarise()` regrouping output by 'Tube_diameter' (override with `.groups` argument)

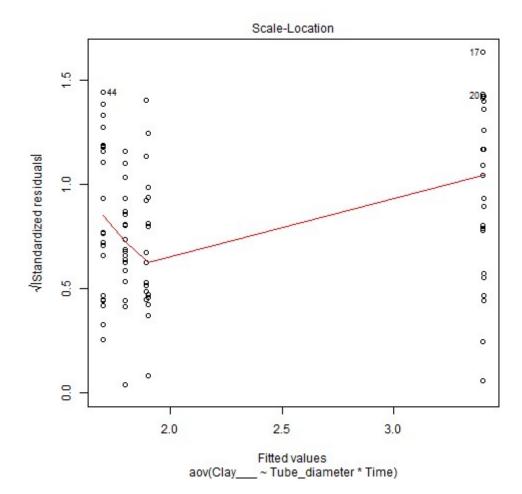
Summaries for Clay by factor variables Tube diameter*Time

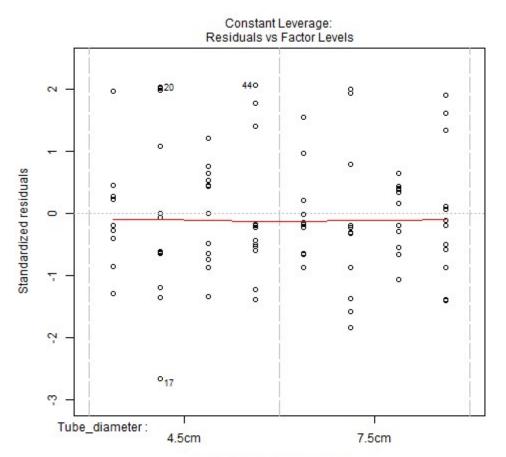
Tube_diame ter	Time	n	mean	median	min	max
4.5cm	T1	12	1.8917	1.8	1.3	2.8
4.5cm	T2	12	3.3983	3.245	2.17	4.34
4.5cm	T3	12	1.7992	1.9	1.18	2.36
4.5cm	T4	12	1.7017	1.55	1.06	2.66
7.5cm	T1	12	1.9033	1.83	1.5	2.62
7.5cm	T2	12	3.4008	3.28	2.55	4.33
7.5cm	T3	12	1.8008	1.92	1.31	2.1
7.5cm	T4	12	1.7	1.63	1.05	2.58

sd	variance
0.3713	0.1379
0.6948	0.4828
0.3657	0.1337
0.5211	0.2716
0.3169	0.1004
0.6392	0.4086
0.2475	0.0612
0.5093	0.2594









Factor Level Combinations

Anova table with type III sum of squares for Clay___ by Tube_diameter*Time

	Df	Sum Sq	Mean Sq	F value	Pr(>F)
Tube_diame ter	1	0.0003	0.0003	0.0013	0.9713
Time	3	46.5521	15.5174	66.8989	<.001***
Tube_diame ter:Time	3	0.0006	0.0002	0.0008	1
Residuals	88	20.4118	0.232	NA	NA

Note. Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 '' 1

NOTE: Results may be misleading due to involvement in interactions

Estimated Marginal Means for Clay___ by Tube_diameter

Tube_diame ter	emmean	SE	df	lower.CL	upper.CL
4.5cm	2.1977	0.0695	88	2.0596	2.3359
7.5cm	2.2012	0.0695	88	2.0631	2.3394

NOTE: Results may be misleading due to involvement in interactions

Estimated Marginal Means for Clay___ by Time

250000000000000000000000000000000000000	Joins Join Citi	<i>y oy</i>			
Tir	ne emr	nean SE	df	lower.C	L upper.CL
Т	1 1.8	975 0.0983	88	1.7021	2.0929
Т	2 3.3	996 0.0983	88	3.2042	3.595
Т	3 1	.8 0.0983	88	1.6046	1.9954
Т	4 1.7	0.0983	88	1.5055	1.8962

Estimated Marginal Means for Clay___ by Tube_diameter*Time

Tube_diame	Time	emmean	SE	df	lower.CL	upper.CL
ter						
4.5cm	T1	1.8917	0.139	88	1.6154	2.168
7.5cm	T1	1.9033	0.139	88	1.627	2.1796
4.5cm	T2	3.3983	0.139	88	3.122	3.6746
7.5cm	T2	3.4008	0.139	88	3.1245	3.6771
4.5cm	T3	1.7992	0.139	88	1.5229	2.0755
7.5cm	T3	1.8008	0.139	88	1.5245	2.0771
4.5cm	T4	1.7017	0.139	88	1.4254	1.978
7.5cm	T4	1.7	0.139	88	1.4237	1.9763

Levene's test for homogenity of variances (center=mean) for Clay___ against Tube_diameter

	Df	F value	Pr(>F)
group	1	0.0957	0.7578
	94	NA	NA

Note. Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Levene's test for homogenity of variances (center=mean) for Clay___ against Time

group	Df	F value	Pr(>F)	
	3	4.1067	0.0088 **	
	92	NA	NA	

Results are averaged over the levels of: Time

Post-hoc tests for Clay___ by Tube_diameter (using method = pairwise)

contrast	estimate	SE	df	t.ratio	p.value
4.5cm -	-0.0035	0.0983	88	-0.036	0.9713
7.5cm					

Note. Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Results are averaged over the levels of: Tube_diameter P value adjustment: tukey method for comparing a family of 4 estimates

Post-hoc tests for Clay by Time (using method = pairwise)

_	contrast	estimate	SE	df	t.ratio	p.value
•	T1 - T2	-1.5021	0.139	88	-10.804	<.001***
	T1 - T3	0.0975	0.139	88	0.7013	0.8963
	T1 - T4	0.1967	0.139	88	1.4146	0.4937
	T2 - T3	1.5996	0.139	88	11.5053	<.001***
	T2 - T4	1.6988	0.139	88	12.2186	<.001***
	T3 - T4	0.0992	0.139	88	0.7133	0.8916

Note. Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

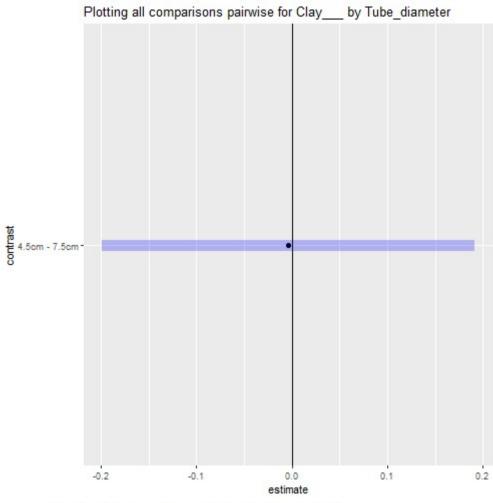
P value adjustment: tukey method for comparing a family of 8 estimates

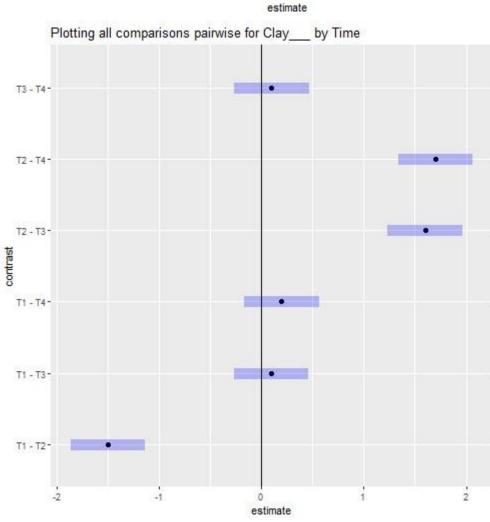
Simple effects for Clay by Tube diameter*Time (using method = pairwise)

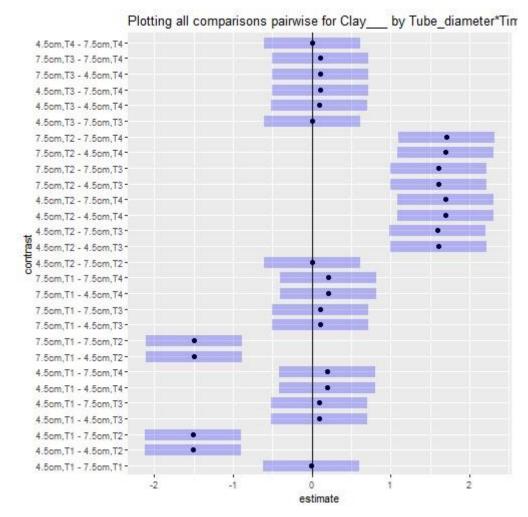
Simple effects for City by Tube diameter Time (using method - pairwise)						
estimate	SE	df	t.ratio	p.value		
-0.0117	0.1966	88	-0.0593	1		
-1.5067	0.1966	88	-7.6629	<.001**		
				*		
-1.5092	0.1966	88	-7.6756	<.001**		
				*		
0.0925	0.1966	88	0.4705	0.9998		
0.0908	0.1966	88	0.462	0.9998		
0.19	0.1966	88	0.9663	0.9780		
estimate	SE	df	t.ratio	p.value		
	estimate -0.0117 -1.5067 -1.5092 0.0925 0.0908 0.19	estimate SE -0.0117 0.1966 -1.5067 0.1966 -1.5092 0.1966 0.0925 0.1966 0.0908 0.1966 0.19 0.1966	estimate SE df -0.0117 0.1966 88 -1.5067 0.1966 88 -1.5092 0.1966 88 0.0925 0.1966 88 0.0908 0.1966 88 0.19 0.1966 88	estimate SE df t.ratio -0.0117 0.1966 88 -0.0593 -1.5067 0.1966 88 -7.6629 -1.5092 0.1966 88 -7.6756 0.0925 0.1966 88 0.4705 0.0908 0.1966 88 0.462 0.19 0.1966 88 0.9663		

4.5cm,T1 - 7.5cm,T4	0.1917	0.1966	88	0.9748	0.9768
7.5cm,T4 7.5cm,T1 -	-1.495	0.1966	88	-7.6036	<.001***
4.5cm,T2					
7.5cm,T1 -	-1.4975	0.1966	88	-7.6163	<.001***
7.5cm,T2 7.5cm,T1 -	0.1042	0.1966	88	0.5298	0.9995
4.5cm,T3	0.20.2	0.2500		0.0200	0.5550
7.5cm,T1 -	0.1025	0.1966	88	0.5213	0.9995
7.5cm,T3	0.2017	0.1066	0.0	1 0257	0.0000
7.5cm,T1 -	0.2017	0.1966	88	1.0257	0.9693
4.5cm,T4 7.5cm,T1 -	0.2033	0.1966	88	1.0342	0.9679
7.5cm,T4	0.2033	0.1900	00	1.0342	0.9679
4.5cm,T2 -	-0.0025	0.1966	88	-0.0127	1
7.5cm,T2	0.0023	0.1300	00	0.0127	1
4.5cm,T2 -	1.5992	0.1966	88	8.1334	<.001***
4.5cm,T3					
4.5cm,T2 -	1.5975	0.1966	88	8.1249	<.001***
7.5cm,T3					
4.5cm,T2 -	1.6967	0.1966	88	8.6292	<.001***
4.5cm,T4	1 6000	0.1066	00	0.6277	001***
4.5cm,T2 -	1.6983	0.1966	88	8.6377	<.001***
7.5cm,T4	1 6017	0.1066	00	8.1461	- 001***
7.5cm,T2 - 4.5cm,T3	1.6017	0.1966	88	8.1461	<.001***
7.5cm,T2 -	1.6	0.1966	88	8.1376	<.001***
7.5cm,T3	1.0	0.1500	00	0.1370	1.001
7.5cm,T2 -	1.6992	0.1966	88	8.642	<.001***
4.5cm,T4					
7.5cm,T2 -	1.7008	0.1966	88	8.6504	<.001***
7.5cm,T4					
4.5cm,T3 -	-0.0017	0.1966	88	-0.0085	1
7.5cm,T3					
4.5cm,T3 -	0.0975	0.1966	88	0.4959	0.9997
4.5cm,T4	0.0000	0.1066	00	0.5044	0.0006
4.5cm,T3 -	0.0992	0.1966	88	0.5044	0.9996
7.5cm,T4	0.0002	0.1066	88	0.5044	0.9996
7.5cm,T3 - 4.5cm,T4	0.0992	0.1966	88	0.5044	0.9996
7.5cm,T3 -	0.1008	0.1966	88	0.5128	0.9996
7.5cm,T4	0.1000	0.1300	55	0.5120	0.5550
4.5cm,T4 -	0.0017	0.1966	88	0.0085	1
7.5cm,T4					

7.5cm,14 Note. Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1







Interaction plot with Confidence Intervals

