

Faculty Stats, Sessions 4 and 5

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Analysis of Variance (ANOVA)

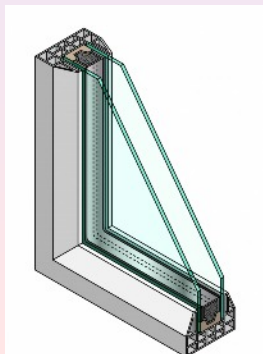
- When things differ, can variation be attributed to one factor more than another?
- Example: Species richness due to diet, geographic location, climate, predators, human influences, invasive species, etc.
- Example: Runoff due to precipitation, soil type, plant life, urban infrastructure, slope, permeability, etc.
- What matters most?



Iris data: For the three species, what varies significantly?



Anova: Single factor



ANOVA: Two-factor with replication

Video

1		Substrate				
2		BrickRubble	ColierySpoil	Subsoil		
3		12	11	16		
4	Fertilizer	13	10	12		
5		10	8	14		
6		12	10	15		
7		11	12	14		
8		Control	12	9	12	
9			10	6	14	
10	11		9	14		
11	12		10	13		
12	8		8	15		
13						
14						