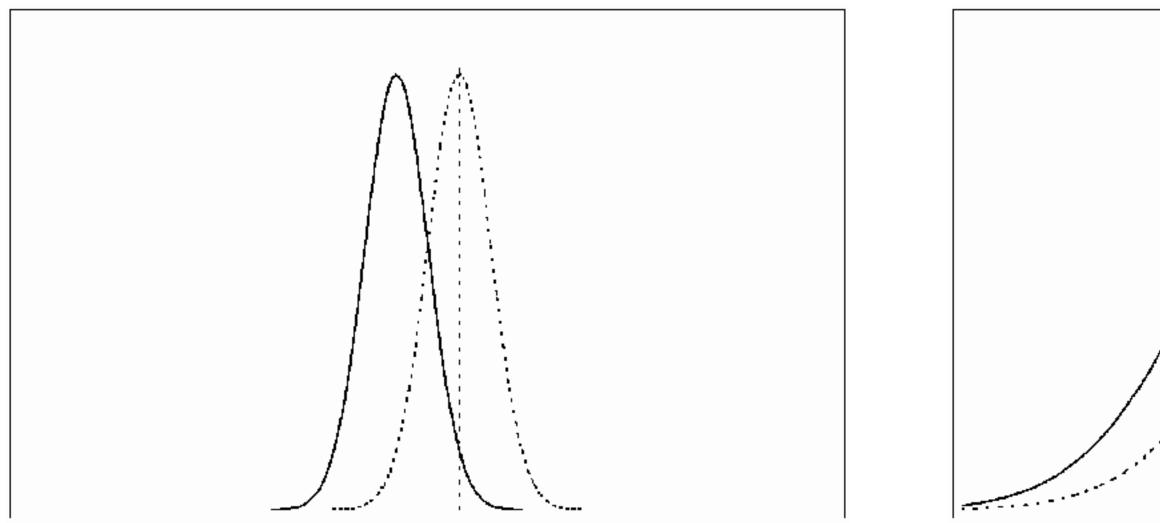
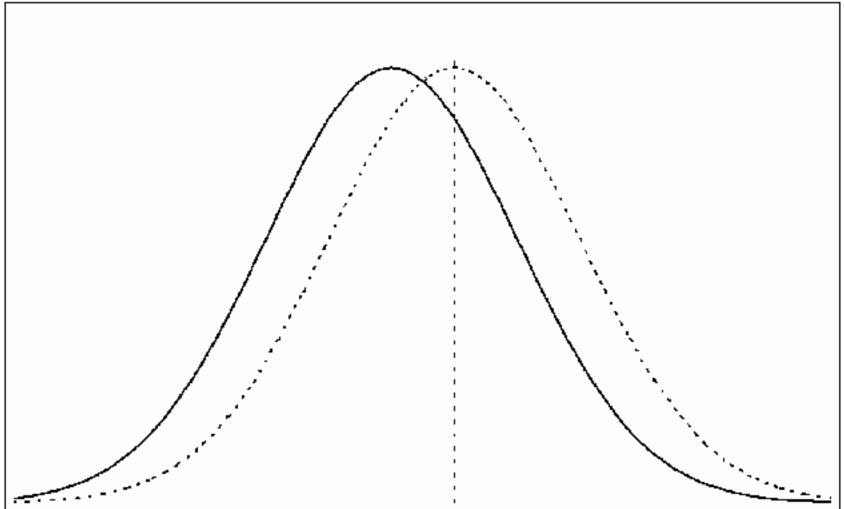
Using Effect Sizes

Ruben R. Puentedura, Ph.D.

Comparing Results





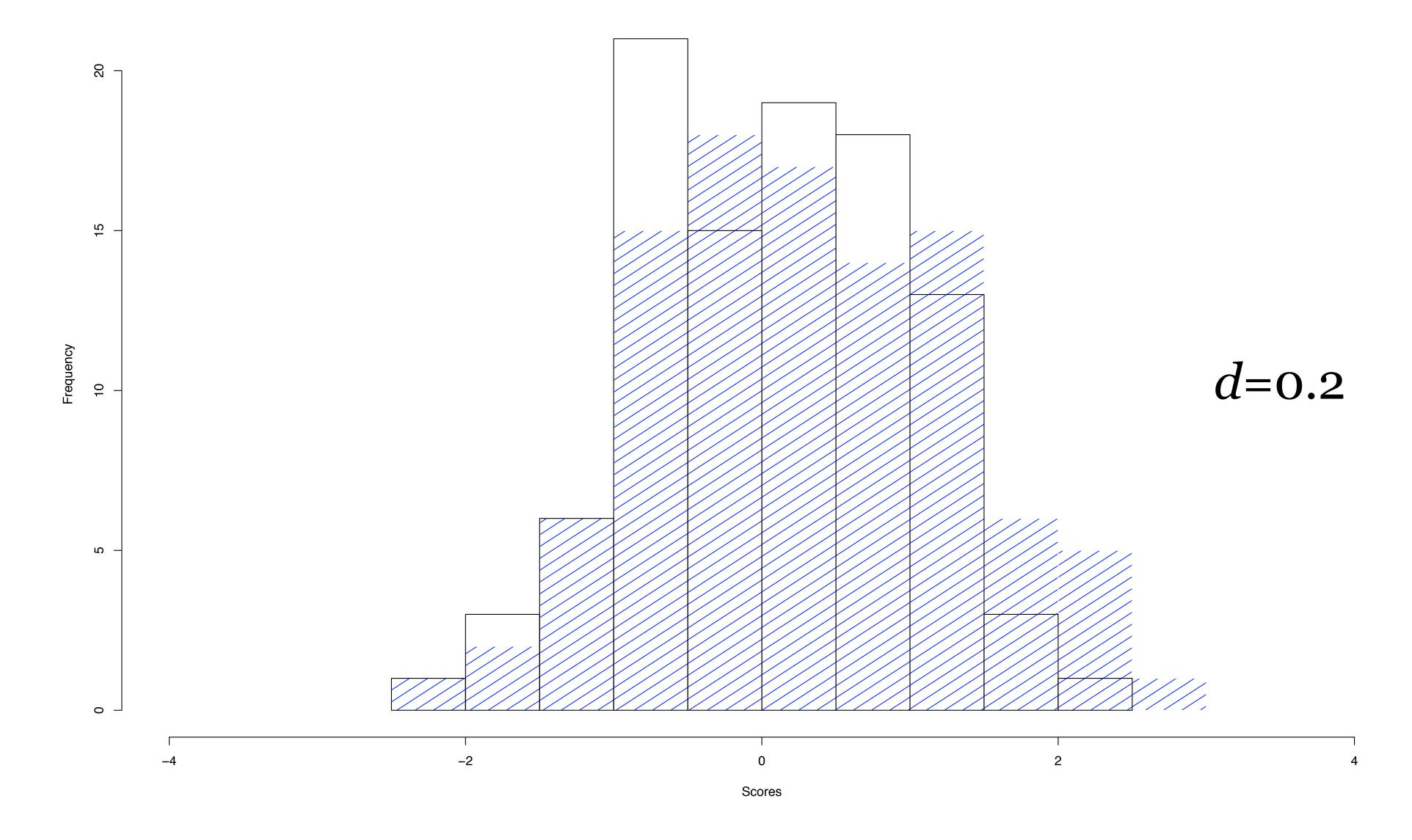
Cohen's Effect Size Index d

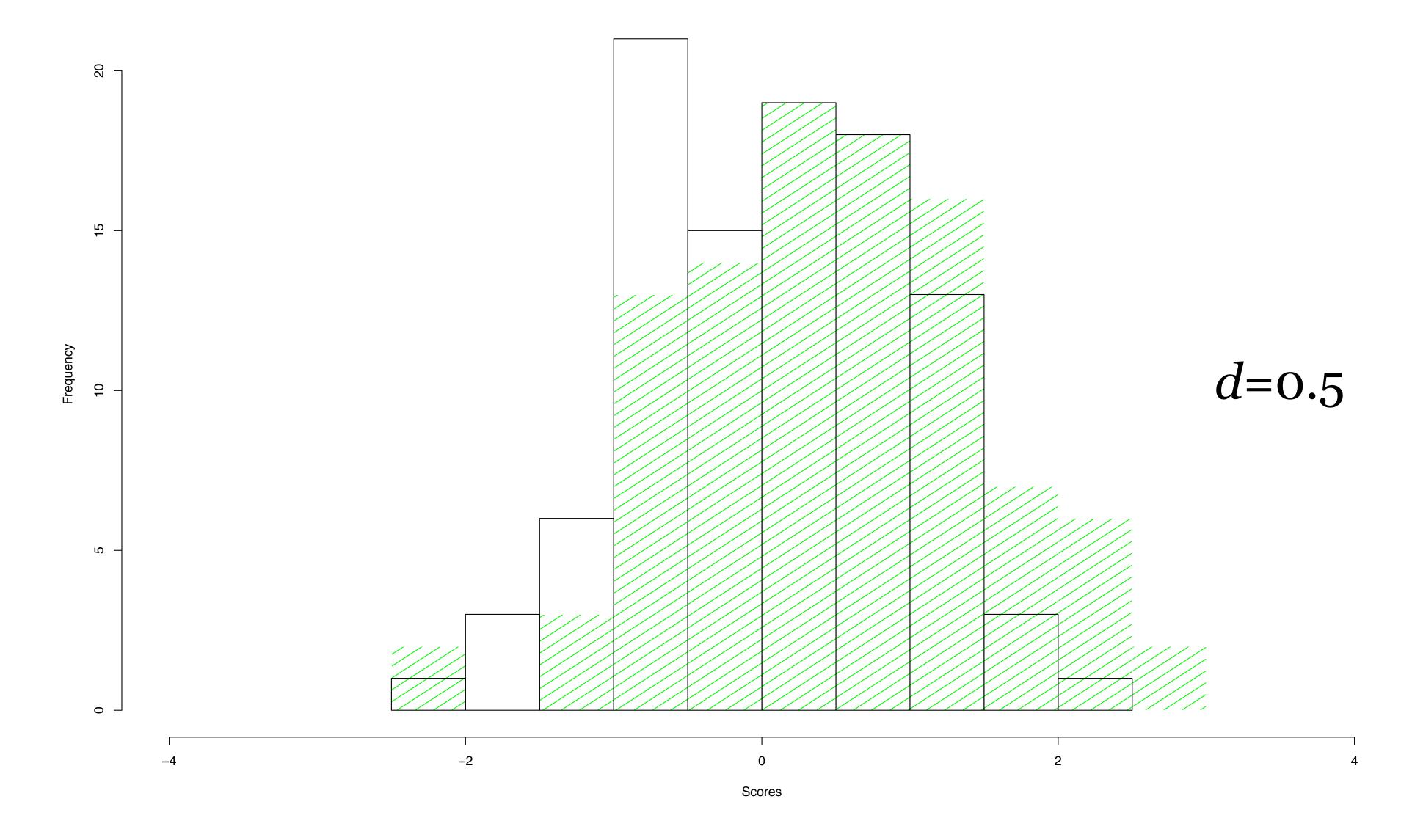
$$d = \frac{|m_A - m_B|}{\sqrt{\frac{(n_A - 1)\sigma_A^2 + (n_B - 1)\sigma_B^2}{n_A + n_B - 2}}}$$

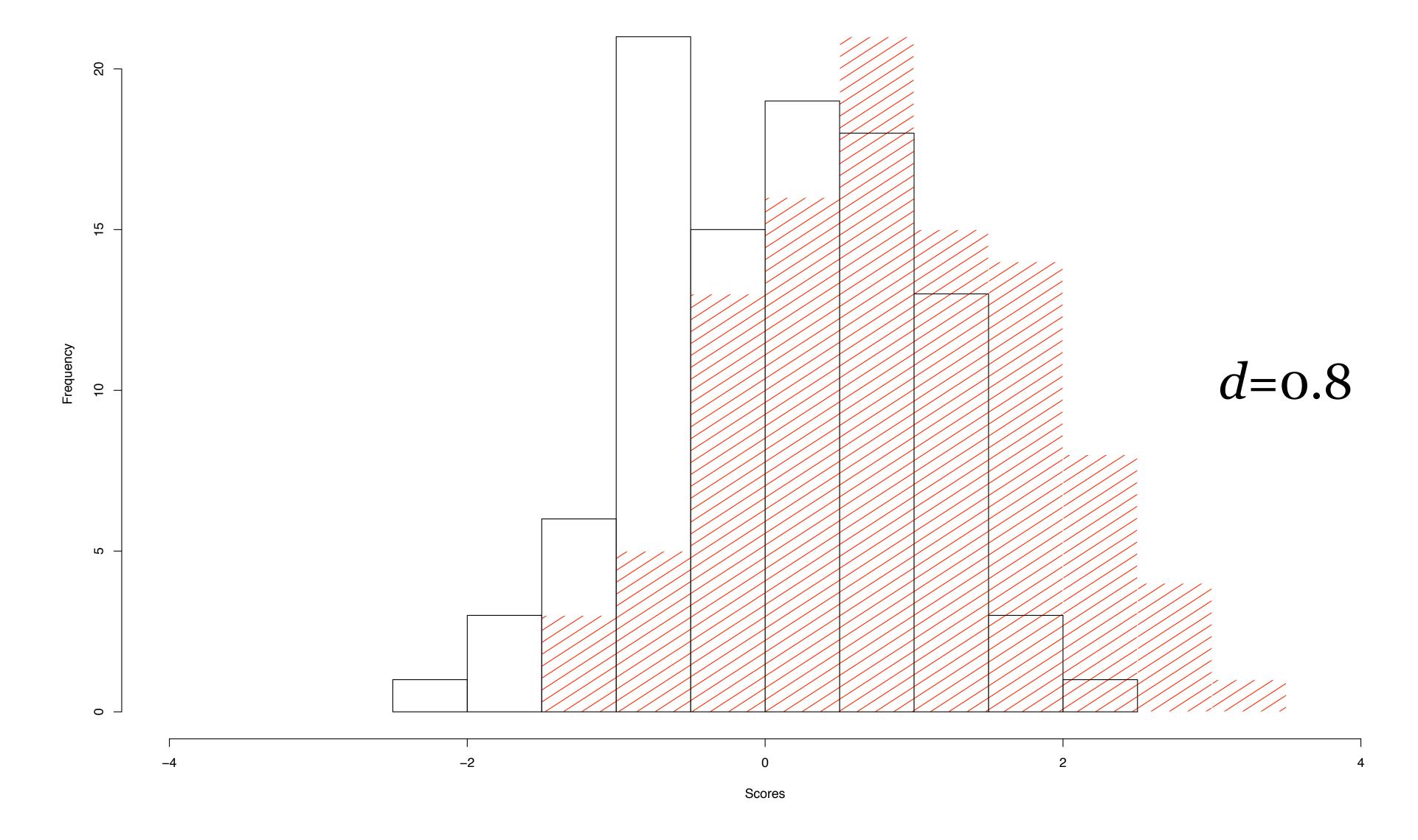
 m_A , m_B : mean scores for the two groups being compared

 n_A , n_B : sample sizes for the two groups being compared

 σ_A , σ_B : standard deviation of the scores for the two groups being compared

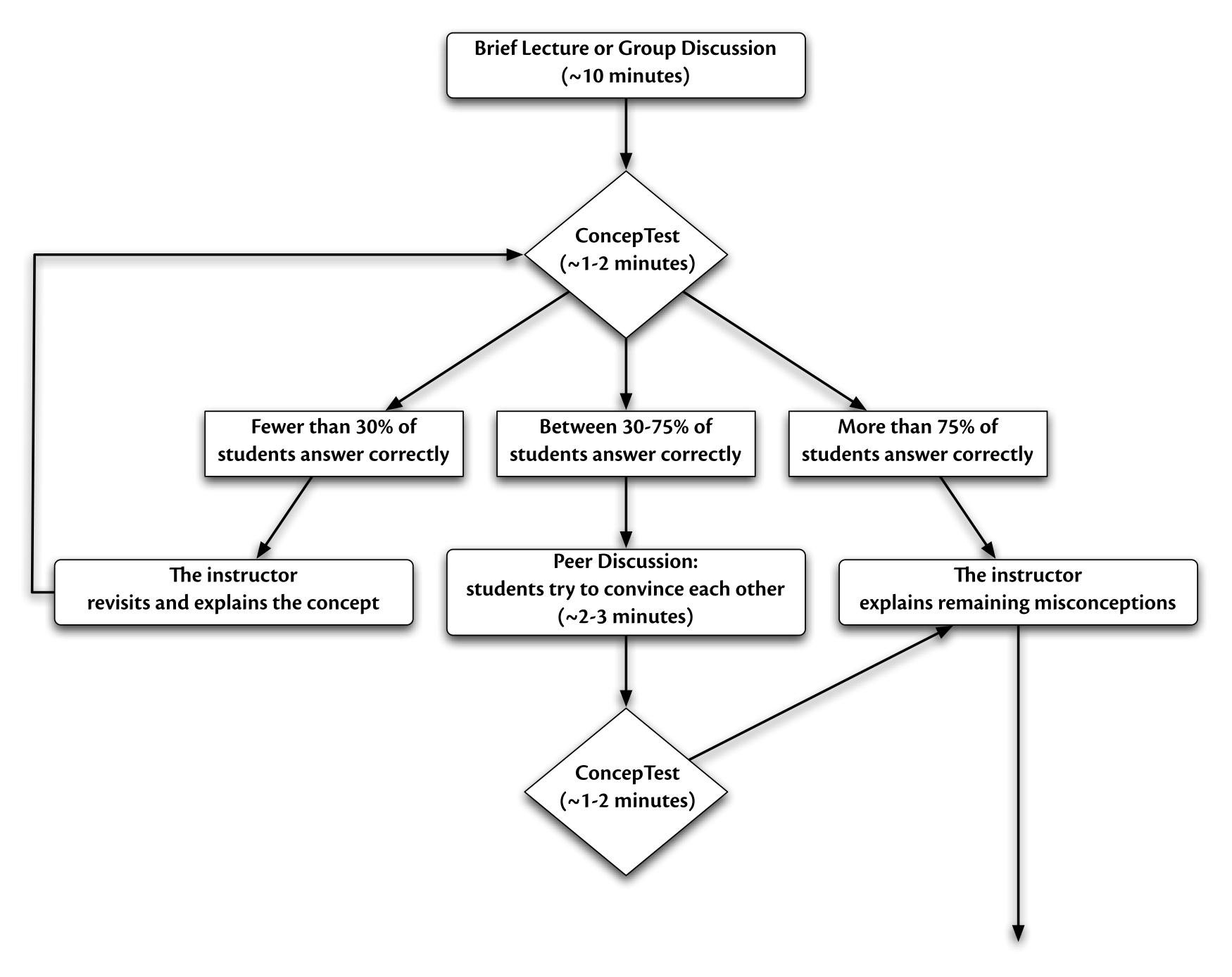






Converting Effect Size to Percentile Gain

Effect Size	Percentile Gain	Effect Size	Percentile Gain
0.1	4	1.1	36
0.2	8	1.2	38
0.3	12	1.3	40
0.4	16	1.4	42
0.5	19	1.5	43
0.6	23	1.6	45
0.7	26	1.7	46
0.8	29	1.8	46
0.9	32	1.9	47
1.0	34	2.0	49



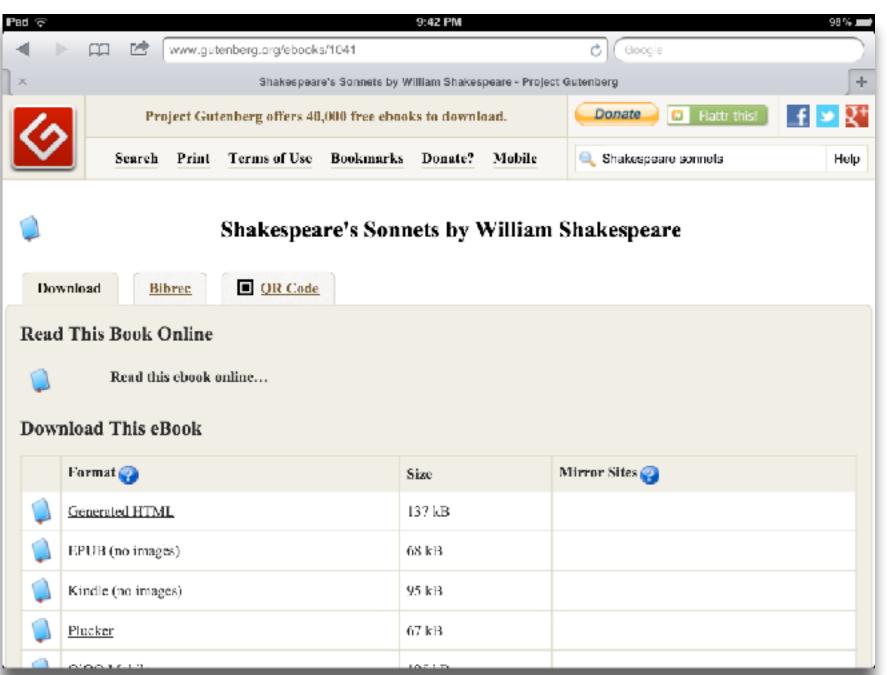
Redefinition
Tech allows for the creation of new tasks,
previously inconceivable

Modification Tech allows for significant task redesign

Augmentation

Tech acts as a direct tool substitute, with functional improvement

Substitution





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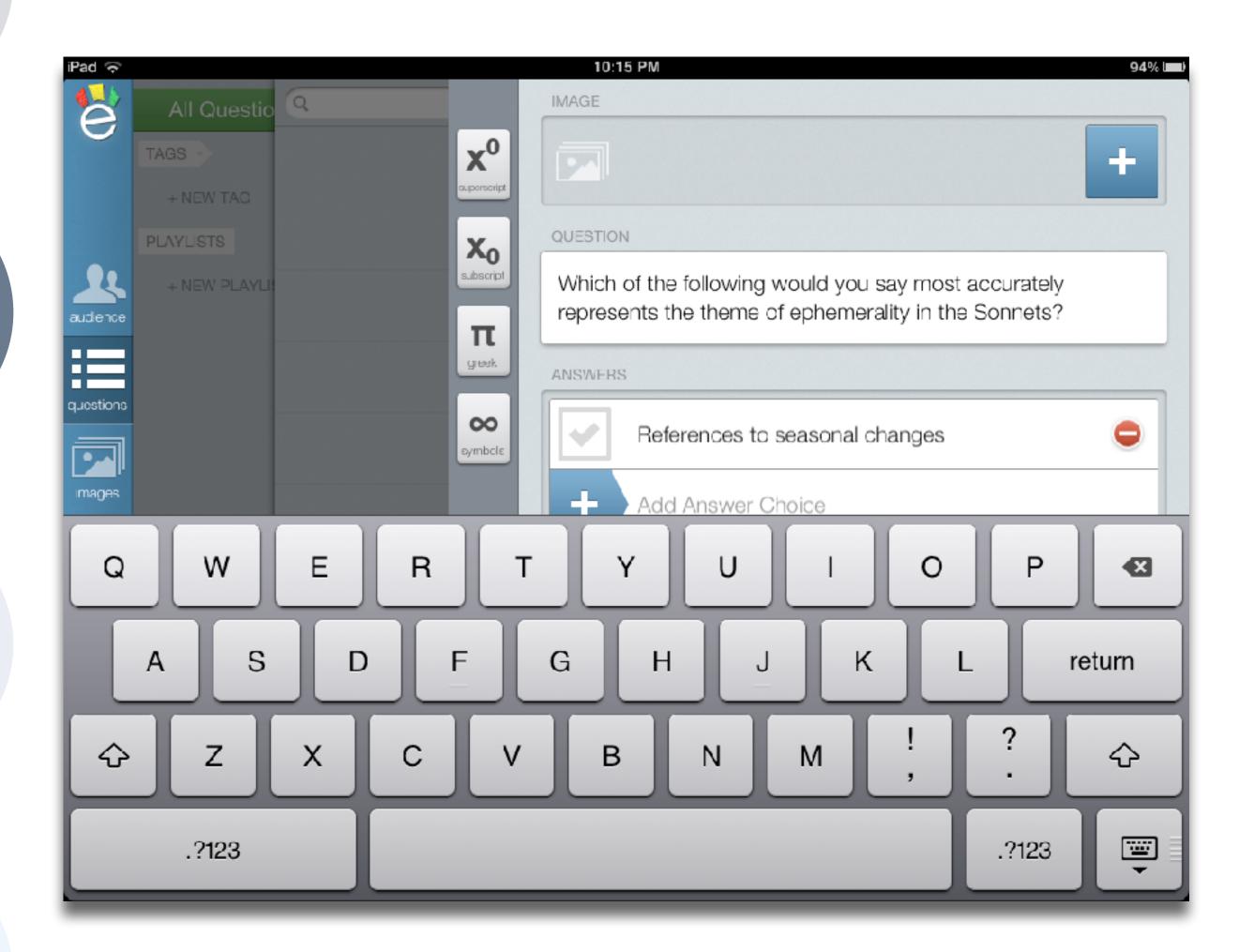
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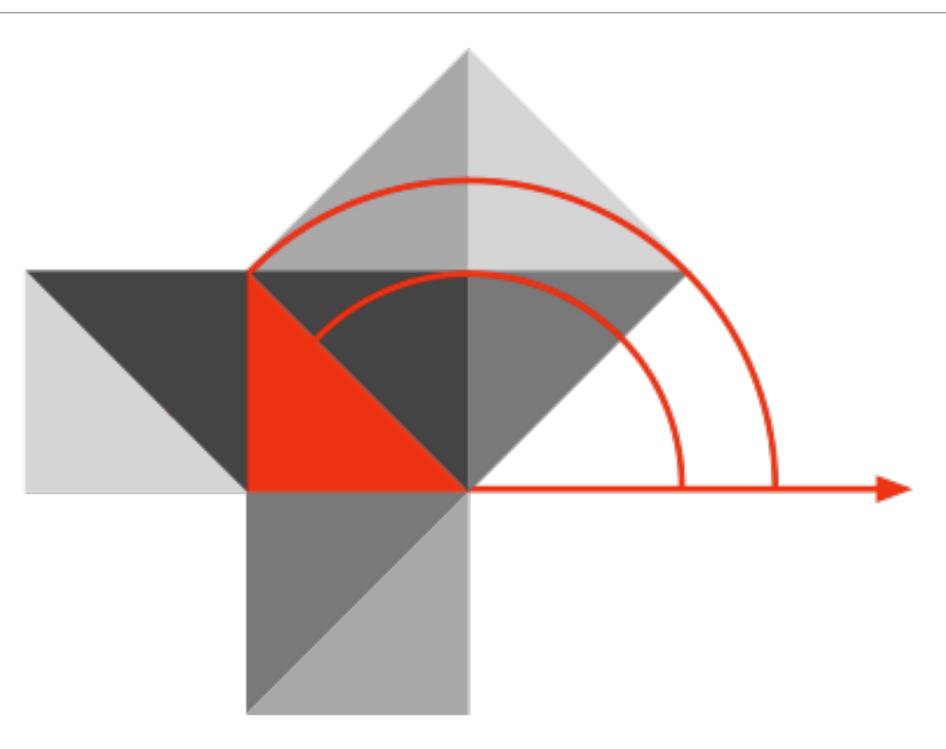
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