

Des- p-value –cito

DSCI- 541- Communication and Argumentation

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Pardon me?

P-ardon me?



The Analogy

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American History – P: The Ground Work

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Alternate Hypothesis

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- When we prove the alternate hypothesis is correct and “true”, we say we are **rejecting the null hypothesis.**

Terms and Conditionals

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$P(\text{Obtaining Stronger Results than Current Ones} \mid \text{Null Hypothesis is True}) = p \text{ value}$

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$P(\text{Obtaining Results pointing to more happening} \mid \text{Nothing happens}) = p \text{ value}$

To "p" or not to "p"?



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1.0

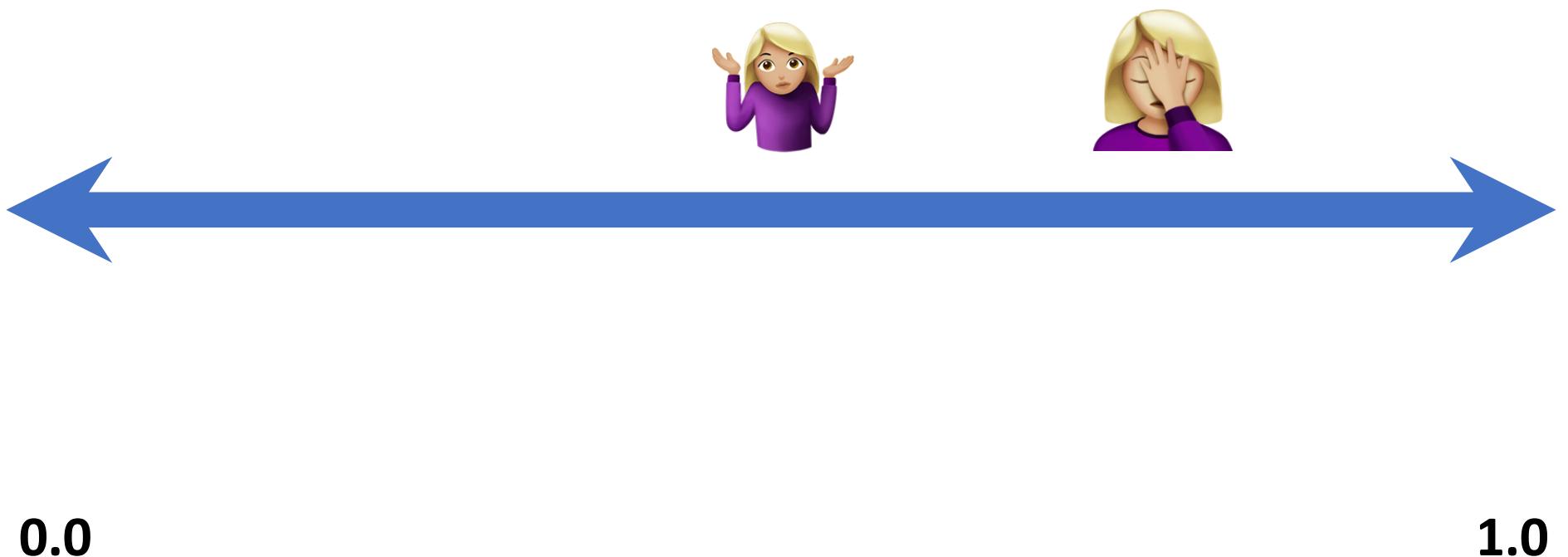
To "p" or not to "p"?



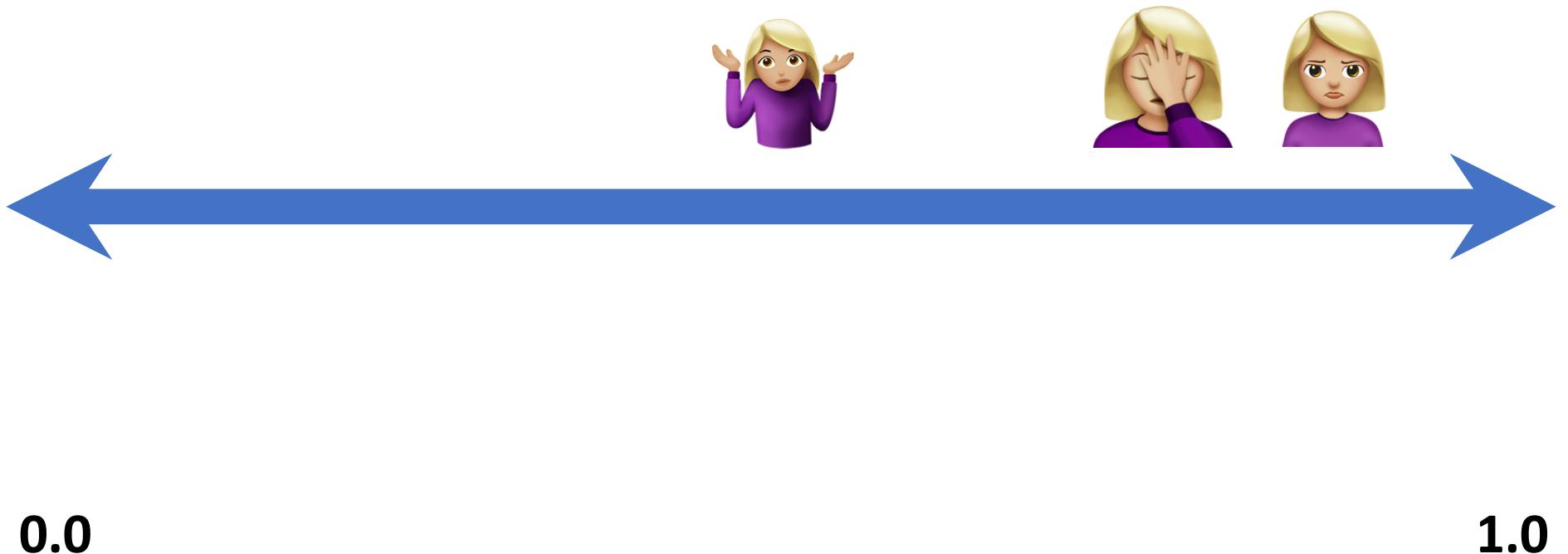
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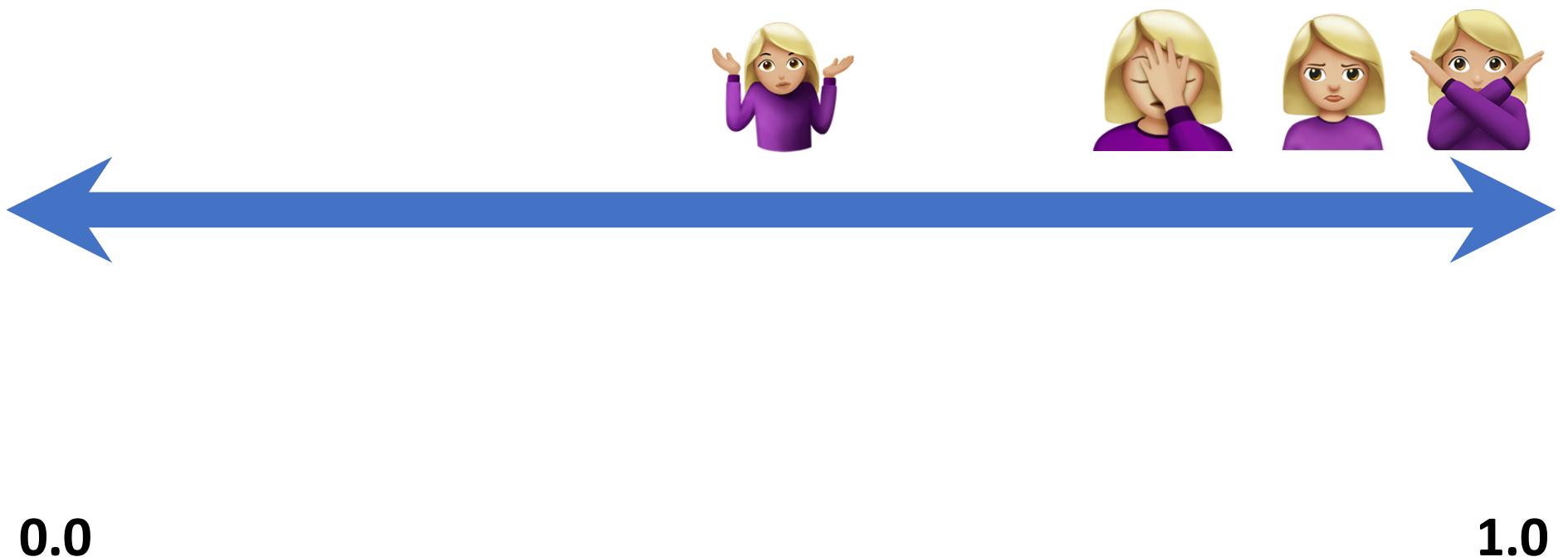
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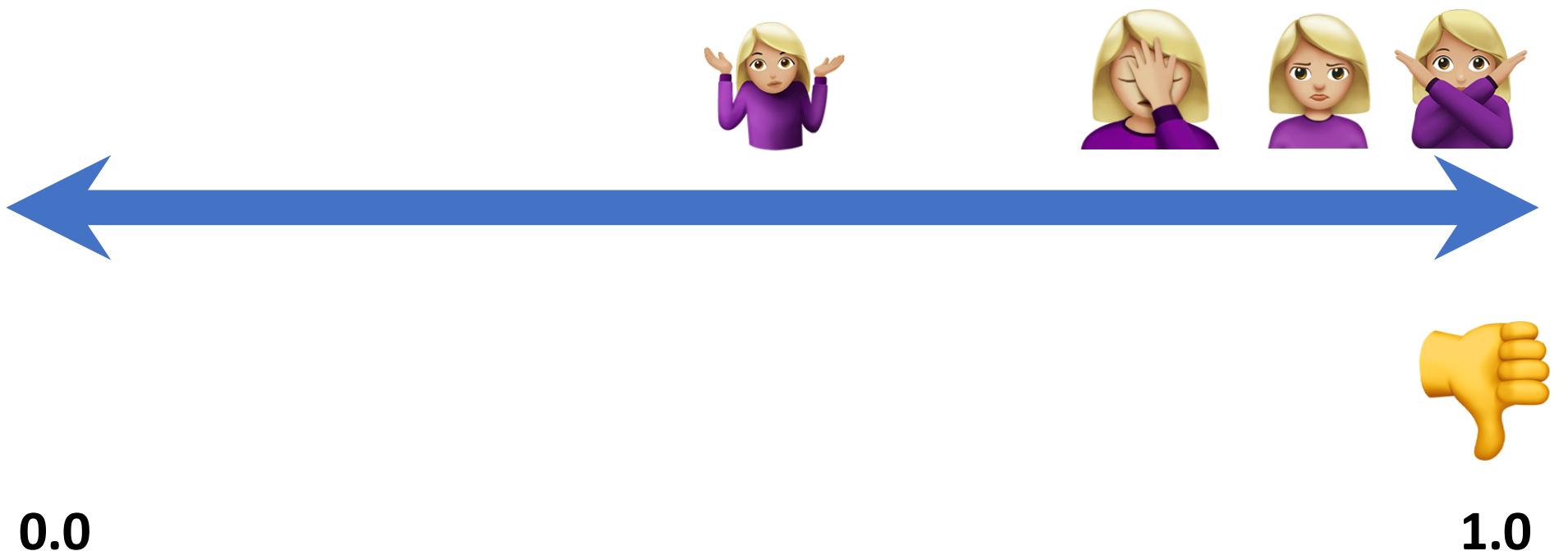
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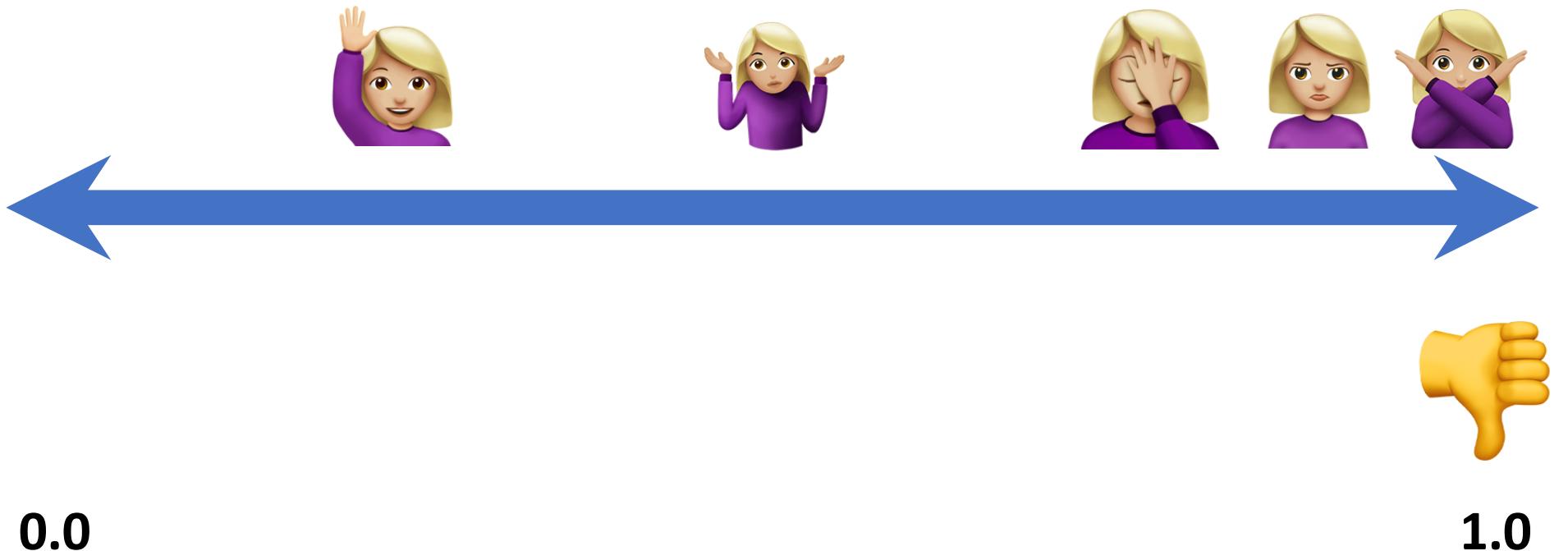
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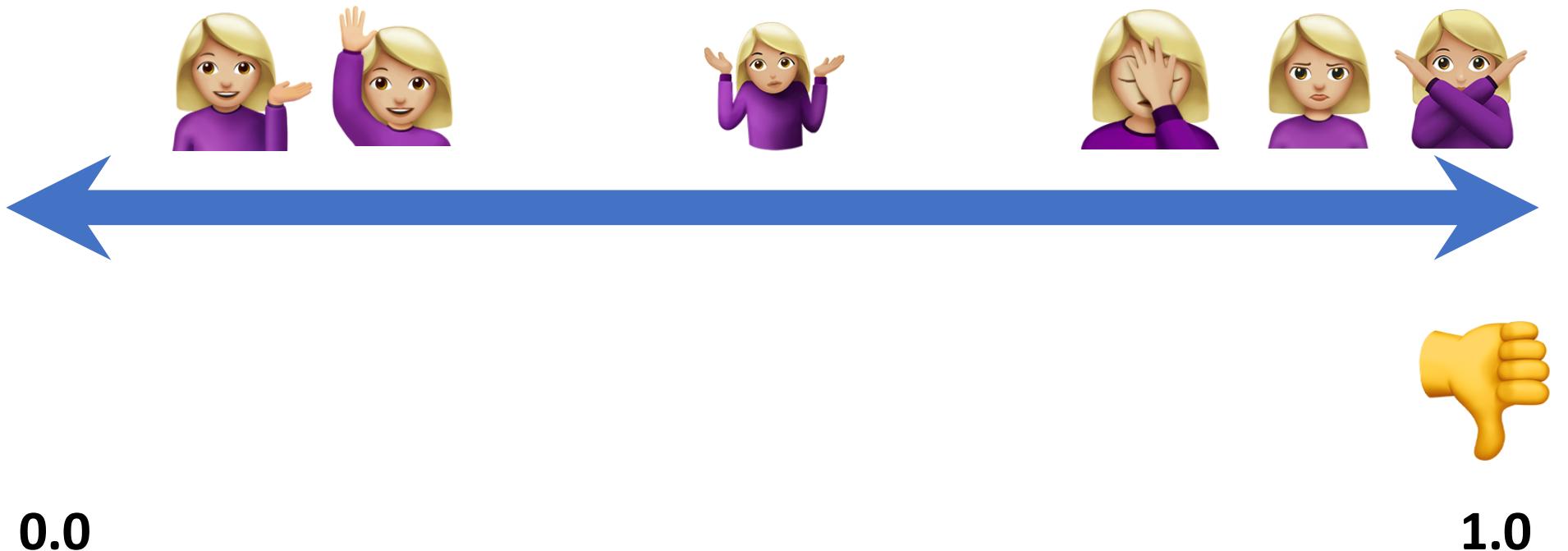
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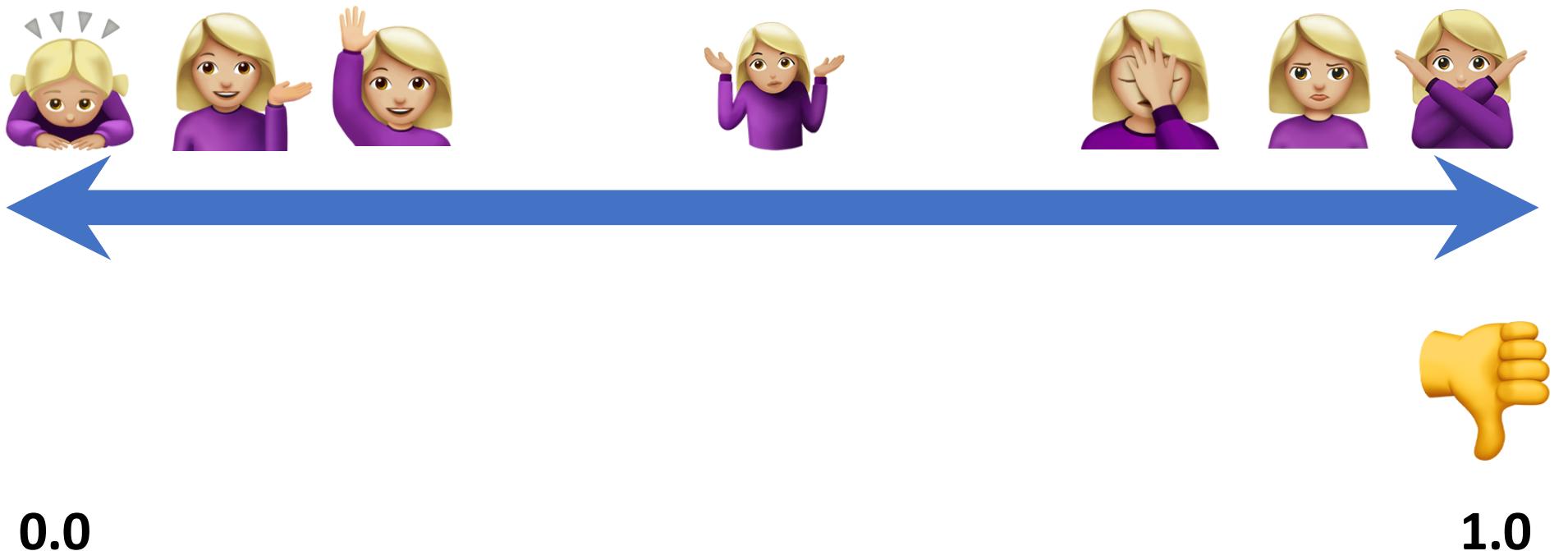
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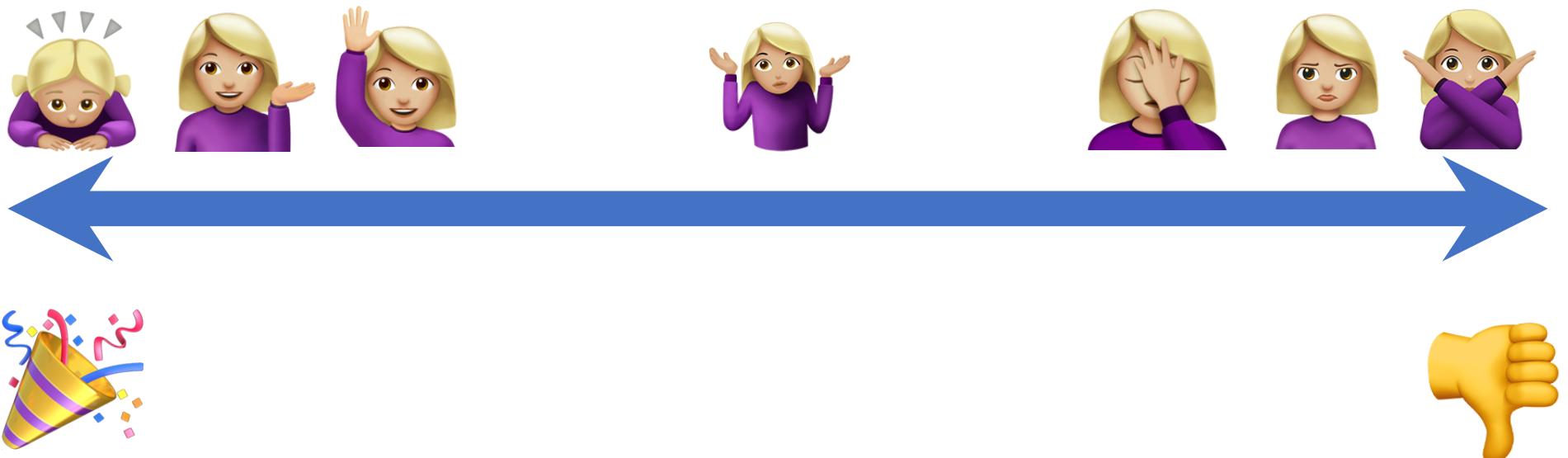
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0.0

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P-icking up the P-eices



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- If the price of dish soap is \$78.65, are we more likely to buy it, or forgo the purchase (and raid our parents' cupboards)?

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- What if instead the dish soap was \$2.99?

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From A to P

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- If our p value is **less** than alpha – we can say with confidence that something interesting happened!



From A to P

- If our p value is **greater** than alpha – no conclusions can be made to our question and we therefore accept the null.



Easy-P-easy!

Thank you, It was a P-leasure.