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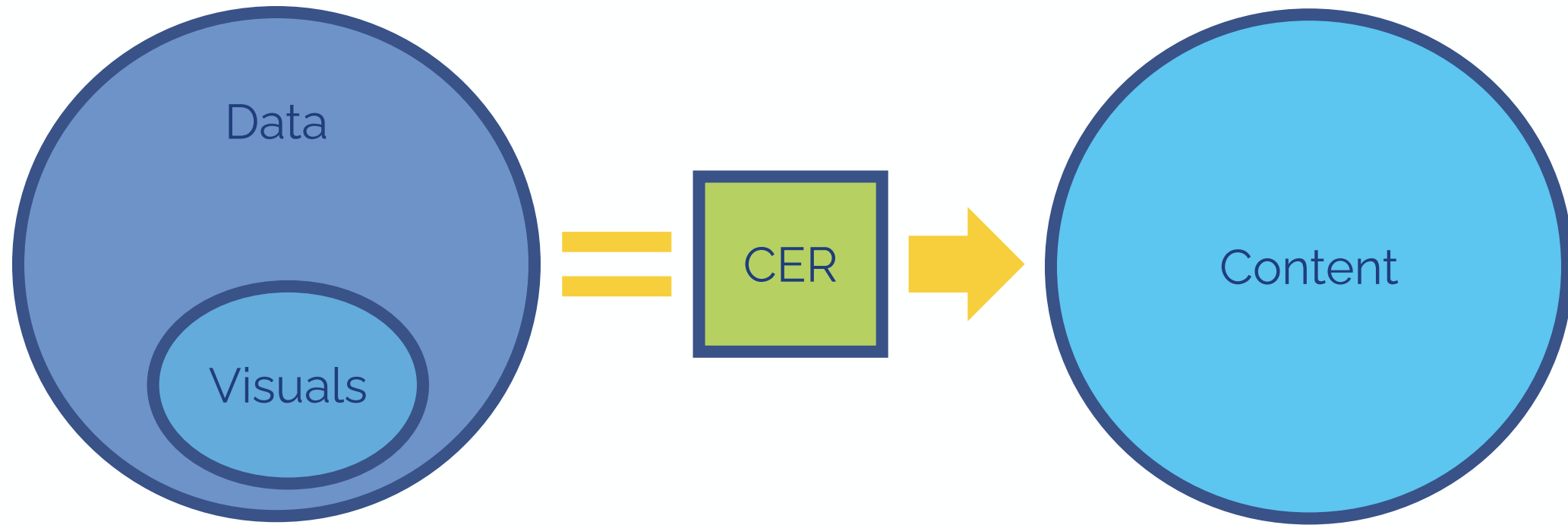
Developing CER Capability Framework

last updated 2/25/2022



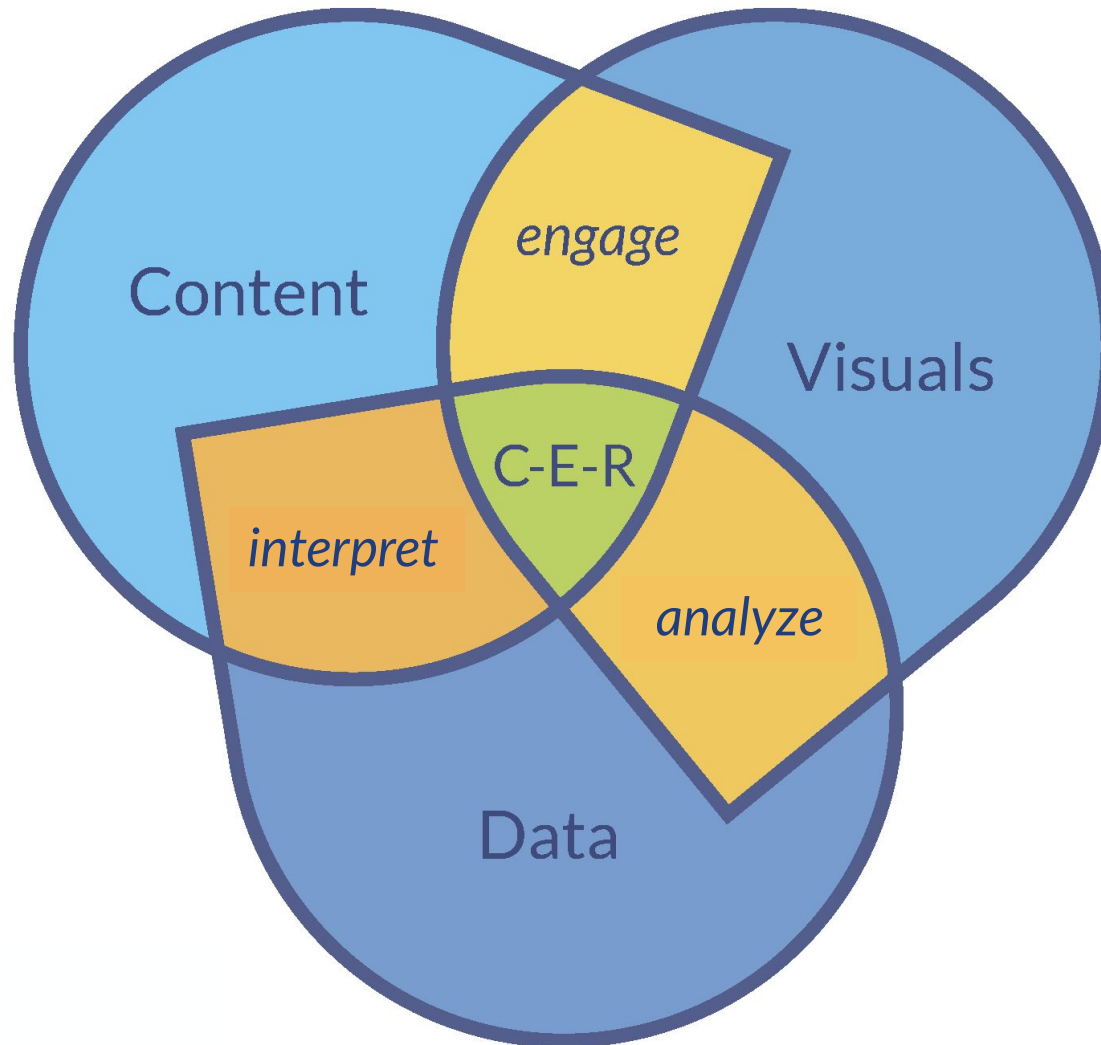
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Perception of Making a CER from Data

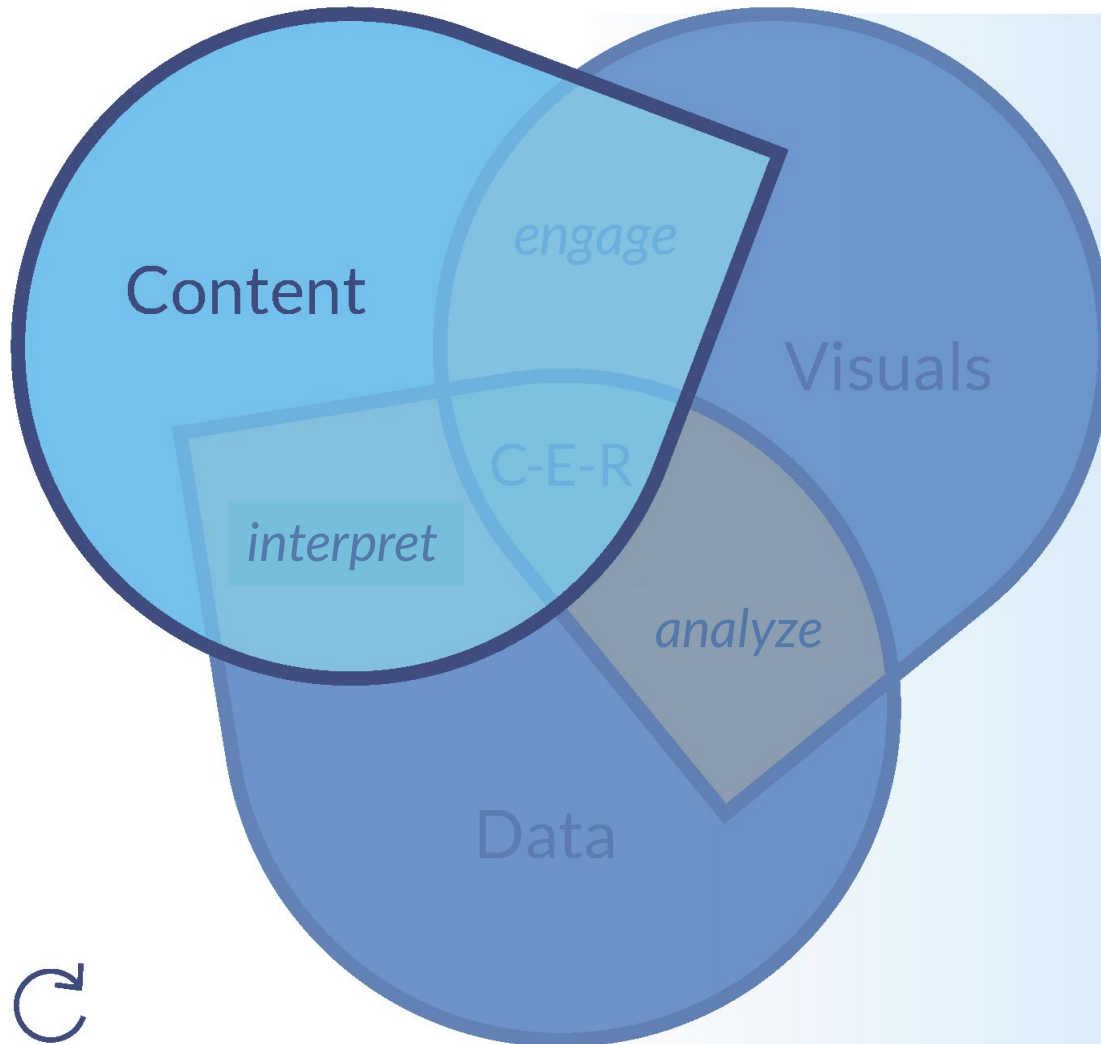


*Visuals = any visual form of looking at data – a table, graph, figure, chart, image, map, etc.

Developing Claim-Evidence-Reason Capability



Developing Claim-Evidence-Reason Capability



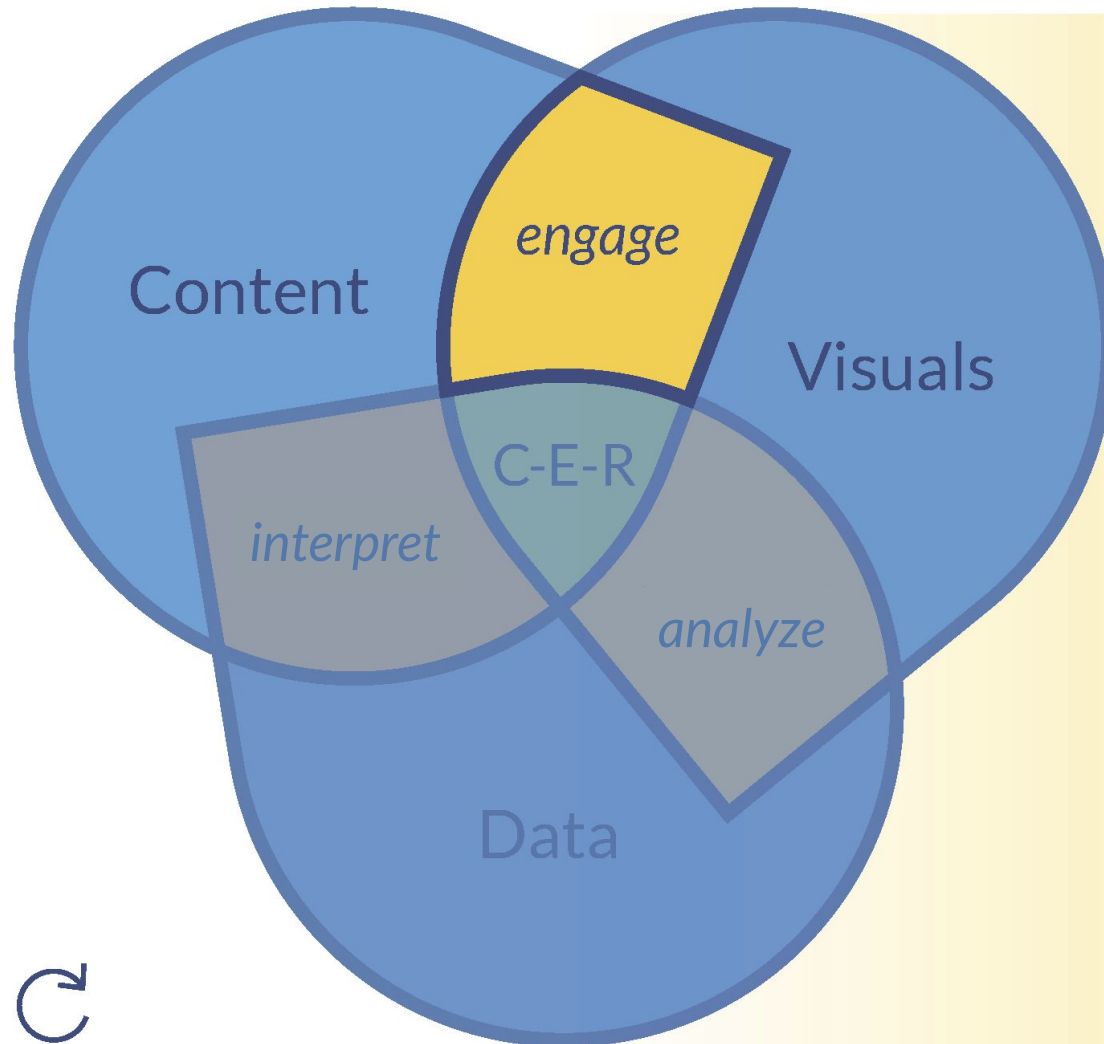
Content

What are we trying to investigate?

- We often start with a concept, content area, or idea to teach.
- This is the FOR WHAT.



Developing Claim-Evidence-Reason Capability

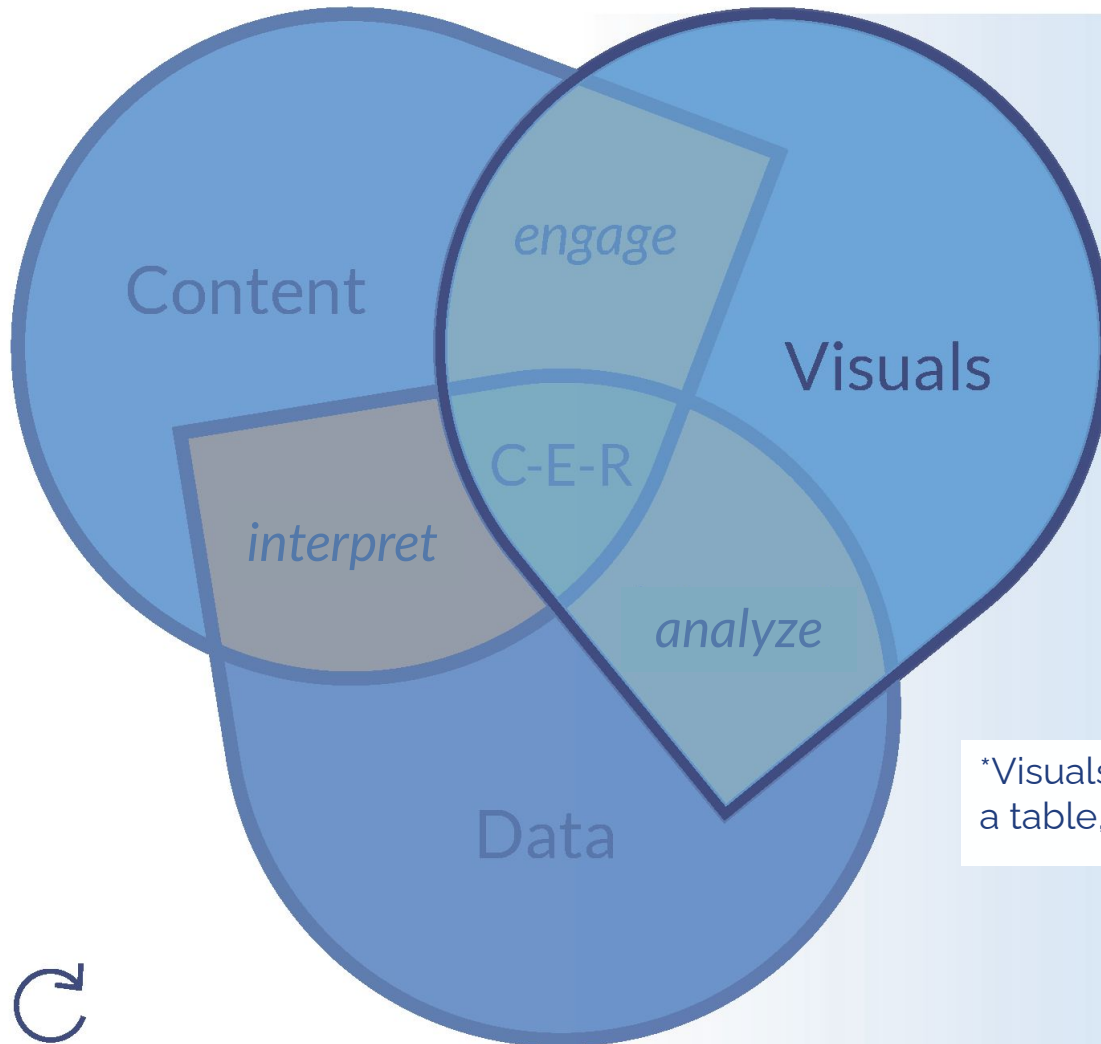


engage

1. What is the context?
2. What kind of data are being used?
3. What is the shape, size, and nature of the visualization?
4. What kind of visualization is it?
5. What are the parts of the visualization?



Developing Claim-Evidence-Reason Capability



Visuals

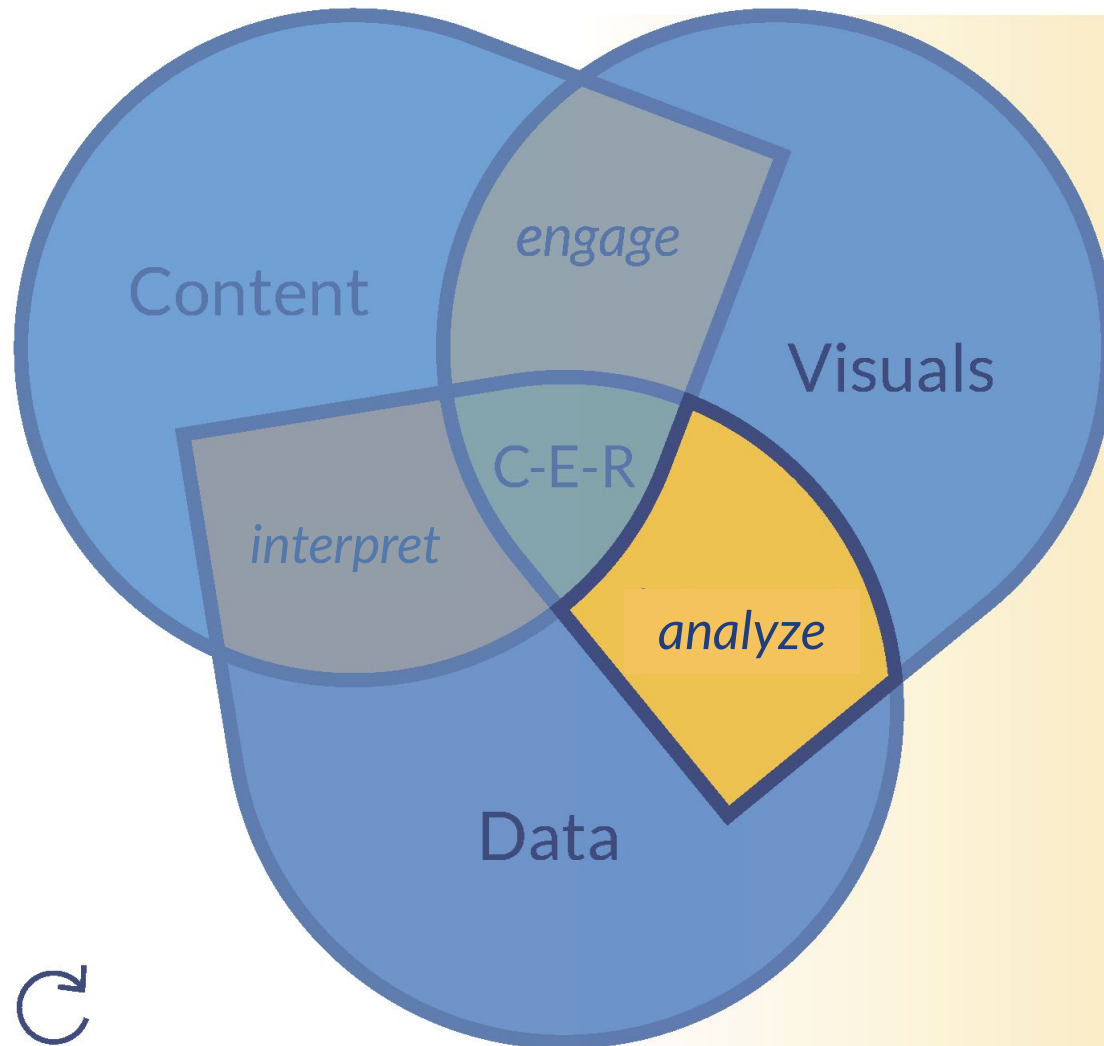
What is the best way to visualize our data?

- Either we provide, or students create, the visuals to work with the data.
- This is the HOW.

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Developing Claim-Evidence-Reason Capability



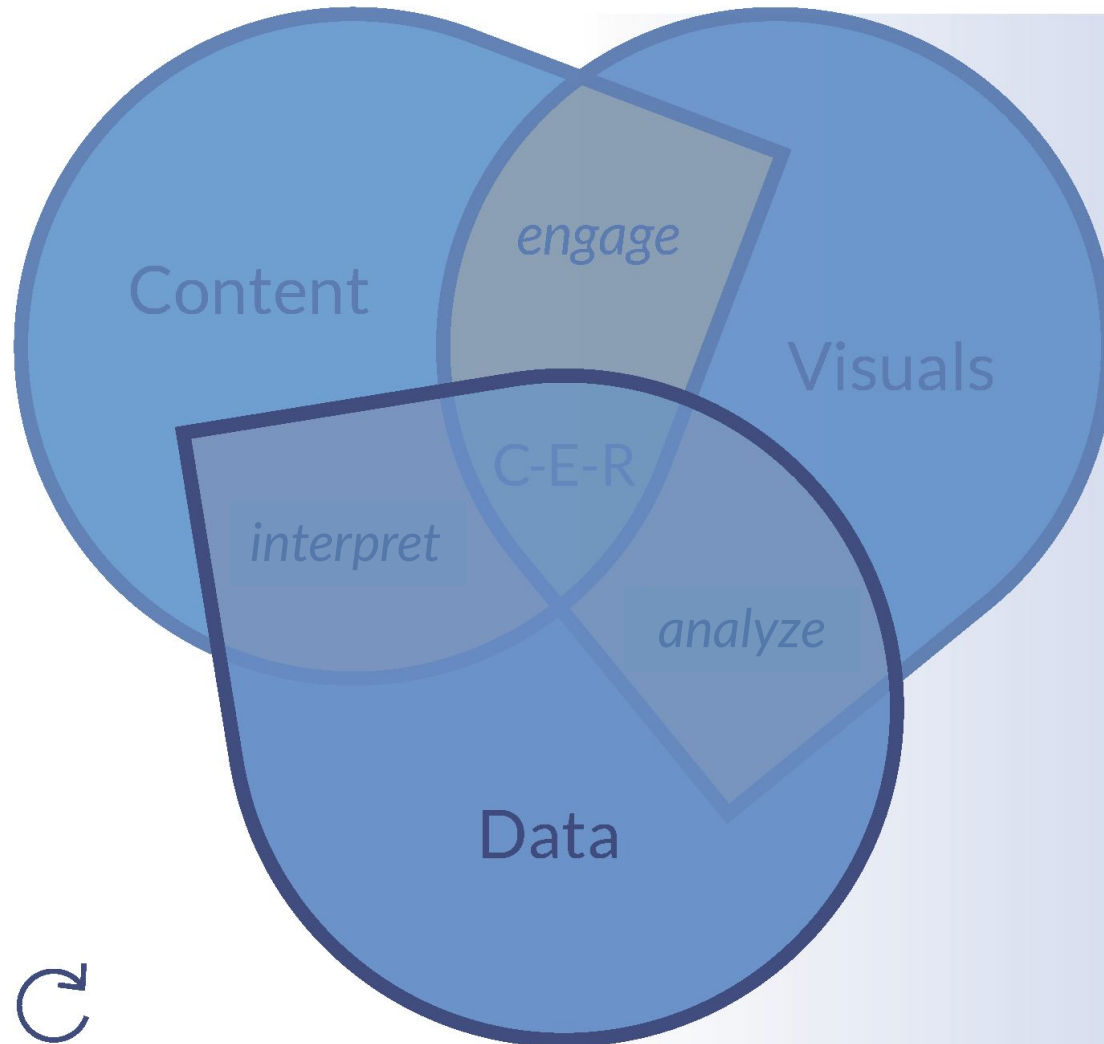
analyze

1. What are the data showing me?
2. What are the data ranges?
3. Are there outliers?
4. How do the variables change?
5. What is the pattern?

** Handout A Questions in
Nonsense Data Activity



Developing Claim-Evidence-Reason Capability



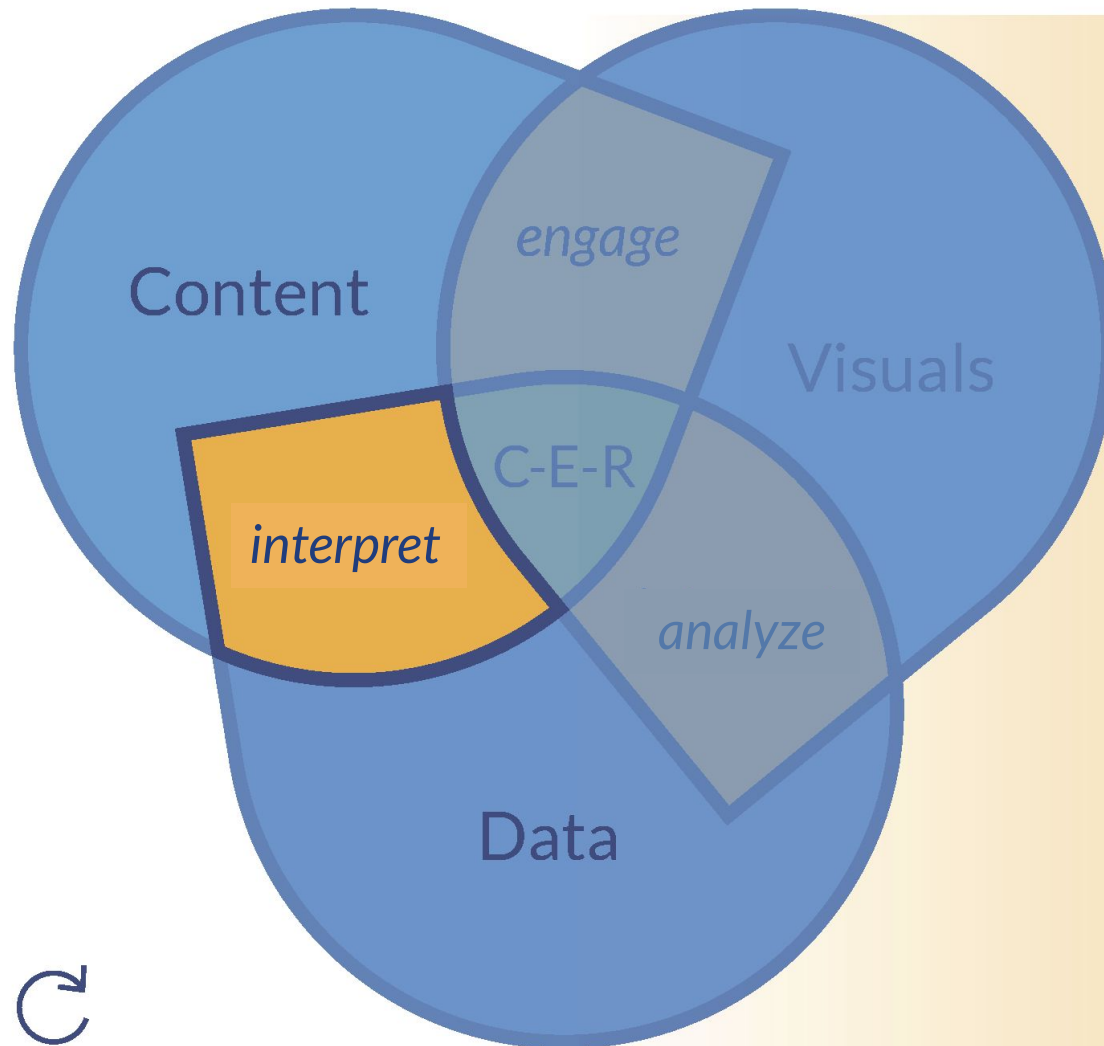
Data

What kind of data do we need?

- Data are our currency, as they are numbers with meaning.
- This is the WITH WHAT.



Developing Claim-Evidence-Reason Capability



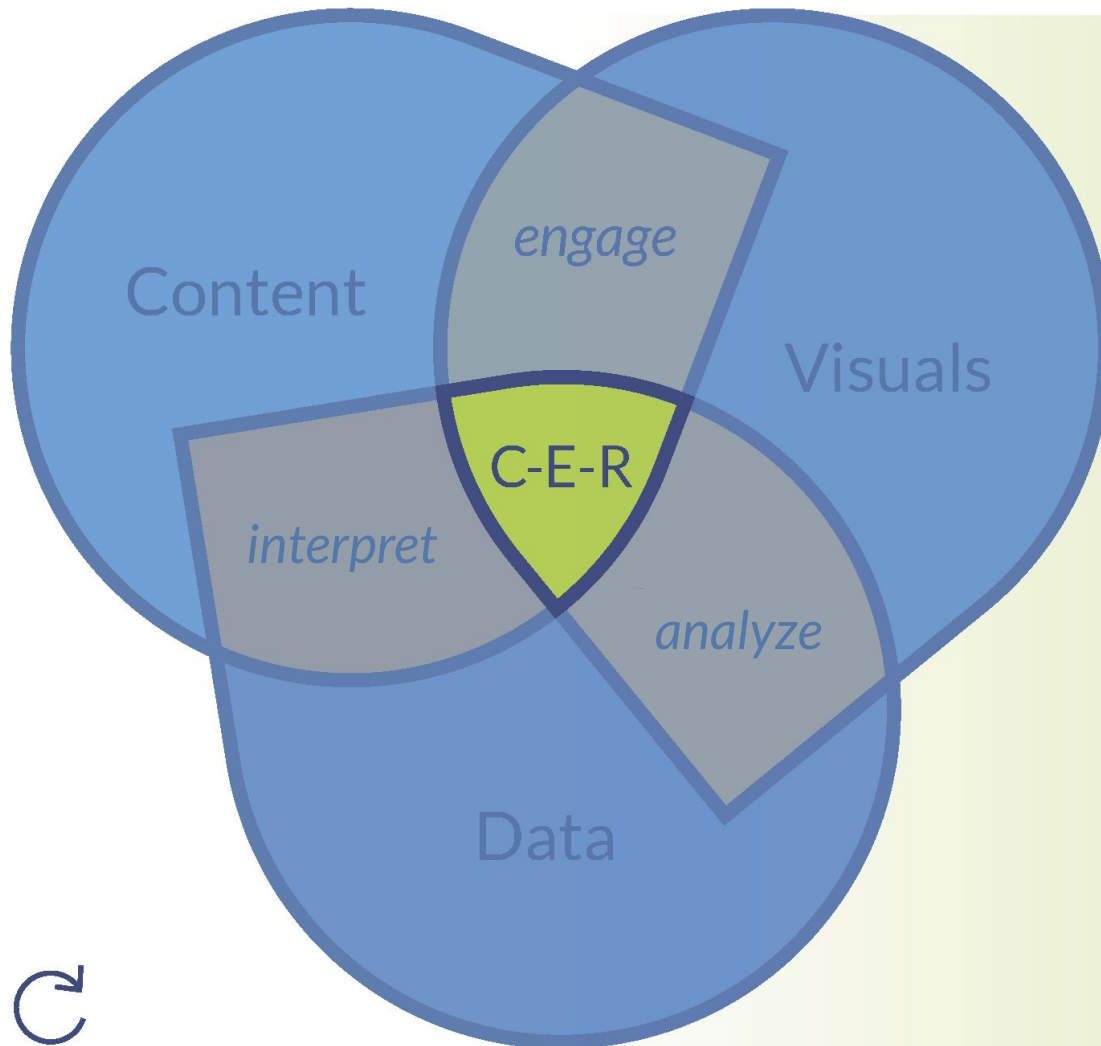
interpret

1. *What does the pattern mean?*
2. *How could that be?*
3. *How sure are we in the pattern?*
4. *What does all this mean to me?*
5. *How does this relate to other things I know?*

**** Handout B Questions in
Nonsense Data Activity**



Developing Claim-Evidence-Reason Capability



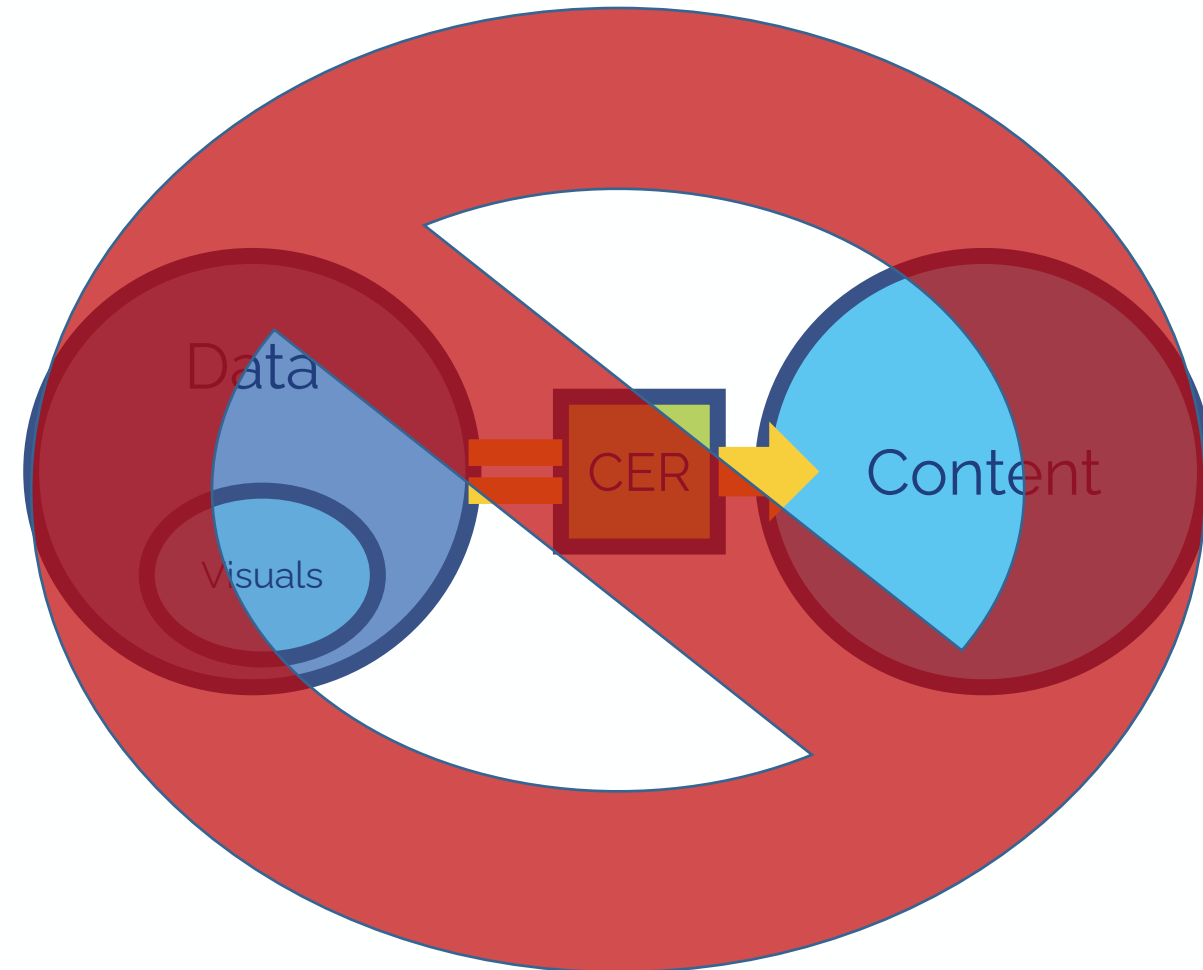
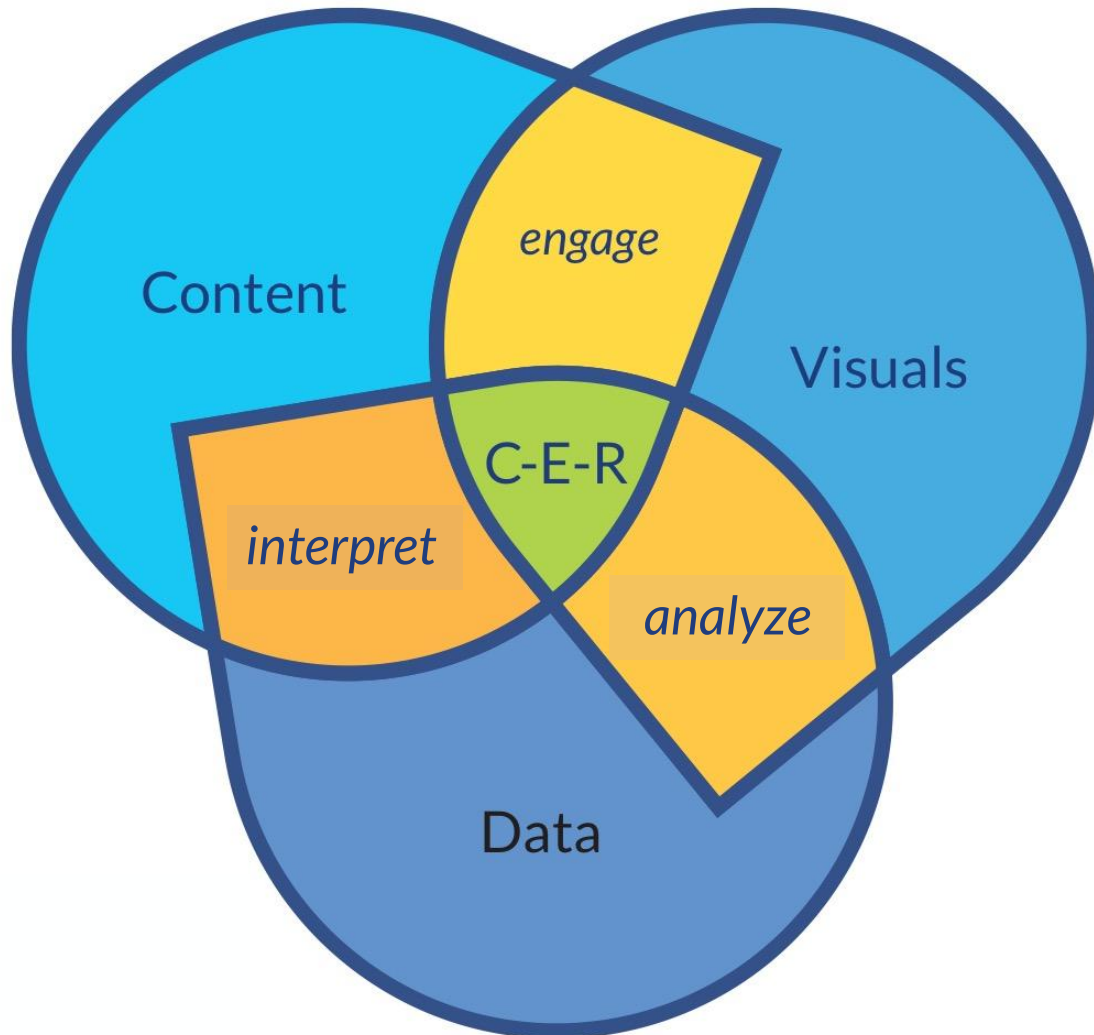
C-E-R

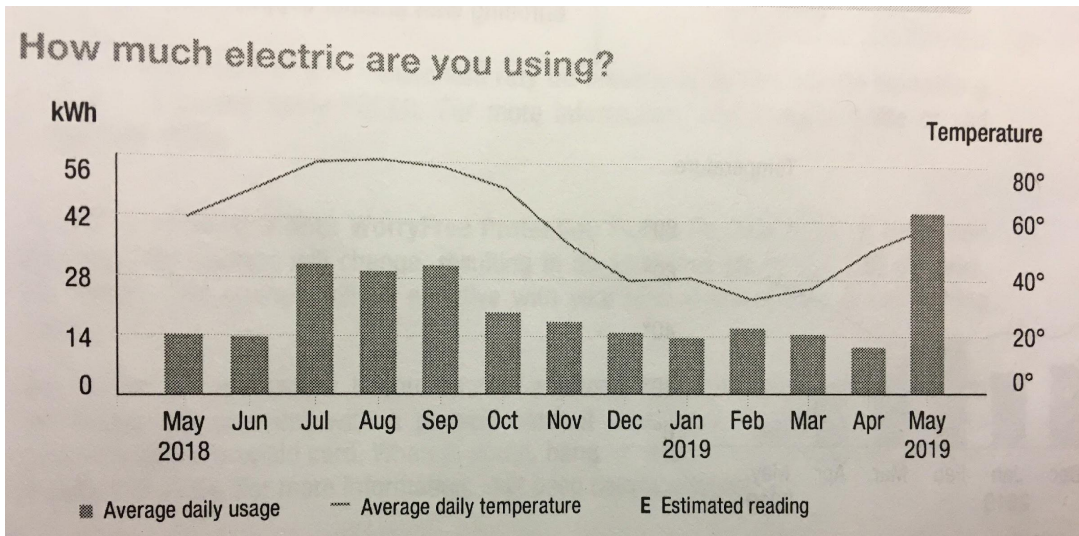
Claim – Evidence – Reason
Capability

- Connecting it all together to make meaning is what we want our students to do.
- This is the GOAL.



Developing CER Capability





Thank you!

Reach out with questions
and/or requests

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