

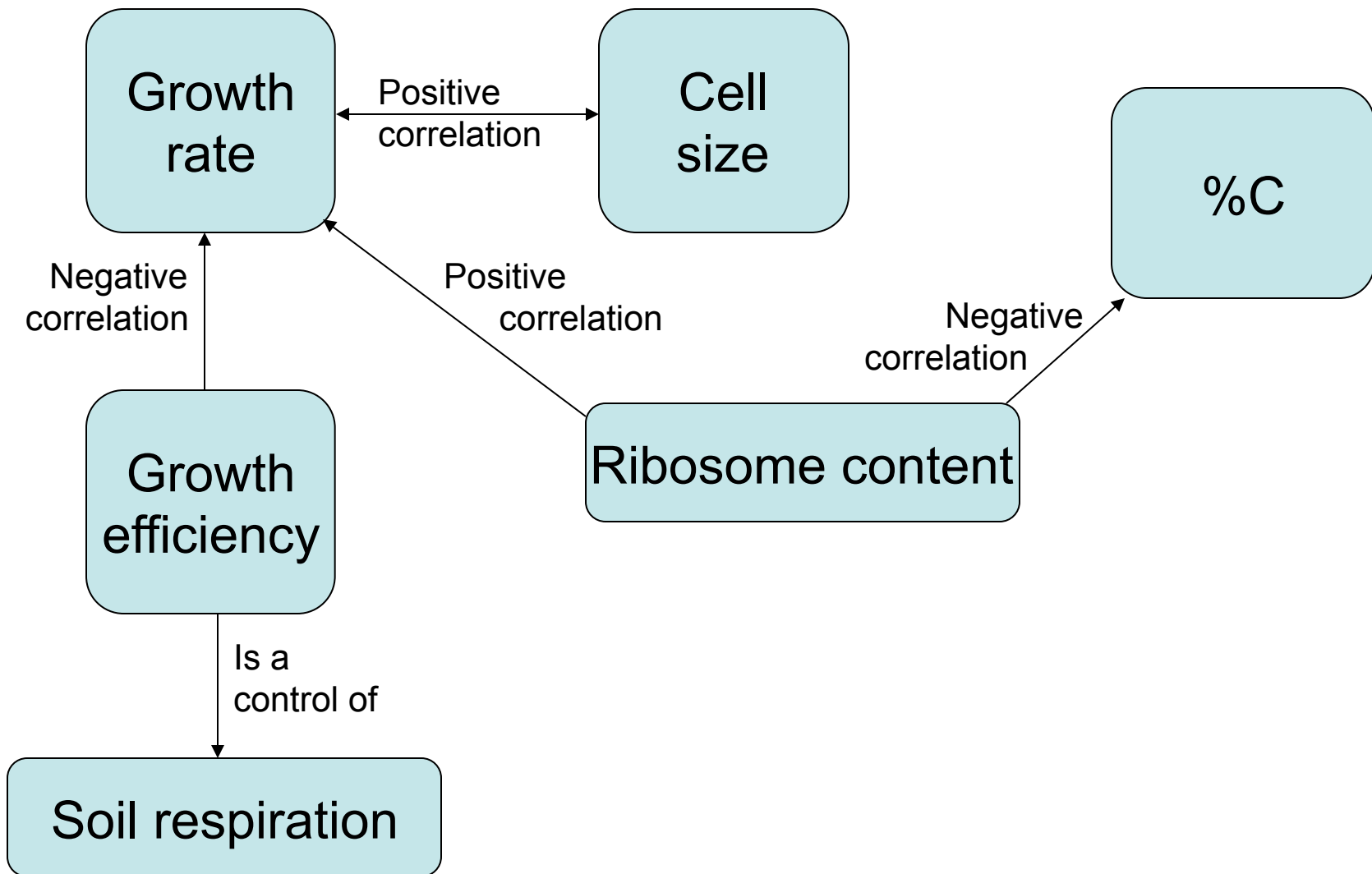
Combining sources to form an argument

An introduction to concept mapping

What is a concept map?

- A visual representation of understanding
 - It conveys what you know
 - And what you don't
- A useful way to organize complex ideas and relationships

What does a concept map look like?



Concept Mapping

Step 1: Prepare a list of paper summaries

- Growth rate is positively correlated with cell size
- Cell size is negatively correlated with %C content of cells
- There is a tradeoff between growth rate and growth efficiency
- Growth efficiency is a control of soil respiration rates
- Ribosome content is positively related to growth rate

Concept Mapping

Step Two: Creating Nodes

- Identify the key concepts in your summaries
- Place each concept in a rectangle or node

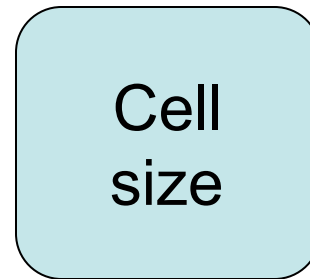
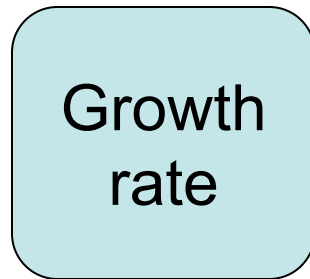
Tip: Each concept should be one to a few words

Note: Summaries may contain more than one concept or node

Concept Mapping

Step Two: Creating Nodes

Example: Growth rate is positively correlated with cell size



Concept Mapping

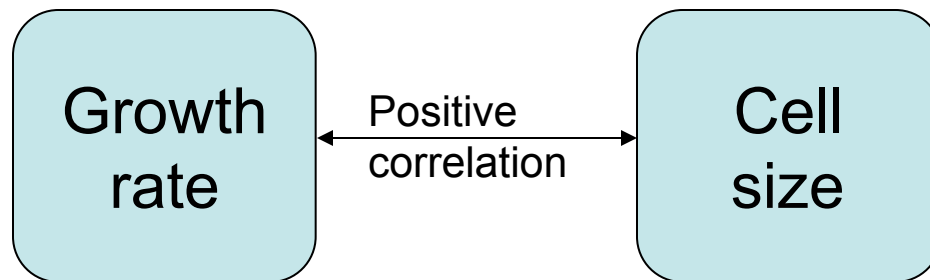
Step Three: Create relationships

- You can use one- or two-sided arrows to demonstrate the relationship between concepts
- Label the arrow with a description of how the concepts are related

Concept Mapping

Step Three: Create Relationships

Example: Growth rate is positively correlated with cell size



Questions

- Based on the concept map, can you hypothesize any relationships?
- How are they supported by the data?
- How would you arrange your arguments in support of this hypothesis?

