

## **Observation and Hypothesis**

- 1<sup>st</sup> step: Make an observation
  - Example: Why is there little ground vegetation in this forest?
- 2<sup>nd</sup> step: Create a hypothesis
  - If...then statement
  - Example: <u>If</u> there are tall trees blocking sunlight, <u>then</u> few plants will grow near the ground.



## 3<sup>rd</sup> step: Design an Experiment

Two parts to an experiment:

- 1) Control group
  - Receives no special treatments
  - Used as comparison
  - The "normal" group

## 2) Experimental Group

- Receives the treatment
- Contains the independent variable
- Independent variable = one factor that differs from the control group
- Data collected is called the dependent variable





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