

## 1 | Patterns of Discovery

Importance lies in how *observed* data affects *interpreted* data.

- Two people may see the same thing, but they interpret wildly different results
- Different means and systems of thinking affect data molding and interpretation

Seeing => usually implies both the photochemical reaction and the interpretation thereof, but difference usually not appreciated.

- Process between viewing and interpretation not often appreciated
- People cannot see without interpreting — "*one simply does not soak up an optical pattern and then clamp an interpretation on it.*"

Existence of two perspectives possible (*duh*) even when presented to the same image.

### 1.1 | Interpretation is hard and faulty

- Knowledge of what's illustrated is needed to have illustration be communicated
- Explanation and knowledge affects or induces interpretation
- One could be "blind" to a geometric image if background knowledge not introduced

Seeing: *observation of x ... shaped by prior knowledge of x.*