

So, let's begin with a very easy concept (sarcasm)

## 1 | What is life?

### When is someone dead?

This is hard, so let's instead think about what a child?

Biological Female + Sperm + relative safety + Lot's of Peanut Butter => Child.

But! We know that:

- The person does not consciously go "let's create a liver", for instance
- Instead... She is following **self organization rules**
  - Pieces self organize
  - Put some chemistry into some matter, and it will organize to create a human being
- These **self organization rules**...
  - Does not need to be taught
  - Is innate to system
  - Is on both the micro and macro level
    - \* Micro => Cells functioning
    - \* Macro => Flock of birds

### 1.1 | Self Organization Rules

Simple structures causes intricate, complicated behavior.

See KBhBIO101SelfOrganization, self-organization.

### 1.2 | Types of Biology

- Translational
- Academic
- Textbook
- Education

#### 1.2.1 | Textbook Biology

- Journalized and formalized
- "Sum total of bio knowledge"

### 1.2.2 | **Academic Biology**

- Scientific pursue of information
- Synthesis and discovery of information

### 1.2.3 | **Translational Biology**

- Research with outcome in mine
- Trying to solve "a problem"

### 1.2.4 | **Educational Biology**

- Sharing and communicating biology
- Luke De :heart: Edu Biology
- Like...
  - Convincing people to have vaccines
  - Convincing mask wearing

Think: **how would I share this information**