Kaicong Tang
Art 103 Art as System
Steve Durie
08/31/2020

Reading #1

1. My definition of a system is a set of elements and components collectively work as a whole toward a common purpose or goal. It doesn't have to be any size, shape. It's not an entity.

2. Four systems definition:
   a) Modularity is the components of a system that can rearrange or recombined in used. For example, desktop computer's components can be replaced with better components for better performance. Molecules
   b) Decomposability is the possibility or the point that an object can/cannot decompose or broken down. An example would be papers, toilet papers, tertiary colors.
   c) Emergence is mean arise out or begin to appear due to complex interaction. An example would be the video of "Cymatics", the crystal elements on the surface react to the sound vibration, and form into some visible shapes/pattern. Snow itself.
   d) Chaos theory focus on the study of chaos, an unpredictable behavior. An example may be is climate change, predict the weather, or butterfly effect.

   Class: Exponential change that uncontrolled. Ex: weather pattern, flowing water

3. A tessellation is a surface that covered by a set of patterns with regular shape repeatedly on a plane and never overlaying each other. Sunflower, snake scales, fish scales are the example from nature.

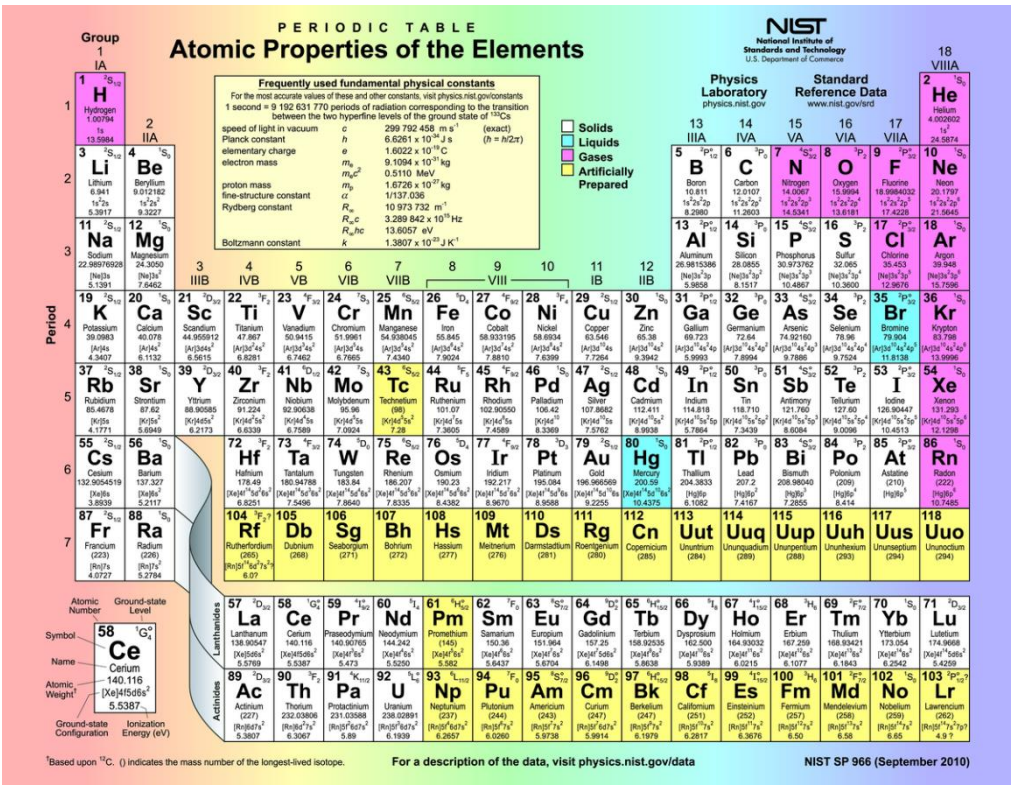
   Class: idea of interlocking, regular shape like triangle, hexagon.

4. Modularity can refer to an object's components, use in physical thing. Tessellation is commonly use for decorative design on a surface plane. In modular system, each modular has a system defined in it, can be separately in use. Tessellation cannot have any gaps between the shapes, the shapes must connect side by side in order to form pattern.

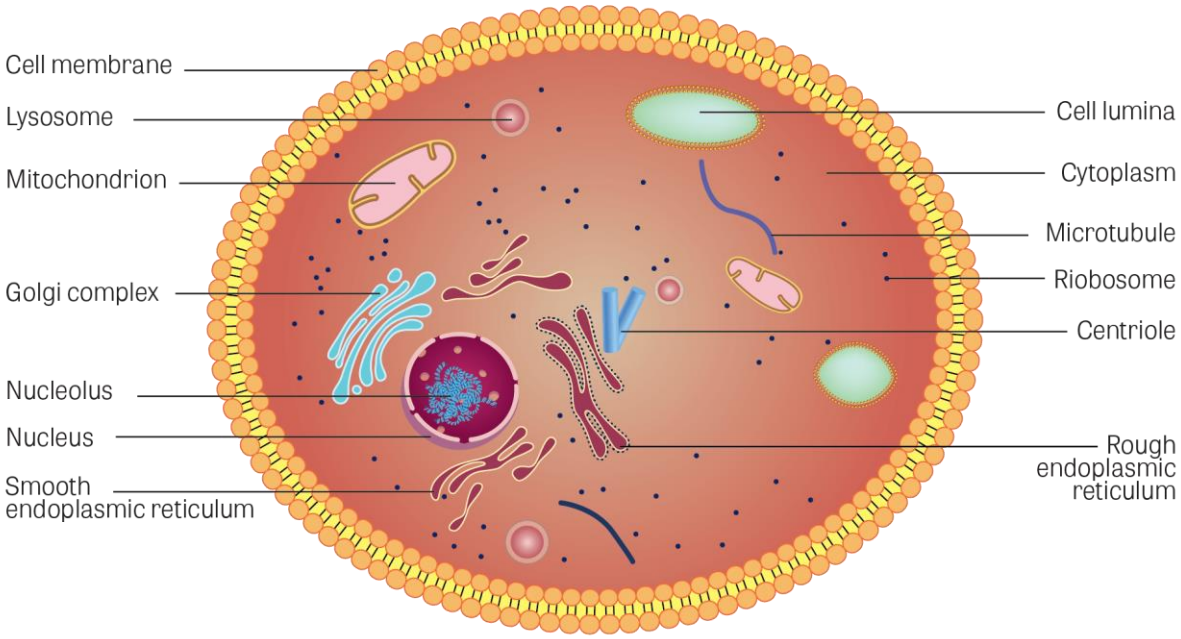
   Class: modularity can be rearrange/replace, allow for flexibility. Tessellation is interlocking on each other, no gaps for replace, the shape a orientate in specific way.

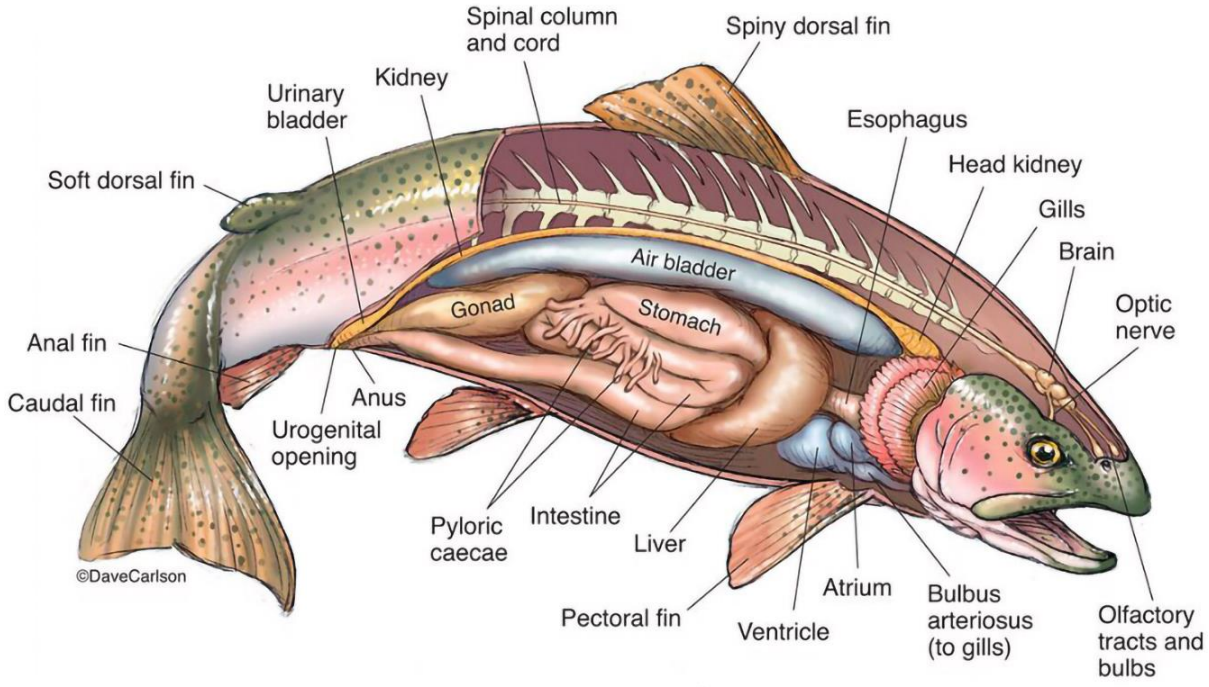
5. Visual design as example, a periodic tessellation that repeated the same over and over times, from a visual aspect it will let the viewers/audiences feel formal, less interesting visually, and less visual appealing. An aperiodic tessellation in other hand, provides more visual interest and appealing due to the irregular or random pattern.

6. Diagrams
   a) 2 system diagrams that have more than 100 elements

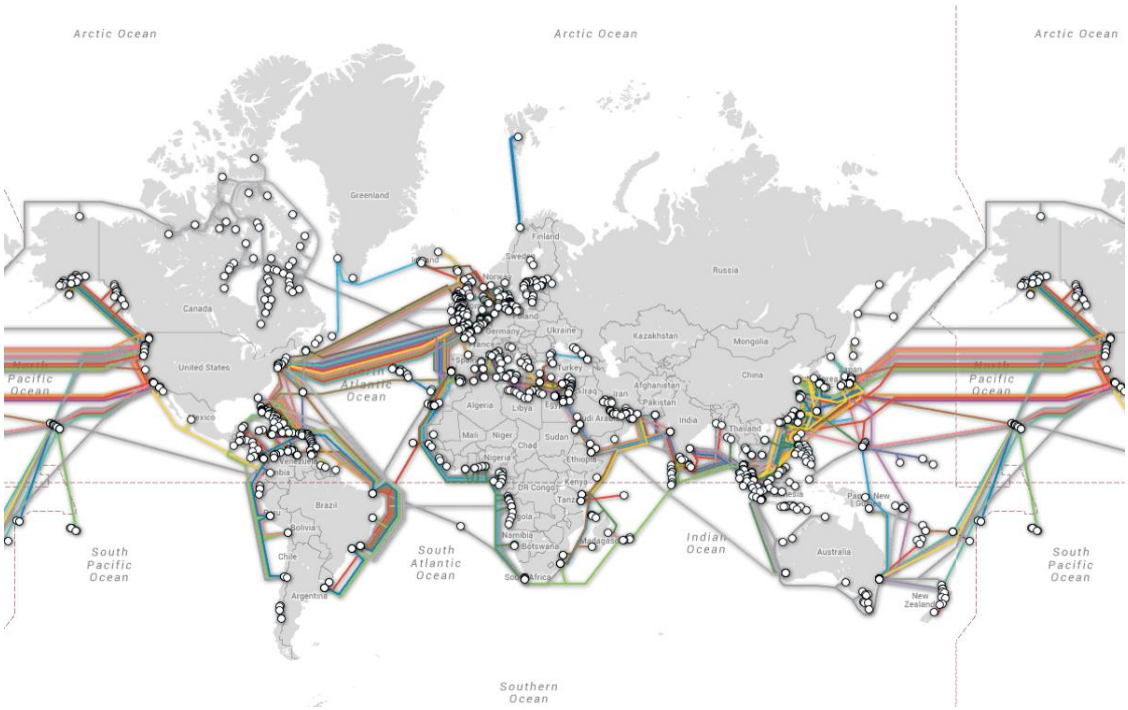


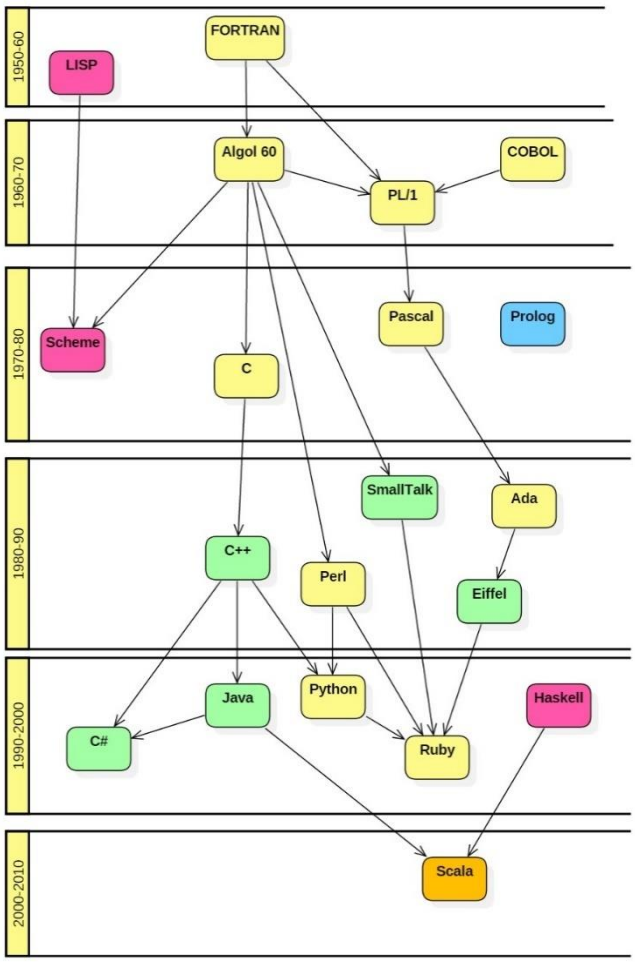
b) 2 system diagrams that is something considered living





c) 2 system diagrams that represent something that is not visible or physical





d) 2 system diagrams that represent a system that incorporates modularity