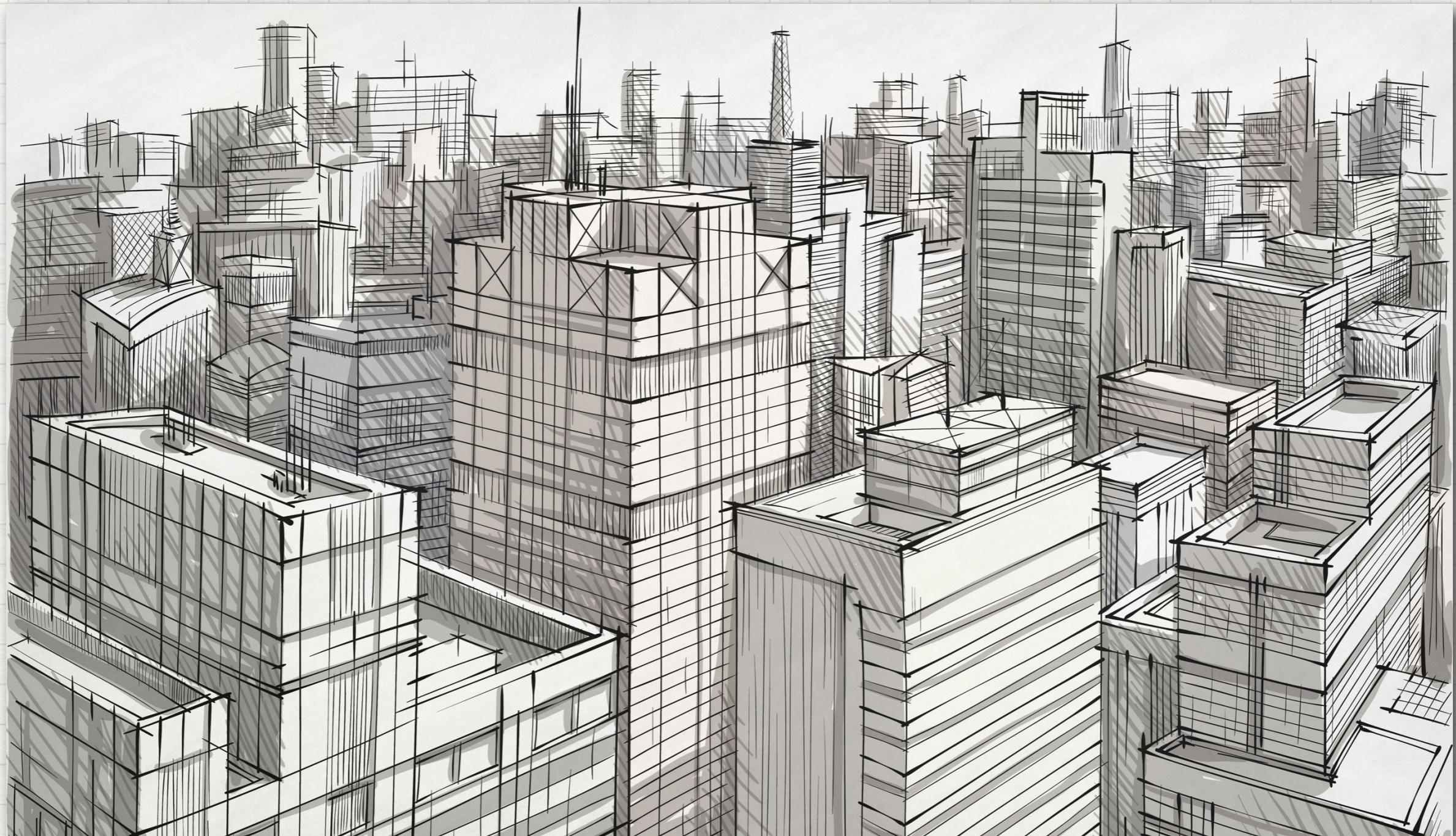


# BUILDING KNOWLEDGE STRUCTURES

## UNDERSTANDING THE ARCHITECTURE OF KNOWLEDGE



## Architecture

Staves off:  
Excessive Sunlight  
Harsh Winds  
Heavy Rain

## Knowledge

Staves off:  
Fear and Confusion

“  
AN OBJECT IS NOT AN  
OBJECT, IT IS A WITNESS TO  
A RELATIONSHIP

— *Cecilia Vicuna*

”

All Knowledge Systems consist of the following:

**Finitely Many Nuclear Objects**

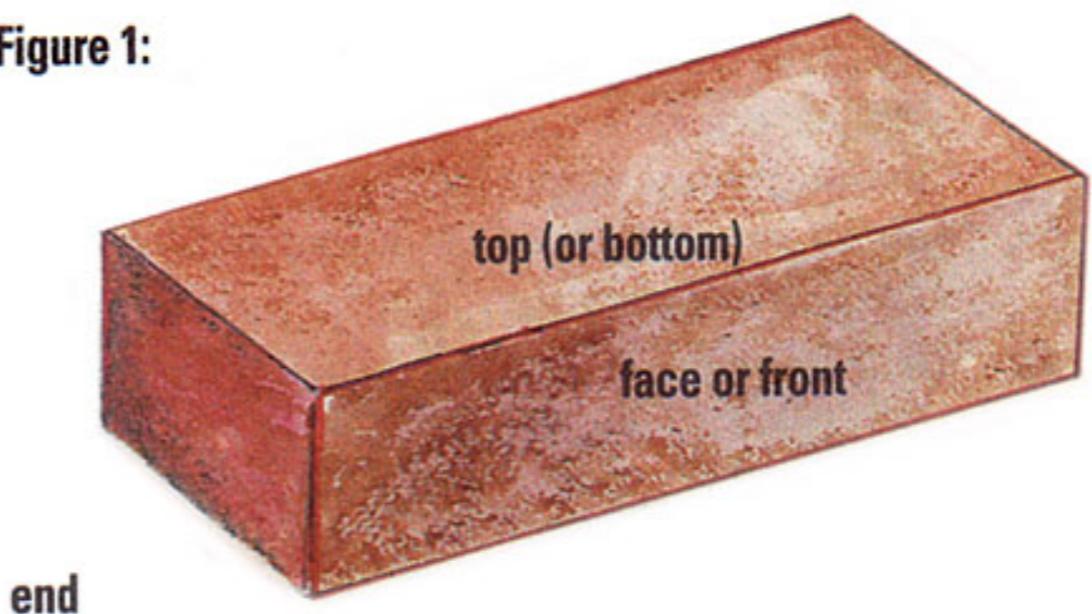
**Finitely Many Relationships** between the Nuclear Objects

**Patterns of Relationships:** Relationships repeated several times

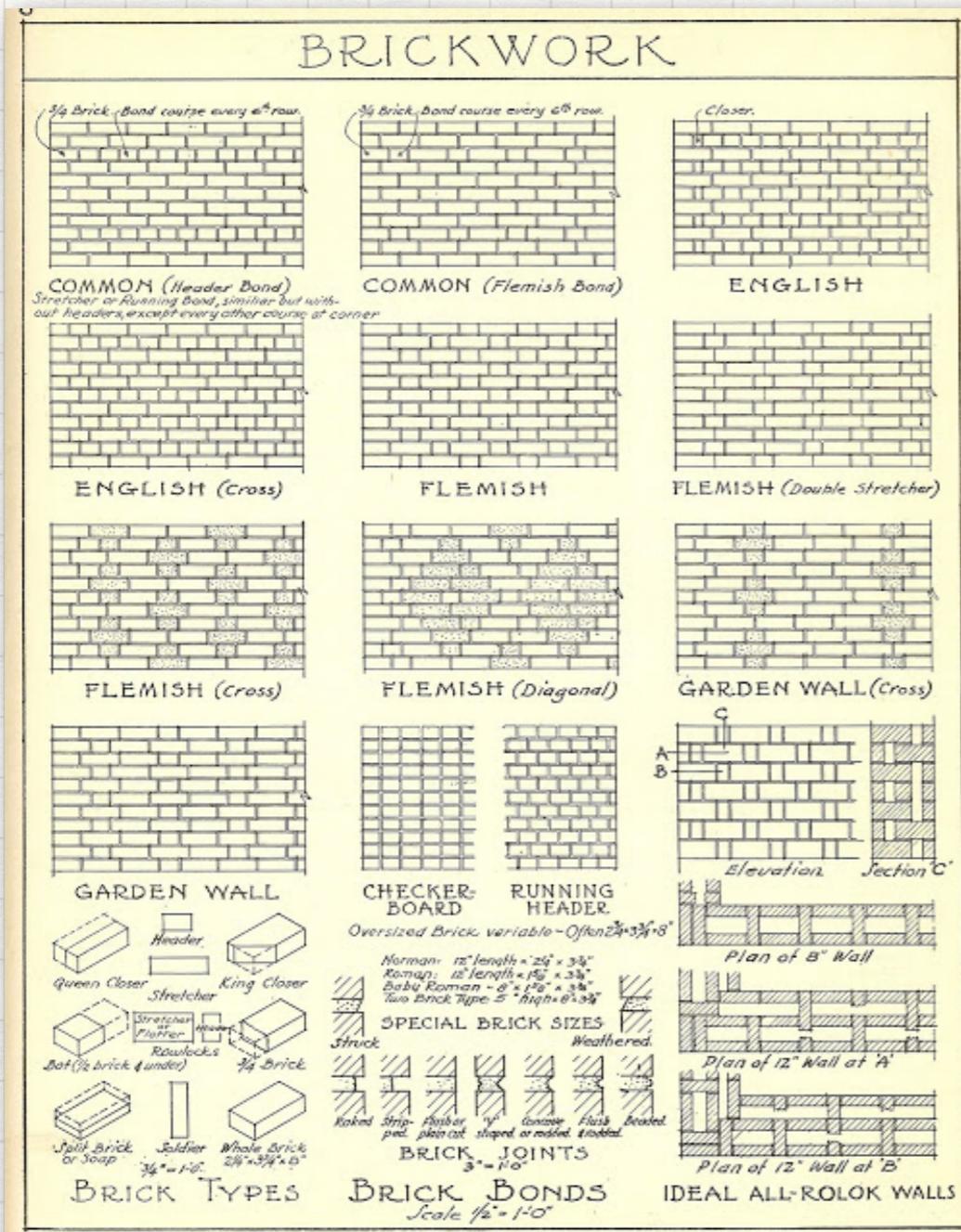
# THE BRICK AS A NUCLEAR OBJECT

- Three types of faces: top/bottom, end and face
- Types of relationships between two bricks:
  - A. End to End
  - B. End to Face
  - C. End to Top
  - D. Face to Face
  - E. Face to Top
  - F. Face to End
  - G. Top to Top

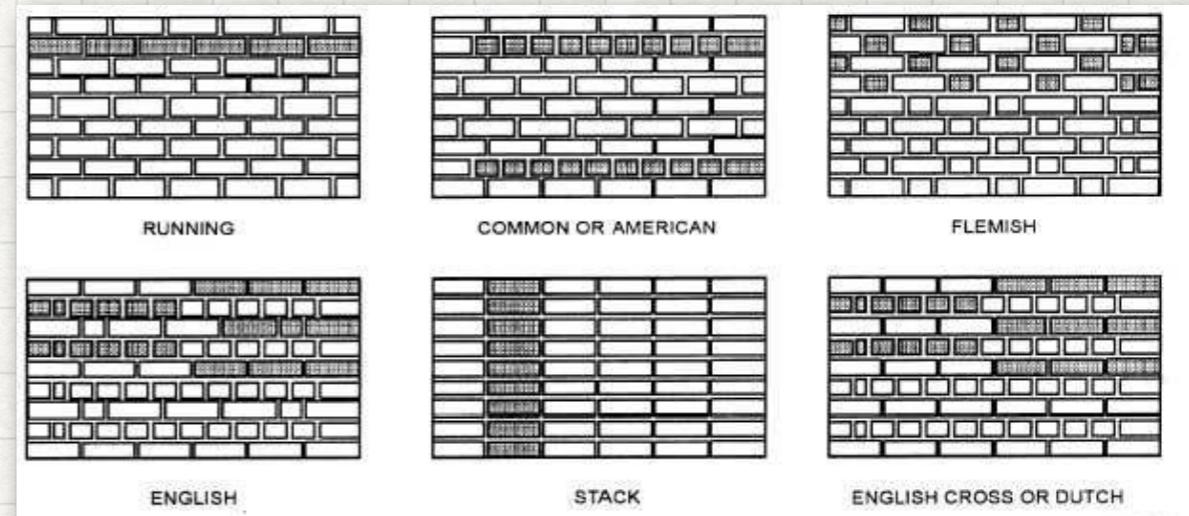
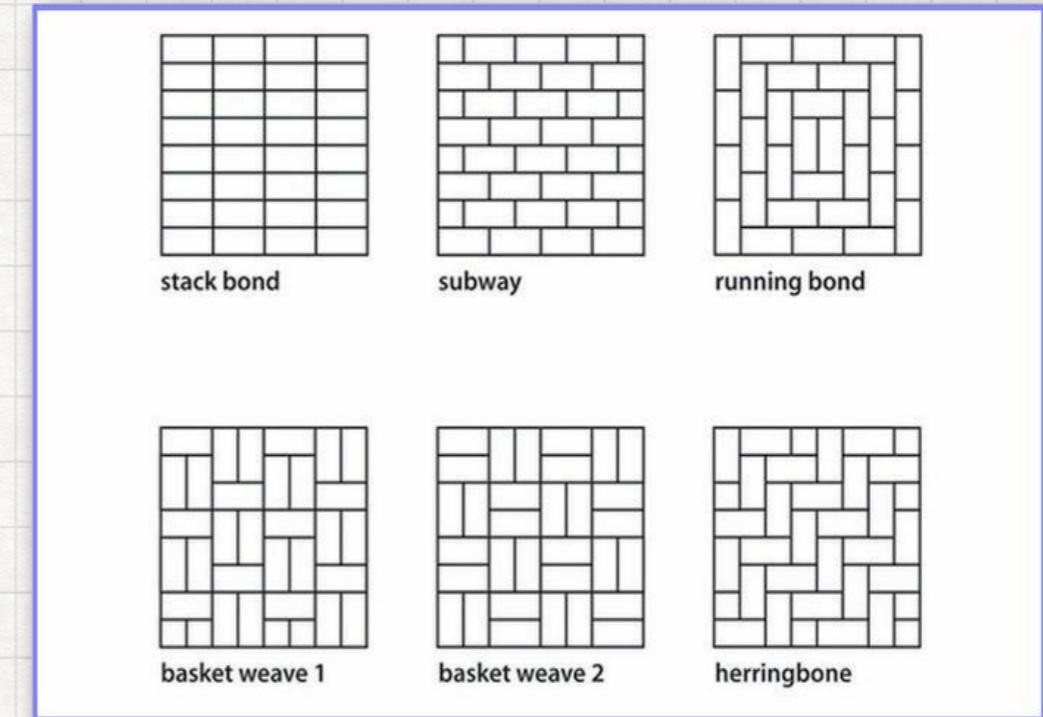
**Figure 1:**

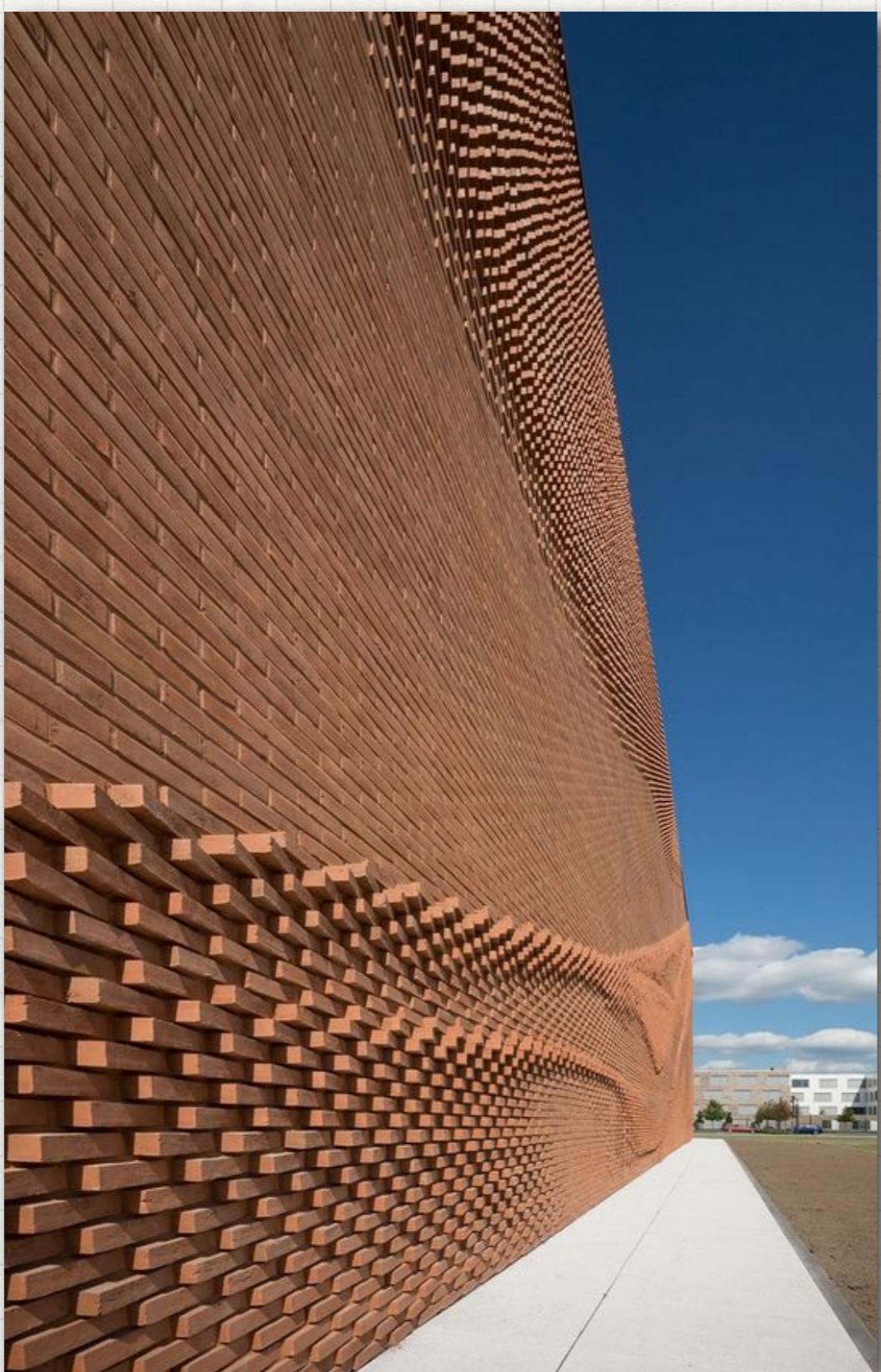


Source: <https://www.motherearthnews.com/diy/diy-bricklaying-zmaz98onzraw>

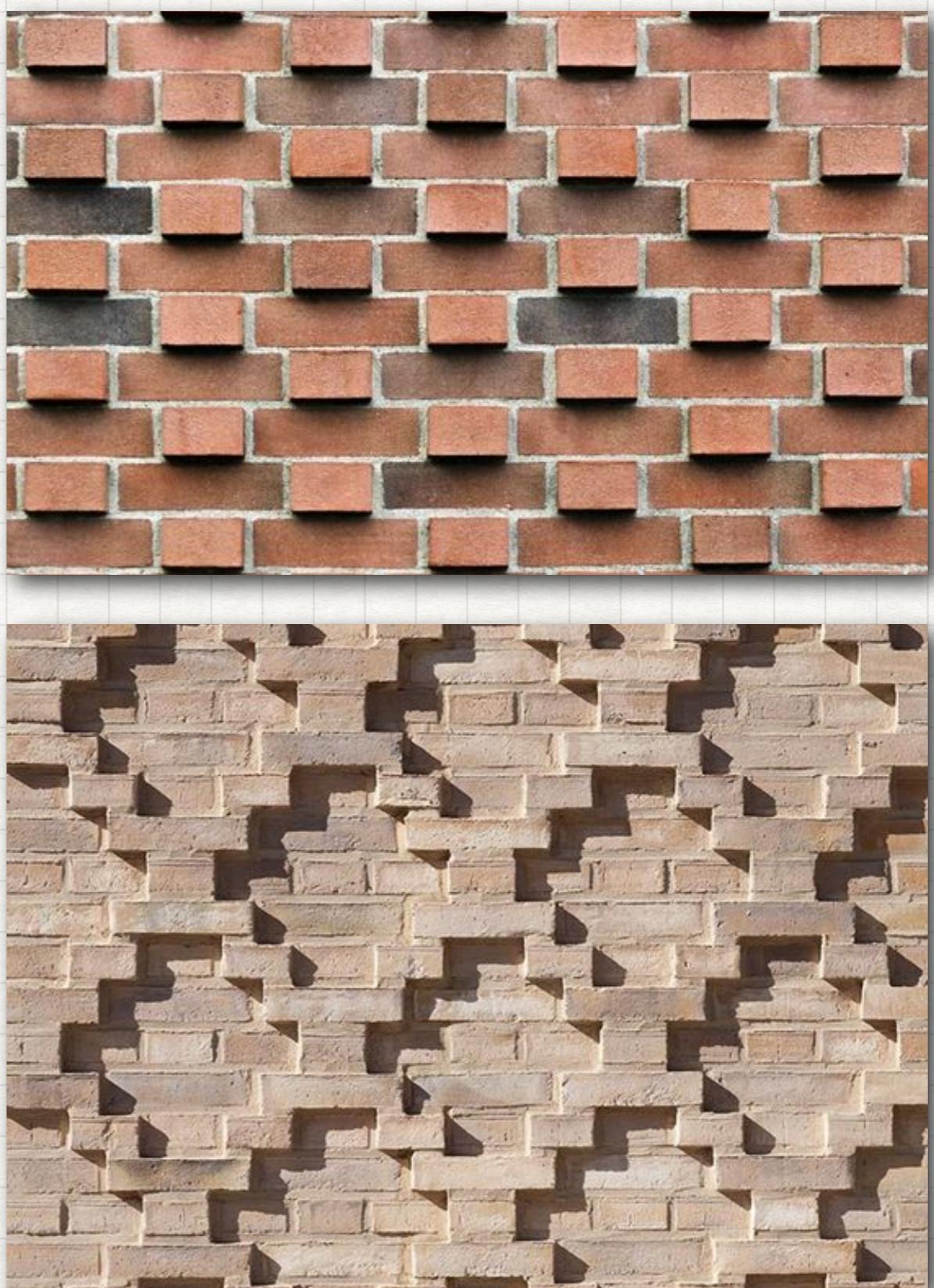


<http://ermillerdesign.blogspot.com/2011/02/im-working-on-new-project-for-gallery.html>





<https://www.designboom.com/architecture/behet-bondzio-lin-architekten-undulating-brick-facade-11-18-2018/>



# THE ARCHITECTURE OF KNOWLEDGE

# THE CORD-19 CORPUS AS A KNOWLEDGE SYSTEM

- **Nuclear Objects:** Concepts
- **Relationships:** Ideas linking two of more concepts.
- **Patterns:** Production Systems based on Relationships

Direct myocardial injury due to viral involvement of cardiomyocytes and the effect of systemic inflammation appear to be the most common mechanisms responsible for cardiac injury

There has been a concern regarding the safety of ACE inhibitors(ACEi) and angiotensin receptor blockers (ARB) during the ongoing COVID-19 pandemic. These agents up-regulate expression of ACE2 in various tissues, including on cardiomyocytes. -Bansal et al.

# SUGGESTIONS ON A SURVEY

- Concepts are represented by words. So the primary challenge is to agree upon the most relevant '**Vocabulary**'. Expert advice is frequently helpful.
- Relationships between concepts are expressed by their presence in the **same Language Unit**. eg. Two concepts mentioned in the same article or the same sentence.
- Possible patterns among relationships have to be inferred using visualisation techniques. eg. Cluster Maps.

