

Architecture design II

Lecturer: Dr. Sardar Swar Zeewar

Design process:

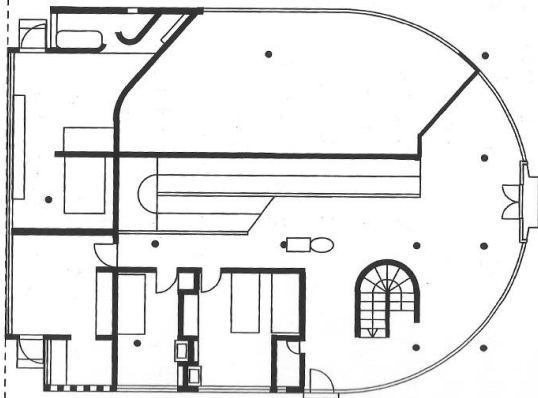
1. Architectural Drawing: The definition of plan, section, elevation, and site plan.
2. Modern architecture and greatest modernist architects: researching the principles of modern architecture and modern houses of architects.
3. House type: studying types of houses such as; detached houses, semi detached, row house, court yard house.
4. Space requirements: name and size of each space as required.
5. Concept phase studies for architectural design.
6. Site analyses: Study site variables, such as (topography, orientation, main roads, paths, Water storm, sewerage, electric...).
7. Sketch drawing: designing a house considering all above requirements.
8. Presentation drawings: final house design.

Modern architecture and greatest modernist architects

Le-Corbusier: Iconic House (Villa Savoy)

The five points of the building:

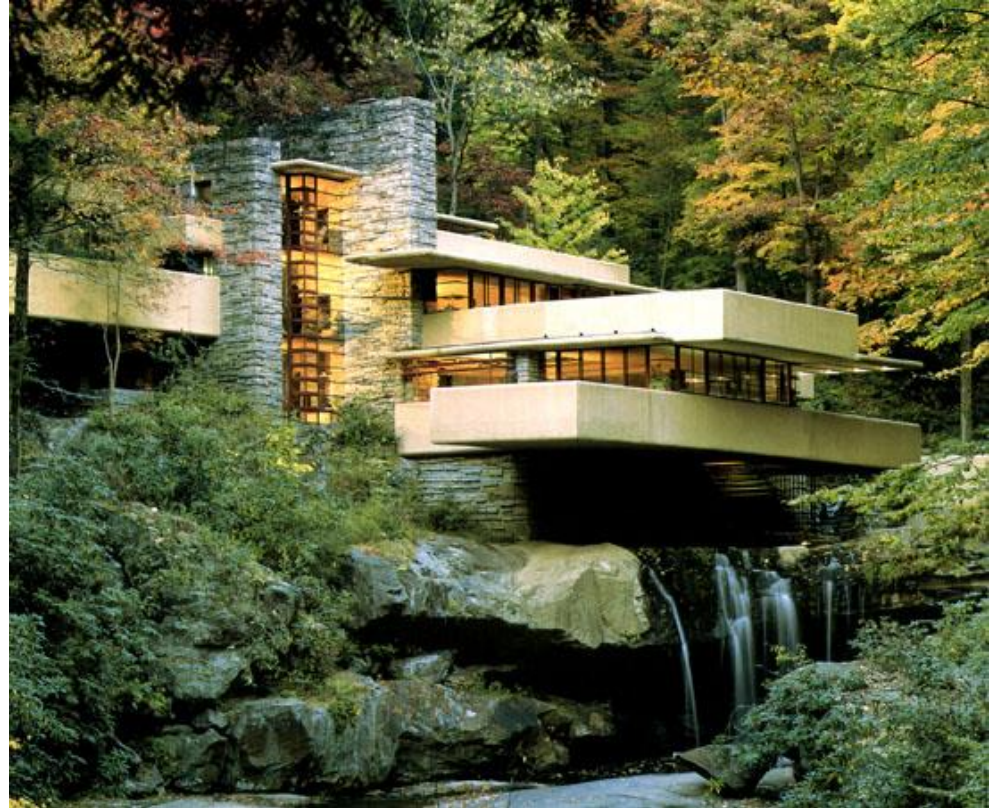
- 1- The use of Pilots
- 2- Free-open plan
- 3- Free design of the facades
- 4- Horizontal Windows
- 5- Roof Garden



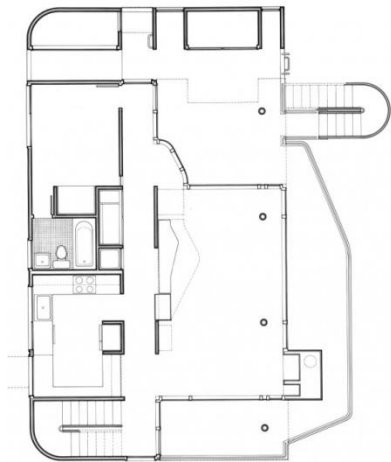
Frank Lloyd Wright: Falling Water house

The principles of the Building:

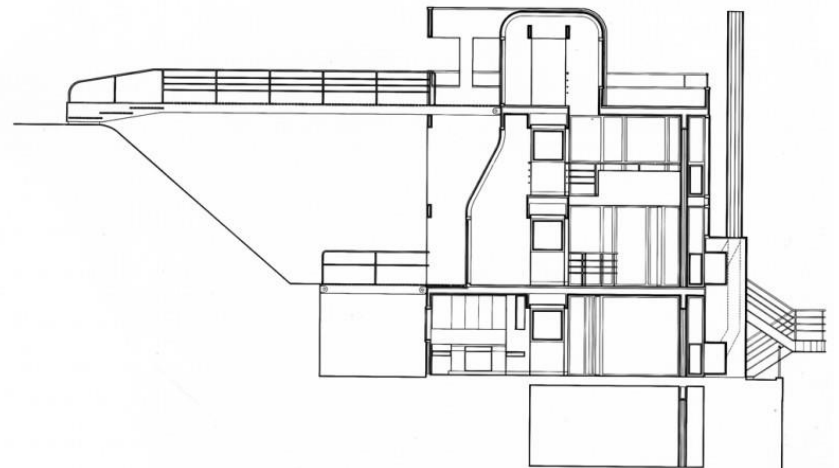
- 1- Organic colors
- 2- Simple geometrical shape
- 3- Integration the building with the nature
- 4- Strong horizontal lines
- 5- Hidden Entries



Richard Meier: Douglas house



LOWER LEVEL



Concept phase studies for architectural design

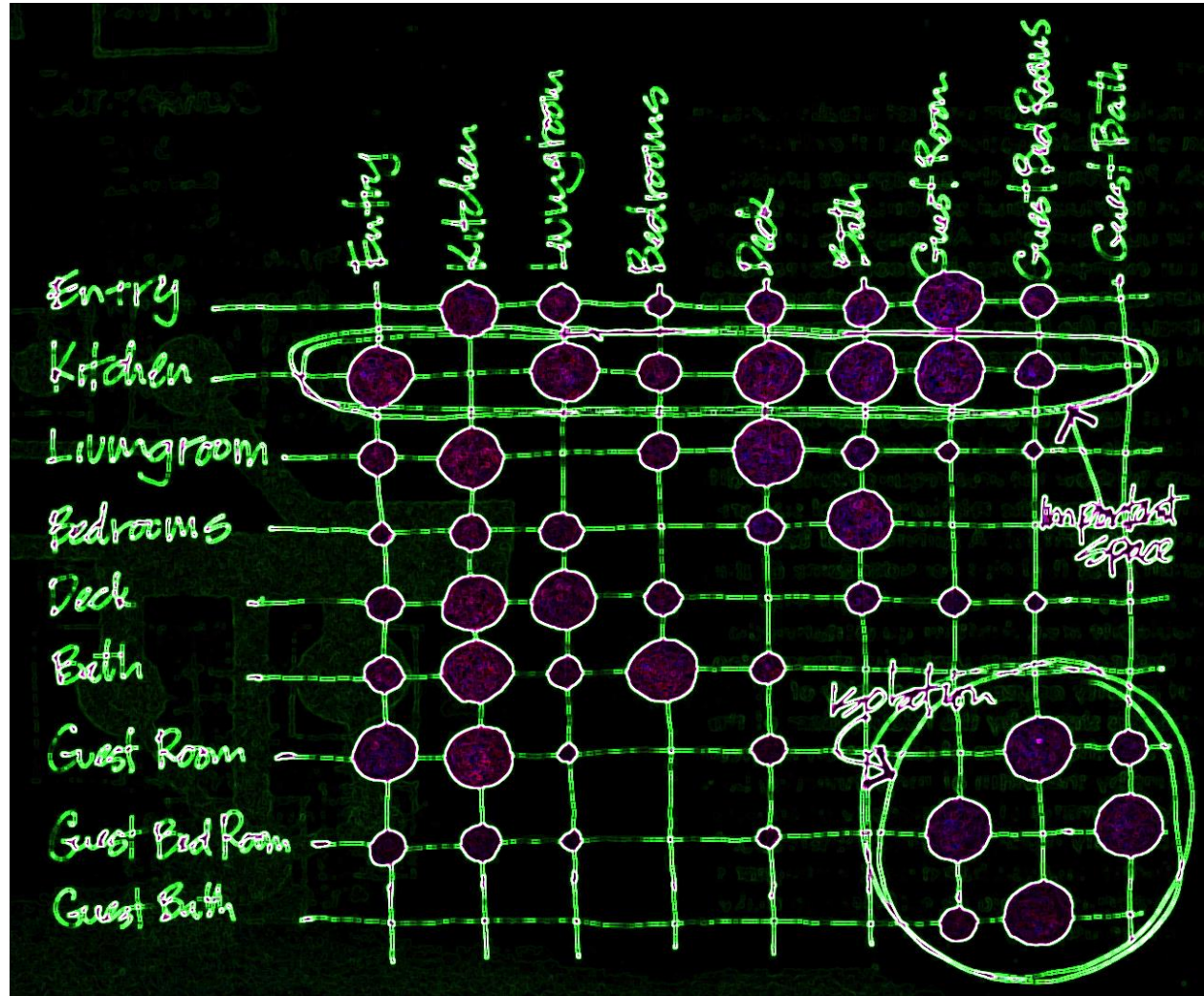
Design tools

The design process begins after the architectural program. The design process goes into a linear progression of steps in which each step elaborates upon previous decisions. The four steps in the architectural design sequence are:

- 1- Relationships Matrix
- 2- Bubble Diagram
- 3- Zoning Diagram
- 4- Site Analysis
- 5- Concept Plans

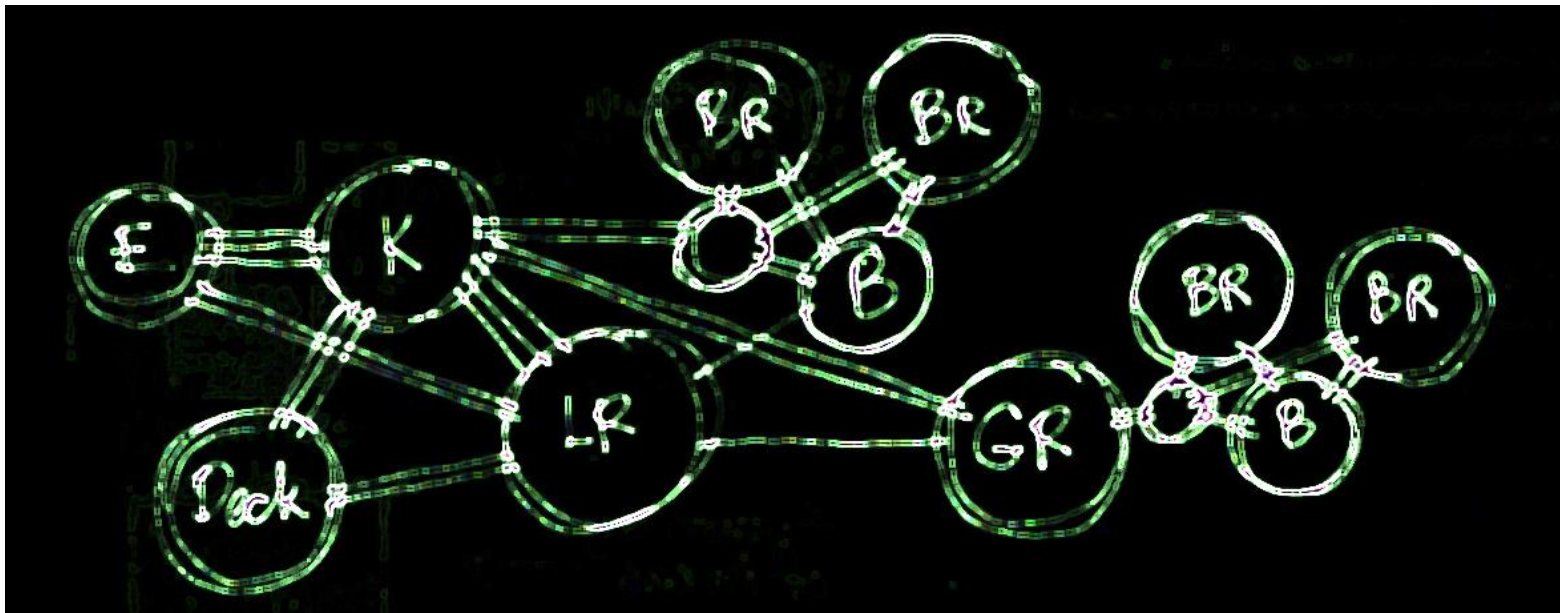
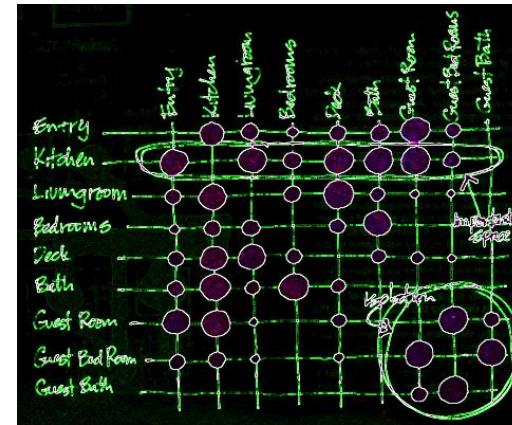
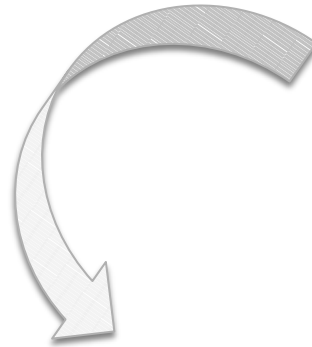
Relationships Matrix

The Relationship Matrix is a design tool that abstracts the building program to conveniently summarize for activities to be housed and their required relationships.



Bubble Diagram

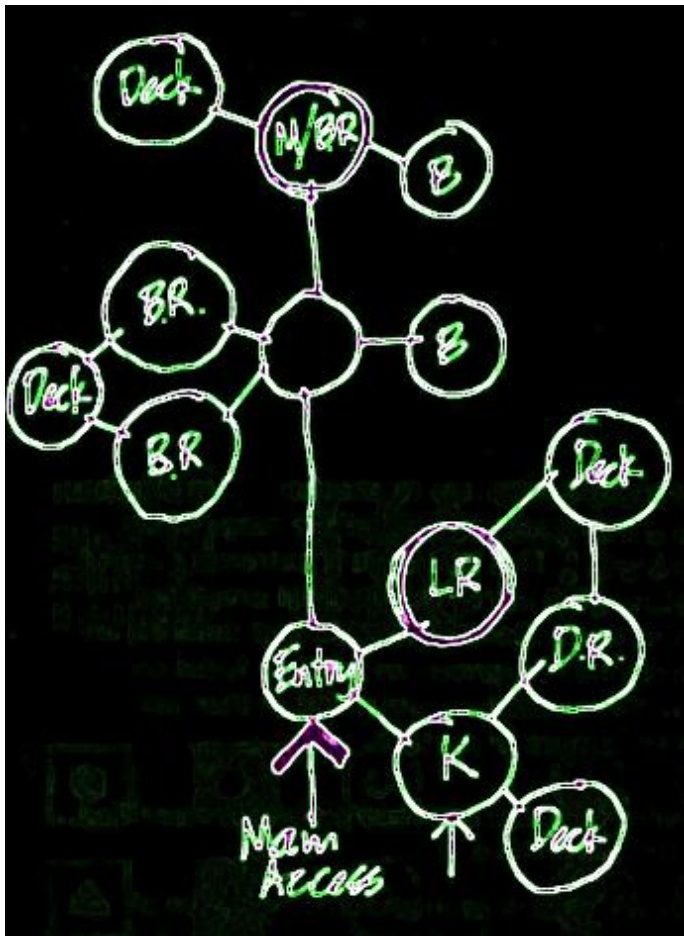
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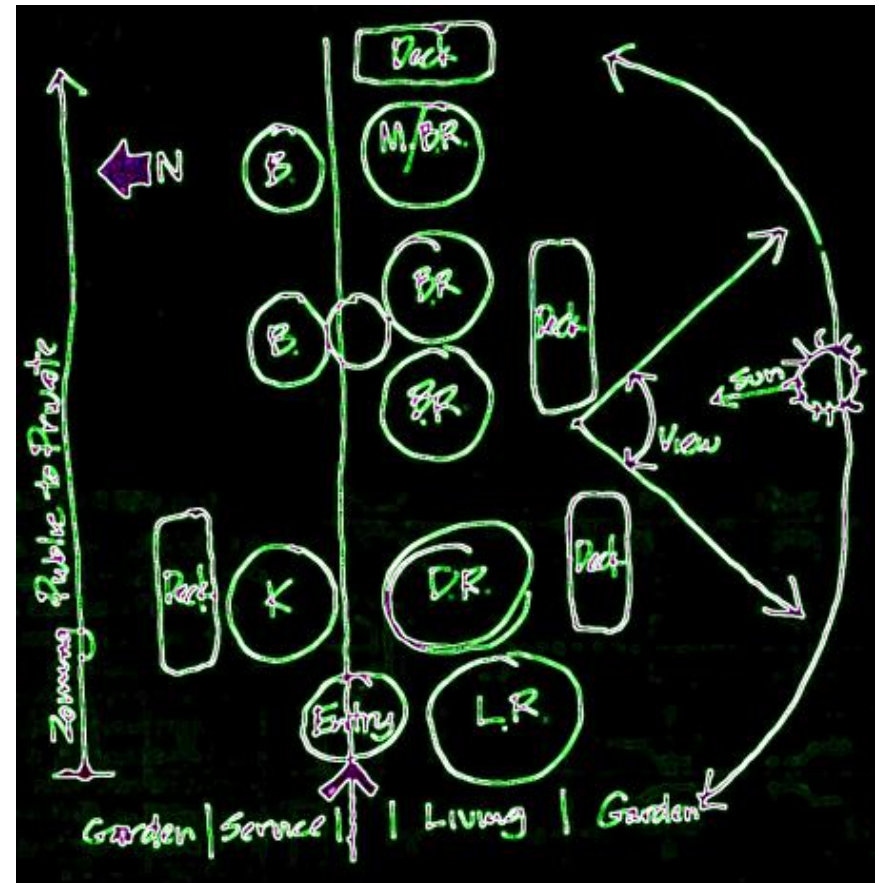
Zoning Diagram

The Zoning Diagram is an abstraction for an early design. The Zoning Diagram corresponds to the site and climate establishing position and orientation of functions with respect to each other and the natural site. Natural light and heat, views, building access, and zoning of functions are also considered.

1



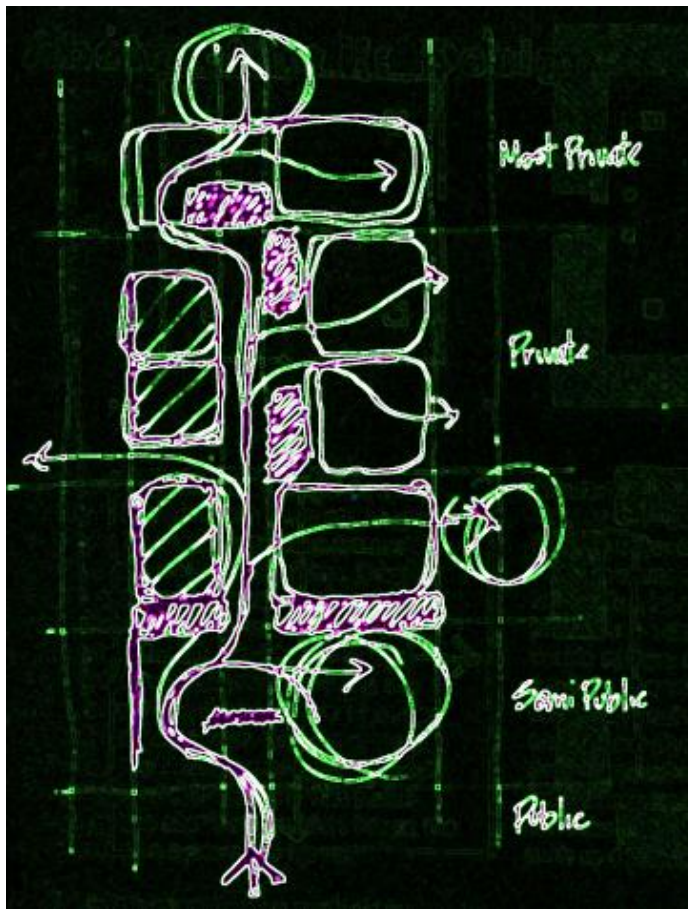
2



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3



4

