

# **Bubble Diagram**

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Bubble diagram / bubble diagramming

a simple diagram of rooms shaped like circles, not necessarily drawn to a specific scale; used by architects for understanding relationships between rooms

(The Architecture Handbook, 2011)



# 1. Collect information

- Do the spaces have specific functions or need to be particular shapes or forms?
- Do the spaces need to be flexible?
- Is it possible to create a sequence of spaces (offices, museums for example)?
- Do the spaces have different requirements in terms of light, ventilation, view, accessibility?
- Do the spaces need to have access to external spaces?
- Must any of the spaces have particular security or privacy?
- Is there any hierarchical requirements of the spaces?
- What relationships must each space have with one another, and the external environment?
- How should the spaces be connected?

# Collect information

- What is the family size and structure
- Location of site
- Number of levels
- Family or individual interests and activities

## 2. Interpret requirements – build the brief

- Insider vs outsider
- Individual vs community
- Invitation vs rejection
- Openness vs enclosure
- Integration vs segregation
- Combination vs dispersion









combination vs. dispersion



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#### **Spatial Relationships**

- How can spaces be related to one another?
- Space within a space
- Interlocking spaces
- Spaces linked by a common space
- Adjacent spaces



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#### Spatial Organisation





Centralised









#### Organizing the space

- You can consider a varying forms of spatial organization, some of which are more naturally suited to particular uses than others:
- Centralized organization
- Linear organization
- Radial organization
- Clustered organization
- Grid organization

### Developing circulation

How people move around the building from room to room is just as important as the destination.

When developing a circulation structure we can look at a few basic principles.

How efficient is the circulation in getting from point A to point B

Is the circulation discrete?

What is the fluidity of the circulation? Is there a smooth flowing route or a more direct route?

Does the circulation route clash with furnishing requirements?





### • Create the solution









F10 House – bubble diagram of the second floor plan



F10 House – schematic design drawing of the second floor plan



F10 House – construction drawing of the second floor plan











F10 House – schematic design drawing of the first floor plan





**First Floor** 

**Ground Floor** 





# **Review and revise**

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- <u>https://www.firstinarchitecture.co.uk/space-planning-basics/</u>
- <a href="http://www.the-house-plans-guide.com/draw-house-plans-indoor-spaces.html">http://www.the-house-plans-guide.com/draw-house-plans-indoor-spaces.html</a>
- (Chicago Architecture Foundation, 2011), <u>https://discoverdesign.org/sites/default/files/2018-08/CAC\_Bubble\_Diagrams.pdf</u>
- www.study.com/academy
- <u>www.conceptdraw.com</u>
- www.homedesigndirectory.com.au

