

# How to make a comfortable life in a small house

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## 1. Introduction

In recent years, due to overcoming in areas, then site area of houses is becoming narrower. I choose this theme because I thought it is important to think of a house where people can live comfortably even if they are small, because the house is the basic place where people live.

## 2. Methodology

• Research method:  
engineering classes at University of Cambridge  
exchange of e-mail with Dr. Joshua  
(department of engineering)

• Research question/ My hypothesis:

- ① A device to make lighting and ventilation more efficient. /Use a big window. Make a courtyard.
- ② A device that makes the space feel wider. /Make a colonnade. Increase the number of floors.
- ③ About protection of privacy./ Cover the house with then outer wall.

These are my hypothesis, but if you cover then house with an outer wall to protect privacy, you will feel a sense of pressure and rather narrow. On the other hand, privacy is a concern when using large windows to prioritize lighting and ventilation.

## 3. Result

### ① About lighting and ventilation

- Put a window higher than the line of sight.
- Put the courtyard.

It also leads to protecting privacy, but because the living space becomes narrow, it is important to design with the efficient flow line.



(rehome-navi.com)

The example of a narrow house▶

Skip floor▶

◀ Ceiling window



(<https://www.mokkotsu.com.jp>)



### ② A device that makes the space feel wider

- Use the illusion.

For example, skip floor, removing the wall and atrium.

Eliminating the corridor eliminates wasted space and creates an efficient flow line.

### ③ About the protection of privacy

- Use lattice and some plants instead to block gaze from outside. Putting an outer wall, we feel obstructed and narrower

## 6. Discussion

I wonder that in the narrow house, the idea what makes residential space narrower such as the courtyard and the atrium is really effective, but there are more merits than I imagined to live comfortably in a small house. In addition, I could only think about covering privacy with a wall, but I think that using plants can not only block the line of sight from the outside but also feel nature, so I thought it is very good.

## 5. Conclusion

In the recent days when the number of small houses is increasing, further improvement of the living environment is required. People are said to spend 40 percent of there lives at home, so thinking about the home also leads to thinking about their own life. I want to work related to architecture in the future. This time I studied about urban housing, but now I want to think about the living environment in another place such as the ISS for astronauts to live in .

## 6. Acknowledgements

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## 7. Reference

小さくても居心地のいい家を作る 152 のコツ(主婦の友社)  
狭小住宅における室内空間の広がりや吹き抜けとの関係についての研究ー可視連結数を用いた空間の視覚的繋がりに関する検討  
(我謝和征、鈴木広隆、池川和臣/大阪市立大学大学院工学研究科都市系専攻)