

FISH HOUSE IN SINGAPORE

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FCS₃₄₀
Precedent study
4/17/12
YO SATAKE

2 story bungalow with basement area

PURPOSE

- Purpose of precedent study is to have a research and understand the work of your precedent study and then apply it to your later design work.



SITE OVERVIEW

- This bungalow is located in *Sentosa, Singapore*, surrounded by rich amount of greens.
- 540 sqm.
- The opened structure is facing to the beach, it allows natural ventilation to the entire building.
- 1-2 minutes away from the beach by walking.



Project year : 2009

SINGAPORE

- Singapore is very diverse society. People who live there were immigrated from Malaysia, China, India..etc
- Many kind of religions, four official languages(Mandarin, Malay, Tamil and English).
- Foods are varies, depends on the cultural background. (Malay, Indonesian, Indian..sometimes mix of those cultural food)
- Climate is tropical rainforest climate, hot and humid, temperature range from 20°C (68°F) to 30°C (86°F) all year around.
 - Nov. and Dec. is the rain season. In other seasons, still get rains often.



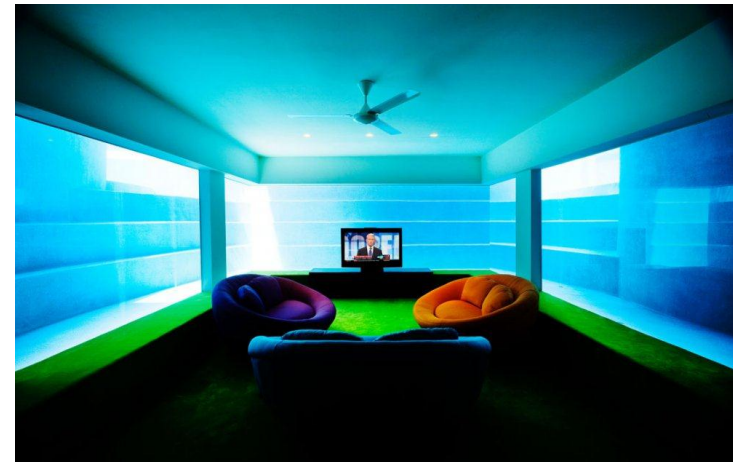
YES!!! Western cultures are practiced!

CONCEPT

- Creating close relationship with nature and this is achieved by the existence of swimming-pool linking the house to the surrounded landscape and visual connection to the sea.
- The idea of connection is reinforced by having the media room in basement with acrylic windows that allows diffuse natural light in through the pool.
- Curved roof is symbolizing the sea waves.



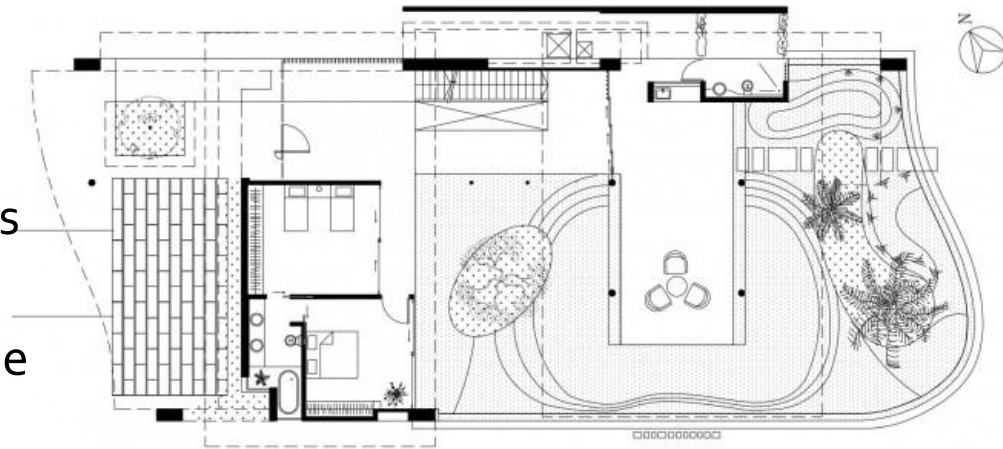
Front part of the bungalow



Little basement area

DESIGN SOLUTION

- Gross floor area : 540 sqm/
Area : 726 sqm
- Located in *Sentosa, Singapore.*
- Down Stair
 - Living room beside the swimming-pool and trees, It is facing to the beach.
 - A master bedroom and double twin bedroom (kids room?).



Down stair floor plan

DOWN STAIR PIC.1

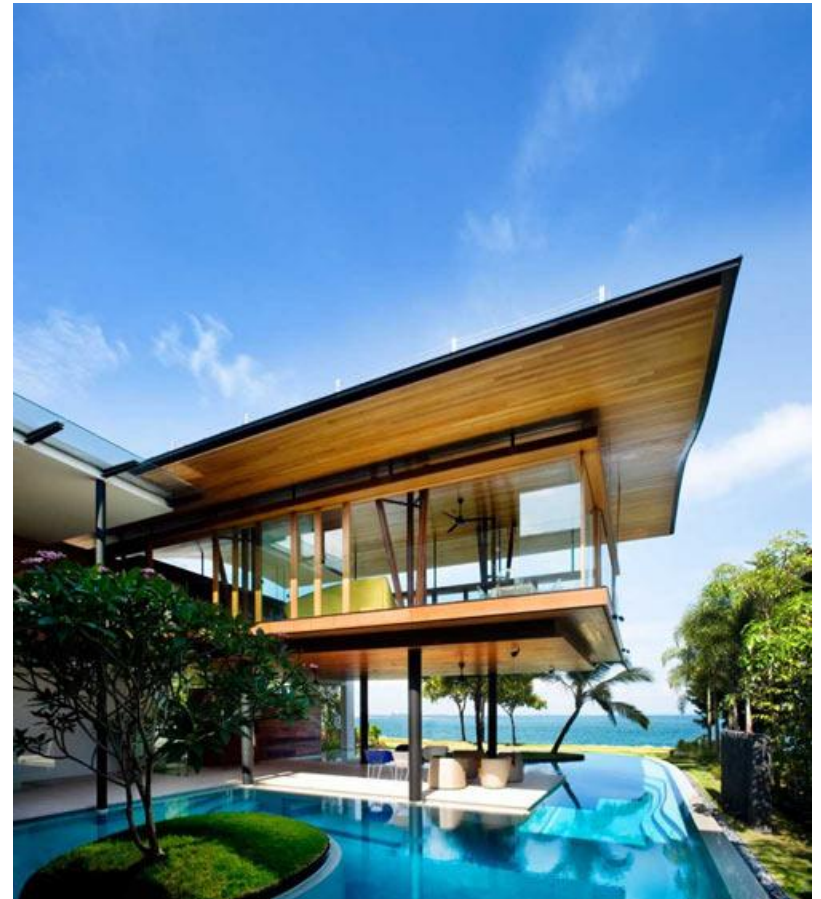


Living spaces beside the swimming-pool



Bedroom facing swimming-pool

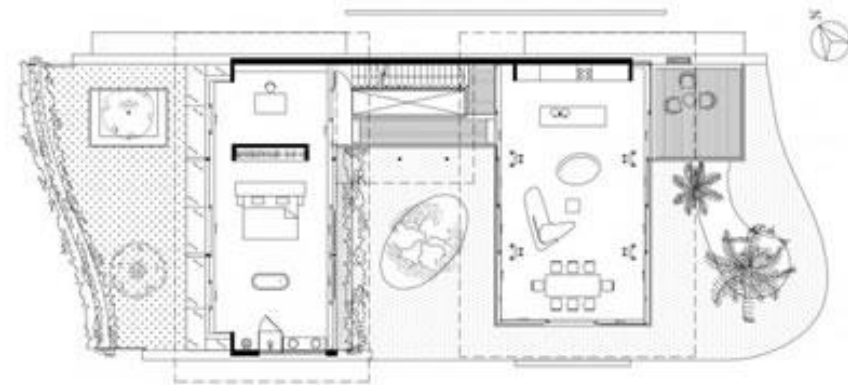
DOWN STAIR PIC.2



View of swimming-pool and living space

UP STAIR

- One master bedroom. Sufficient size of glass windows preserving the view of the sea and allows enough natural light come in through.
- Kitchen space with dinning area.
 - Sufficient size of dinning table with 8 seats.
 - Simple and opened area.



Up stair floor plan

UP STAIR PIC.1



Kitchen and dinning area

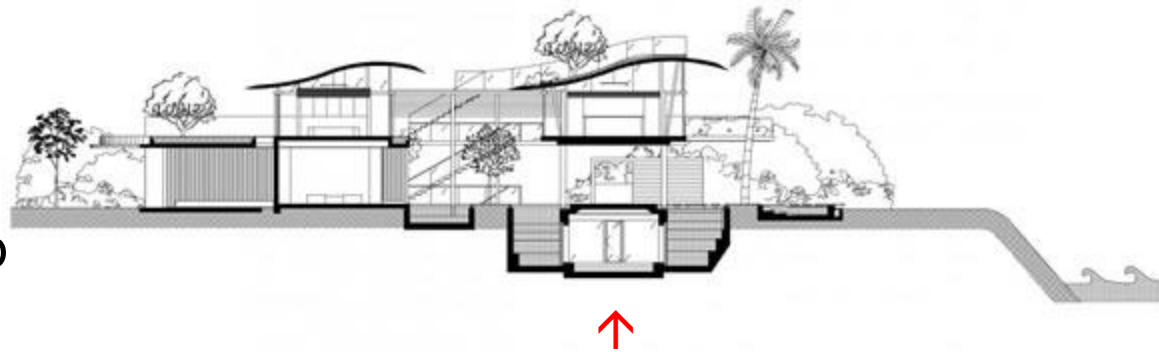
UP STAIR PIC. 2



Master bedroom

BASEMENT

- Media room in a underground space. The reflection of light come through the swimming-pool provoking calm and cool feeling. It also helps media room to cool down easily.

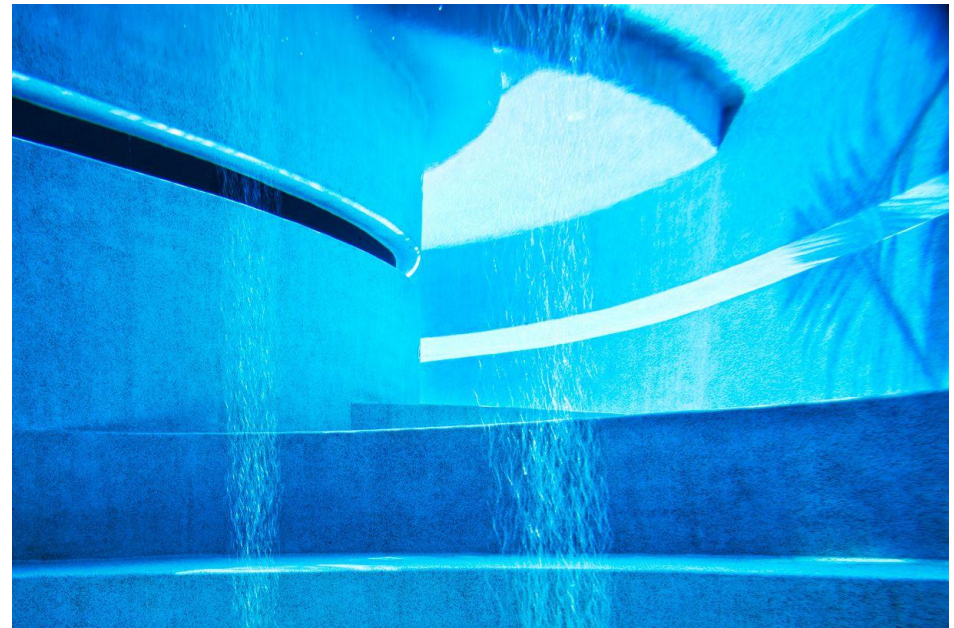


Building elevation

BASEMENT PIC.1



Media room



Aeration system in the pool

SUSTAINABLE MATERIALS

- Interior
 - Natural wood is fully utilized.



Up stair ceiling and columns in wood.



Down stair ceiling and stairs in wood.

SUSTAINABLE MATERIALS

- The curved roofs are covered with thin bendable photovoltaic panels which is capable of supplying enough energy to the whole building.
- The grass on top of the roof serves as heat absorption.



Angled view of the roof.

- The openness of the structure and the building surrounded by the rich amount of greens allows the building to cool down. The combination of solar energy and natural sources keeps the building very efficient and eco-friendly.



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