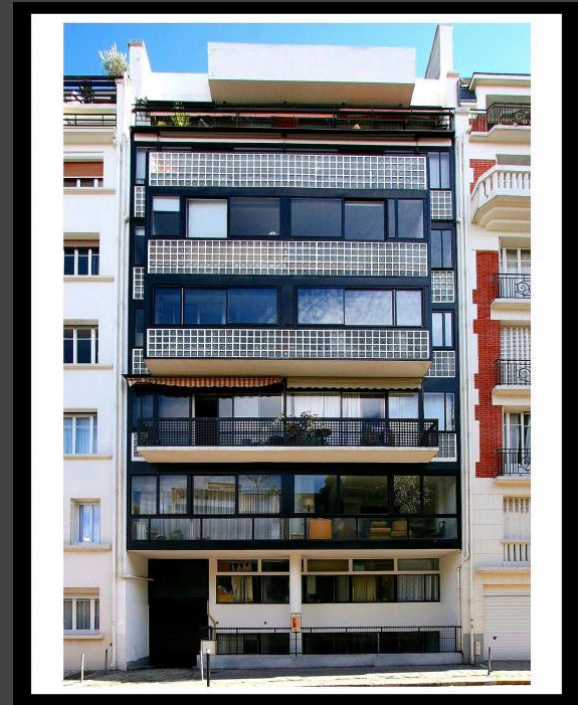


Porte Molitor



http://www.archiref.com/sites/all/files/archiref/imagecache/image_archiref_700/images_archiref/408/804332998662a82e31571366104314.jpg

Heather Friedel, Amanda Reyes-Martin, Shaina Coulter, Alan Phelps

Arch 125- Environmental Design: Residential Case Study
February 4, 2015

Porte Molitor Overview

1931

Paris

48.8°N, 2.25°E

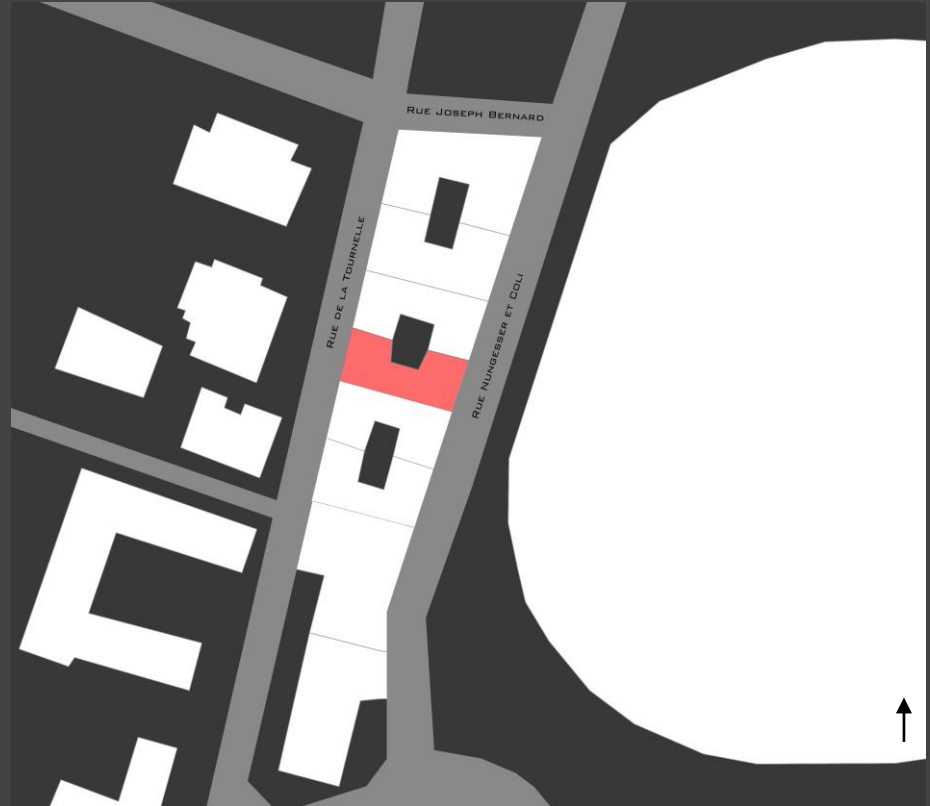
Lot size: 13X27m

Architect: le Corbusier

Party wall housing

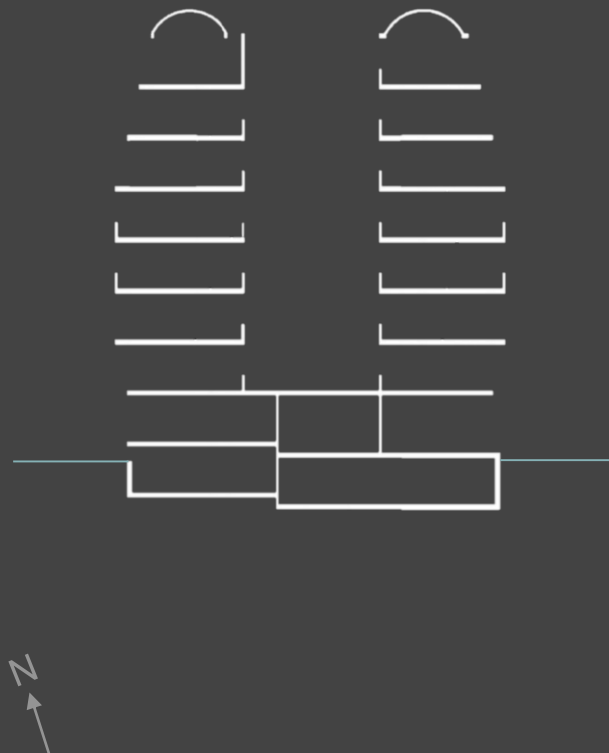
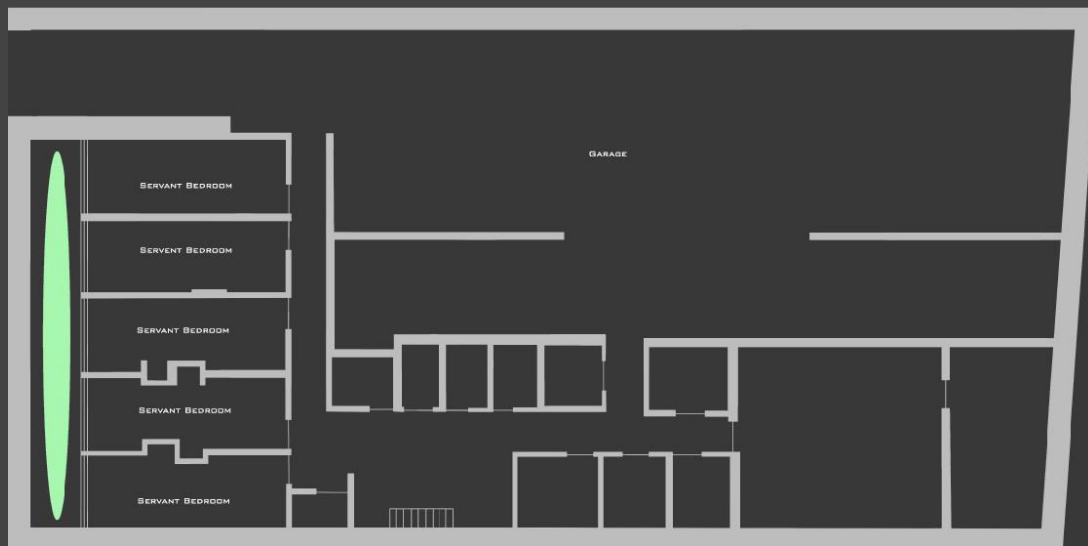
East and west sides face large streets

Lightwells on north and south



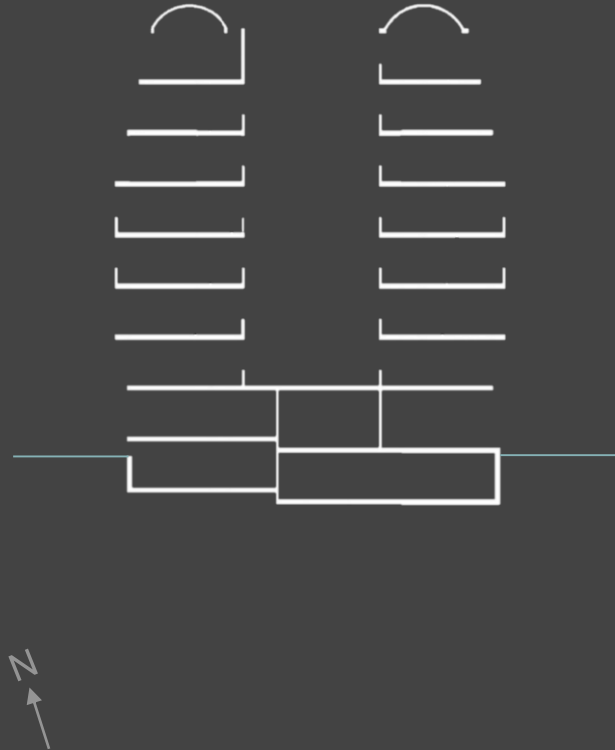
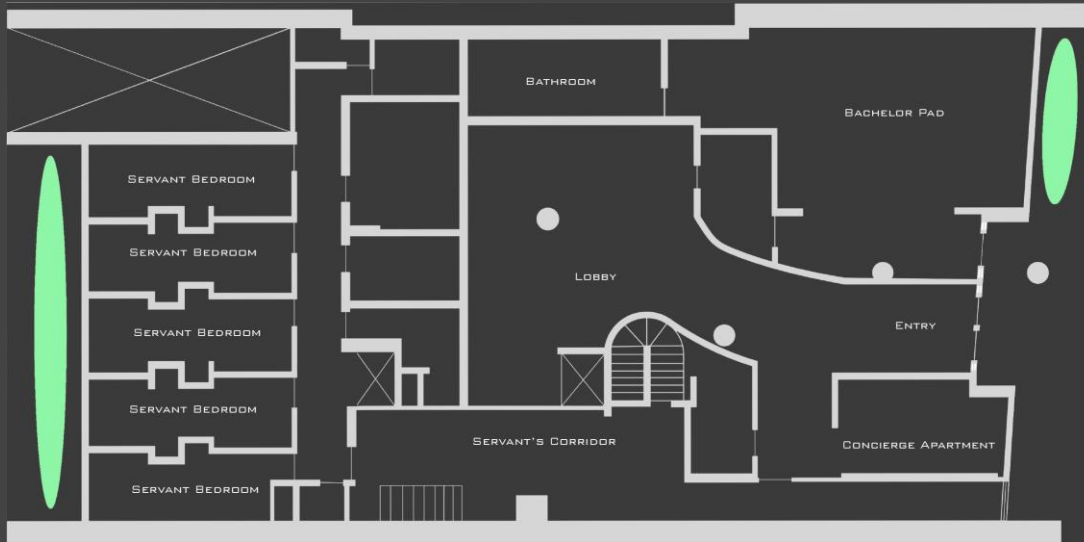
Porte Molitor Organization

Underground: five servants' chambers and car parking



Porte Molitor Organization

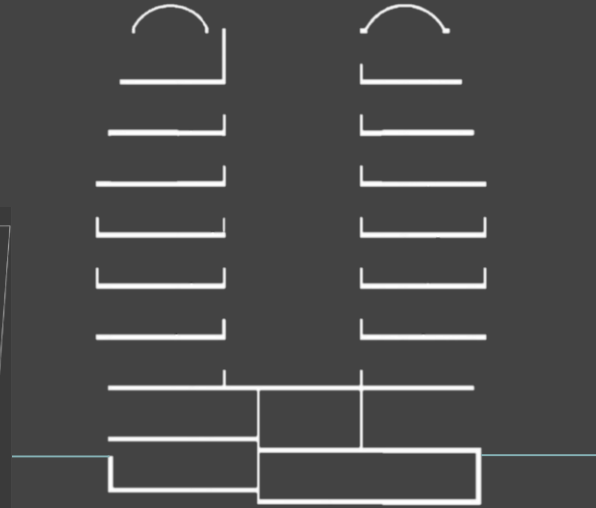
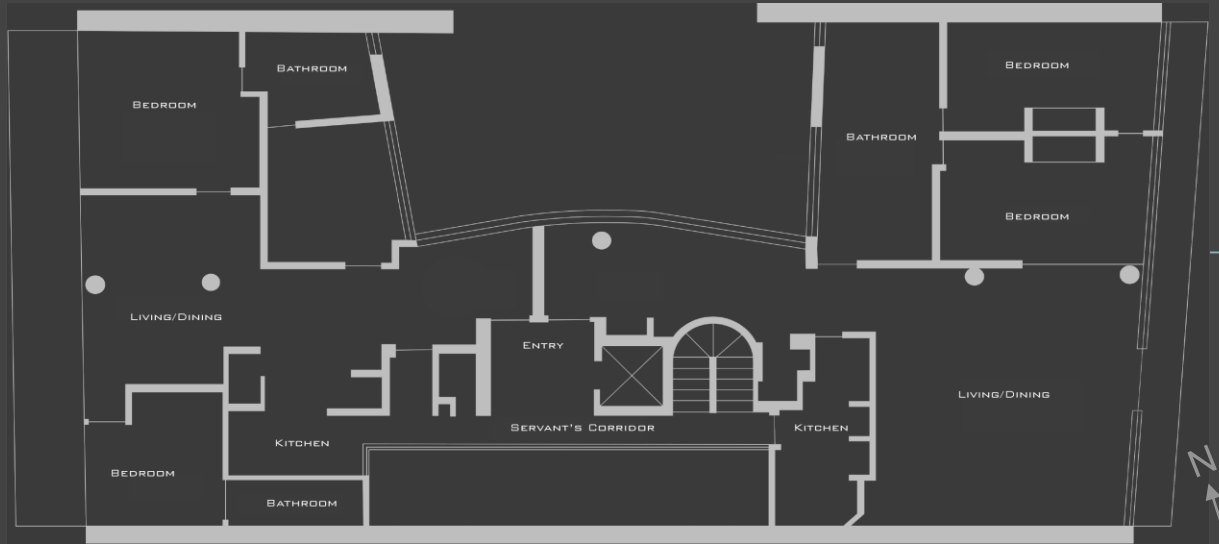
Lobby level: concierge apartment, bachelor's apartment, five more servants' chambers



Porte Molitor Organization

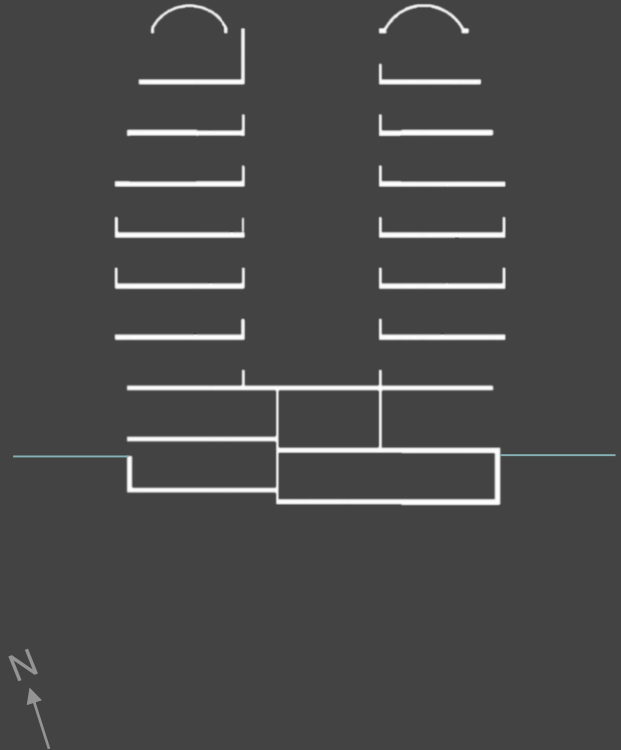
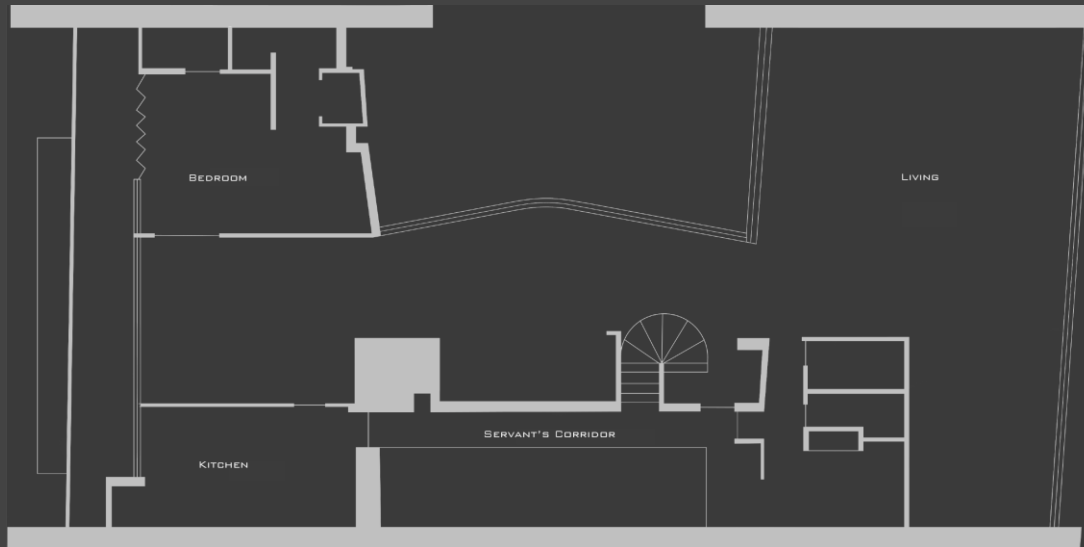
Levels 2, 4, 5: Three units

Levels 3, 6, 7: Two units



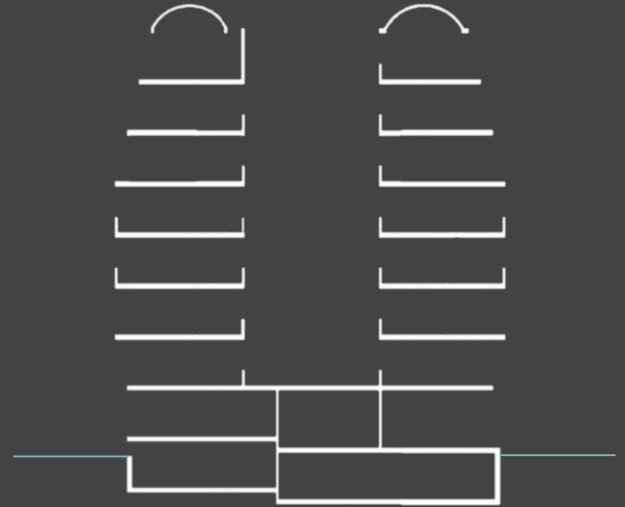
Porte Molitor Organization

Level 8 and roof garden: Le Corbusier's studio and residence,
guest residence



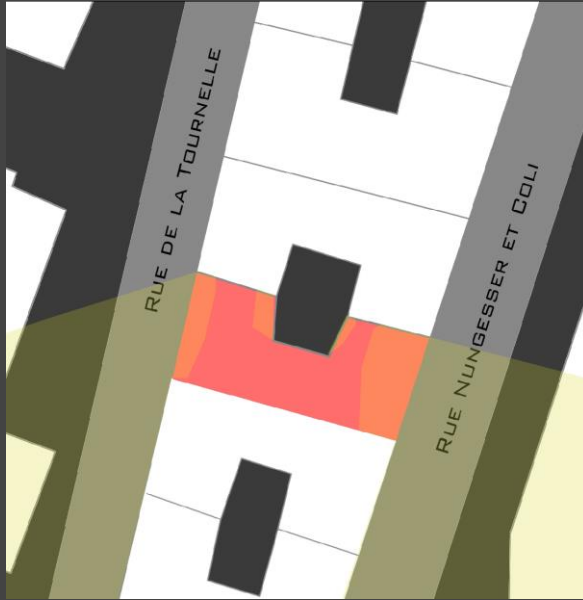
Porte Molitor Organization

Total: Ten servants' chambers + 17 residences

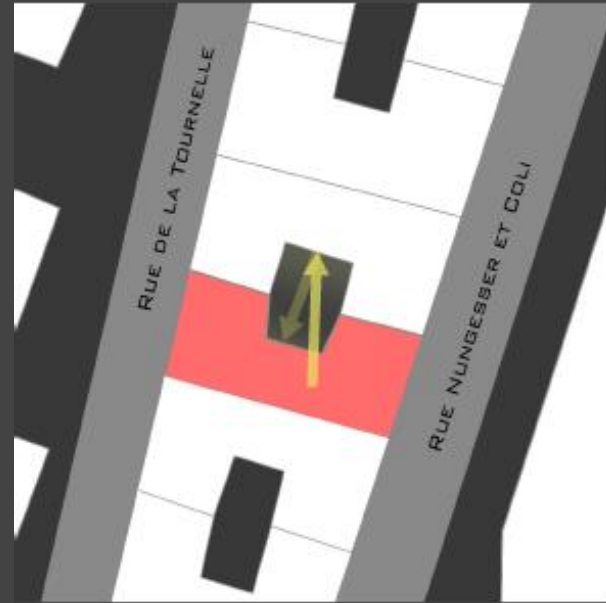


Light

Site scale



Little direct light



Courtyard aggregation

Light

Building scale



Excavated courtyard



Lightwells

in entry, bath and service areas

Light

Room scale



Bright Surfaces

Reflect light



Glass blocks

Diffuse light

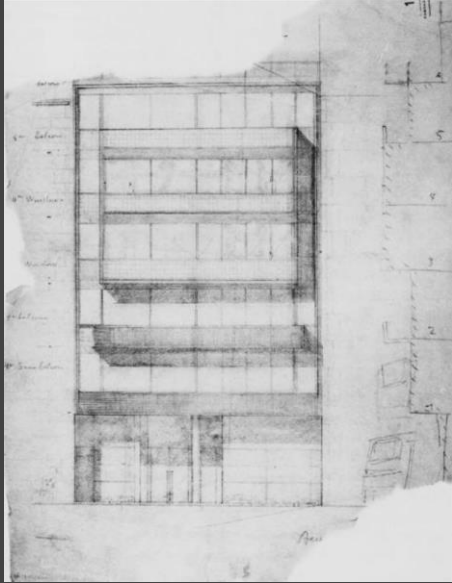
Maintain privacy



Passive heating

Concrete and tile floors

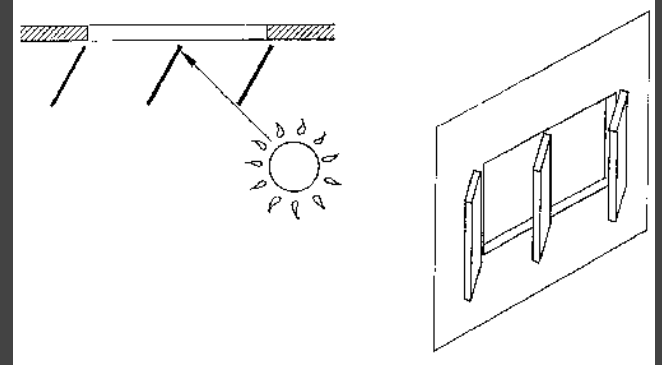
Shading



Mid-day: Balconies

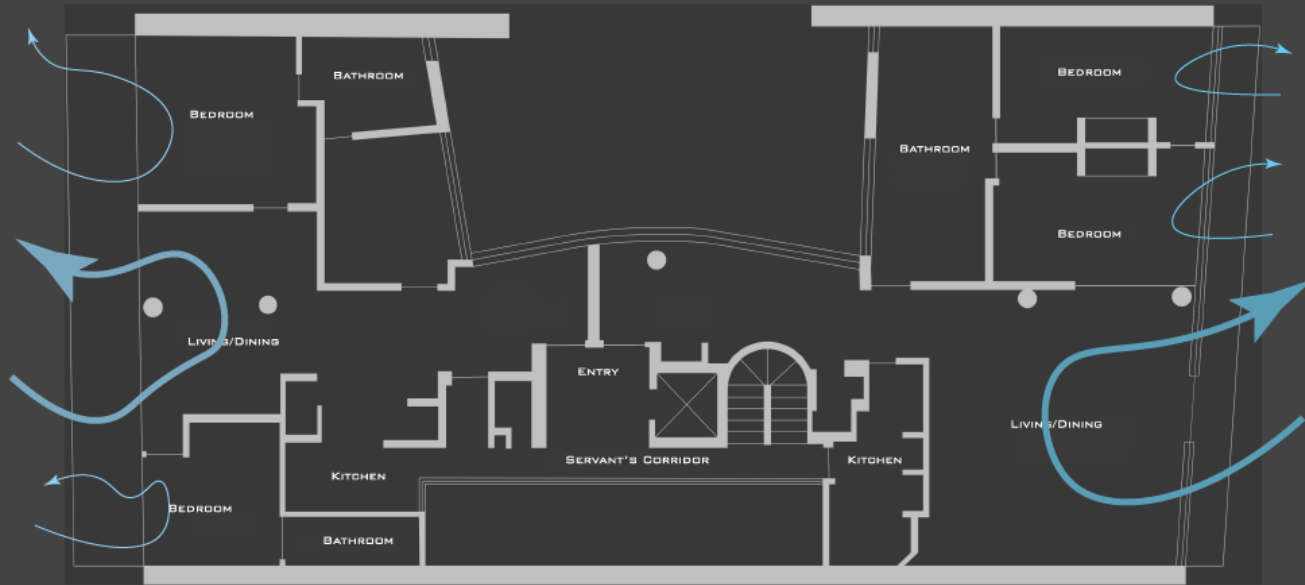


Sunset: Curtains



Possibility: Vertical Fins

Ventilation



No cross-ventilation

But air may flow through operable windows

Green space



http://www.fondationlecorbusier.fr/CorbuCache/2049_4187.pdf

Decorative Shrubs



Roof Garden

Privacy

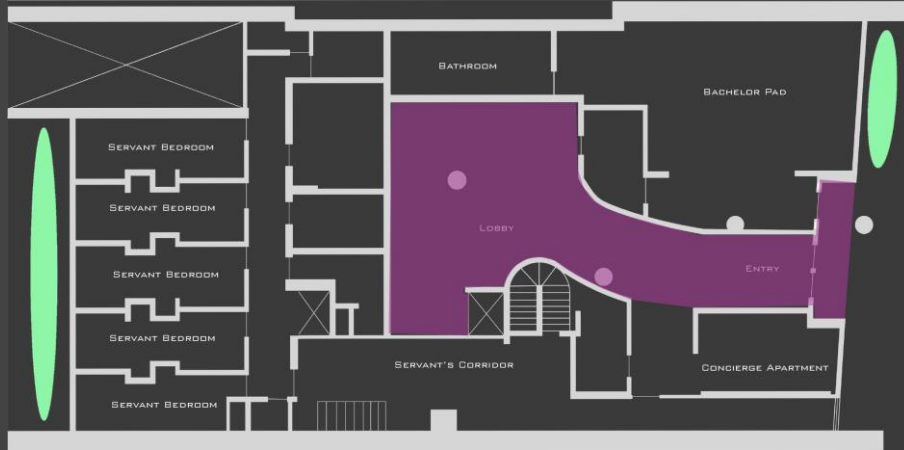


Recessed entrance

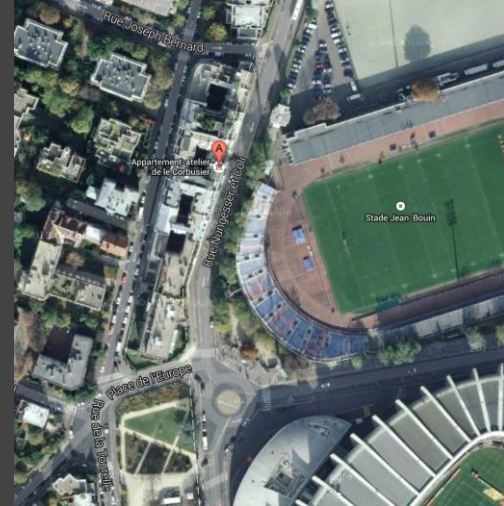


Glass blocks and
curtains

Community space



Lobby



Nearby sports centers and parks

Resources:

http://www.fondationlecorbusier.fr/CorbuCache/2049_4187.pdf

Modern Housing Prototypes