

# Learning from Amateurs

How Madrid Balcony Appropriations can Instruct Architects and Future Housing



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# The Places We Make Home

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Housing Proposal that Embraces Adaptive and Appropriative Living

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**Introduction** Spatial Appropriation



a. Helmet Holder, Barcelona, Spain
b. Stair Stool, Rome, Italy
c. Pot-holder, Madrid, Spain



**Introduction** Spatial Appropriation



The act in which people use public [or private] spaces to carry out individual or collective activities other than the purpose that the space was originally designed for.

a. Nakagin Capsule Tower. Tokyo, Japan.
Image by Charlie Koolhaas.
b. Lara-Hernandez, Antonio. "Institute of Mobility and Urban Territorial Development in Yucatan, Urban Resilience Research." IMDUT, Yucatan, Mexico. b.

# **Spatial Appropriation**

## **Introduction** Examples of Appropriations

semi-private





**a.** *"The Quest for Better Public Space: A Critical Review of Hong Kong,",* pg.185, Charlie Xue and Kevin Manuel.

b. "New Delhi Informal Settlements" United Nations
Department of Economic and Social Affairs,
Population Division of the World's Cities, 2018.
c. Ikea Room Divider, www.ikea.com/us/en/ideas/
home-furnishings

## private











**a.** Locations of Appropriations Documented. Perez, Mary. 2024



**a.** Locations of Appropriations Documented. Perez, Mary. 2024

Introduction Problem Statement

The **abundance** of balcony appropriations demonstrate people's ability to **reinterpret** and **adjust** their surroundings to create **tailored** and **self-expressive** spaces.....**but does architecture permit and facilitate this**?











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**a. - t.** Catalogue Photographs of Madrid Balconies. Perez, Mary. November 2023





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**Introduction** Mission Statement



Learn from the Lavapies locals and their **'amateur' approach** and applying it to housing that **embraces an adaptive culture**.

To create a building that serves as a **lifestyle tool**, **enhances quality of life**, and constantly **evolves** to suit the **user's needs**.





Introduction Approach of "Learning From Amateurs"

theoretical, methodological, and behavioral research applied to balcony usage in Madrid

# Learning From (Amateurs)

researching, understanding, and analyzing the origins and strategies of the performers of spatial appropriation

The individuals or collectives that perform acts of spatial appropriation.







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**a. - t.** Catalogue Photographs of Madrid Balconies. Perez, Mary. November 2023











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#### Seven Spatial Qualities Process





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| strategy | privacy, space limitation |
|----------|---------------------------|
| title    | split dwelling            |

private residential balcony, three-sided

balcony features an iron railing with typical spanish detailing and extends rom a single unit.

it's apparent that there is a partition added to the center apartment, which inevitably affects how the balcony is split.

his instance showcases how future architectural and construction intervenions affect appropriations and vice-versa. this appropriation likely stems rom programmatic faults (need for a flexible space). **Seven Spatial Qualities** Corresponding Colors





**Seven Spatial Qualities** Space Limitation



Balconies and galleries are *extentions of indoor storage*.

Limited and restrictive space leads to adaptive solutions, such as nailing items, and storage solutions such as bookshelves, cabinets, and closets to be placed outdoor.

The rising social importance of *material goods* makes it challenging to downsize or find affordable storage solutions that reduce accessibility to these items.









**Seven Spatial Qualities** Productivity



The user has a **constant need to accomplish daily tasks** in spatially limiting housing conditions

**Drying laundry** is the **most notable appropriation** in Madrid - whether store-bought or makeshift solutions, all approaches **utilize existing architectural or structural features** 

For other productive goals like cleaning, items such as vacuums and mops are **often shared between neighbors** and **stored in common areas** like corridors and galleries











Seven Spatial Qualities Leisure



The balcony serves as an outdoor **private retreat** and **space for self-expression**. The balcony showcases the user's need for **relaxation**, **hobbies**, **and personal time in a private outdoor space**.

Spanish social culture revolves around outdoor third places, like parks and cafes, and personal leisure spaces are limited to homes and **the only private outdoor space: the balcony** 

Often, *railings* and other *existing structural elements* serve as the foundation for these appropriations.







Seven Spatial Qualities Climate



Residents need **comfort and protection** due to the rapidly changing environment.

Adjusting **shutters**, **persianas**, **and curtains** becomes a daily ritual that connects residents with the city and its climate.

As the climate evolves, residents adapt with creative solutions, allowing them to comfortably enjoy *private or shared outdoor spaces* ranging from balconies, galleries, rooftops, and courtyards.



Seven Spatial Qualities Privacy



In this *dense metropolitan* area, users have a strong need for *confidentiality and solitude*. Interviews revealed that climate solutions, like *persianas*, also serve as tools for privacy.

Users modify their balcony spaces with **store-bought** or **makeshift railing screens** to **block visibility**, tailoring them to **suit the balcony's condition**.









Seven Spatial Qualities Security



Lavapies local's need to *feel safe* in this evolving social dynamic - **40% of Madrid's police** is stationed in this area.

Common crimes in the area, such as **pickpocketing**, **break-ins**, **and vandalism**, are addressed with measures like **barred windows**, secured balconies, and surveillance cameras.

Interviews revealed that **security overlaps with storage solutions**, as heavy and large cabinets help prevent trespassers from accessing gallery balconies.





Seven Spatial Qualities Community



Shared items and tools in communal areas ranging from cooridors, steets, rooftops, and across balconies.

Community is fostered through the creative use of **shared spaces** like galleries and courtyards, where features such as **railings and columns** are often used to **attach communal items** like laundry drying racks and ropes.

Interviews with locals revealed another communal space beyond the gallery and balcony: **semi-private courtyards**. Neighbors share these courtyards, finding ways to either **divide** or **coexist** within the space.









# Seven Spatial Qualities Community





b.

a. View from Maria's Apartment Window. Lavapies,

Madrid. Image by Mary Perez.

**b.** *Maria and Neighbor Interaction*. Lavapies, Madrid. Image by Mary Perez.

c. Dani Tattoo from Home. Lavapies, Madrid.

Image by @sebbbaaa instagram



c.

Seven Spatial Qualities Corresponding Colors







#### security

evolving social dynamic with high police presence

barred windows, secured balconies, and surveillance cameras and systems.

security overlaps with storage solutions to prevent trespassing



#### community

shared items from cooridors, steets, rooftops, and balconies

> semi-private courtyards.

finding ways to divide or coexist within the space.

# Solutions Addressing Multiple Needs and Desires

Appropriative solutions more often than not overlap and address more than two spatial needs





26

Perez, Mary. 2024

**Overarching Themes** Conclusions from Seven Spatial Qualities

# 1. The Existing Conditions Neglect User's Ever-Changing Needs and Desires

2. User Modification of Architectural and Structural Features

3. Indoor-Outdoor Program Interchangeability

4. Appropriation in Shared Spaces Thrive in Limited Access

# The Places We Make Home



**Overarching Themes** Conclusions from Seven Spatial Qualities

# 1. The Existing Conditions Neglect User's Ever-Changing Needs and Desires

existing conditions will never fully cater to the user, therefore architecture must be convertible and adjustable.

Must understand the site to propose an adjustable building catered to it



**Site Analysis** Lavapies Local's Needs and Desires

**a.** Site Analysis Location Descriptions. Perez, Mary. 2024 **b.** Site Analysis Location on Embajadores Map.

Perez, Mary. 2024





31

a. Map of Vacant and Abandoned Lots in the Embajadores District. Perez, Mary. 2024 b.- e. Miscellaneous Vacant Abandoned Lots in the Embajadores District. Perez, Mary. 2024











**Selected Sites** Lavapies Area Abandoned Sites and Selected Cluster



• selected cluster sites

**a.** Selected Vacant Lots for Proposed Project in the Embajadores District. Perez, Mary. 2024

Sites Analysis Lavapies Abandoned Sites Analysis and Adressing Proposal



Climate and Sun Diagram

Column Grid Layout

site neighbor interference

**Floorplan Strategy** Lavapies Area Abandoned Sites and Selected Cluster





2m

Column Plan with highlighted transition space

Floor Plan with highlighted transition space

layout and transition space allows for freedom in floorplan flexibility



Level 1 Isometric Floorplan

# Flexible Floorplan A



# Flexible Floorplan B


### 1. The Existing Conditions Neglect User's Ever-Changing Needs and Desires

Ground Floor Workshop and Material Storage for residents



# 1. The Existing Conditions Neglect User's Ever-Changing Needs and Desires

**Floorplan** Floorplan strategy to optimize appropriation



explodeded isometric building

**Overarching Themes** Conclusions from Seven Spatial Qualities

# 2. User Modification of Architectural and Structural Features

Residents need a strong architectural base to appropriate, therefore the architecture must be easy to adjust



Learning From Amateurs

Brick, Brick Inserts, Threshold Inserts, Balcony four main architectural and structural details that promote appropriation





Appropriative Brick

**Brick Inserts** 

Threshold Inserts



Balcony

Appropriative Brick



Appropriative Brick X

Appropriative Brick X Exploded

Appropriative Brick Y

Appropriative Brick Y Exploded

**Brick Inserts** 



**Brick Inserts** 

Appropriative Brick with insert



Interior Wall Configuration

Brick Wall Configuration and Spacing



Appropriative Brick Wall Pattern



#### Appropriative Brick Wall Pattern

Section with Exterior Brick Appropriation



44



Threshold Insert



Shelf Threshold Insert

Door Threshold Insert

Shared Shelf Threshold Insert



#### Interior Wall Configuration with Threshold Insert

#### Floorplan with Threshold Insert



46

Matrix of Starting Point Insert Possibilities





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Balcony



Balcony Analysis

Appropriative Railing Feature

Floorplan with Threshold Insert

Balcony

Section with Balcony Appropriation





# 3. Indoor-Outdoor Program Interchangeability

Balcony's shape-shifting characeristic allows residents to change program daily or even hourly



#### 3. Indoor-Outdoor Program Interchangeability

### Inner-Facing Balcony - Interior Living Mitigates Indoor and Outdoor Private outdoor spaces are integral for a Madrileño's daily routine, therefore providing more balcony spaces permits users to apply these needs and desires more frequently



Scattered Courtyards of various sizes and conditions are integral for individual and social dynamics



Courtyard spaces with Appropriative Functions



Courtyard spaces with Appropriative Functions



# Courtyard spaces with Appropriative Functions



55

thank you