

AE1342-URBAN DESIGN(1)-LECTURE 5 URBAN TISSUE

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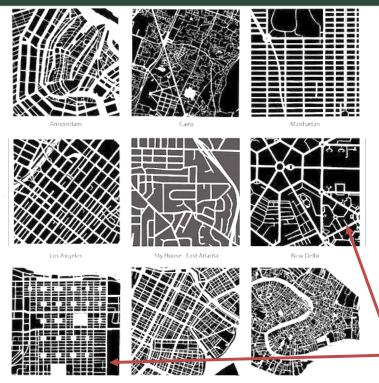
التشكيل العمراني



هو:

- 1. العلاقة التبادلية بين الكتل والفراغات العمرانية.
- 2. مجموع ملامح نظام الفراغات البينية وشبكات الحركة.
 - 3. المظهر العام للمناط العمرانية

النسيج العمراني



Urban Fabric:

النسيج العمراني:

هو مجموع نظام الفراغات البينية وشبكات الحركة والاتصال

وهو لغة المسارات وشبكات الحركة ومعابرها والفراغات البينية

في نطاق ما.

The city is composed of urban tissues.

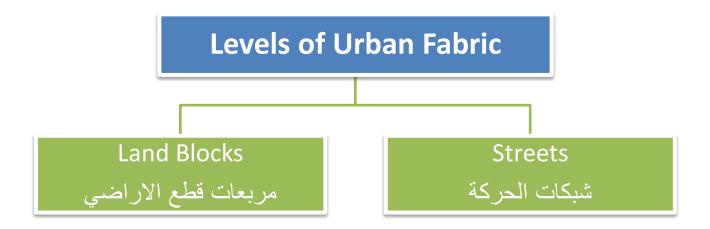
Are constituted by a set of elements:

- urban form—streets
 - plots and buildings

Combined in a specific way, originating different types of tissues

Ref.: mitpress.mit.edu Adapted by the Author

1- Types of Urban Fabric



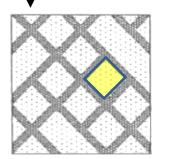
Classification of the Urban Fabric according to Street

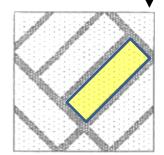
Networks:

Pattern of Street Network

Regular Tissue

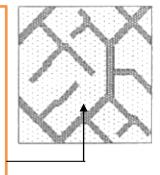
- Regular Streets.
- It has a clear direction.





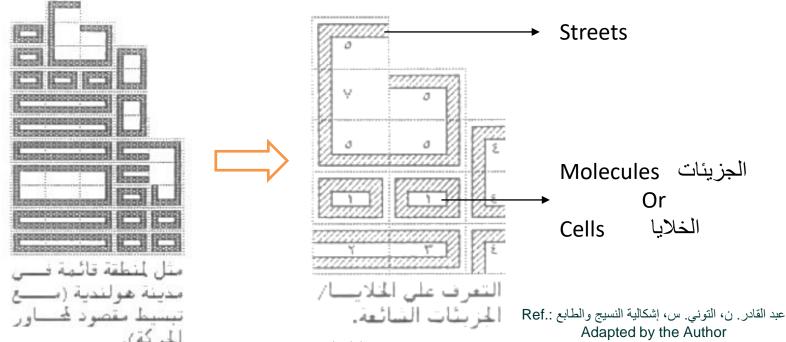
Irregular Tissue

- Irregular Streets.
- It has no clear direction.
- Its main streets are branched into main and secondary paths.
- In old districts.



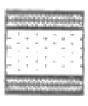
Ref.: عبد القادر. ن، التوني. س، إشكالية النسيج والطابع Adapted by the Author

Tissue Zone Distribution (Habraken):



Different Types of Molecules or Cells:

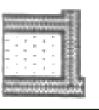
Land divisions bounded by two parallel roads Cell (A)



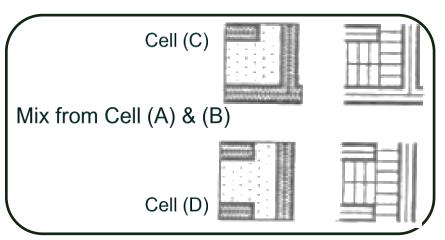


by three parallel roads

Cell (B)

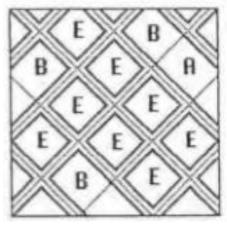




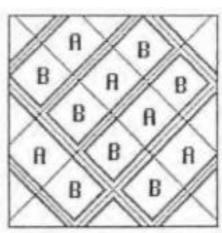


عبد القادر. ن، التوني. س، إشكالية النسيج والطابع :.Ref Adapted by the Author

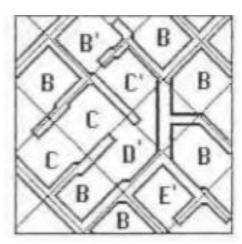
Different Types of Molecules or Cells:



Cells on regular tissue

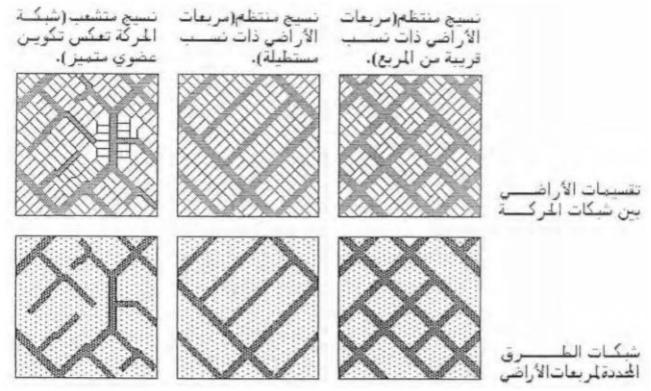


Cells on regular tissue



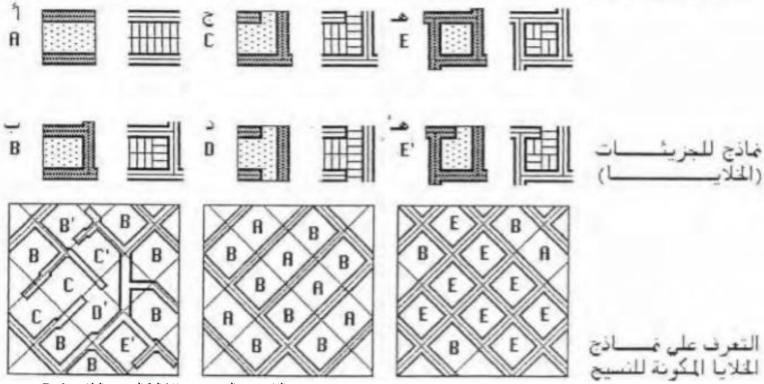
Cells on irregular tissue

عبد القادر. ن، التوني. س، إشكالية النسيج والطابع:.Ref



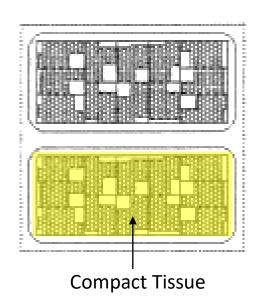
عبد القادر. ن، التوني. س، إشكالية النسيج والطابع: Ref.

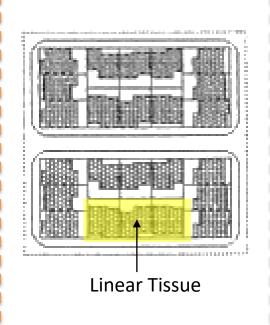
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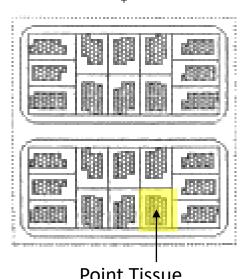
عبد القادر. ن، التوني. س، إشكالية النسيج والطابع :. Ref

Classification of the Urban Fabric according to Land Blocks:





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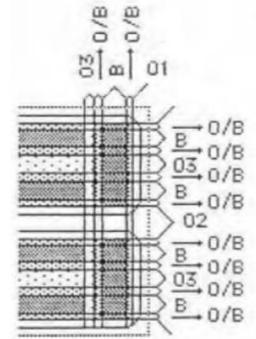


Point Tissue

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Rules forming the Land Blocks (Habraken):

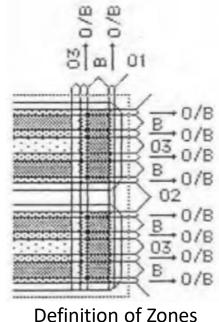
- Zone (B)= Built Zone.
- Zone (O)= Open Zone.
- Zone (O/B)= Open/Built Zone.



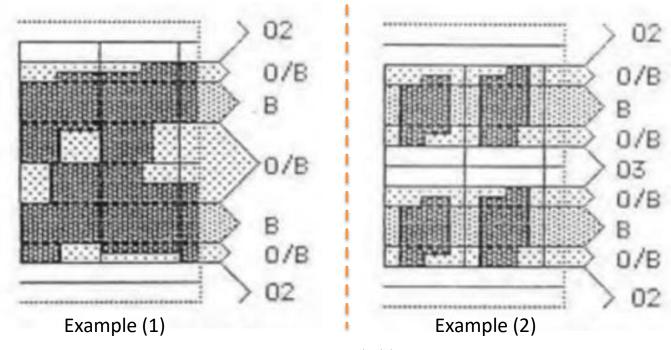
Definition of Zones

Rules forming the Land Blocks (Habraken):

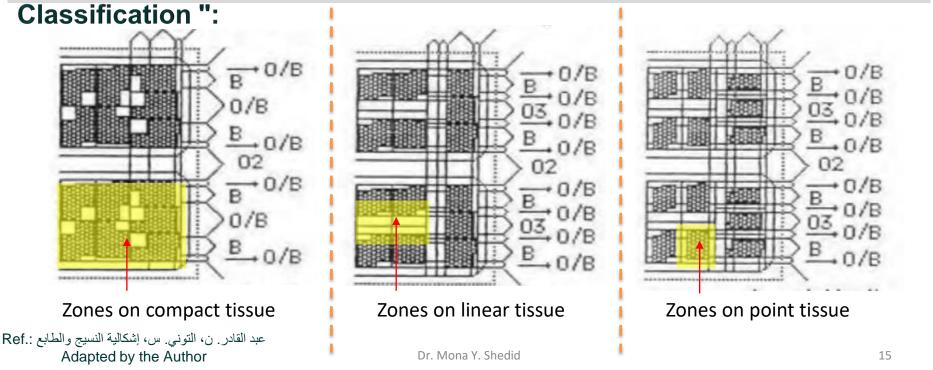
- Zone (01)= open spaces and street network.
- Zone (02)= semi public & semi private spaces
- Zone (03)= private spaces (only for pedestrian)



Rules forming the Land Blocks (Habraken):



The Possibility of Combining the two Approaches "Tissue & Zone

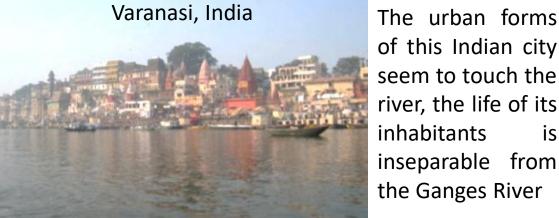


2- The Elements of Urban Form

The Natural Context

Relationships between urban forms and natural context





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Ref.: eng.Wikipedia.org Adapted by the Author

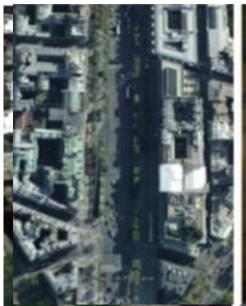
Ref.: eng.Wikipedia.org Adapted by the Author

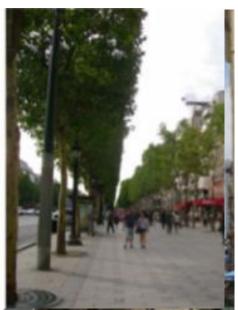
2- The Elements of Urban Form

The Streets System

There is a wide variety of streets, with different shapes and sizes, with different ways of relating with the other streets in the surroundings, and also with different urban functions.

Different streets in different cities





Broadway, interstruction than the states Averages, in New York

2- The Elements of Urban Form

The Plots System

Is one of the most important elements of urban form, separating the public domain and the private domain.

An important element in the description and explanation of the physical form of the city is:

- The dimension of its street blocks.
- The number of plots per street block.
- How is each plot related with the street.

The plots system of a whole city, central Pingyao

2- The Elements of Urban Form

The Buildings System

Building Types:

Commercial

Residential

Political

...etc.

2- The Elements of Urban Form

The Buildings System

Building Character



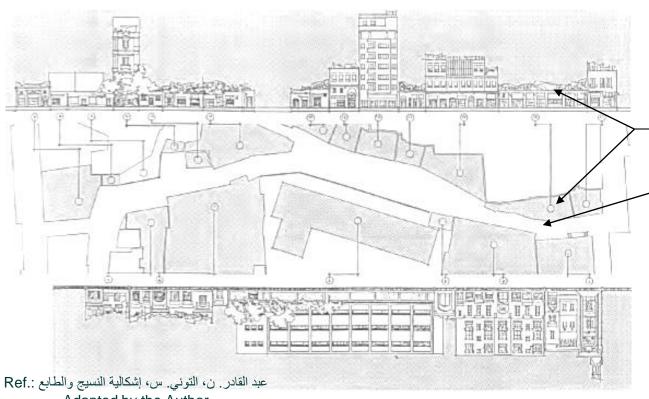




Ref.: arabianbuisniss.com Adapted by the Author

Tunisia





Relationship between Buildings and Urban Spaces

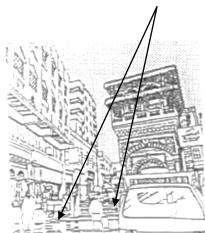
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عبد القادر. ن، التوني. س، إشكالية النسيج والطابع :.Ref Adapted by the Author





Relationship between Buildings and Urban Spaces



Architectural and urban product

Architecture Character...



DEFINITION OF ARCHITECTURE CHARACTER

Elements include the overall shape of the building, its materials, craftsmanship, decorative details, interior spaces and features, as well as the various aspects of its site and environment.





Ref.: eng.Wikipedia.org Adapted by the Author

DEFINITION OF ARCHITECTURE CHARACTER



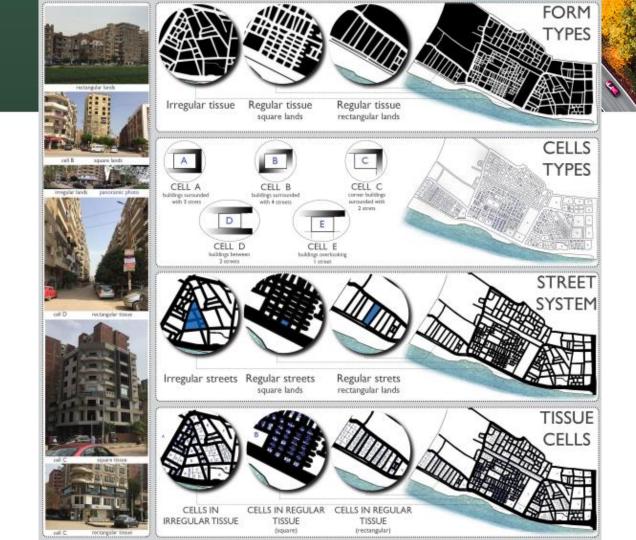
Examples...













4 PLOT SYSTEM

A-STREET DIMENSIONS



REFRENCES:

THE CASE OF URBAN FERM AND TASSEE -

DR. SAYED ALTONY

DR. MONA VEHIA LECTURE

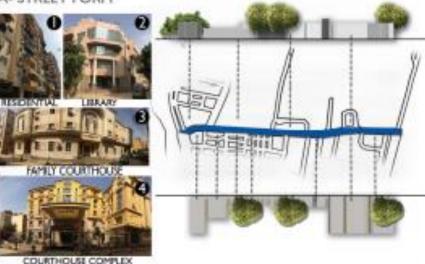
PHOTOS BY STUDENT I KANA AGEL-

RAWAN HAYTHAUI - IUUKA EMAD



5 URBAN CHARACTER

A-STREET FORM



B- UTBAN SPACES IN THE NEIGBOURHOOD

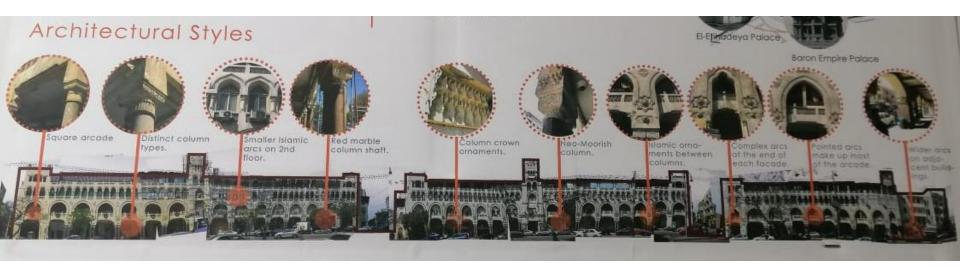












REFERENCES

The references to multiple sources are text & figures (sketches, drawings, pictures, photos,..etc.)

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ASSIGNMENT #6....



Assignment #6

Each group should study the urban fabric of a new neighborhood in Egypt.

Assignment #6 submission is next week in a Hard-copy (A2) format as well as Soft copy.

ANY QUESTIONS???

THANK YOU...