# History of Gardens

- Agriculture
- Urban environment, relation to nature, structure of society.
- •Role of plants and garden in the city.
- Geometry and nature
- Gardens are product of dictatorship, power, wealth.

## Garden design

Form concept geographic setting

paradise garden, expression of nature. connection between form and concept is idealized in

expression of geometry and mathematical proportion botanical collection

expression of attitudes and ideas. torms are response to climate and context

### Prototypes

2.nature Prototype of historic gardens and parks 1.architecture

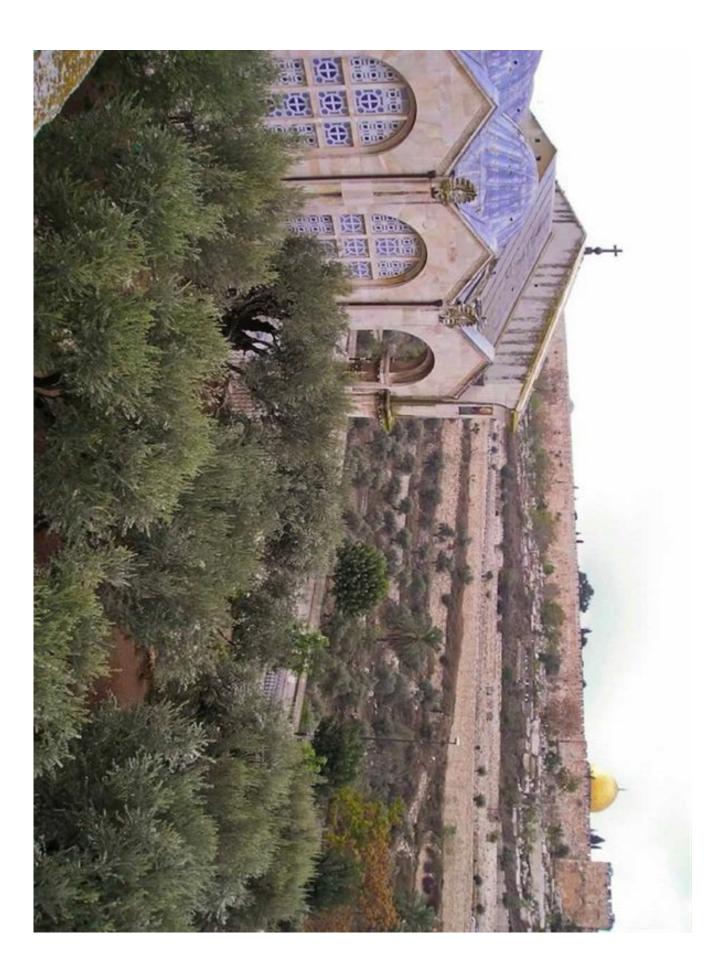
sources of prototypes visible remains illustrations literature: travelers' and visitors' writings

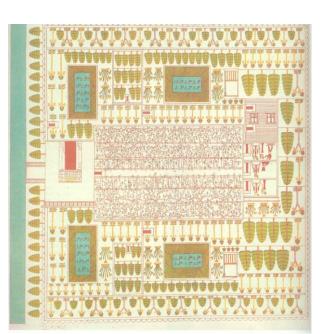
### Garden

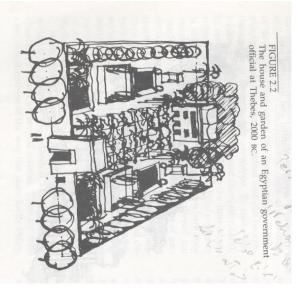
Garden is an enclosure of land for pleasure and delight.

- Pleasure: originated in mythology
- Layout: originated from ancient cultivation and irrigation practices

- Sacred grove memory, hero, trees rocks, shrine or alter In Syria, there was a grove sacred to Adonis at Afga.
- Myth, (the god garden)garden and agriculture is connected with god. Demeter goddess of corn ....
- agricultural plants, lutus Farm garden, derived from sacred groove, egypt pond fish
- Garden of Eden
- Symbolism of plants olive fig thorn
- Promise garden of prophet Mohammad





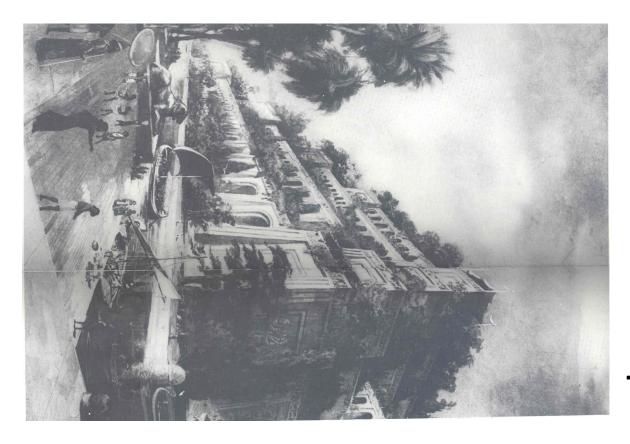


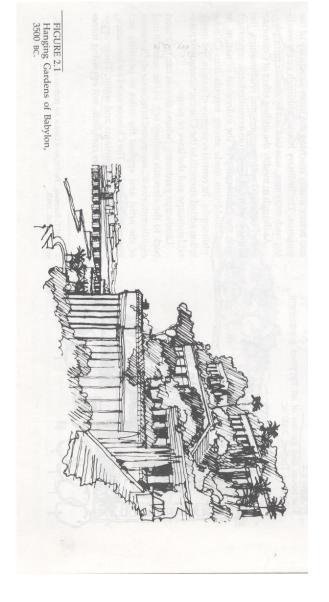
#### Egypt farm garden

Lutus and papyrus and date palm Rectangular and axial arrangement of flower beds, ponds and enclosure Irrigation channels Fruit trees for shade Vine trellis Surrounded by high wall



### Babylon paradise garden





#### 4 acres 300feet

Planted and irrigated roof terraces Nabukhath Nassar

### china

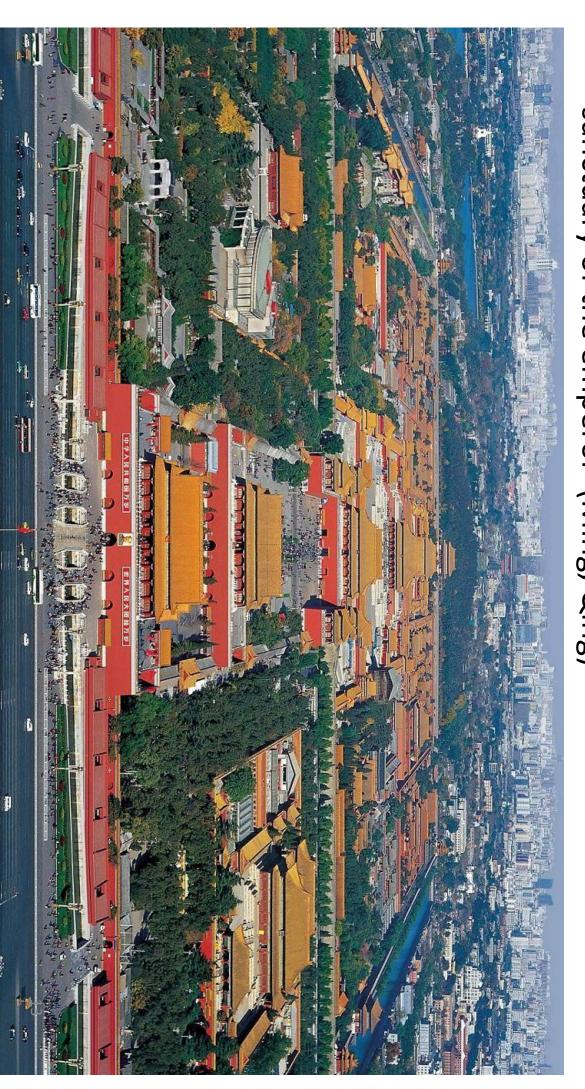
### china

- Confoucianism man to man relashionship , provide of social and political institutions dealing with organised around the rules, conventions, and rituals code of rules for social behavior and relationships. officials, parents , wives, children, friends....etc relations between emperors and high government The places of daily life, e.g house, palace, temple
- Taoism (daoism) man –nature relashion
- Buddism nature and meditation, interest in natural landscapes and laws of nature

- Zhou dynasty, 600bc climax of development
- Deforestation
- Control tree cutting and forest management
- Roadside tree plantation
- Grid system cities, wide tree planted streets north- south and east-west
- Hierarchy, house palace ..
- Axial
- Symmetrical organization
- Confucius on which the society was structured. Rectangular enclosure represent the cosmos and reflected the teaching of

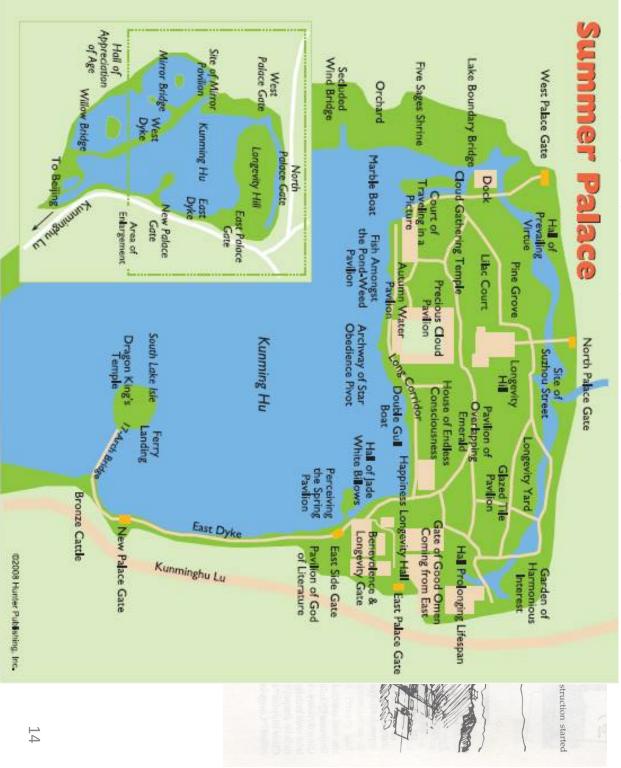
# Palace of forbidden city Peijing

sanctuary of the emperor (Ming, Qing) gradually from one level to higher reaching the inner Series of spaces and enclosures along major axis rising up



#### **China** Summer Palace

# jin dynesty 1153 ging dynesty 1749

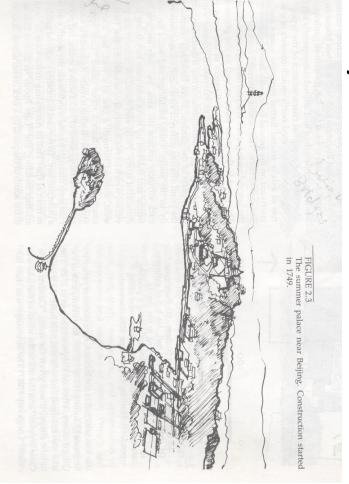


#### **China** Summer Palace

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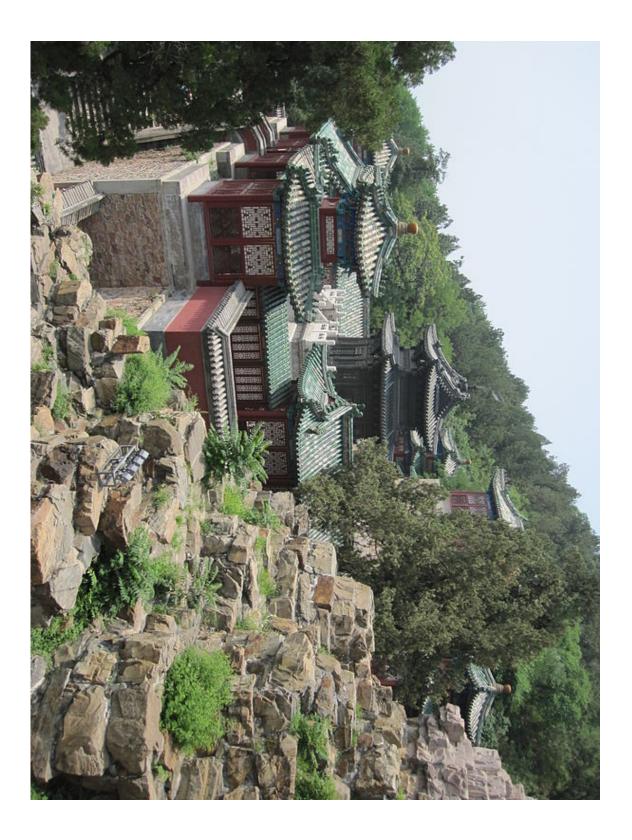






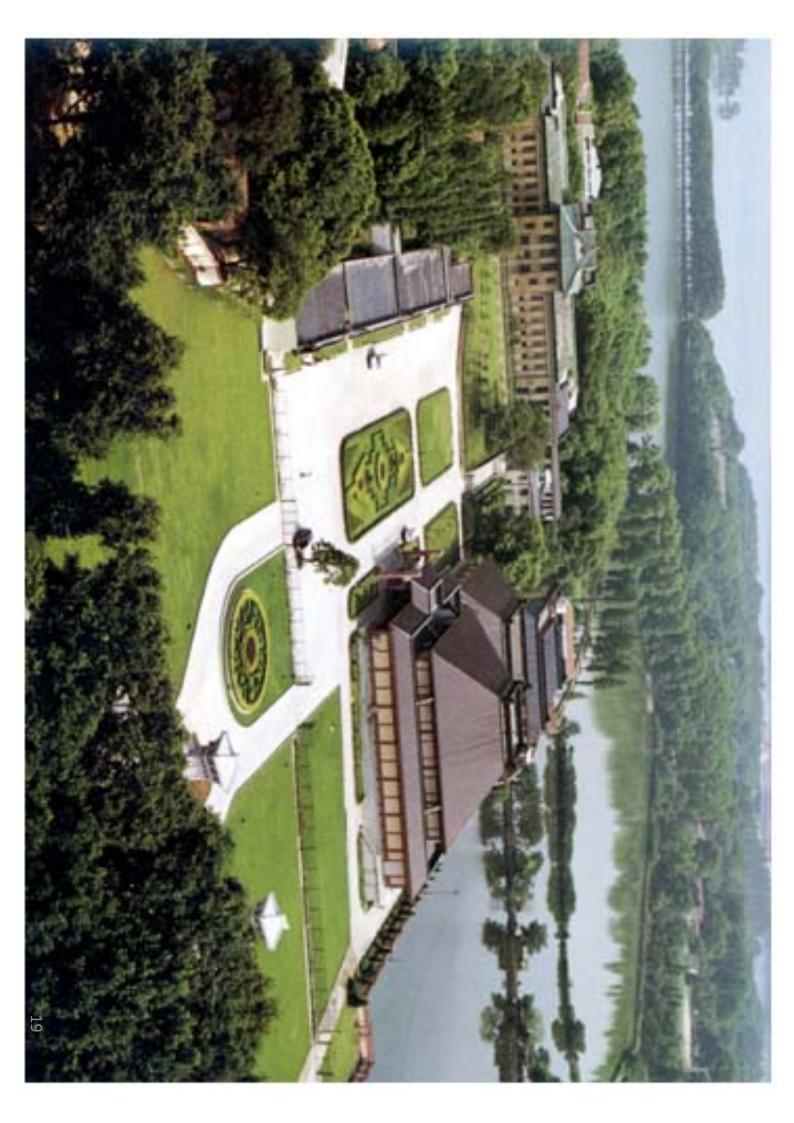
## **Tower of Buddhist**





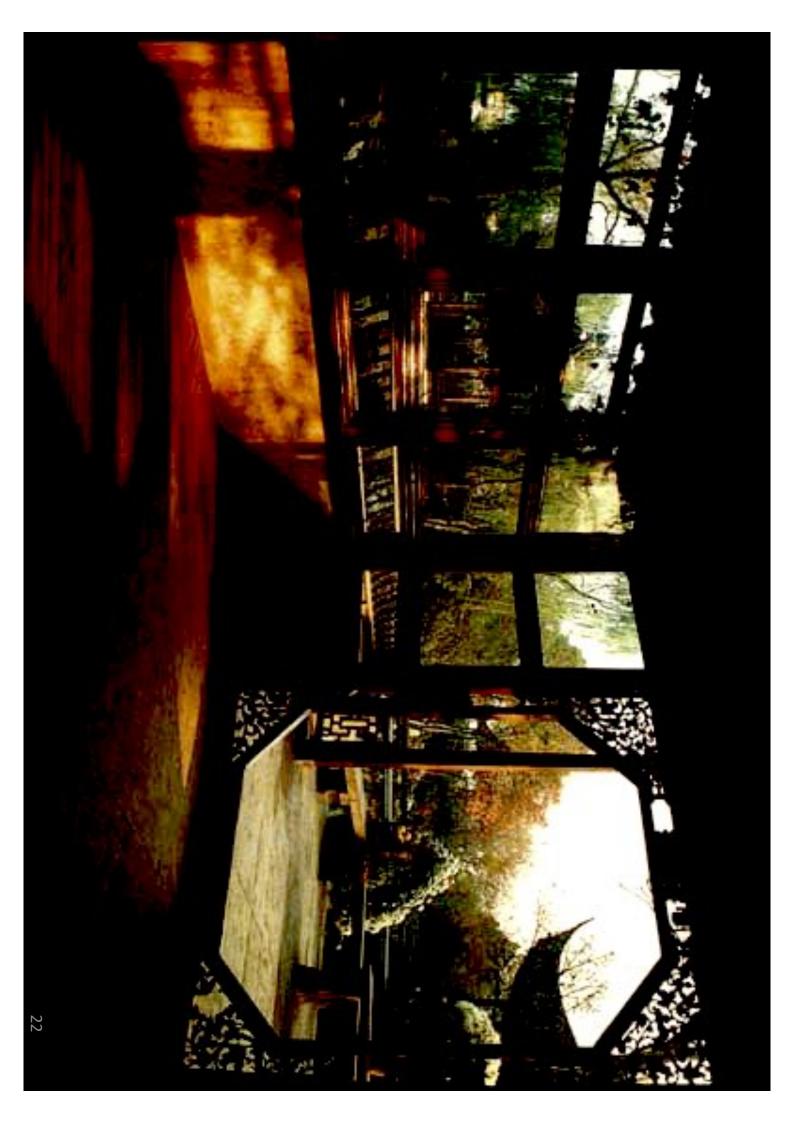
# **Pavilion of Precious Clouds**







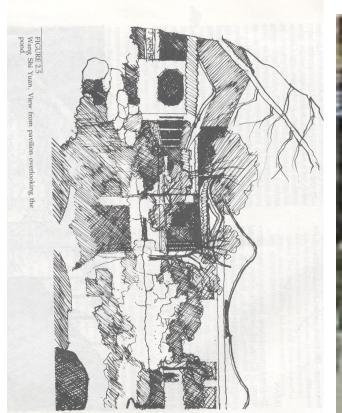






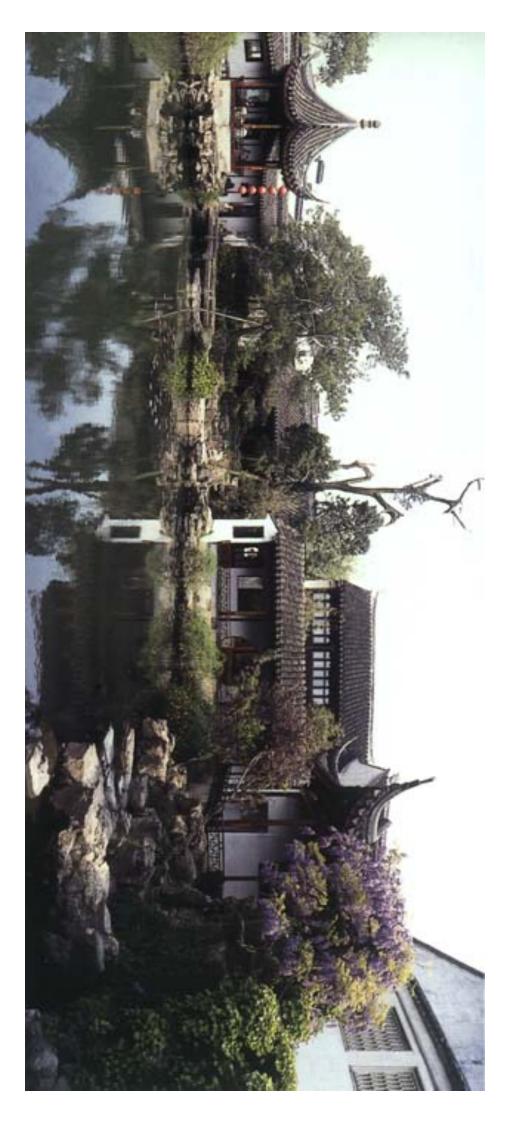








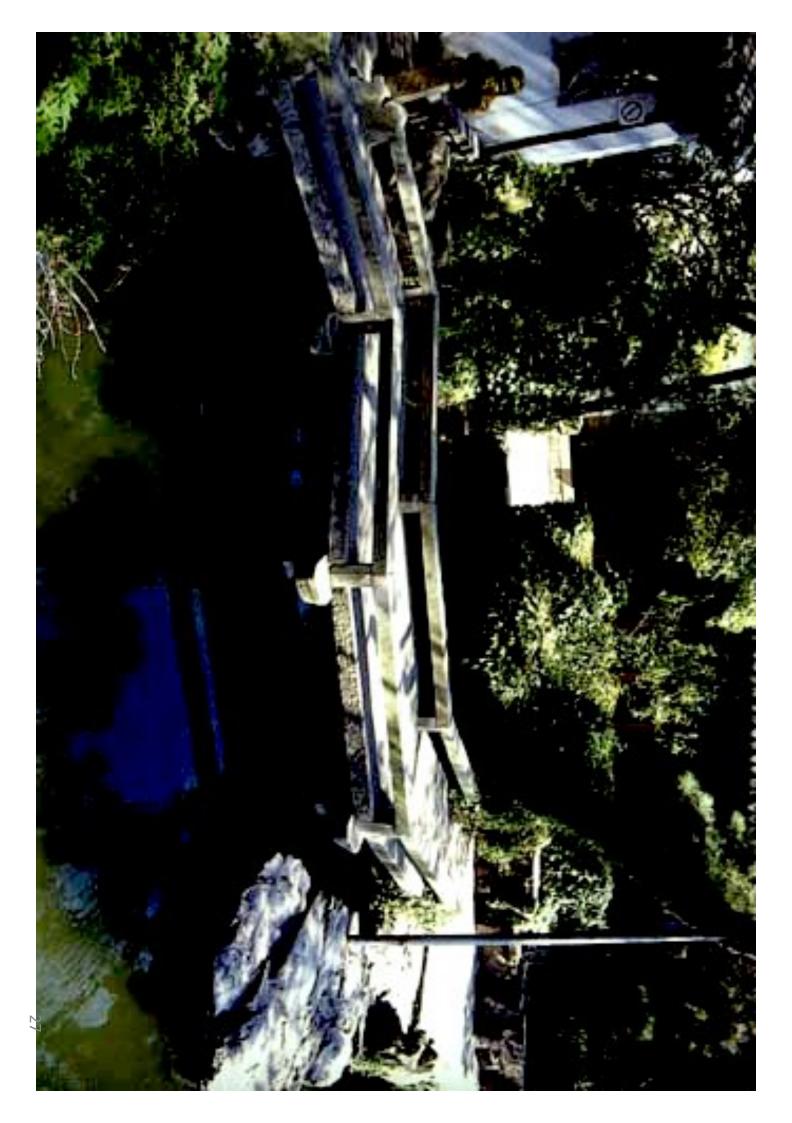












### Japan

- Shinto religion, forms of nature
- Buddhism , Taoist Chinese influence
- meditation

- Nara period chinese model
- Lakes and rocks

Prototype Zen dry garden Stroll garden

## katsura imperial palace 1620 Japan

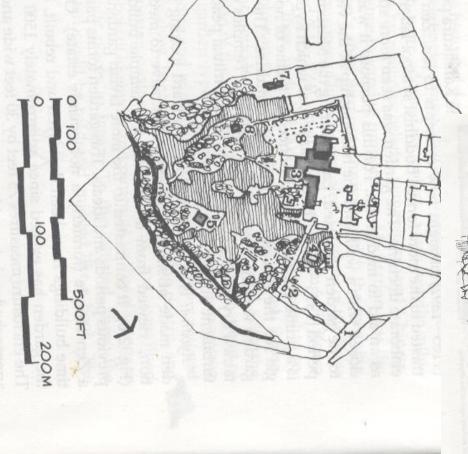
FIGURE 2.8 Katsura Imperial Villa

which also remains intact, is a fine example of Japanificent stroll garden (Figs. 2.7 and 2.8). The villa, of these features and concepts combined into a magand garden. It also demonstrates the adaptable archinese architecture. Together they illustrate the idea of integration which typifies the national Japanese house of Prince Toshihito, a brother of Emperor Goyozei. tectural form. Built in the Edo period over several Many of the views are based on an eleventh century years starting in 1620, it is thought to be the conception novel and the garden is imbued with literary allusions to the initiated. At the Katsura Imperial Villa near Kyoto we find all

gates and along paths following an indirect route to The villa would be approached through a series of

#### FIGURE 2.7

started in 1620 (at right). (1) Front gate, (2) Plan of Katsura Imperial Villa garden at Kyoto, Imperial gate, (3) villa, (4) boathouse, (5) Shokin-Tei Shoi-Ken (a large pavilion), (tea house), (6) Onrin-Do (Buddhist temple), (7) (8) riding ground.



### Japan imperial palace



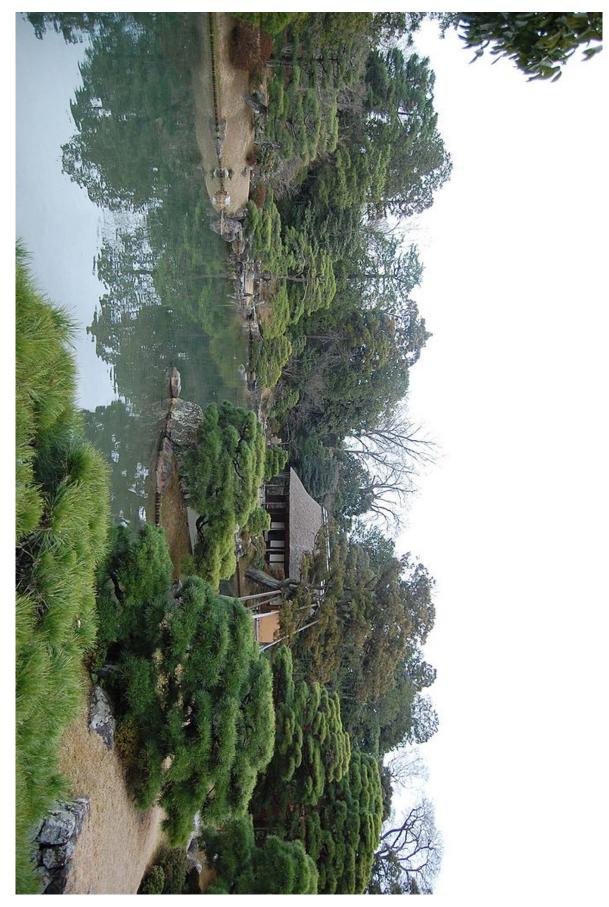


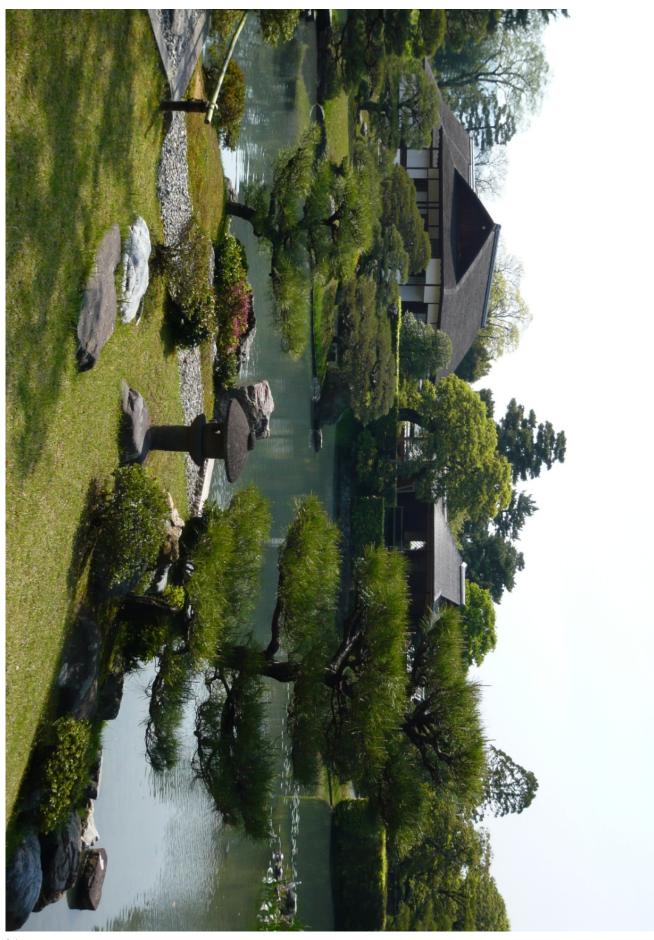


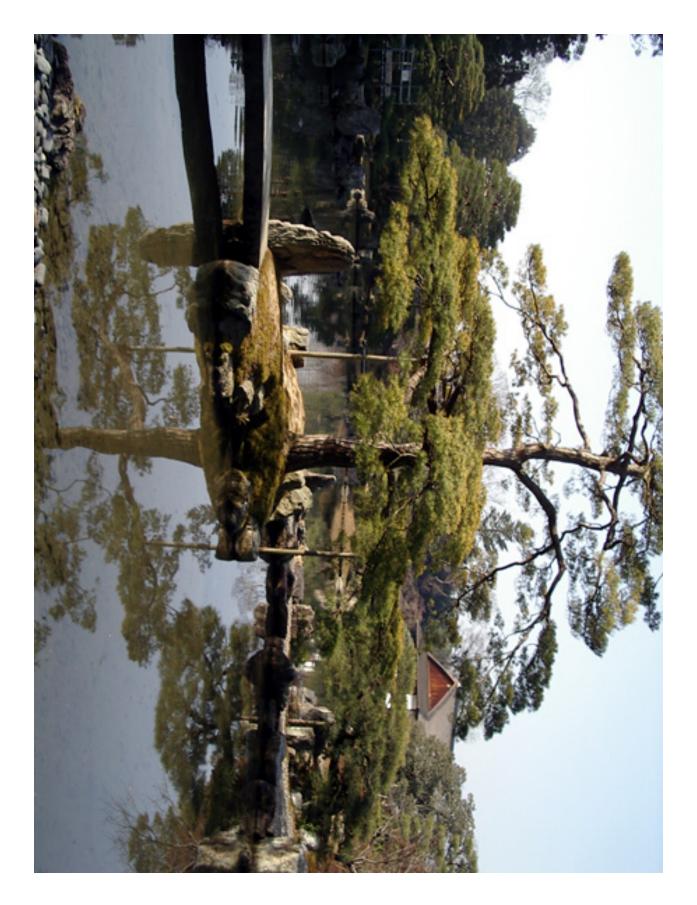


















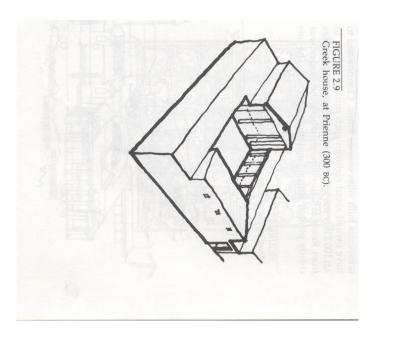






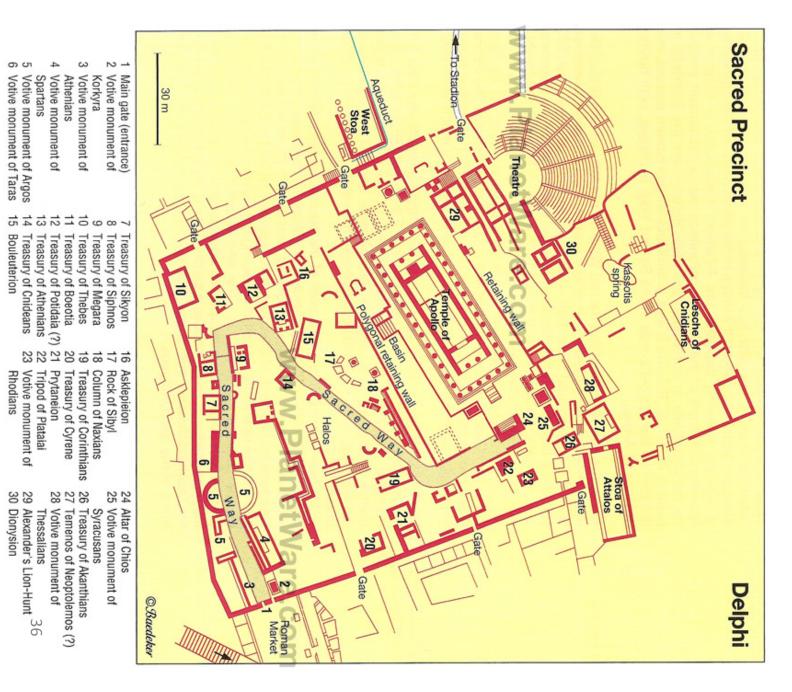
## Zen Garden

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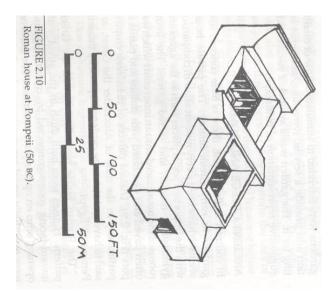


Greek

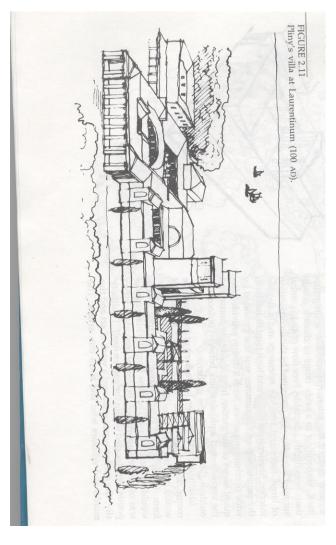
Greek house Prienne 300PC Pavement, statues, plans Inspired by Egypt and Persia



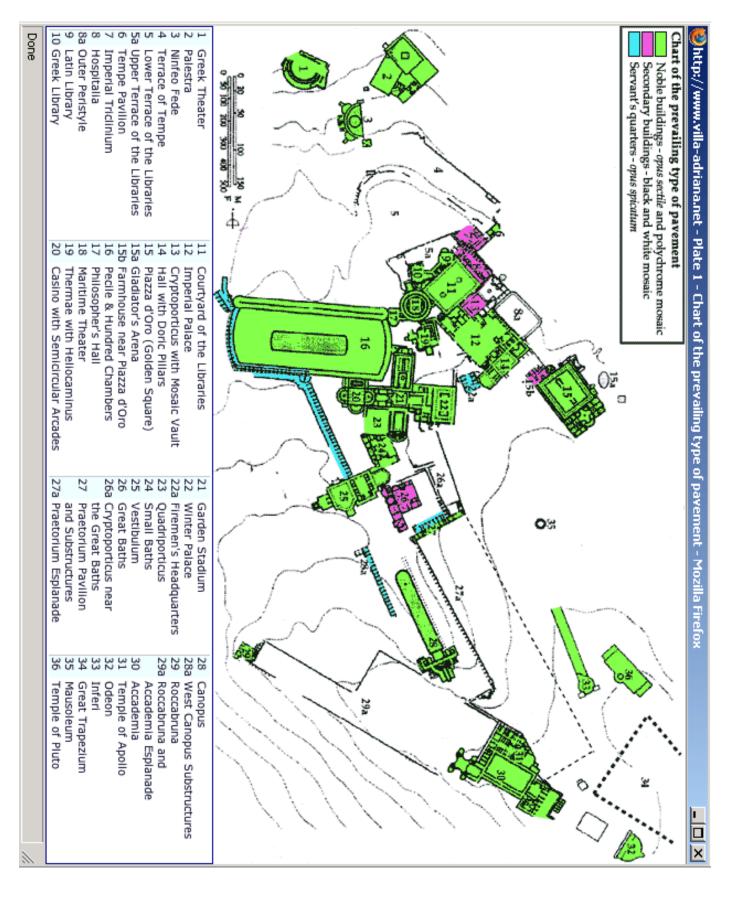


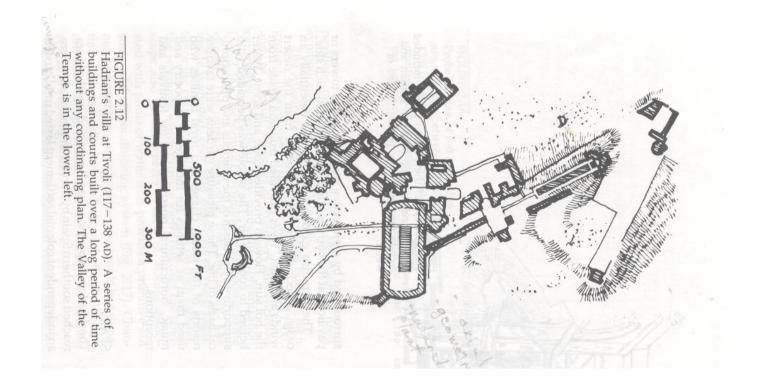


Roman house: Pompii 50 BC Flush with street, inward-facing rooms, colonnade, atrium or court, social sanctuaries and enclosed shelter from sun wind noise. Little trees, plants in pots and raised beds, stone water basins, marble tables



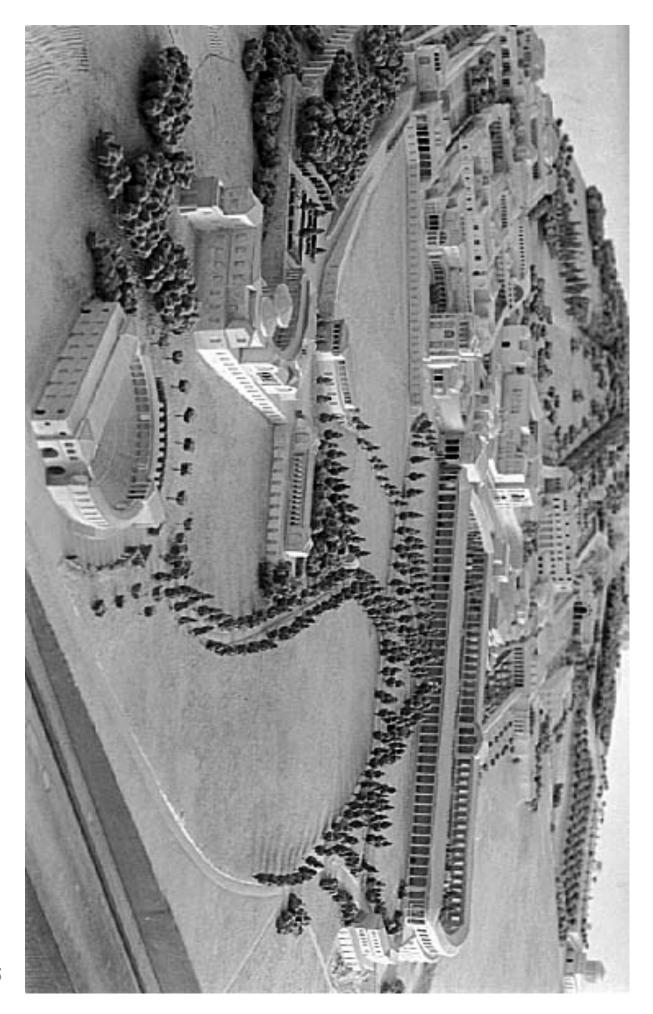
Pliny's villa Laurentinum 100 AD Italy Trees Fig, Mulberry, Kitchen garden, walkway Terraces, fragrant flowers, summer house, water features and fountains, topiary.





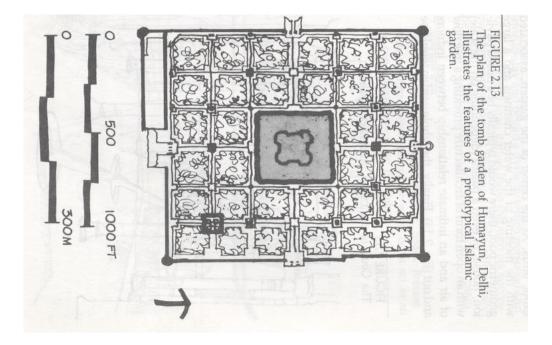


### Complex of palaces

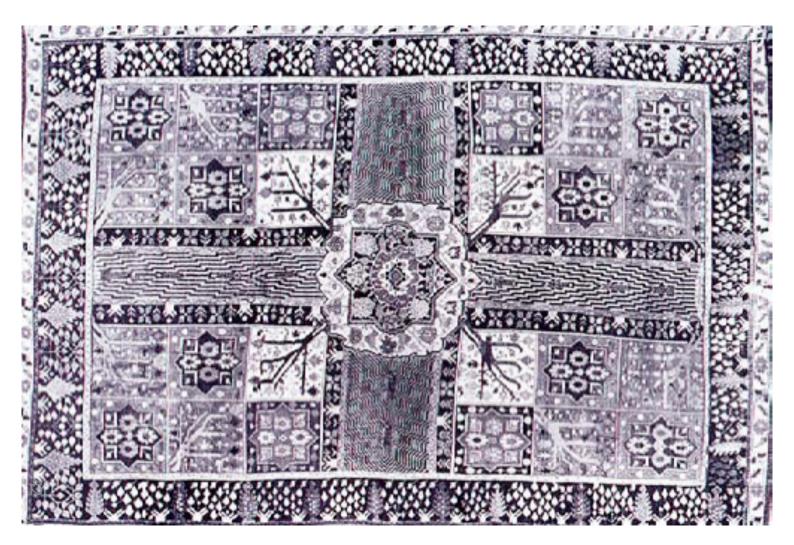


# Islam and Persian

 water cool air •Oasis •Wealth, power Symbolism religion and philosophy of life Flowers color and scent Trees shade fruits Plants cypress death, almond life and hope Rows of trees parallel to water channels Plants left to grow natural Axial geometric form four parts water flow by gravity, Water milk and honey Islamic garden concept based on image of paradise. Religious connotation and association, traditions, art. Gazelles and birds Flowers mainly roses •Garden of Humyun, Delhi Use for irrigation and domestic use. Channels (quanat) from aquifers, or underground pipes, Water is the main element for practical and symbolic reasons



Persian garden carpet woven 18ch, border of flowers and trees, four rivers, regular sections irrigated by channels, central platform, center corner planted with platanus orientalis symbolic of shade Tuba tree

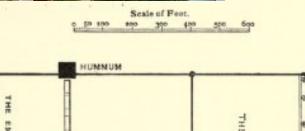


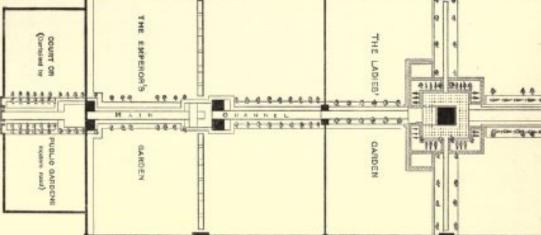


LANCRE: January 11 – An attractive view of historic Stalimar Garden that declared on the World Hentlage in 16th Hist under the UNESCO Cenvertion. Garden was constructed in the eva of Meghal Empere Shakpitan. It has three tensions, the upper tensors "#ank Sakah" has 153 fourtains, middle tensors "Faix Bakah" has 152 fountains and lower tensors "Hayat Bukah" has 153 fourtains. APP photo by Rana Intran









A ROYAL GARDEN PALACE

165

SHALIMAN BAOR (KASHIMIR).

Shalamar garden

# Alhambra, Spain

space division symbolism. court and Islamic concept of Combination of roman irrigation and agricultural

Practices.Water, symbol, cool

chambers without any connection Built on high ground •Wall •Stages 1350-1500 Fortified palace Series of courtyards and

Inside shade cool







Alhambra, court of







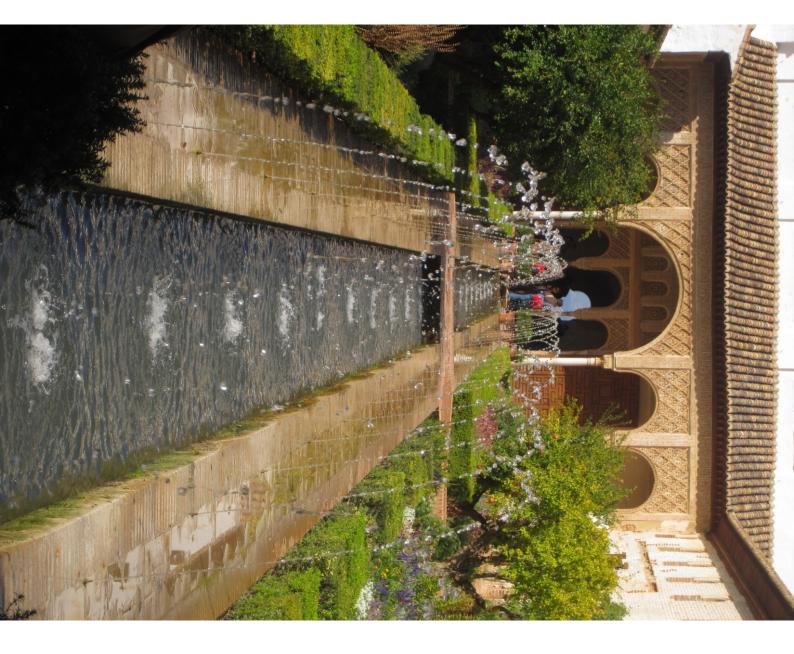


### Court of myrtle









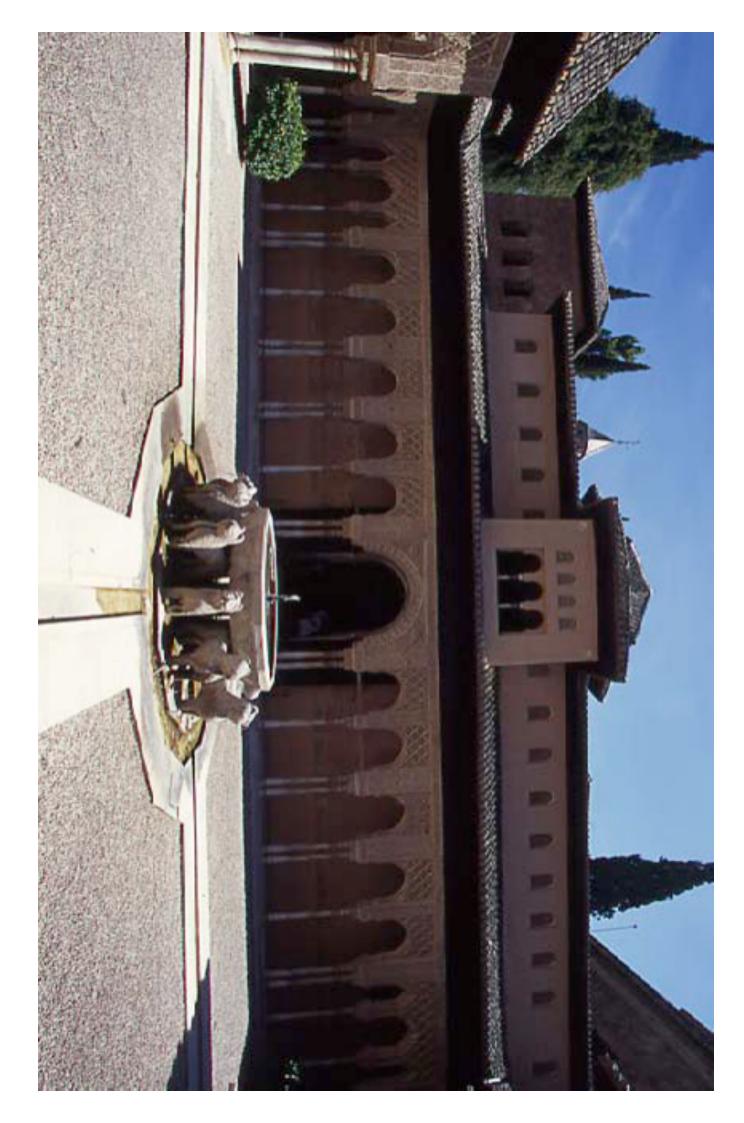














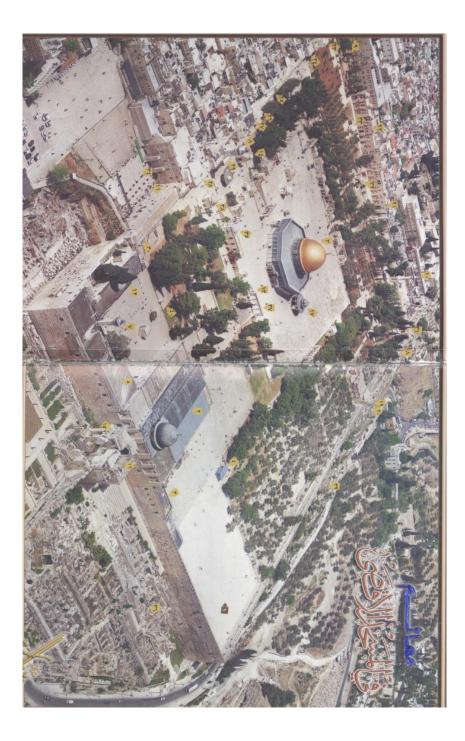






## Taj Mahal





# Aqsa Mosque

### Italy

Sicily: Gardens served to provide vegetables and herbs or flowers **Pre-Renaissance** 

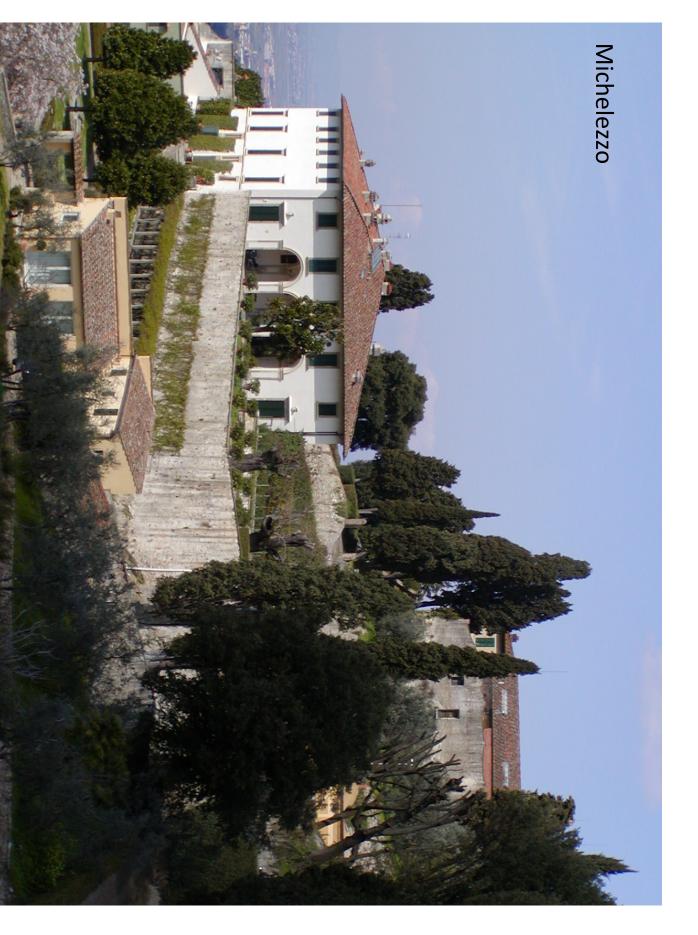
to serve the church

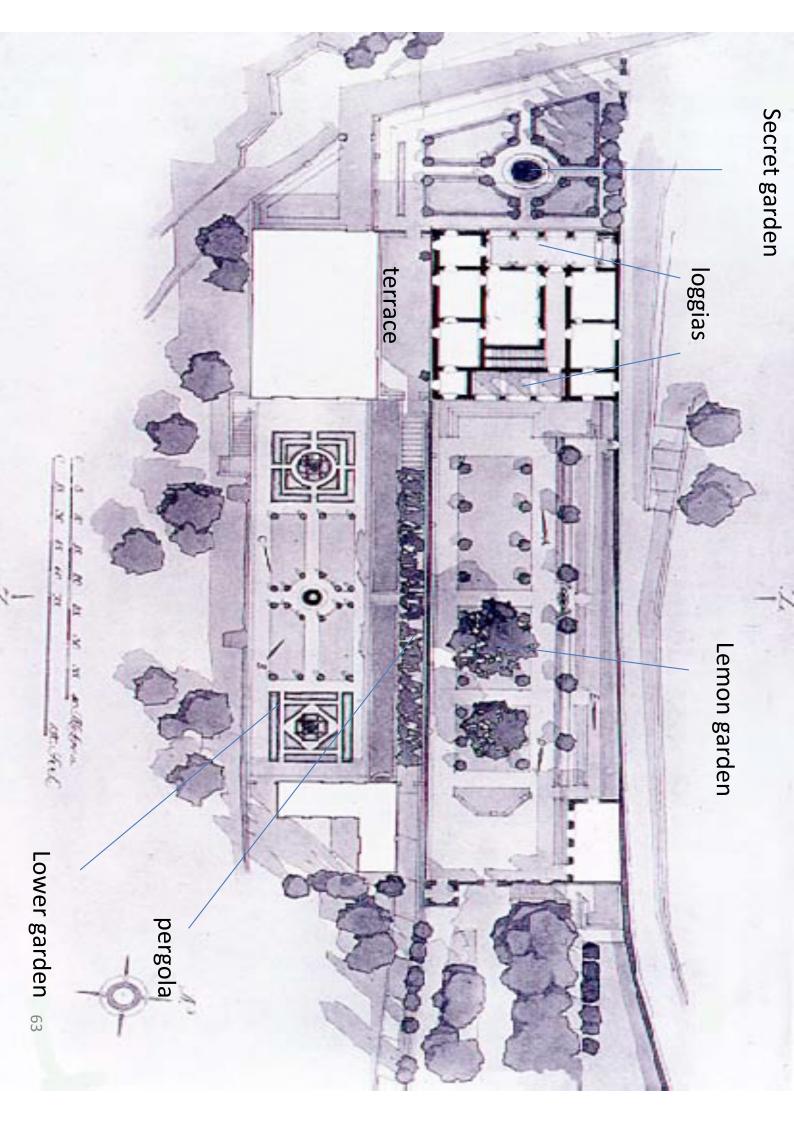
### Italy

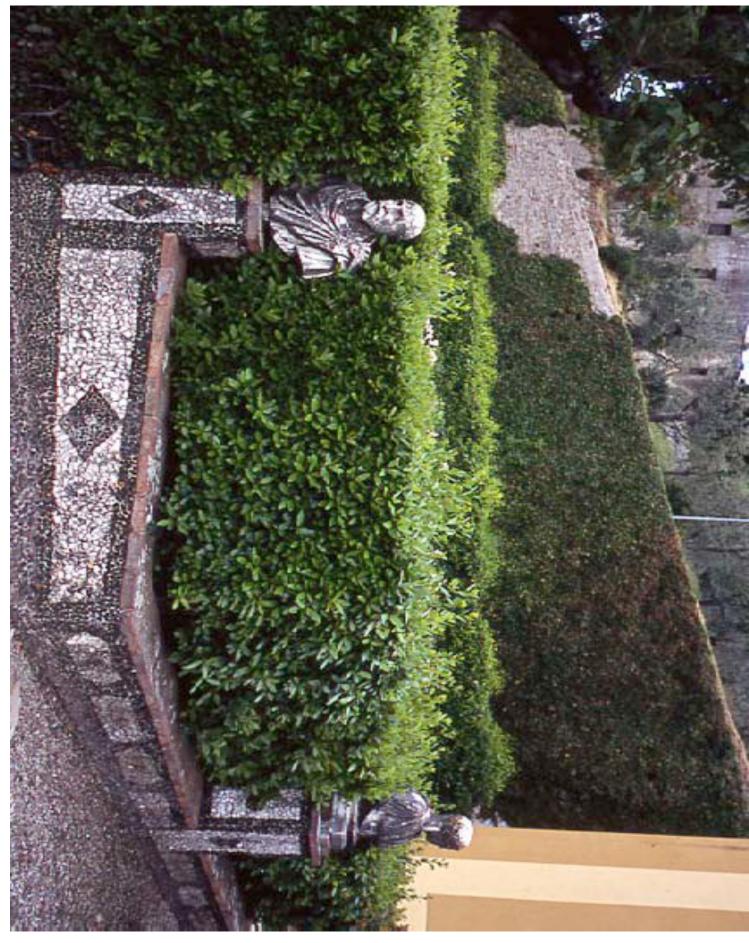
Theories and concepts

- Garden linked to the house by loggias
- Villa should be located on hillside
- Terraces and staircase recommended
- from the city Gardens were designed as retreat in the countryside away

- patronage of its dominant family, the Medici peculiarities of Florence including its political structure and the characteristics depend on factors, including the social and civic that the Renaissance began in Florence in the fourteenth century. Various theories have been proposed to explain its origin and
- th Medici family in patronizing and stimulating the artsdevoted huge features unique to Florentine cultural life which may have caused sums to commissioning works from Florence's le. Lorenzo D, Dedici such a cultural movement. Many have emphasized the role played by Michelaangelo Bounarroti bringing artists, including Leonardo Da Vinci, Sandro Botticilli and Florence, and not elsewhere in Italy. Scholars have noted several It has long been a matter of debate why the Renaissance began in
- achieved hegemony in Florentine society. came to power, however. Indeed, before the Medici family itself The Renaissance was certainly already underway before Lorenzo









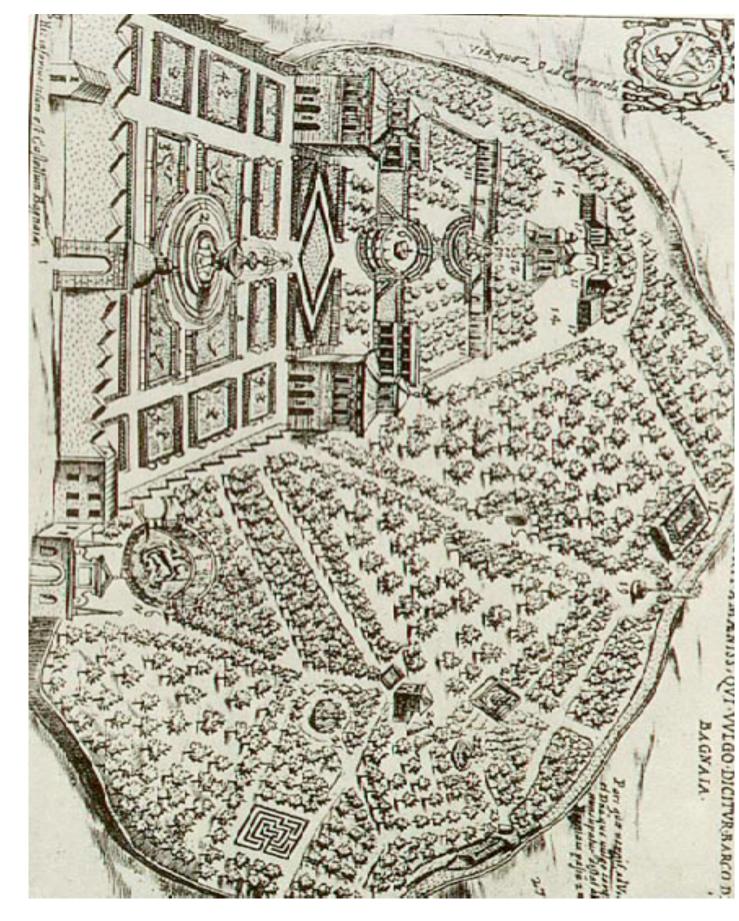


## Villa Lante

Vignola Sequential stops Central axis hunting park *barco* Sacred Wood (sacro *Bosco*) Formal garden



The Villa Lante, Viterbo, designed by Vignola (1568–1579)



## Villa Lante

The Villa Lante is formed by two casini (houses), nearly identical but built by different owners in a period separated by 30 years. Each square building has a ground floor of rustCated arcades or loggias which support a piano nobile above. Each facade on this floor has just three windows, alternating round or pointed pediments. Each window is divided by pilasters in pairs. An upper floor is merely hinted at by small rectangular, mezzanine type, windows above those of the piano nobile. Each casino is then crowned by a tower or lantern in the summit of the pantiled roof. These elaborate square lanterns too have pilasters, and windows both real and blind. Each of these casini, in their severe Mannerist style, was built by a different unrelated owner. Villa Lante was first commissioned by Cardinal Gianfrancesco Gambara who gives his surname to the first casino.

It appears that work commenced in 1566 on the right hand (as one enters) casino. It is

thought Gambara commissioned Vignola to design the project (the villa is only attribured to Vignola), and begin the work and the design of the gardens for which the villa was to become justly famous. The first casino and upper garden were quickly completed, but work was then suspended for the remainder of Gambara's lifetime. Following the death of Gambara in 1587, he was succeeded as Apostolic Administrator of Viterbo, by the 17-year-old nephew of Pope Sixtus V, Cardinal Alessandro Peretti Montalto. It was this mere youth who completed the project at Bagnaia and built the second casino. The two casin differ most in their frescoes: frescoes of landscapes in the Gambara and in the Montalto frescoes by a later artist in a more classical style. In the Gambara Casino the vaulted frescoed loggias are a riot of colour highlighting the architectural detail, while in the Montalto Casino the principal reception room is a combination of fresco and plaster sculpture, almost trompe l'oeil.



ountain of the Giants

ain of the Moon

Crawfish Water chain







di S idDi

Casin







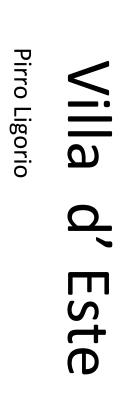


Pirro Ligorio







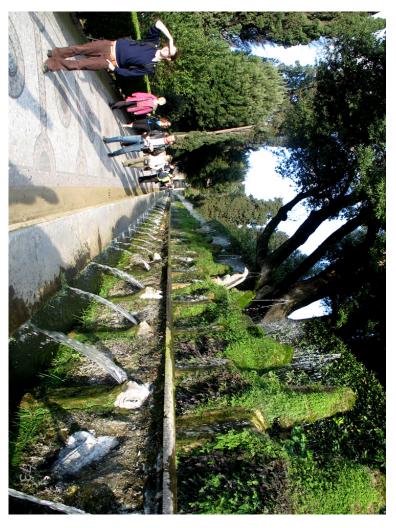


















### France

- Aristocracy, wealth, power
- ItalianFormal gardens

Parterres- best to be seen from the house- facing the garden front, Claude Mollet (concept of formal garden, unified plans conceived from viewpoint situated in the house)

- hedges
- Ornamental
- •Climate
- Terraces
- Canals moats
- Andre L Notre

# Urban parks and recreation

Bү

### Samar Nazer

Department of architectural Engineering **Birzeit University** 

6/10/19

⊢

### Park value

Public health Morality

movement Aesthetics, development of the romantic

Economics

Education

### Health

- sunny landscape setting Fresh air, exercises, rest, refreshment ,
- pollution live in suburb, a way from city noise and
- reduce stress. (Graham, Stickdougter)





### nar Nazer







### Morality

- Nature is a source of moral inspiration
- Study of nature improve mental stability
- Sport facilities and vegetable allotment serve moral purpose (reduce stress, relaxation)

### aesthetics

- Visual quality of industrial cities is ugly, public parks serve to improve visual quality
- Greenery in park help in beautifying the city

### Economic

- Public parks provide good health, morality, beauty to workers, so their productivity improve
- More production more taxes
- Money taxes entrance fees of some parks

### Education

- arboretum and zoo Instruction in natural science through
- Botanic garden

- are 121 hectares. The Royal Botanic Gardens, Kew, usually referred to simply as Kew Gardens,
- structures in an internationally significant landscape. The Kew site includes four Grade I listed buildings and 36 Grade II listed



Flag Pole

Restaurant

15

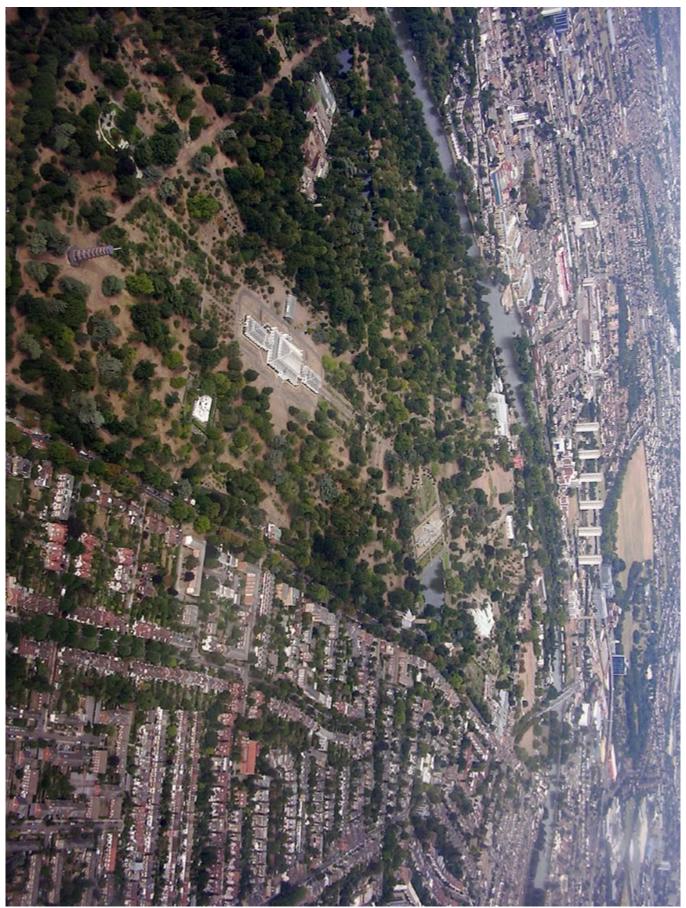
Palm House

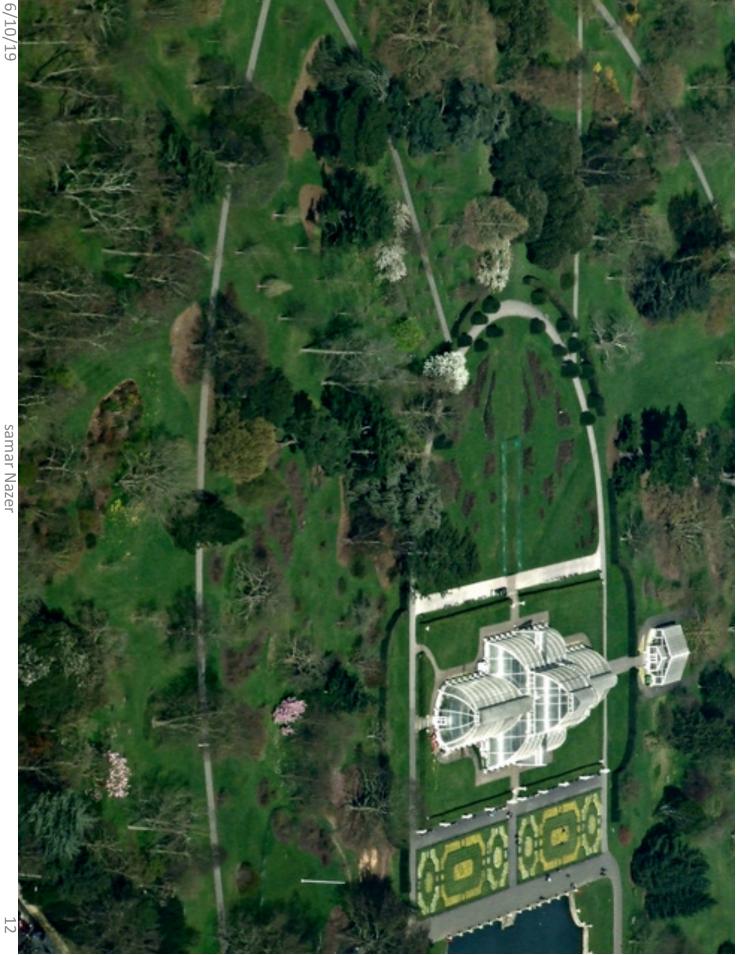
19 Alpine House

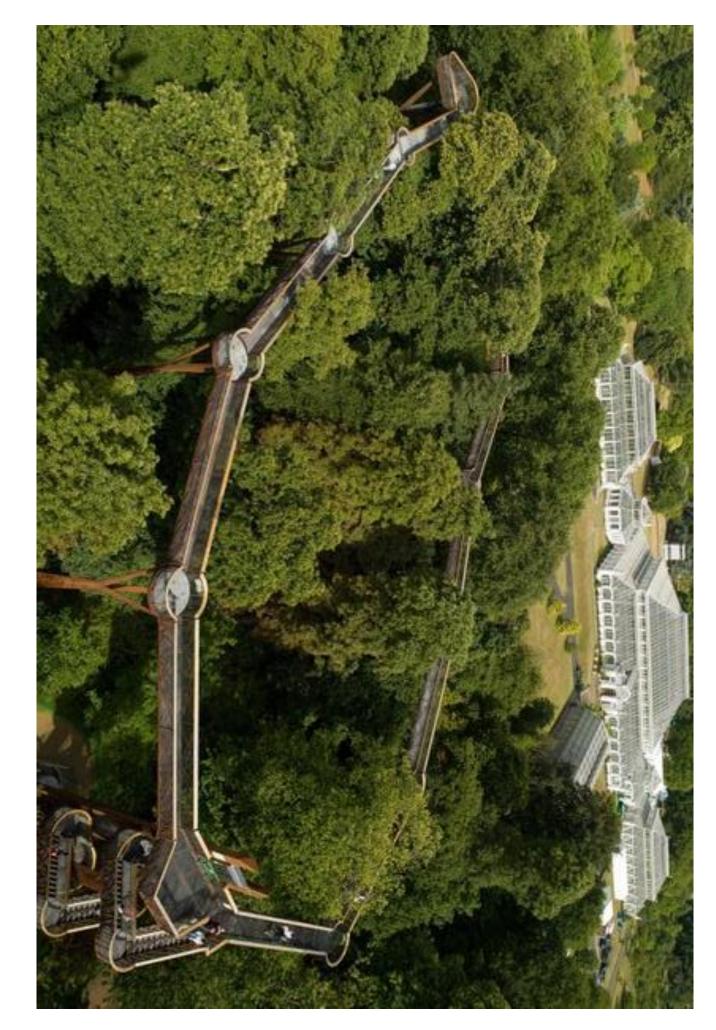
23 Nash Conservatory

Brentford Gate

samar Nazer





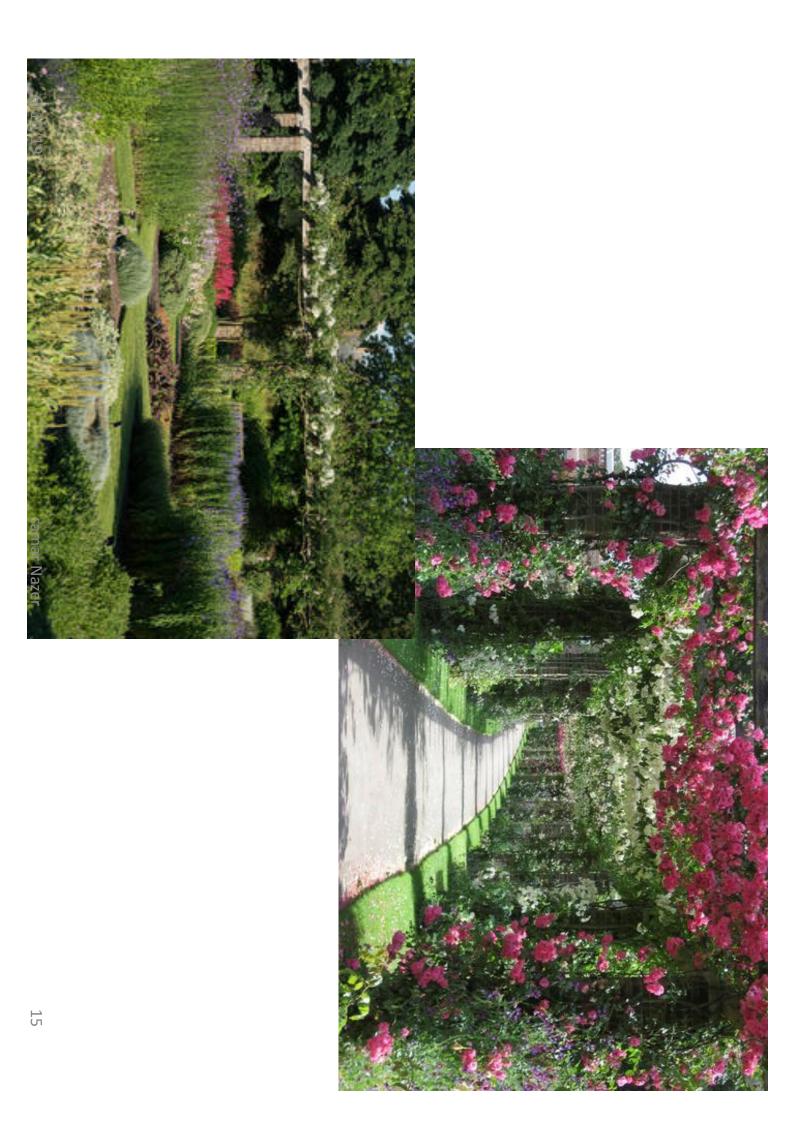




Palm House









The Sackler Crossing bridge made of granite and bronze, it crosses the lake.





## Parks and recreation areas

- since 19 ch parks and recreation become a major industry
- recreation units are classified according to their size and distribution
- Play lot, or block playground
- Neighborhood park, playground, recreation center
- Community recreation areas or playfields
- City-wide recreation area
- National park

## Play lot, block play ground

- Use by preschool-age children
- Within walking distance
- 1/8-¼ acre 0.5-1
   dunum in size



Gooseberry play lot park chicago

# Neighborhood park, playground, recreation

- center
- Served by elementary school
- Provide indoor and outdoor recreation
- 5-14 years age
- Include pre-school children and family group facilities of 2 acres
- ½mile from each home
- May be combine with school
- Size 16 acres or 6 acre if combined with school or 1acre for 800 people







### Cobalt ridge neighborhood park Queen Anne Creek



### Community recreation areas or playfields

- Community is number of neighborhoods or section or district of a city
- Provide wide range of recreation facilities, and crafts, clubs, places for social activities. fields, courts, swimming pools, center for art
- acre per 800 Size 32 or 20 if it is associated with school or 1
- 1/2-1 mile from each home



## City-wide recreation area

- To escape from city noise, dirt, traffic
- Variety of activities in addition to above facilities, picnic and barbeque areas, pathways, hunting fishing, parking areas...etc
- Golf courses, out door theatre, botanic
- garden, zoo…etc
- Not less than 100 acre
- 100,000 need 883 acres, 21 acre parking

### City Park Palestine Al Istiqlal park

### THE NATIONAL PARK

PROJECT INTRODUCTION

### RAMALLAH, PALESTINE

THE TOTAL AREA OF THE SITE IS 250 DONUMS OF WHICH 160 DONUMS ARE DEDICATED FOR THE NATIONAL PARK AND 90 DONUMS FOR A COMMERCIAL AREA

### PARK COMPONENTS

The National Area National Plants Reserve of Palestine. Picnic and Barbeque Area. Camping Area. Bird's Garden. The Built up Area Restaurant & Cafeteria. Multi-Purpose Hall. Administrative Building. Amphitheater. Al-Itha'amuseum.

PLAZA

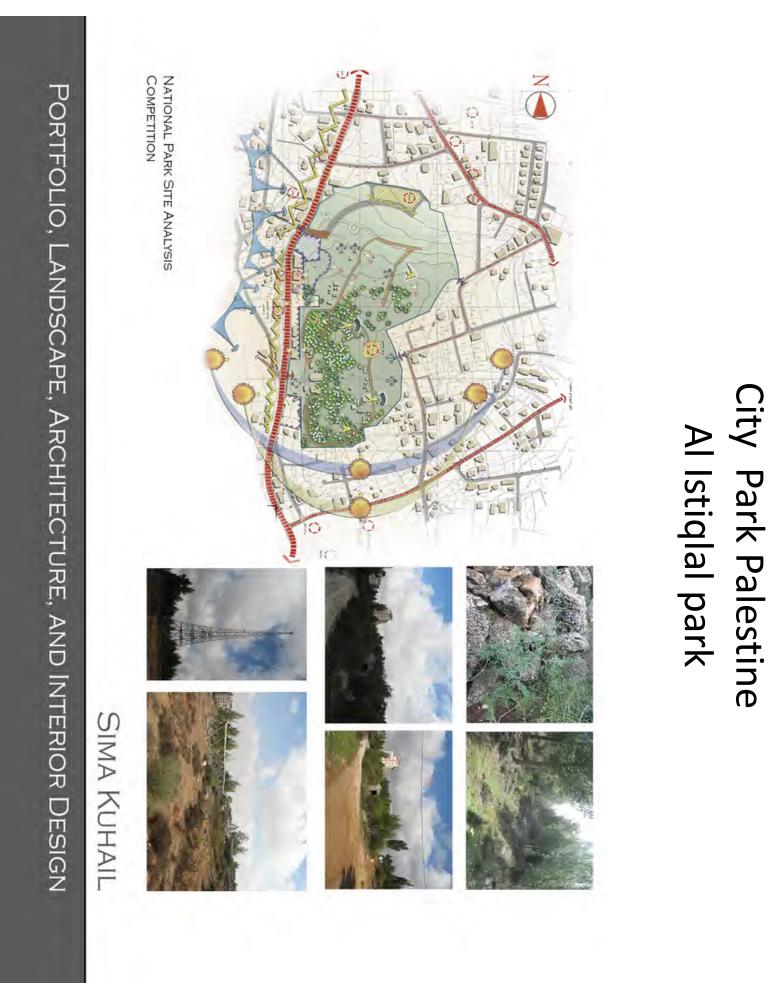
**TRADITIONAL MARKET** 

### AIMS AND DESIGN CONCEPTS:

TO DEVELOP A MASTER PLAN FOR THE NA-TIONAL PARK (AL ITHA'A) AS AN INTEGRAL PART OF THE CITY MASTER PLAN. TO CREATE AN ENVIRONMENTAL FRIENDLY PARK BY PRESERVING THE NATURAL LIFE IN THE SITE AND IMPLEMENTING ENVIRONMEN-TAL SYSTEMS.

TO USE LOCAL DURABLE MATERIALS AND BUILDING TECHNIQUES AIMING AT REDUCING MAINTENANCE AND RUNNING COSTS. TO DESIGN WITH MINIMAL INTERFERENCE IN THE SITE AND LEAST BUILT UP AREAS. TO CREATE DIVERSE AND ENJOYABLE SPACES AND ACTIVITIES THAT SHOULD EN-

HANCE SOCIAL INTERACTION.



### RAMALLAH, PALESTINE

### CLIENT

MINISTRY OF PUBLIC WORKS & HOUSING

### FIRM

JOINT VENTURE: HABASH CONSULTING ENGI-NEERS, SAKAKINI ENGINEERING CONSULTING OFFICE, BILAL HAMMAD ARCHITECTS & ROYAL FOR ELECTROMECHANICAL ENGINEERING

### JOB

SOFT & HARD LANDSCAPE, DESIGN OF BUILD-& INGS, PLAZAS, AMPHITHEATER PLAYGROUNDS

> The Idea of Turning "Al Itha'a" site into a National Park was first introduced by Ministry of Public Works & Housing. This Park Should Constitute as an Outlet for the District of Ramallah in Particular and the Palestinian nation in General. This Park would be the first of Its kind in Palestine The Project was first proposed as a Nationwide Competition in which I partici-Pated as a member of Habash Consulting Engineers team. We were awarded first PRIZE

NOTE: AL ITHA'A MEANS BORADCASTIN, THE SITE USED TO HOST 3 IMPORTANT



## THE NATIONAL PARK

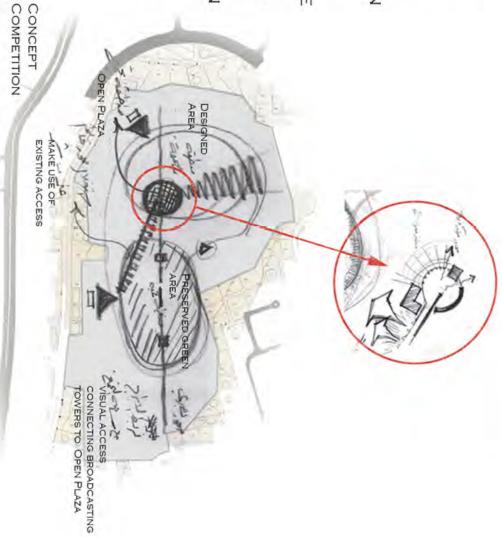
COMPOTITION

### RAMALLAH, PALESTINE

### **DESIGN APPROACH:**

Make use of Existing site components. Minimum Intervenstion Environmental Friendly Design Minimize Built up Area Minimize Operating Costs Create Self Generating Income Solutions Preserve Existing Green Areas New Buildings Are to be con-Structed on tree Free Areas In The Site

CREAT CONNECTIONS BETWEEN THE THREE BROADCASTING TOWERS ON SITE.

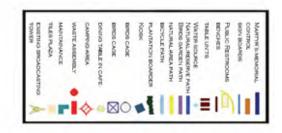




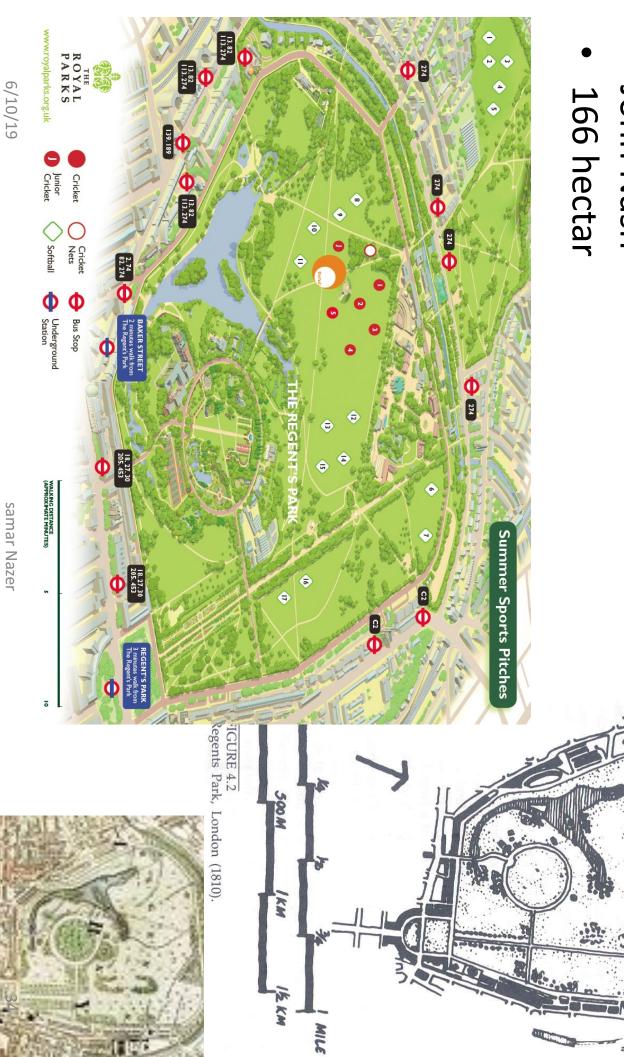




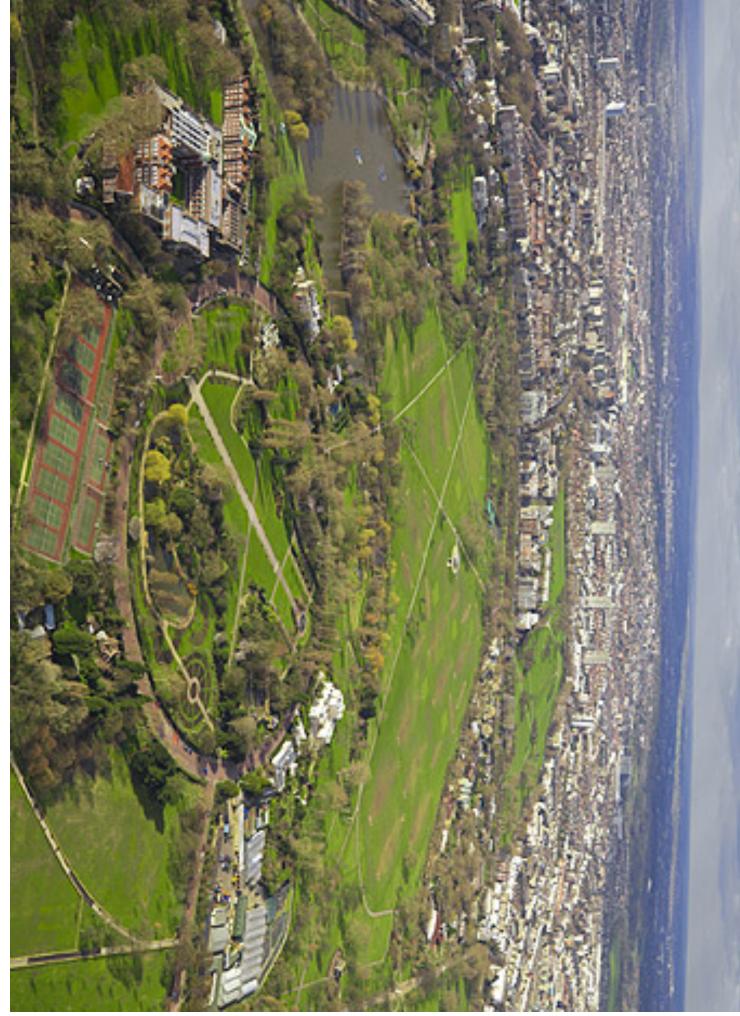


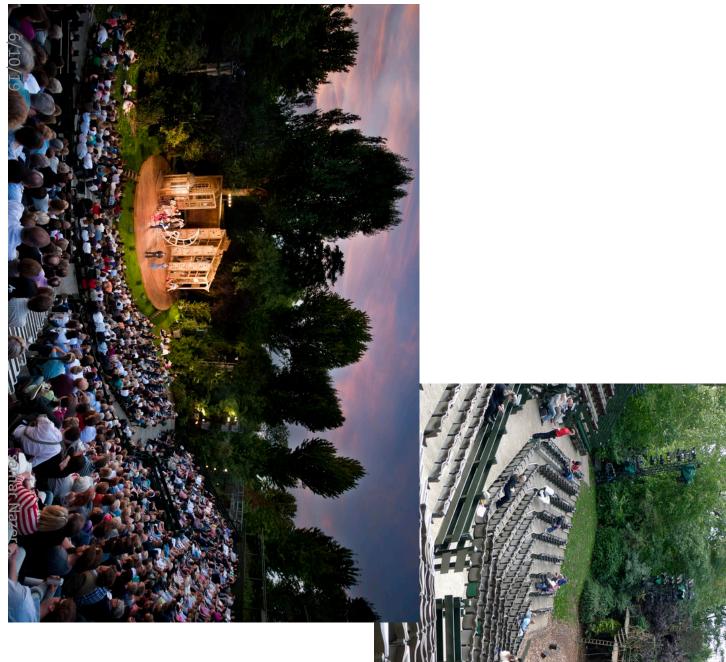


















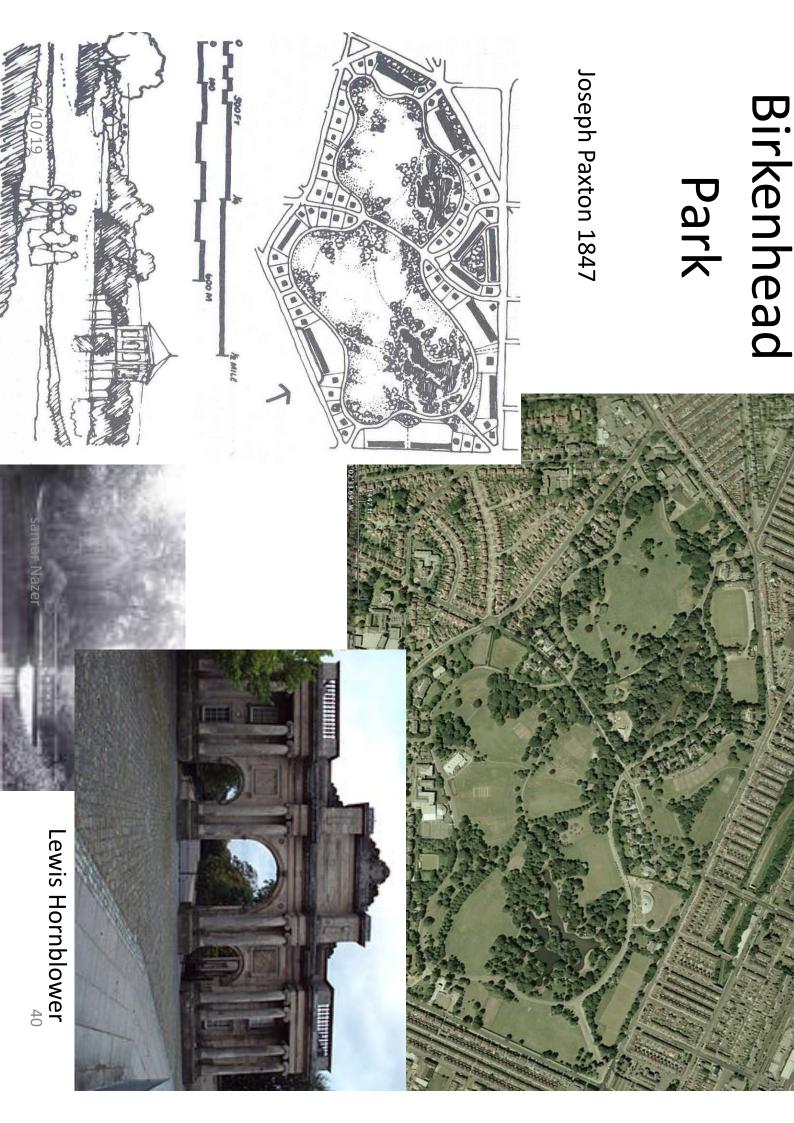


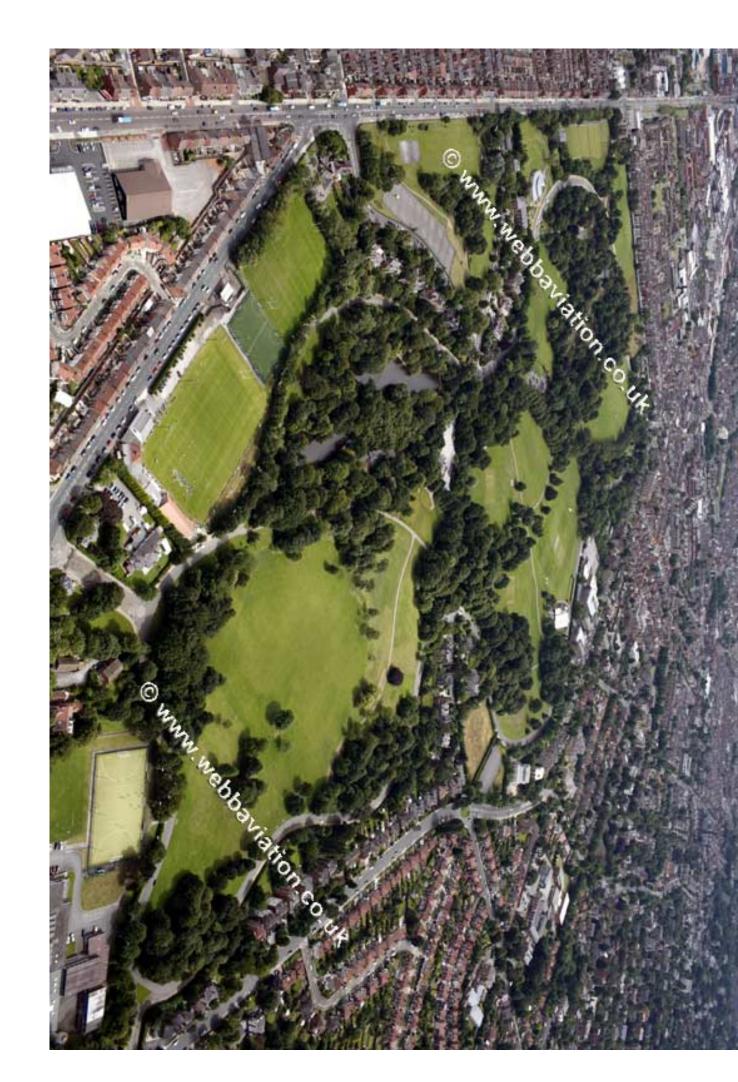














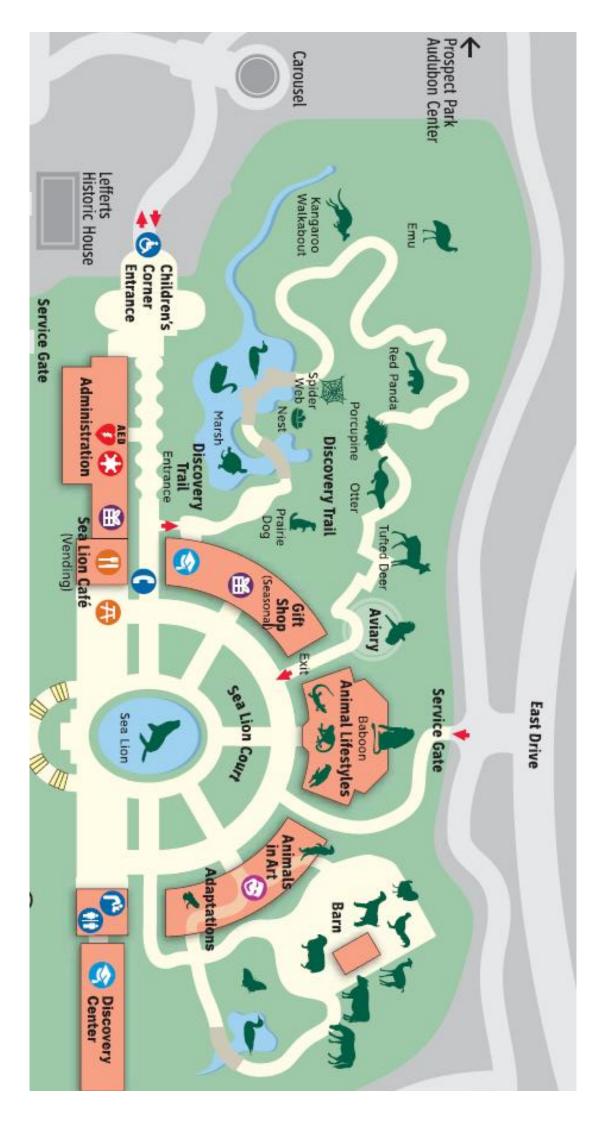
# Prospect Park

- This is a rare 1869 edition of Calvert Vaux and Frederick Law Olmsted's map of Prospect Park, Brooklyn.
- The map includes pathways, lakes, buildings, individual trees, rocks.
- The streets and avenues surrounding the park.
- Botanical garden and zoo
- Wedding activity





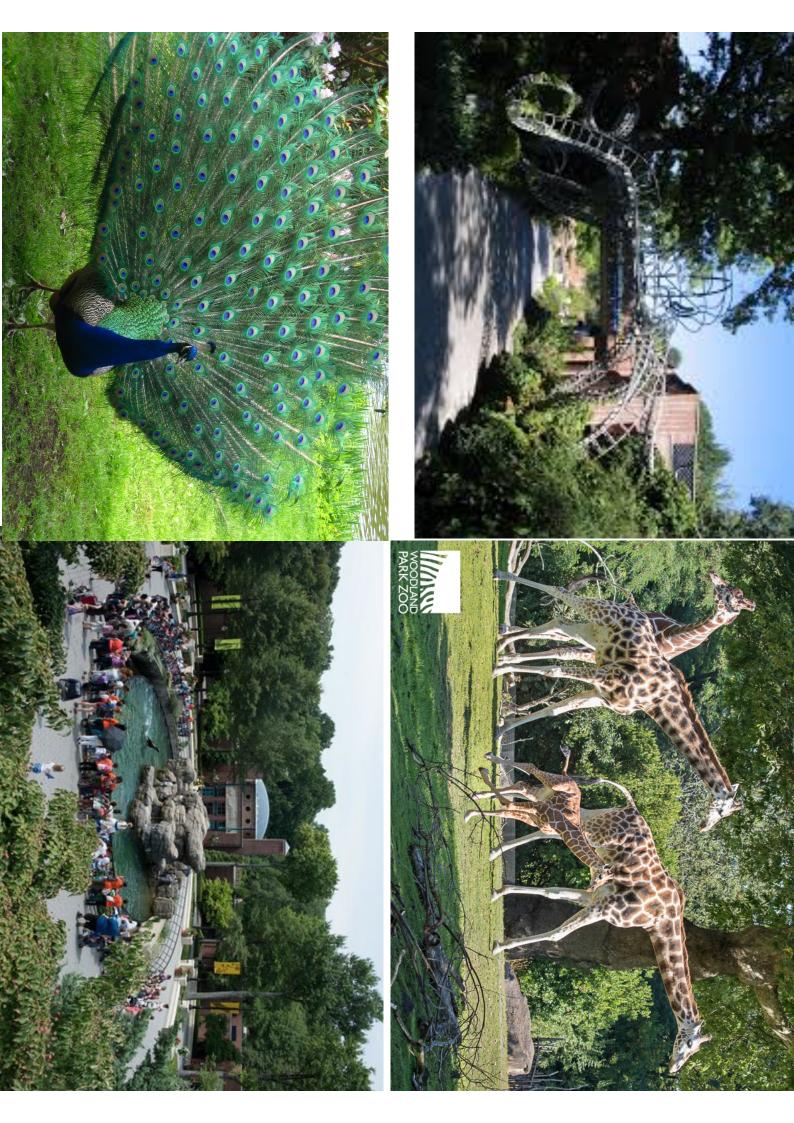










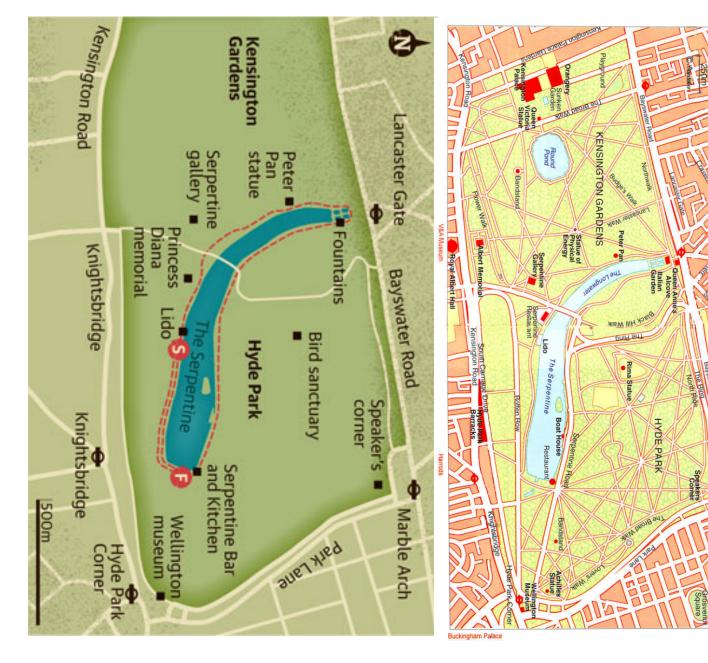


## Hyde park

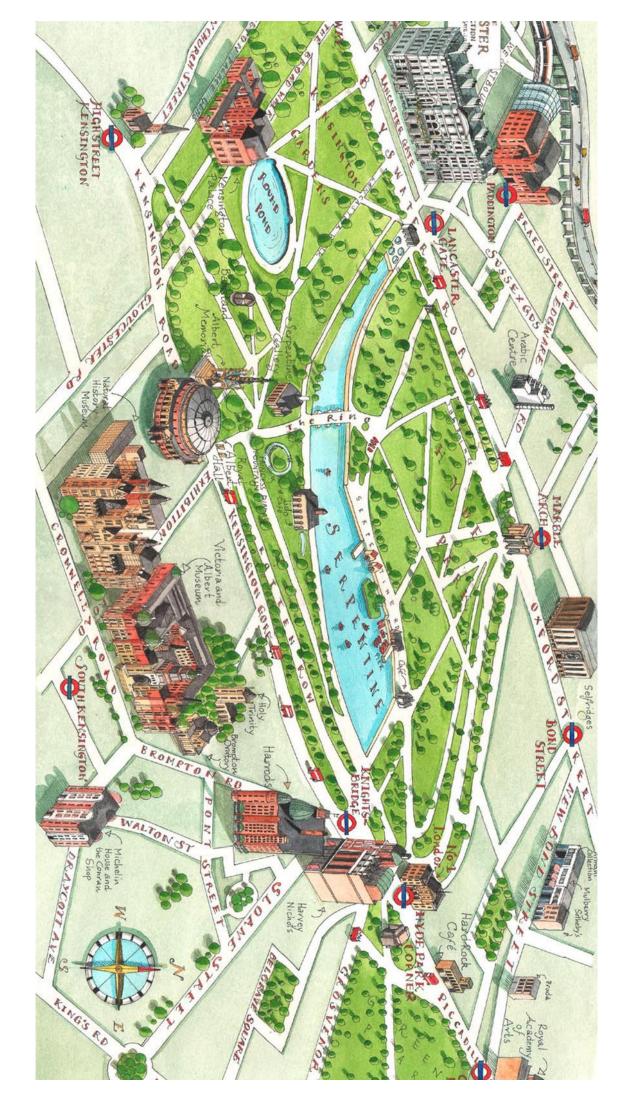
Kensington Gardens

Marble

Henry VIII 1536 Open to the public 1637













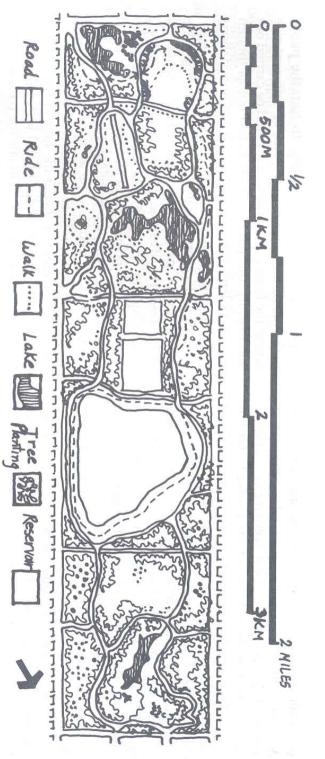


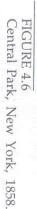




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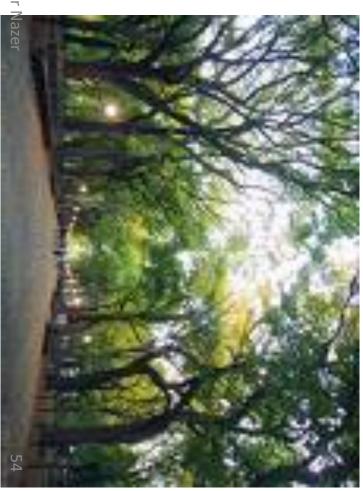
# Central park New york



























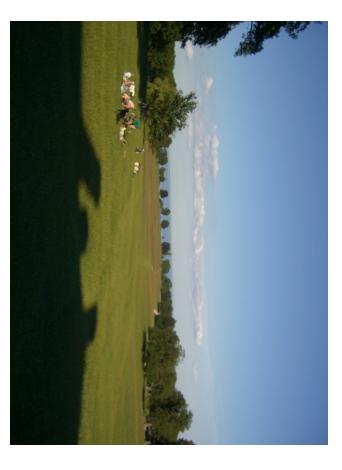




# Deer Park, Copenhagen









6/10/19



## English park, Copenhagen







samar Nazer











Point Lines



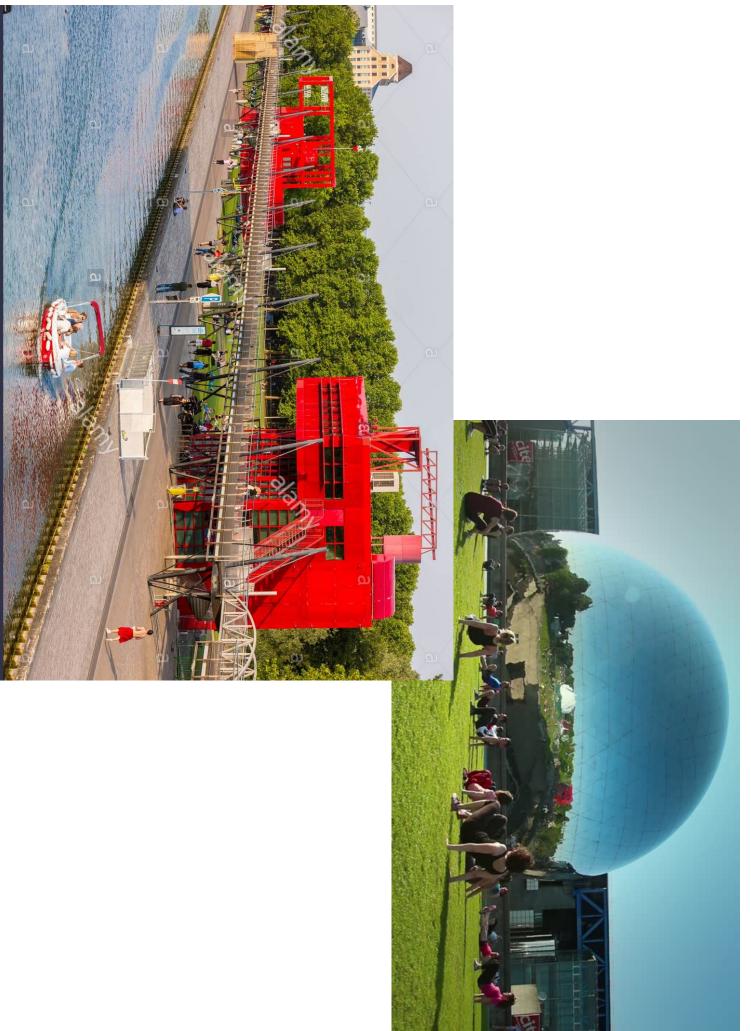


6/10/19





Bernard Tschomi



F25B0N www.alamy.com

## National park





## Types of plants

Identification of plants Family Genera Species Subspecies

> Olea europea Family :oleaceae Genera: olea Species: europea

## The Botanic Naming of plants

- Family: similar nature, end by "aceae" Fagaceae, Legumenaceae, Rosaceae.
- Genus: "plural Genera", similarities in fruit and flowers but not identical representation. Prunus, Rosa, Fagus.
- Species: " plural species" subdivisions of genera different in leaf shape, flower color, fruit size. " lower case letter "
- subspecies

### Rosa grandiflora, Prunus armeniaca

- Variety: "cultivated variety" Magnolia grandiflora "Cairo"
- Hybrid: -X- "before genus hybridization between two genera, after the genus hybridization between two sp. Of the same genera.

Magnolia X soulangiana





Magnolia grandiflora

# Types of plants

- Trees
- Shrubs
- Climbers
- Perennials
- Annuals and biennials
- Bulbs

they can be aquatic or terrestrials

#### Trees and shrubs

Conifers and broadleaves

# Conifer

- needle-leaved or scale-leaved.
   Some not (Ginko biloba)
- most of them are evergreen. Some not (Larix sp.)
- cone-bearing





### Pinus pinea



#### Juniperus



#### Cupressus sempervirence



#### Cedrus atlantica





### Thuja oreintalis

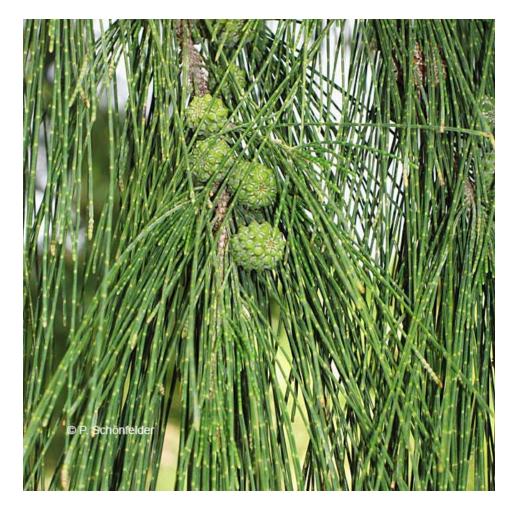


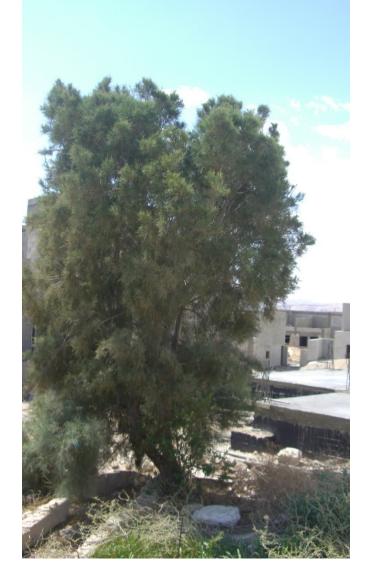


### Broadleaves trees and shrubs

- Ever green or deciduous
- Flowers : catkins or flowers
- vary in sizes and forms
- Broad leaves vary in shape and size and color, some not like Casuarina
- Growth; fast or slow, columnar or domed, pendulous, fan shape
- Harsh weather, cold
- Pollution
- Can be pruned for topiary

#### casuarina







Platanus orientalis



**Catkin flowers** 



Salix alba

Salix babylonica



Salix alba

#### Brachychiton populneus







Brachychiton discolor



Brachychiton acerifolia

#### Cersis siliquastrum







### Prunus persica (Peach)



#### Phyionix dactilifera





#### Calistemon viminalis

## Cedrus libani





# Climbers

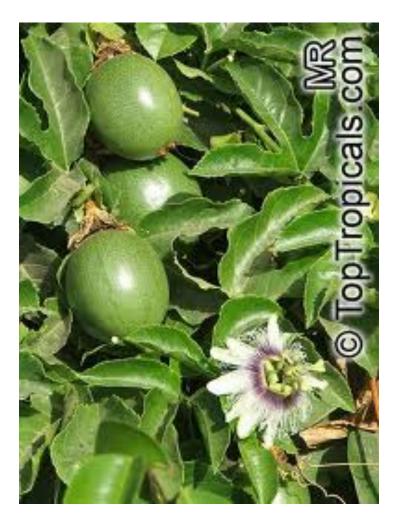
- Spread on ground or climb on walls
- Evergreen or deciduous
- Some has small root on branches to help to climb
- Grow for the beauty of leaves or flowers
- Use in pergolas, cover walls, gates, windows...etc,
- can be pruned to change habit become as shrub
- Fragrant flowers

#### Bougainvillea





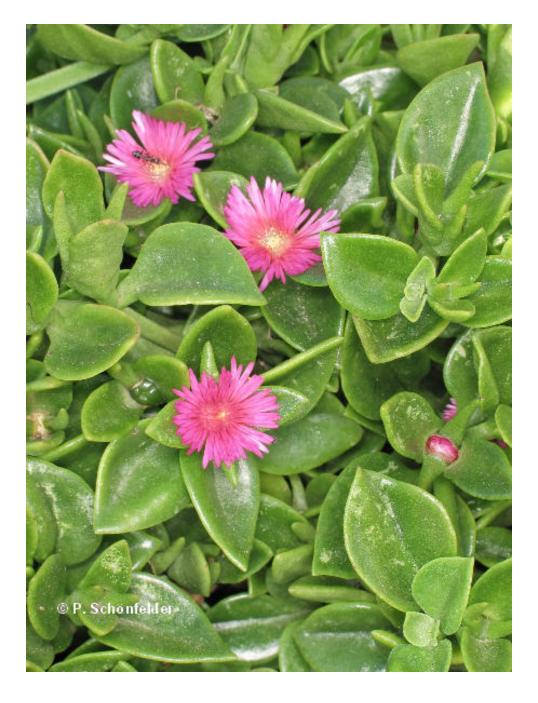
#### Passiflora edulis



#### Passiflora auctifolia



#### Aptenia cordifolia

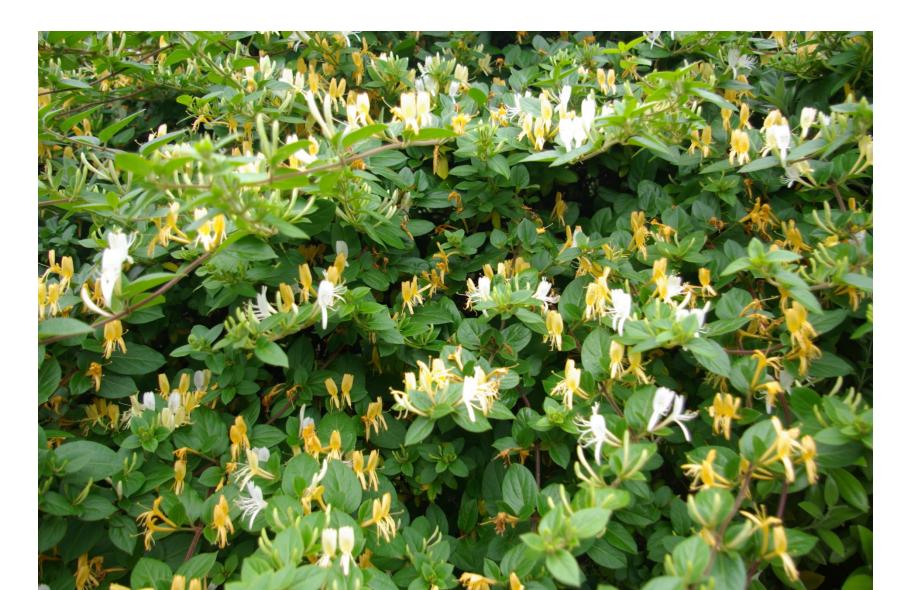


#### Hedra helix





#### Lonicera japonica







# **Requirement of plants**

- Light
- Water
- Air
- Nourishment
- Temperature, hardiness
- Soil
- spacing

# light

- natural light from sun for photosynthesis
   Full shade from buildings,
  - deep shade from dense foliage,
- half equalized proportion of full sun and shade
  - -light , filtered shade

#### water

- All plants need water
- From rain or irrigation
- Obtained through soil, spray the leaves, dew
- Drought resistance plants best for semi- arid and arid areas

## Nourishment and fertilizers and pesticides

- Nitrogen stem foliage
- Phosphorous roots
- Potassium flowers and fruits
- Iron, magnesium, boron, copper
- Found naturally in the soil from parent rock
- or by adding fertilizers
- Be careful in using fertilizers
- Pesticides for aphids and disease

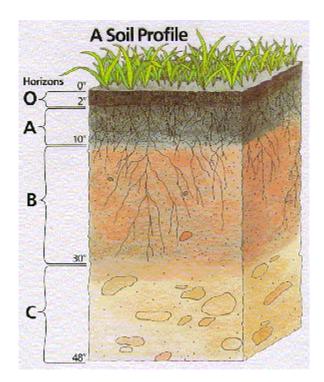
#### temperature

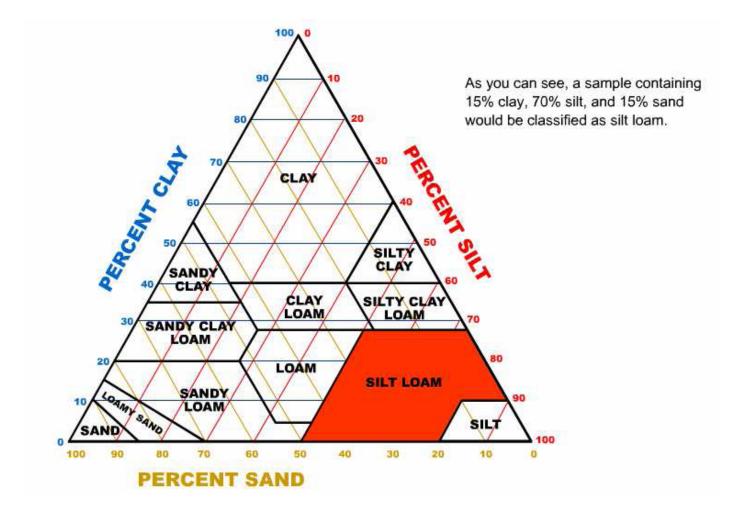
• Hardiness (resist cold weather)

# Soil

• Sand, silt, clay

- Top soil , humus -nutrient organic material
- Sub soil reservoir (parent rock)
- ph





# Air

- Air in the soil, availability of oxygen in the soil
- Water logged, clay soils are oxygen- deficient
- Loose soil

#### spacing

• Depend on spread

# Ordering and Planting

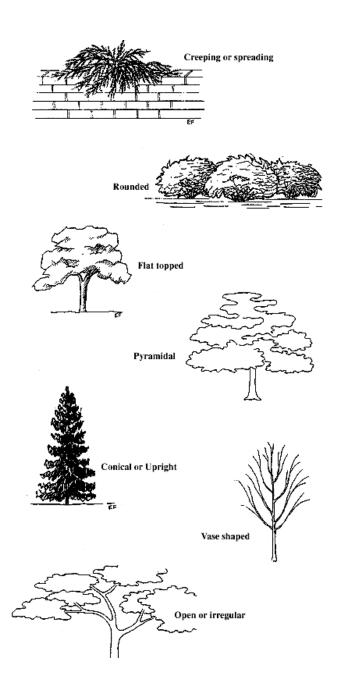
- Ordering samplings or seeds from available nurseries
- For planting prepare the soil
- Digging hole with suitable size , plant and water

#### maintenance

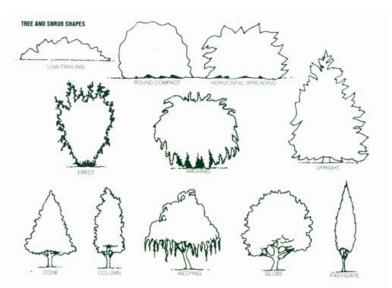
• Care, pruning, watering, repotting

## **Plant Properties**

- •Size
- •Form
- •Habit
- •Color
- •texture
- •Bark
- •berries

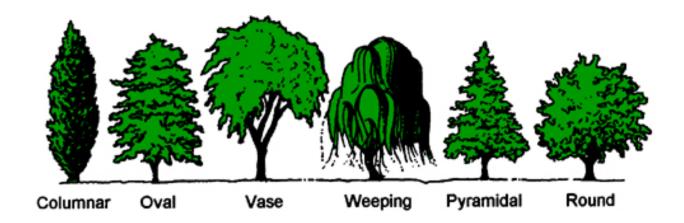


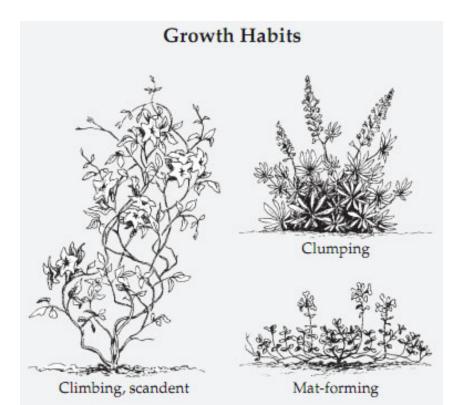
# Form



## habit

- An upright, reasonably large [more than (3-4) 5 metres tall] woody plant, usually with a single stem. (trees)
- An upright (or spreading horizontally and then becoming upright) multiple stemmed woody plant which is generally smaller than a tree (usually less than 5 metres tall). **ascending**
- A woody plant with branches spreading along the ground or lying flat on the ground, or spreading along the ground for most of its length but with tips turning upwards. **Prostrate**
- Woody or herbaceous plants with stems that are not selfsupporting, but are climbing or straggling on some support.
   Climbing, straggling
- Herbs (or rarely shrubs) with a whorl of leaves (by contraction of stem internodes) at the base of the stem, or non-woody, nonclimbing plants. Rosette-forming or herbaceous (non-climbing)





#### texture









## color















## berries





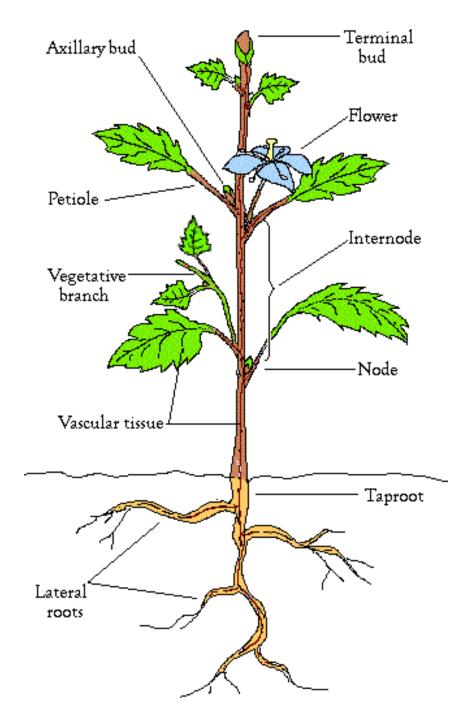






## Parts of plant

- Root
- Stem
- Branches
- Leaves
- Flowers
- Fruits
- seeds



#### Roots

- Tap, Fibrous, Bulbs, Rhizomes
- Horizontal spread, vertical (deep)
- function

#### stem

- function
- Bark texture











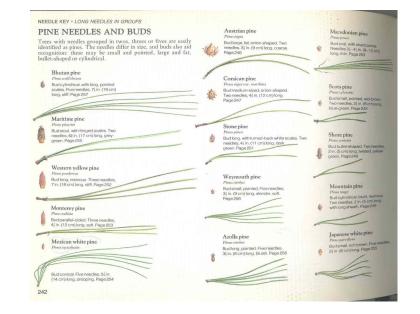




leaves







#### branches



## Flowers Rosa sp.



#### Pittosporum tobira



#### Prunus amygdalus Amygdalus comunis







Wisteria

## fruits

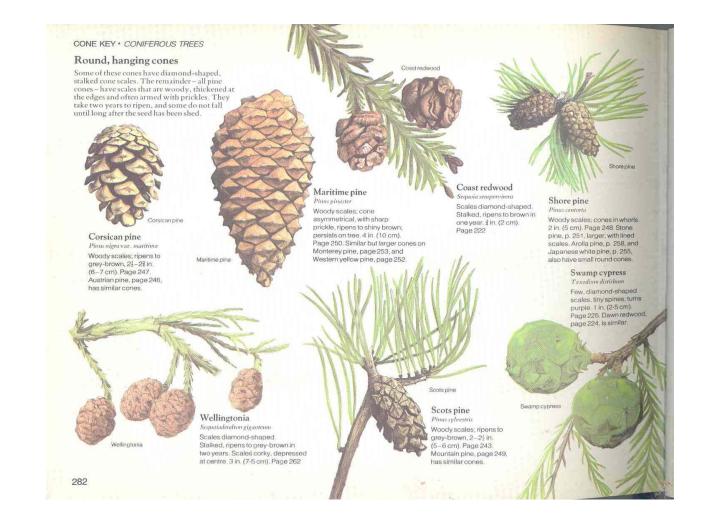














#### seeds







# Housing

a house becomes housing when it is thought of in multiple, either individual houses, raw houses, or apartments.
Relationship of open space for public and private use with the individual domestic unit.
Health safety comfort
17 ch France multiple housing residential squares to live as if in Versailles. Urban squares surrounded by row houses

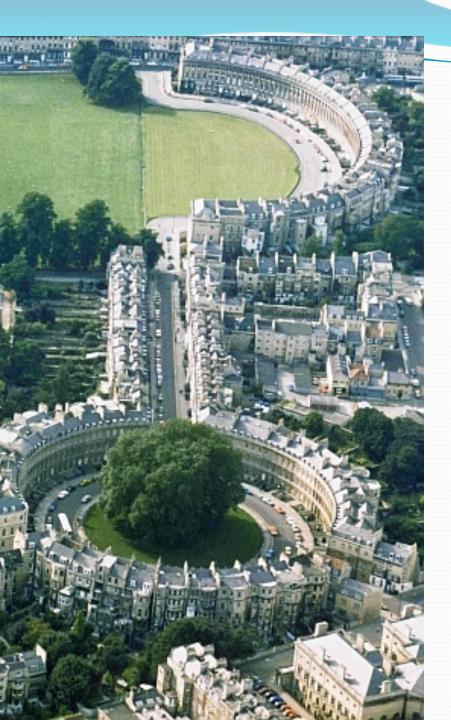
The London Square
The Romantic Suburb
The Company Town
The Garden City
New Town

**Environmental cities** 

#### London square Raw houses

Developed in england in 18<sup>th</sup> ch. Fenced garden in the middle 17<sup>th</sup> ch paved formal arrangement 18<sup>th</sup> refreshing views Shrubs and large trees to screen urban surrounding Fence Symbol of countryside and nature Privacy house back garden, semiprivate garden, sreet (bloomsburry)

forming architectural torits as in the London square and infregents Plate. (Increase was very little architectura demotion. The buildings or other many in the architectura FIGURE 5.2 A London square (eighteenth century).



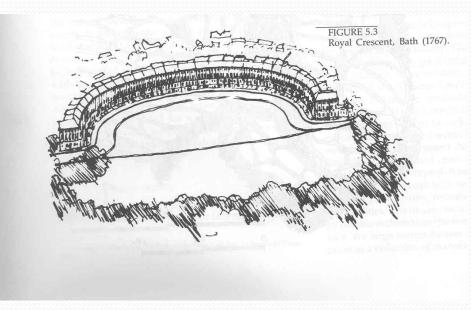
Royal Cresent Bath 1967,1968 John Woods

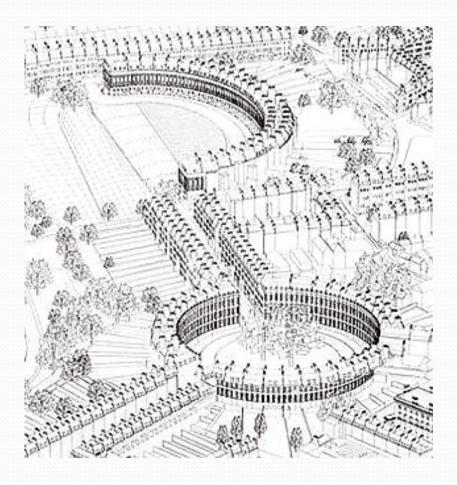
No walls, naturalistic form, public park

- The Circus, originally called King's Circus, was designed by John Wood the Elder, begun in 1754 and completed in 1768
- The Royal Crescent was the masterpiece by the architect John Wood the Younger and built between 1767 and 1774

#### Royal crecsent

#### Kings circus









(Urban Rural Continuum;

types

Chadwick, the park and the city)

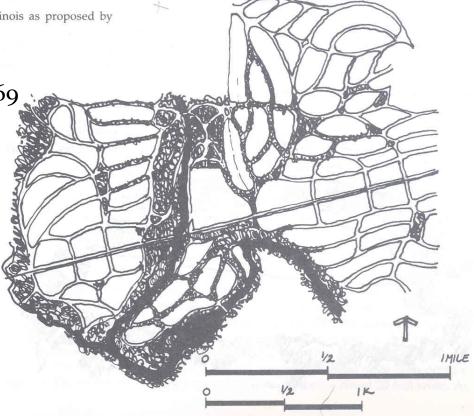
Escape from industrial cities

Contrast to grid pttern high prices wealthy, apply to other Developed by Olmested, Downing, Davis concept city, park, garden

represent the best kind of housing

FIGURE 5.4 Plan of Riverside, Chicago, Illinois as proposed by Olmsted and Vaux (1869).

F. L. Olmsred and Vaux Riverside Chicago 1869 Curvilinear roads irregular shapes parcels Linear park, buildings separated with streets Green landscapes

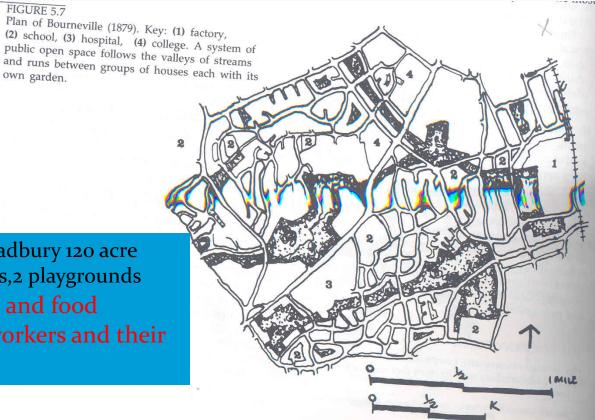




#### Company towns

Port Sunlight near birkinhead 52 acre 24 factory 28 model village Lever house his workers of the soap factory Cheap land water frontage transportation.. no need to walk to country to enjoy and experience beautiful scenery Contrast of slum houses FIGURE 5.7 Concept of romantic suburb Private gardens, public parks, recreation areas, community facilities, clusters look like large manor houses and mansions

Built next to factory Europe and New England Health and welfare of workers provide attractive home to increase productivity



Garden village Bourneville Cadbury 120 acre 16 acres public spaces, 2 parks,2 playgrounds 1⁄4 acre private garden fruits and food Better quality of life for workers and their children

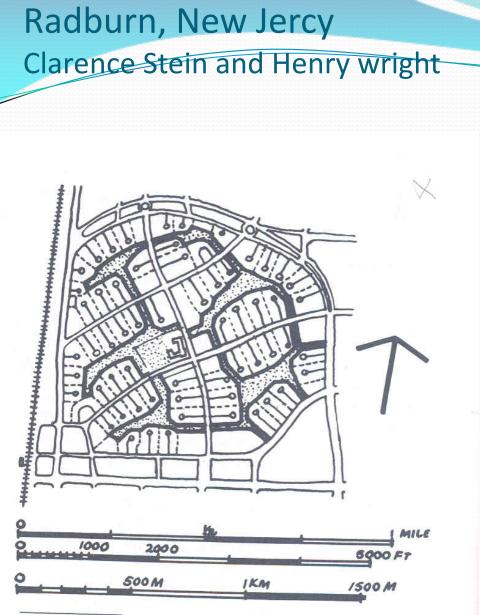
# Garden city

To improve living conditions for workers

- Housing
- Industry
- Shops
- Park, sports fields
- Agricultural land
- Ebenezer Howard 1898, the garden city movement the theory of "community should own the land", elimination of slums and overcrowdness
- City is a series concentric circles, the inner core could be civic center or park, outer green agriculture, between houses and industry. Combine the benefit of the city and the country side outer circle green and agriculture
- Parliament approval, Legislation, financial support 1920's England
- Clarence Stein, Henry Wright (city housing cooperation of NewYork)

### Garden city

Wellwyn garden city Hortfordshire, england Ebenezer Howard FIGURE 5.8 Wellwyn Garden City (1924). AILES Housing Industr Shops



#### FIGURE 5.9

Radburn, New Jersey (1929). A neighborhood of six superblocks.

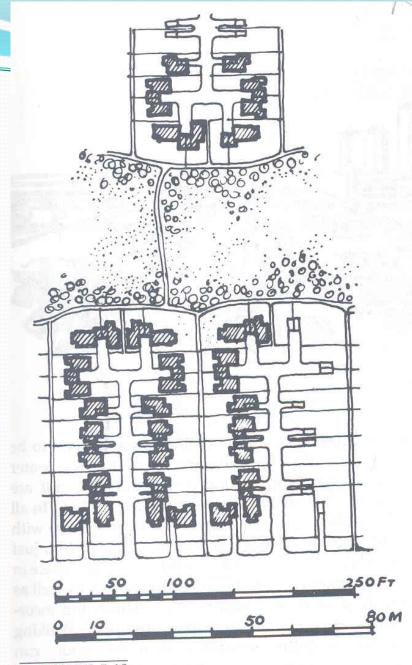


FIGURE 5.10

Radburn, New Jersey (1929). Relationship of culs-de-sac to central green.



### New towns

- Housing
- centers
- Business and industry
- Recreation and open spaces( swimming, fishing, riding, sport facilities, golf
- Highways and roads bus routes
- Boudaries
- Separate pedestrian from vehicles
- Different Housing types



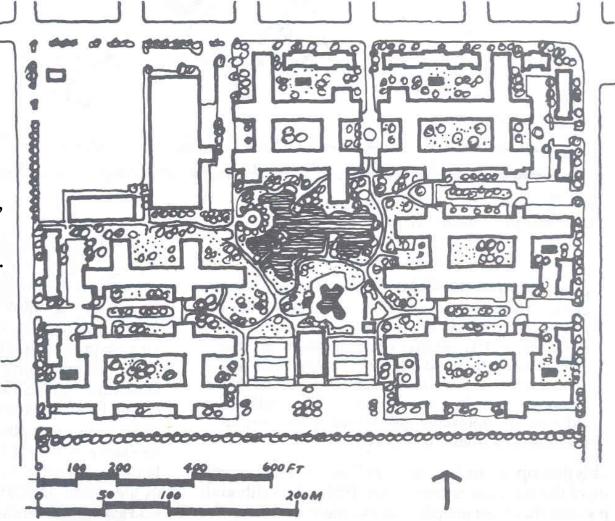




### New town

FIGURE 5.15 Woodlake, California. An apartment complex with a large central park and recreational facility. Wurster, Bernardi and Emmons, architects. Lawrence Halprin, landscape architect.

Architecrs: Wurster, Bernardi, Emmons Landscape Architect: Halprin.



### **Environmental Cities**

Al Masdar: free of carbon

- Light train
- Pedestrian
- personalized rapid transport pods













### **Environmental Cities**

#### • Korea

### Songdo IBD: South Korea's New Eco-City

Kohn Pedersen Fox

- Songdo IBDis located on the waterfront of Incheon, South Korea covering 1,500 acres.
- It is expected to house 75,000 residents, and handle 300,000 commuters.
- 40% of its will be open, green space, park and golf course, and the city will be easily traveled by foot and mass transit.



Central Park, is 100-acre green space, which was modeled after New York City's Central Park, has already been completed. Besides the expansive park, Songdo takes inspiration from many other famous attractions from around the world. Songdo will also include Italianate canals, Savannah-style parks, Parisian boulevards, and a convention center modeled after Jørn Utzon's iconic opera house.

Songdo is also part of the LEED ND neibourhood development program as well as Korean Green Building Certification System (KGBCS





## Palestine

- Housing council
- Cooperative housing
- Private sector
- Al zaytooneh
- alrihan
- Alteereh
- Al Rawabi city





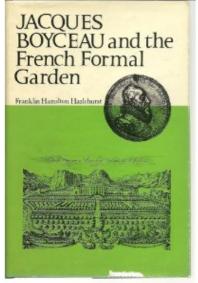
**Jacques Mollet** 

Claude Mollet : gardener to three French kings, Henri IV, Louis XIII, Louis was a member of the Mollet dynasty of French garden designers in the seventeenth century

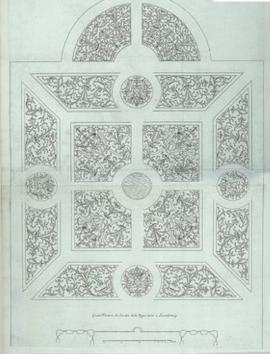
Andre Mollet: Louis III, queen Christina Sweden

### partterre

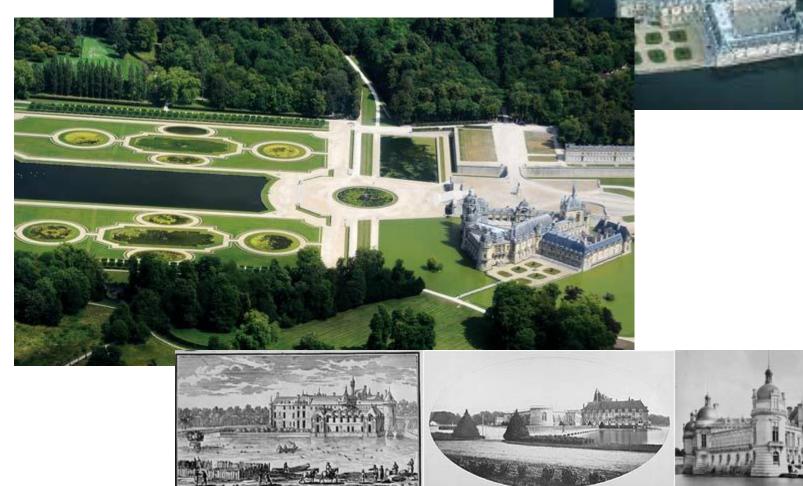
Jacqueau Boyceau developed the art of partterre and theory of garden the ground of Andre Le Notre work







### Chantily



before demolition

after demolition

after rebuild



Jacques Mollet

New chateaus moat became a symbol





44

### Fontainbleau

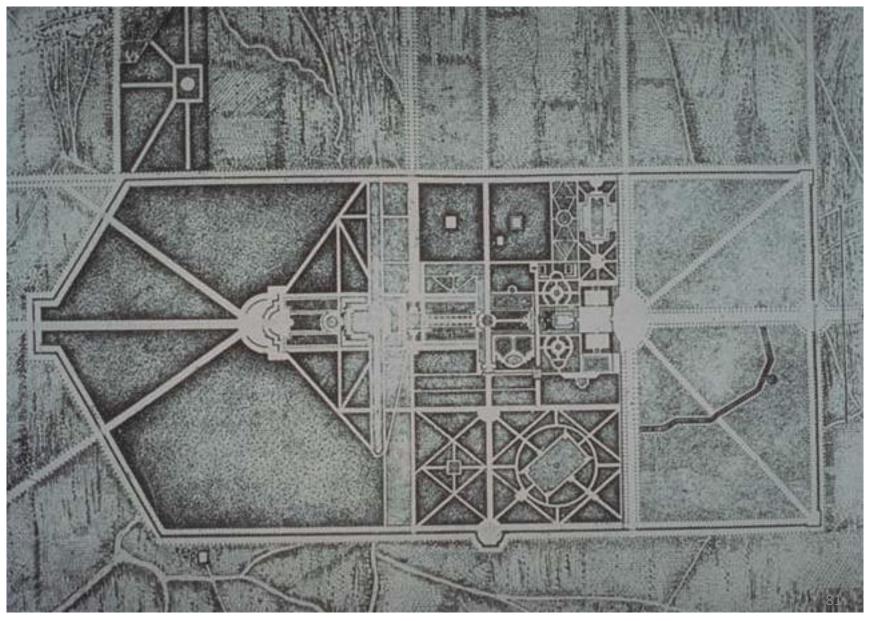
Francis I Moat separate gardens from chateaus







### Vicomte



### Vicomte









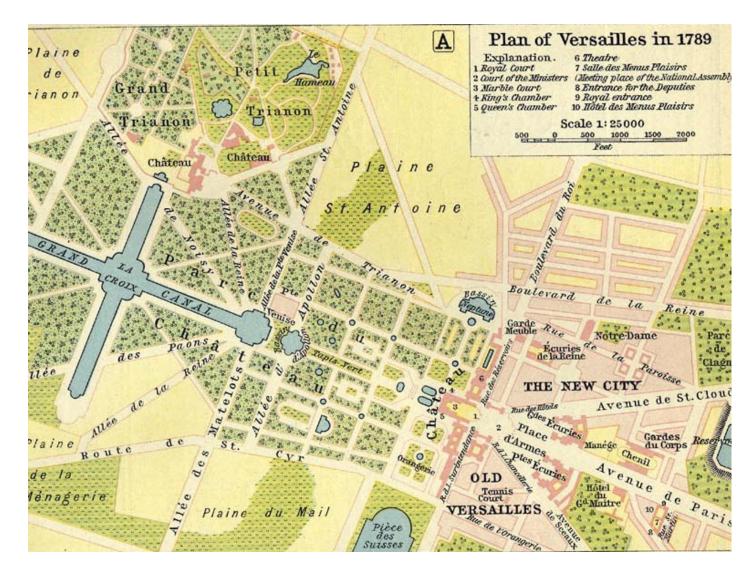








### Versailles



### Versailles





























# England

•Countryside, hills, large fields, winding (meandering) streams important elements in English landscape

•Influence by French gardens, although French garden are not suitable for the democratic English man

•Influence by Italian gardens

•Influence by the orient China and Japan

•Parterre and terraces of the formal garden were replaced with rolling grassland, clumps of trees, lakes, winding rivers and serpentine drivers.

•Romantic movement; direct observation of nature and the principle of painting. poetry, paintings- beauty of nature and landscape

•Picturesque scenery paintings of Claude Lorrain, Salvador Rosa, Nicolas Poussin.

• not actual views, composition of landscape elements mountains pastoral plains rivers lakes, temples, Bridges, Statues, allegorical and symbolic figures...

•Romantic movement emerged as opposed to the classical and formal – beauties of nature and landscape.

•William Kent

•Capability Brown

#### Claude Lorrain painting of Stourhead



# **English Gardens**

knot garden is "a formal garden planted with miniature, permanent hedges laid out in geometric or elaborately scrolling patterns."

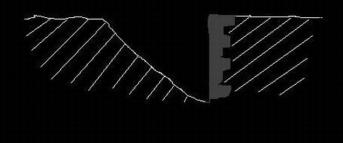
Maze is

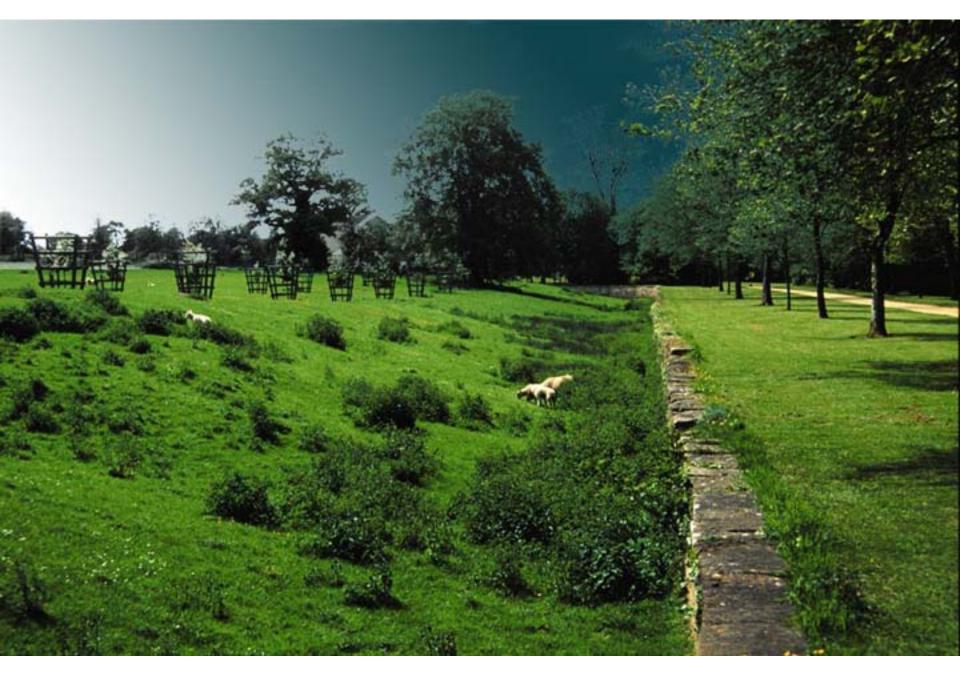






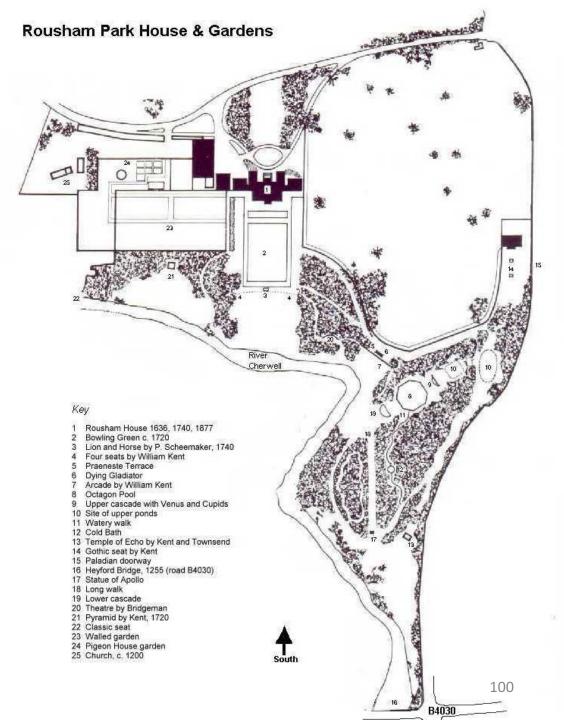
#### **Cross Section of a Ha-Ha**





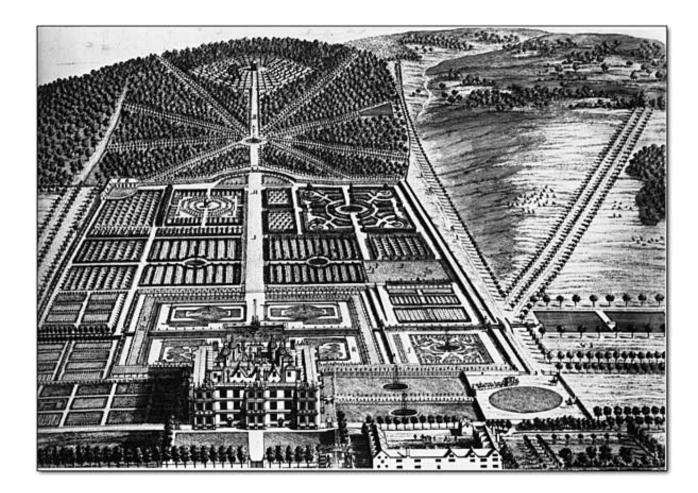
Built 1635 for Dormer family

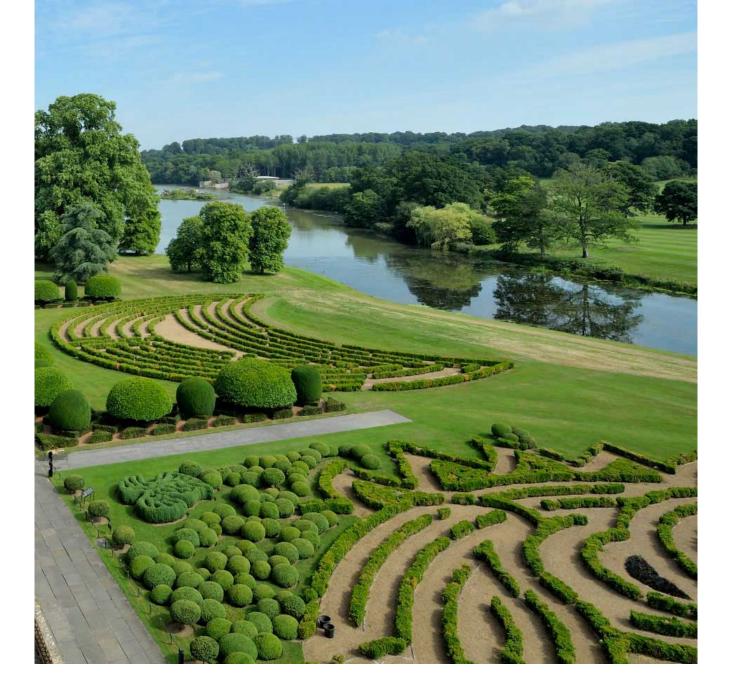
William Kent Oxfordshire





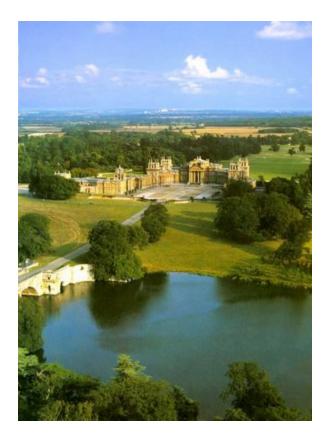
## Longleat





#### Blenheim





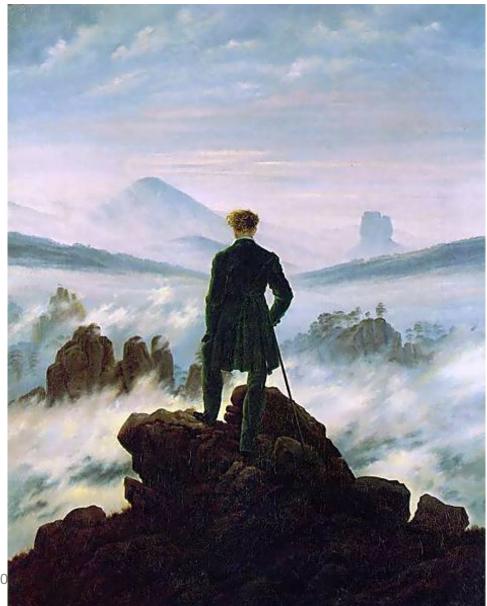
### Meaning of Landscape

Samar Nazer

#### Landscape

- Human (agric., social rice field china, Egypt
- Use, human intervention, Planning





#### landscape

- The word landscape (in German *Landschaft*, Dutch *landschap* and the old English word *landscipe*) combines two words; land means both place and people, and 'scape' means shape (Jackson, 1984).
- To Americans, landscape means a natural scenery, whereas in England a landscape associates people with place (Jackson, 1984; Spirn, 1998).
- In the twentieth century, the words environment and place were frequently used to replace the term landscape (Spirn, 1998).

 "landscape is not a scenery, is not a political unit; it is really more than a collection, it is never simply a natural space, or feature of natural environment; it is a system of man-made space on the surface of the earth. It is always artificial, always synthetic, always subject to sudden or unpredictable change. We create them and need them because every landscape is the place where we establish our own human organization of space and time". Jackson (1984: 156)

 "land becomes landscape when it is described or seen in terms of its physiological and environmental characteristics. Landscape varies according to these characteristics and according to the historical impact of man on it. Thus landscape is a reflection of dynamic, natural, and social systems, which means that landscape is dynamic and ever changing" (Laurie, 1986: 1& 7).

 Olwig (1996; 2005) argues that the definition of landscape has been shifted from landscape as scenery to a landscape as polity and place, where a landscape is conceived as a political and cultural entity.  "Landscapes are the expression of interaction between the natural environment and man's activities who tries to make his environment more suitable for his needs." (Antrop, 1998: 156) • "A zone or an area as perceived by local people or visitors, whose visual features and character are the result of the action of natural and/or cultural (that is, human) factors. This definition reflects the idea that landscapes evolve through time as a result of being acted upon by natural forces and human. It also underlines that a landscape forms a whole, whose natural and cultural components are taken together, not separately." (European Landscape Convention, 2000: Article 1: a)

 "The term landscape ceased to define as a way of seeing, instead becomes potentially expressive of being in the world itself: landscape as an environment, location or setting of engagement and involvement. Landscape as "lifeworld", as a world to live in, not a scene to view." (Wylie, 2007: 149)  The equivalent term to 'landscape' in Arabic is Al Manthar or Al Mashhad, which in the Al-Mawred dictionary is defined as the "beautiful scenery" or the "natural rural beautiful scene". The verb "to landscape" means to change the scenery and make it look better. Manthar is derived from the verb nathar which means to look or see, and *mashhad* is derived from the verb shahada which also means to see. Both Manthar and Mashhad mean landscape (Ba'albaki, 2005). The following words are also used in Arabic: seascape (mashhad Albahar), landscape (mashhad rifi rae'a), scene (mashhad) and scenery (mashhad).

• "In its original meaning, *mandhar* or *manthar* denotes what the eye sees, beautiful or ugly, without limitation, and with reference to a space or to an object that can be a mountain summit or some other elevated point. The word mashhad also evokes landscape but with a second meaning, that of scene. This meaning is very characteristic in miniatures: the figures seem to be performing roles. The landscape is the scene in which the action takes place. This hypothesis arises because the name Mouchahid, spectator, is derived from the verb Shahada: to be a witness of something. This suggests that one is watching a spectacle that could be a natural environment." (Latiri, 2001: 3)

- The Arabic definition also involves a scene that may be part of nature, urban, everyday life and aesthetics. This scene could be pleasing or not. The word Khala in Arabic, meaning nature, is associated with meditation (Latiri, 2001).
- This means that the word landscape in Arabic is not always linked to beautiful scenery; it also implies ordinary landscape.

- Edward said: memory, place, landscape 1999
- William Michell: idolatory 1999
- Samar Nazer: place, space, landscape everyday landscape2008

 "Cultural landscapes are those which have been intentionally modified by humans but nature still plays some role. They range from landscape with traces of human habitation and agriculture, to heavily modified landscapes of intensive agriculture and sparse settlements of indigenous cultures. Cultural landscapes often reflect specific techniques of sustainable landuse, considering the characteristics and limits of the natural environment they are established in, and a specific spiritual relation to nature." (Brady, 2003: 70)

#### Landscape architecture

- Portion of landscape which is developed and shaped by man, beyond buildings, roads, or utilities and up to wild nature, designed primarily as a space for human living(not including agriculture and forestry)
- It is the establishment of relations between building, surfacing and the other outdoor construction, earth, rock forms, water bodies, plants and open spaces, and the general form of the landscape; with primary emphasis on human content. It is the relationship between human beings and three-dimentional outdoor space.

### Practice of landscape architecture

- Evaluation
- Landscape planning
- Landscape design
- Urban design

# Theory of landscape architecture

- Natural process (geology, soil, topography climate, vegetation, ecology,
- Human factor (cultural variation use, appreciation, perception, behavior, needs)
- Methodology (problem defined, factors and variables, given values, computer drawing analytical techniques
- **Technology** (means by which design is implemented and policy depend on, material and machinery
- Values have to be lived experienced, ethic environment quality aesthetic ecology