





CZECH UNIVERSITY OF LIFE SCIENCES, PRAGUE Faculty of Agrobiology, Food and Natural Resources DEPARTMENT OF LANDSCAPE ARCHITECTURE

WORKSHOP: THE PRIVATE GARDEN

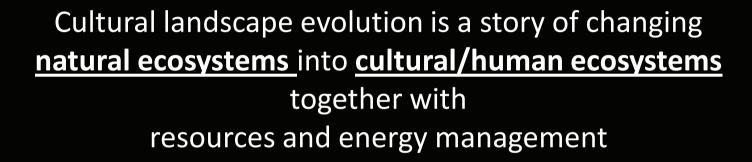
JAN 2014

Luís Paulo A. Faria Ribeiro

LANDSCAPE ARCHITECTURE

Agronomy High Institute – UNIVERSITY OF LISBON

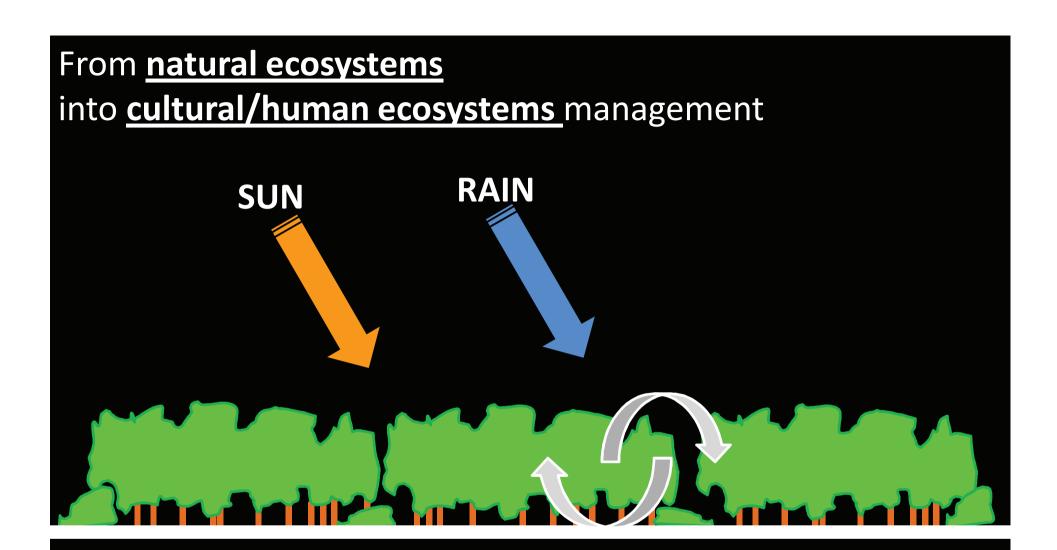


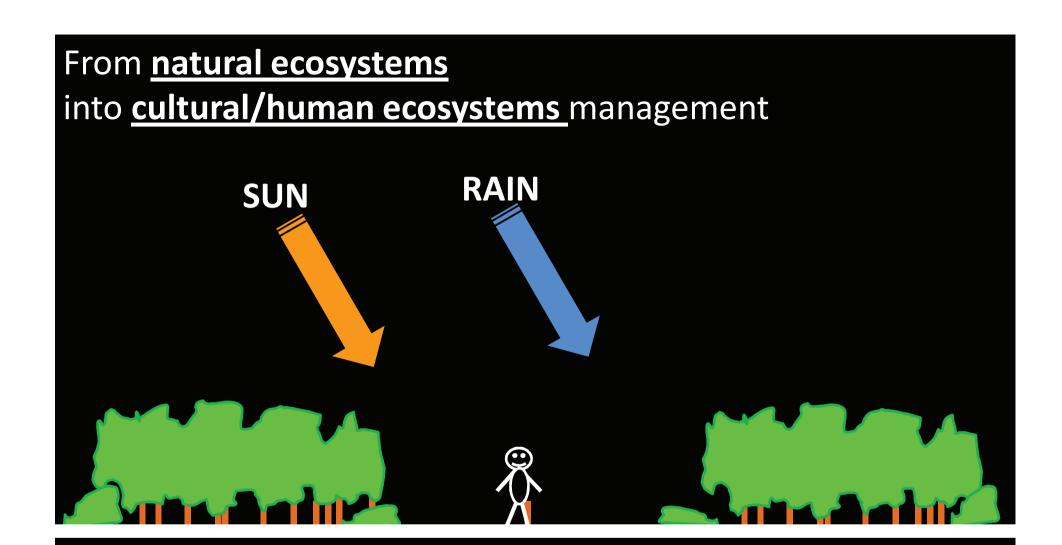


Main differences between:

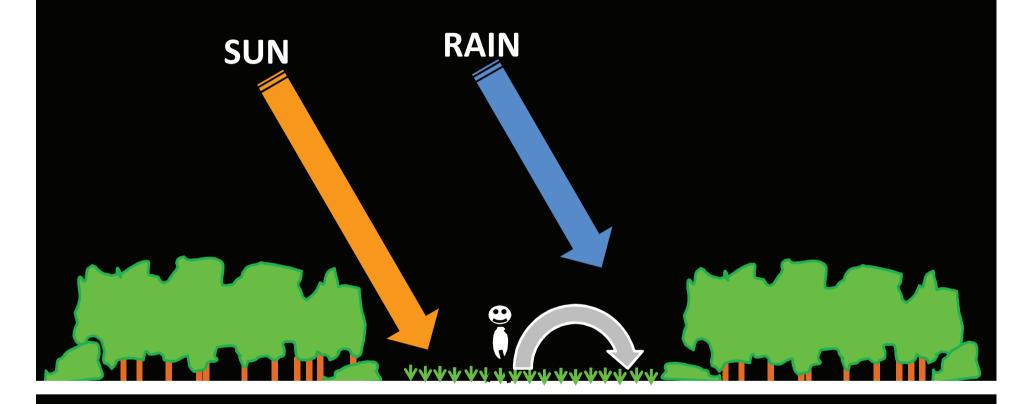
natural ecosystems functioning and cultural/human ecosystems management

	MATURITY	BIODIVERSITY	PRODUCTIVITY	STABILITY	ENERGY INPUT
NATURAL ECOSSYSTEMS	High	High	Stable	High	Sun
HUMAN ECOSSYSTEMS	Low	Low	High	Low	High





From <u>natural ecosystems</u> into <u>cultural/human ecosystems</u> management



ENERGY INPUT

These cultural changes in the natural ecosystems led to:

- Increase of production
- Appearance of different land/landscape patterns
- Increase of population
- Trade
- And eventually RECREATION; CONTEMPLATION; ART

Energy management consequences

(Smill, 1991, p.239)

	ENERGY INPUT (Gj/ha)	FOOD HARVEST (Gj/ha)	POPULATION DENSITY (PERSONS/Km2)
Hunter-gatherers	0,001	0,003-0.006	0,01-0,9
Pastoralism	0,01	0,03-0.05	0,8-2,7
Shifting agriculture	0,04-1,5	10-25	10-60
Traditional farming	0,5-2,0	10-35	100-950
Modern agriculture	5,0-6,0	29-100	800-2000

Beginning of cultural landscape

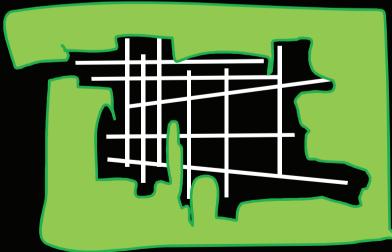
Characterized by:

- Clearings / openings in natural ecosystems
- Diverse patterns according to ecology and culture

Pasture based >>>> circular and round patterns communities

Agricultural based >>>> orthogonal/euclidian patterns

communities





Natural ecosystems: Rain forest, Gabon



Natural and cultural ecosystems: Gallery forest and farm/pasture land in Gabon



Cultural ecosystems: Pasture and shifting agriculture, Kunene, Angola



Cultural ecosystems: Pasture and shifting agriculture, Kunene, Angola



Natural ecosystems: Laurissilva forest, Madeira Island, Portugal



Natural resources management: water canals for agriculture, Madeira Island, Portugal



Cultural ecosystems: agriculture terraces, Madeira Island, Portugal



Cultural ecosystems: agriculture, S. Miguel Island, Azores, Portugal



Cultural ecosystems: agriculture, and gardens, S. Miguel Island, Azores, Portugal



Cultural ecosystems: Terra Nostra Park, S. Miguel Island, Azores, Portugal

HYPOTHESIS

The sense of survival, security and development associated to these clearings for human activity in the natural ecosystems, influence the concept of Paradise

The increase of production and population led to trade, and development of art and spiritual dimension

Art expression associated with outdoors and land patterns

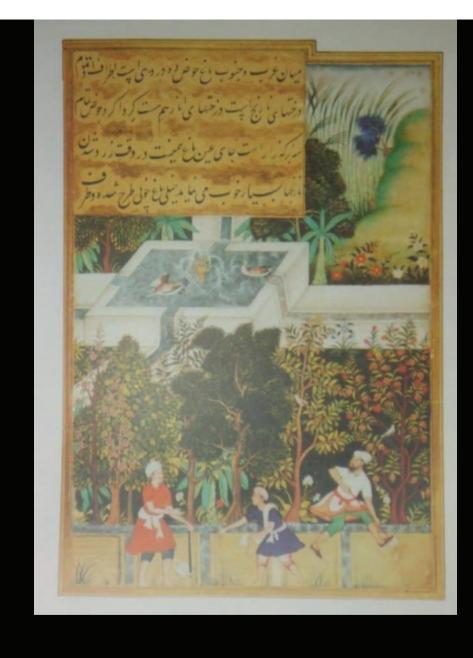
GARDEN ART

FROM CULTURAL LANDSCAPE EVOLUTION INTO PRINCIPLES FOR GARDEN DESIGN

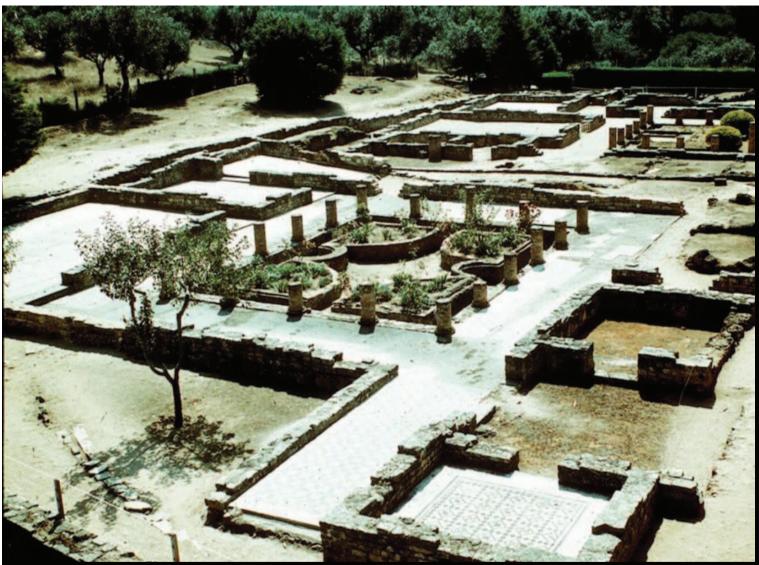
- 1. Sense of order
- 2. Sense of place dimensions or enclosure
 - 3. Visual perception
 - 4. Sense of comfort and security
 - 5. Sense of playful /surprise / mistery

FROM CULTURAL LANDSCAPE EVOLUTION INTO PRINCIPLES FOR GARDEN DESIGN

1. Sense of order



The four rivers of the garden of paradise



Roman gardens, Conimbriga, Portugal

Roman gardens, Conimbriga, Portugal



Tivoli gardens, Italy

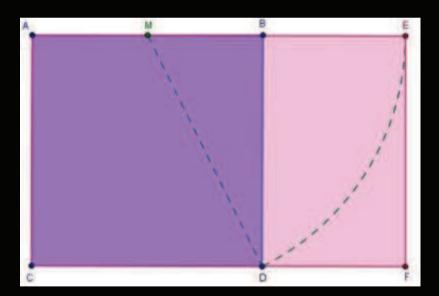


Stourhead Park,, England

FROM CULTURAL LANDSCAPE EVOLUTION INTO PRINCIPLES FOR GARDEN DESIGN

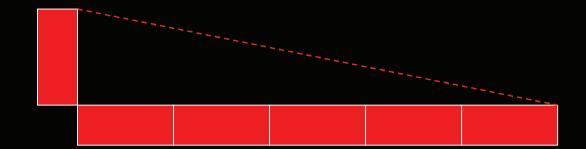
2. Sense of place dimensions or enclosure

GOLD NUMBER



VISUAL PRESENCE OF A VERTICAL ELEMENT (BUIDING FACADE)

UNTIL 3 TO 5 TIMES ITS HIGH



ENCLOSURE / OPENNESS

> 1 / 1 »»»»» CLAUSTROPHOBIA

1/3 »»»»»»» PLEASANT ENCLOSURE

1/5 »»»»»» LIMIT FOR SENSE OF ENCLOSURE

< 1 / 5 »»»»»» SENSE OF AGORAPHOBIA

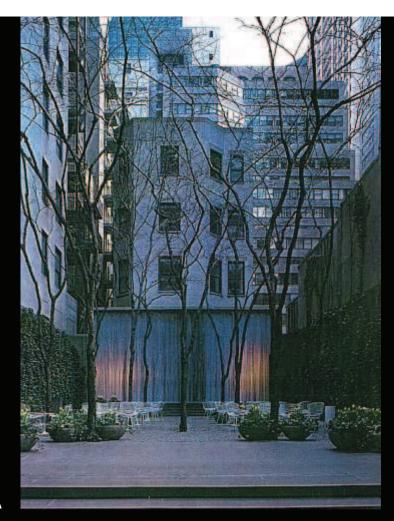
FROM CULTURAL LANDSCAPE EVOLUTION INTO PRINCIPLES FOR GARDEN DESIGN

3. Visual perception

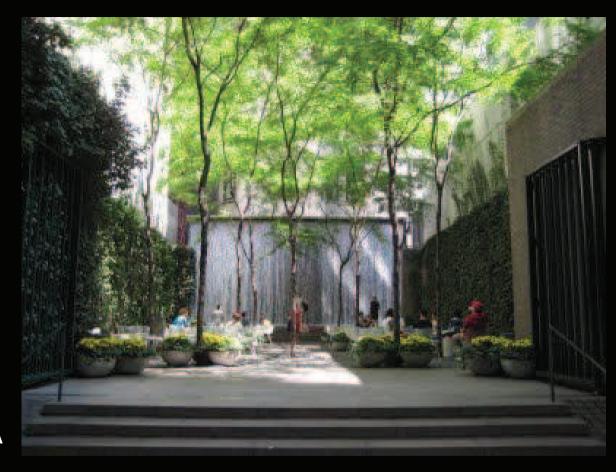
- Pleasant sensation when looking faraway - Pleasant sensation when looking order - Pleasant sensation of seeing without being seen

SCENOGRAPHY AND VERTICAL COMPOSITION

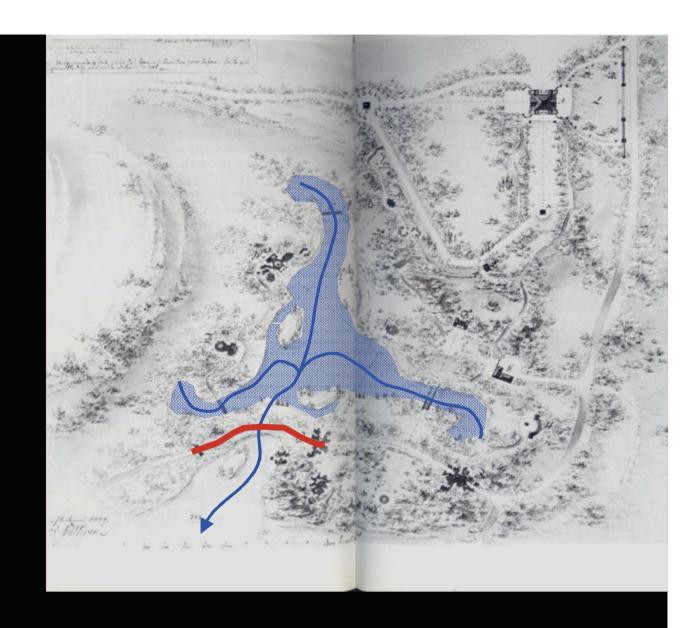
- FORM AND VOLUME BALANCE (SYMMETRY OU ASYMETRY)
- CRIATION OF VISUAL PLANS FOR VISUAL LIMITS
- CRIATION OF SUCCESSIVE PLANS >>> ILUSION OF DEPTH AND DISTANCE
- CRIATION OF COVERAGE PLANS >>> DECREASE EXCESSIVE VERTICALITY OF NEARBY ELEMENTS



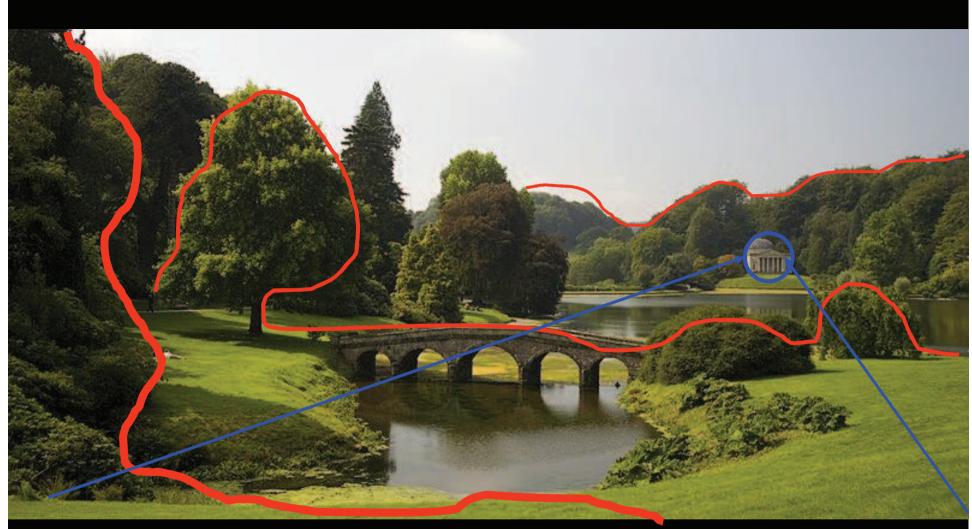
Palley Park, New York, EUA



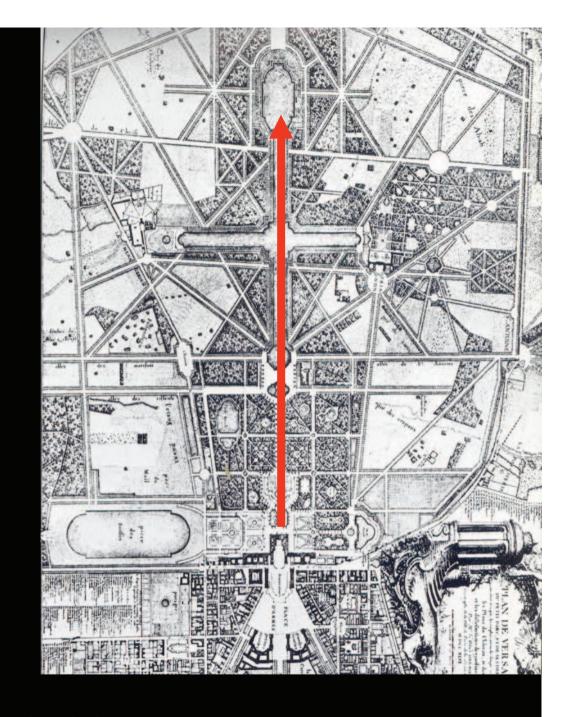
Palley Park, New York, EUA



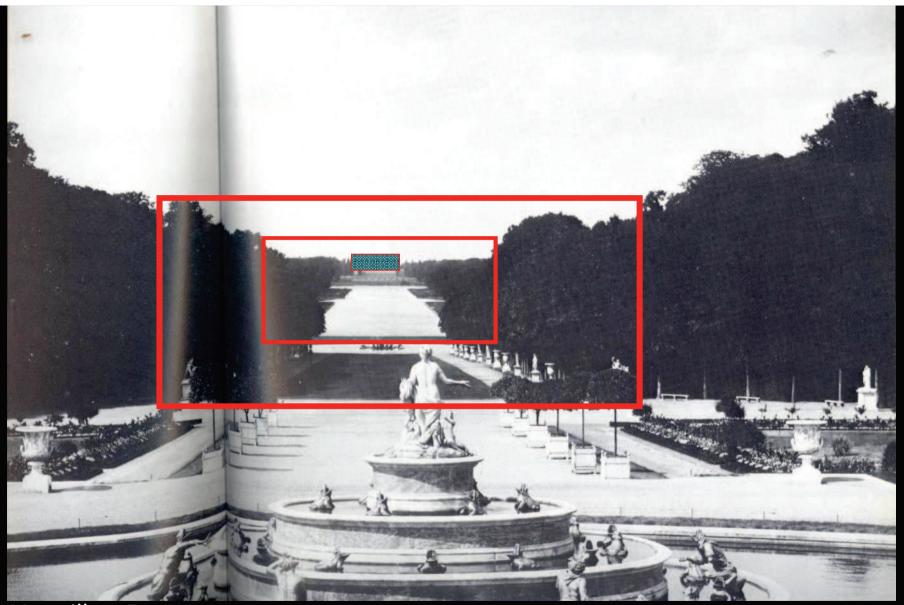
Stourhead Park, England



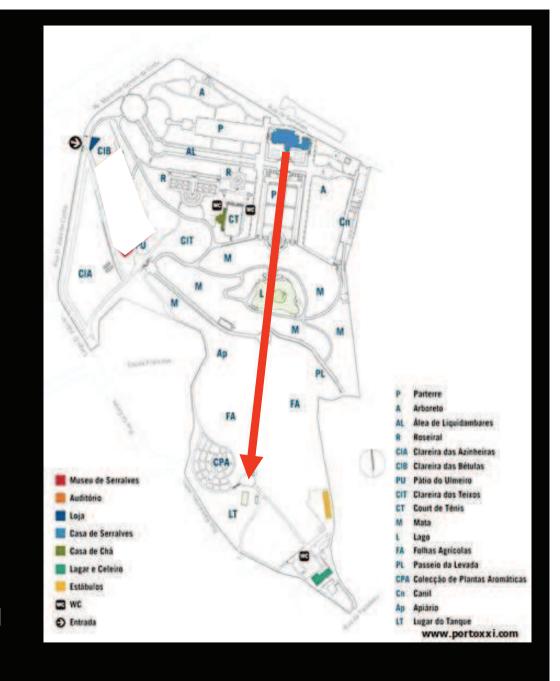
Stourhead Park,, England



Versailles, France



Versailles, France



Parque de Serralves, Oporto, Portugal



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Prospect Park, Brooklyn, NY, EUA

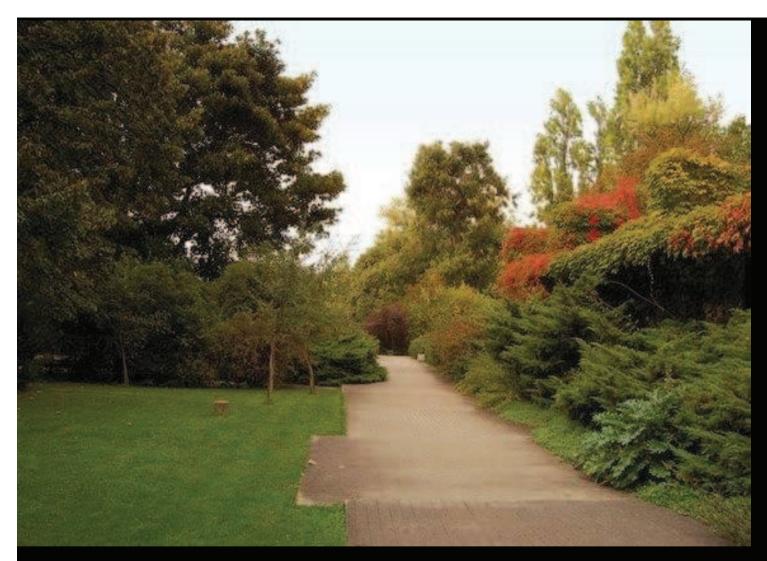




Prospect Park, Brooklyn, NY, EUA



Prospect Park, Brooklyn, NY, EUA



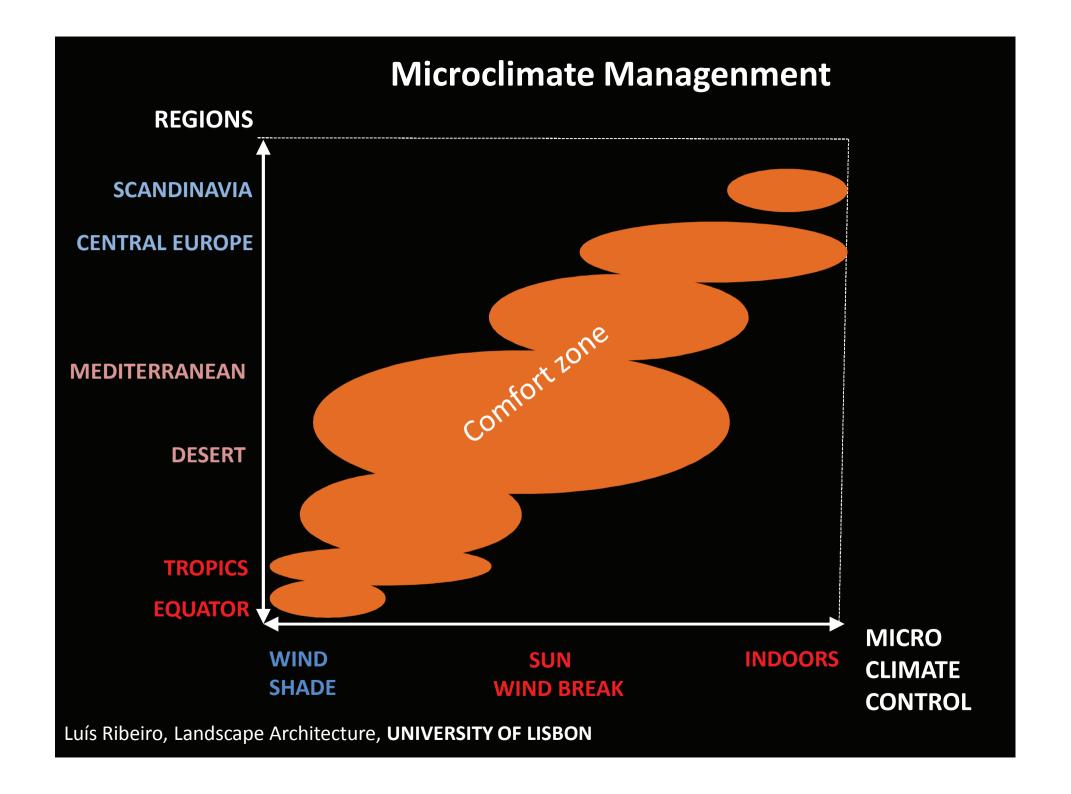
Gulbenkian Park, Lisbon, Portugal



Gulbenkian Park, Lisbon, Portugal

FROM CULTURAL LANDSCAPE EVOLUTION INTO PRINCIPLES FOR GARDEN DESIGN

4. Sense of comfort and security



FROM CULTURAL LANDSCAPE EVOLUTION INTO PRINCIPLES FOR GARDEN DESIGN

5. Sense of playful /surprise / mystery



Gulbenkian Park, Lisbon, Portugal



Gulbenkian Park, Lisbon, Portugal

FROM CULTURAL LANDSCAPE EVOLUTION INTO PRINCIPLES FOR GARDEN DESIGN

- 1. Sense of order
- 2. Sense of place dimensions or enclosure
- 3. Sense of comfort and security
- 4. Visibility
- 5. Sense of playful /surprise / mystery

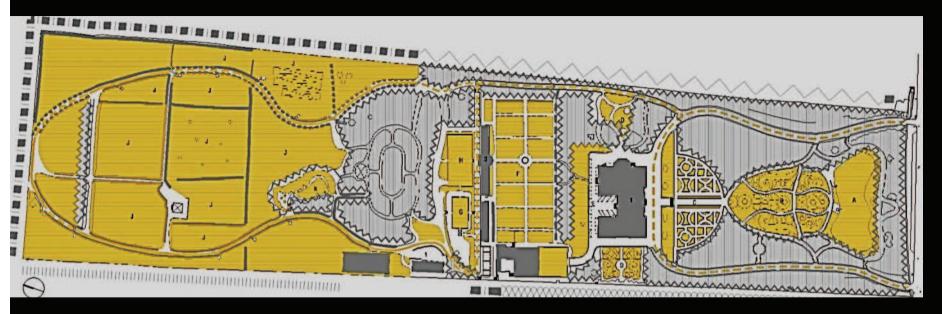
FROM CULTURAL LANDSCAPE EVOLUTION INTO PRINCIPLES FOR GARDEN DESIGN

ANALYSIS OF FOUR EXAMPLES OF PRIVATE GARDENS:

- Santana Palace Gardens, S. Miguel, Azores, Portugal
- Laura's Private Garden
- Comporta Garden



VISUAL/SPACIAL ANALYSIS



LAY OUT PLAN





Restoration Project by TOPIARIS



Restoration Project by TOPIARIS



Restoration Project by TOPIARIS



Restoration Project by TOPIARIS



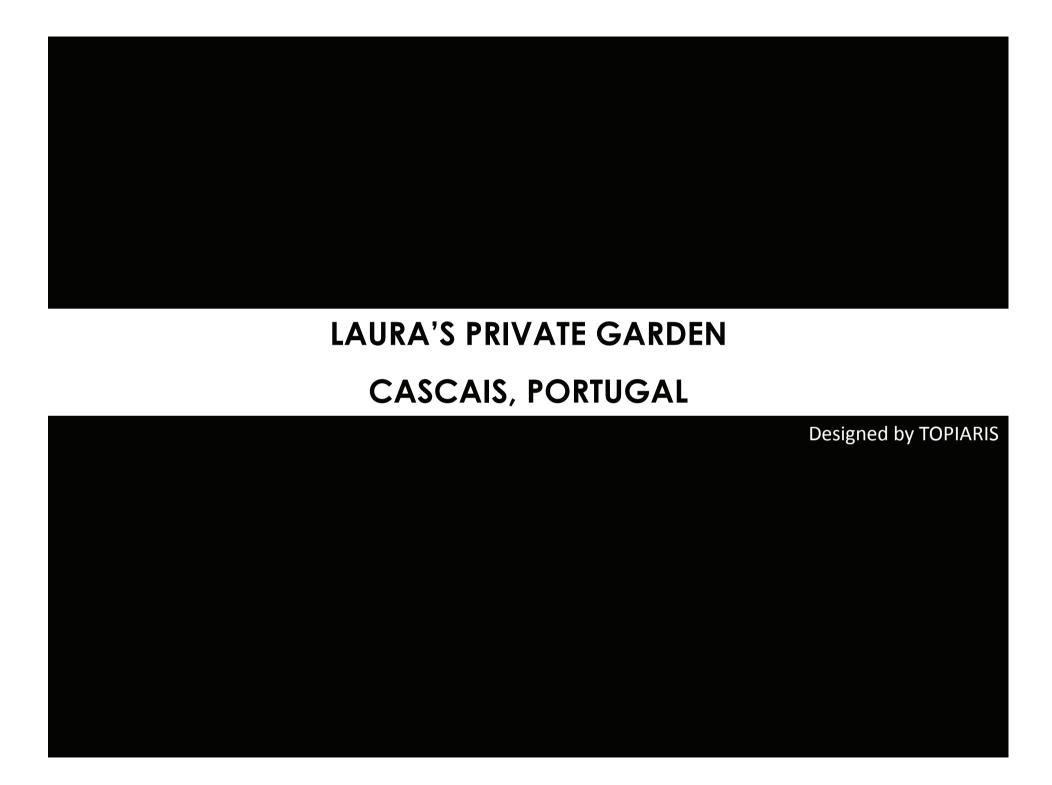
Restoration Project by TOPIARIS



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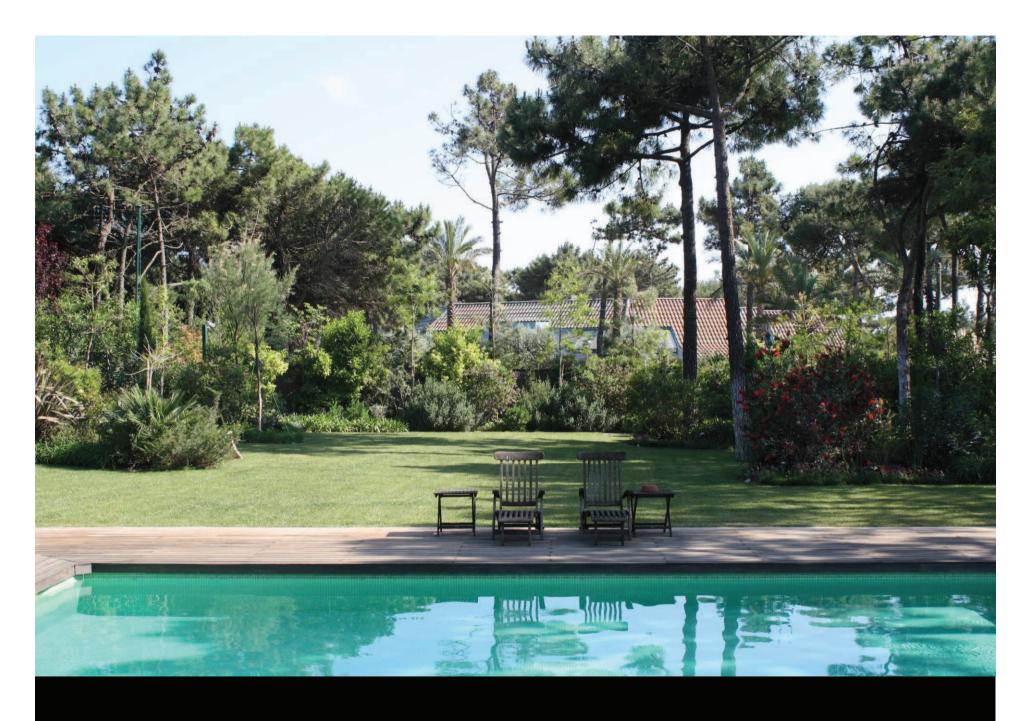


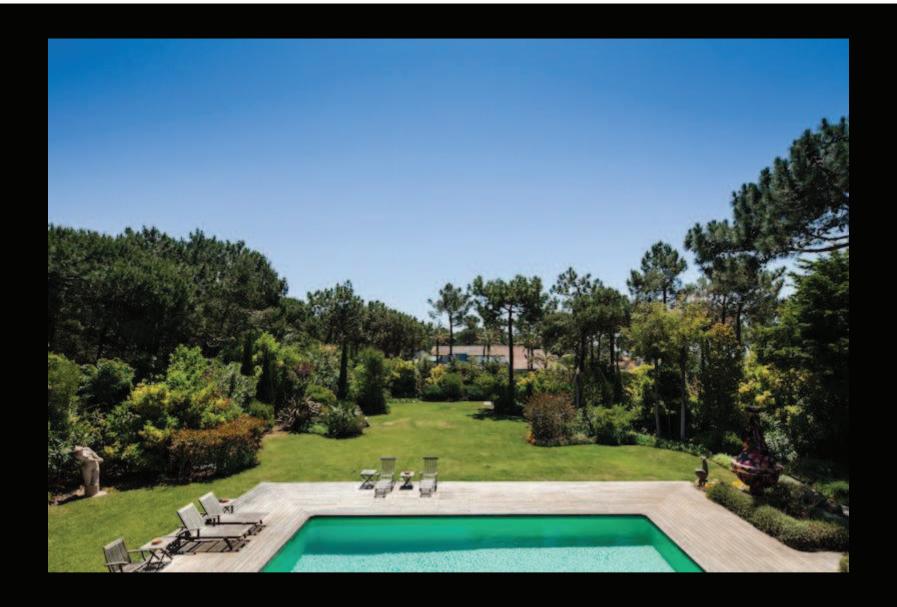
Restoration Project by TOPIARIS

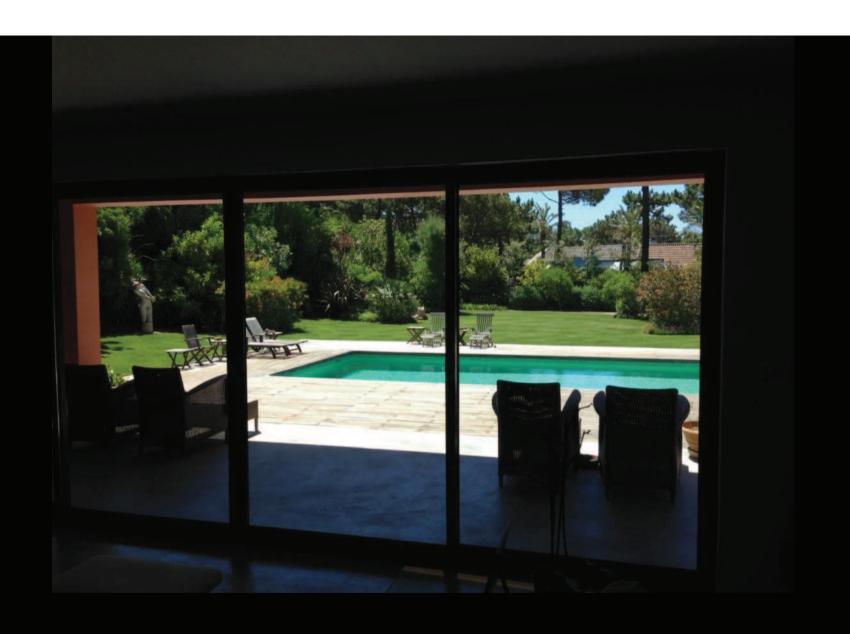
















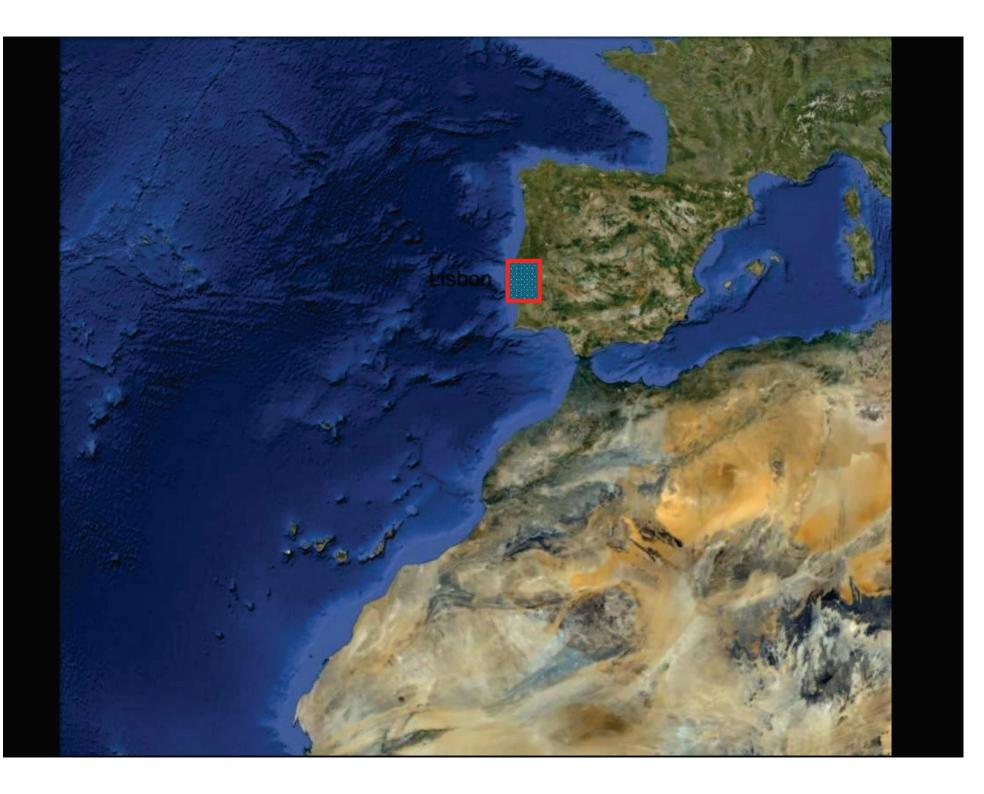
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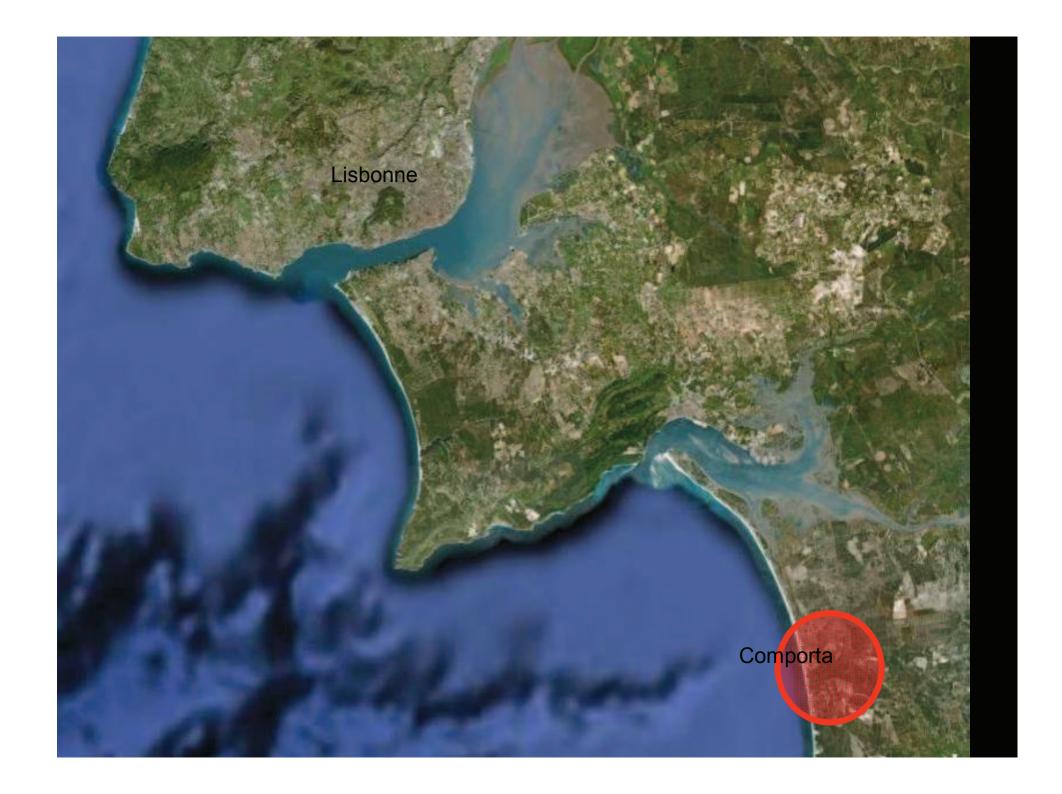
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FROM GARDEN DESIGN INTO PRINCIPLES OF LADSCAPE ARCHITECTURE

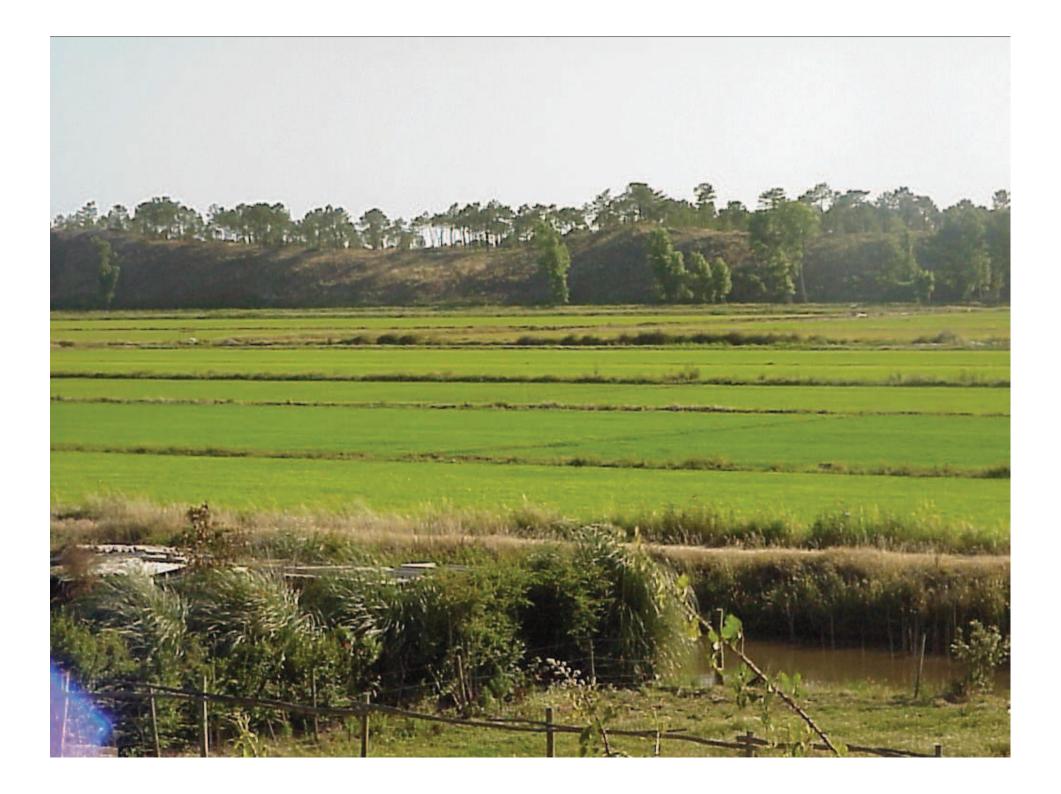
- 6. Art based upon resources management
- 7. Art based upon natural/social systems management
- 8. Art based upon territorial systems and continuity











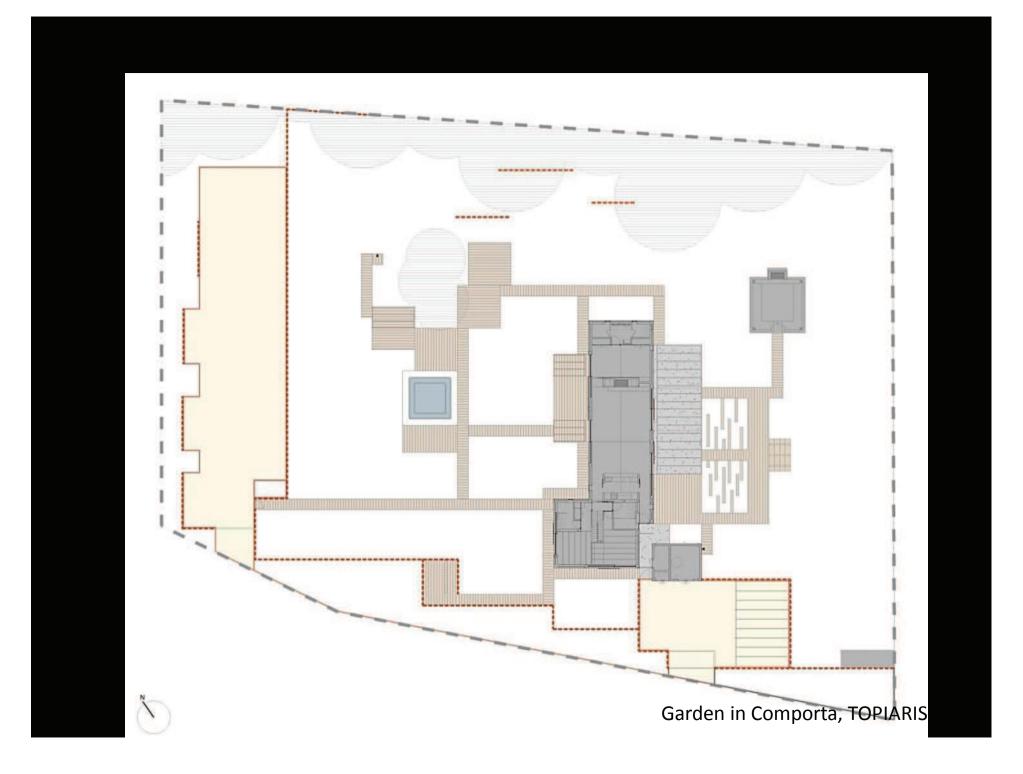


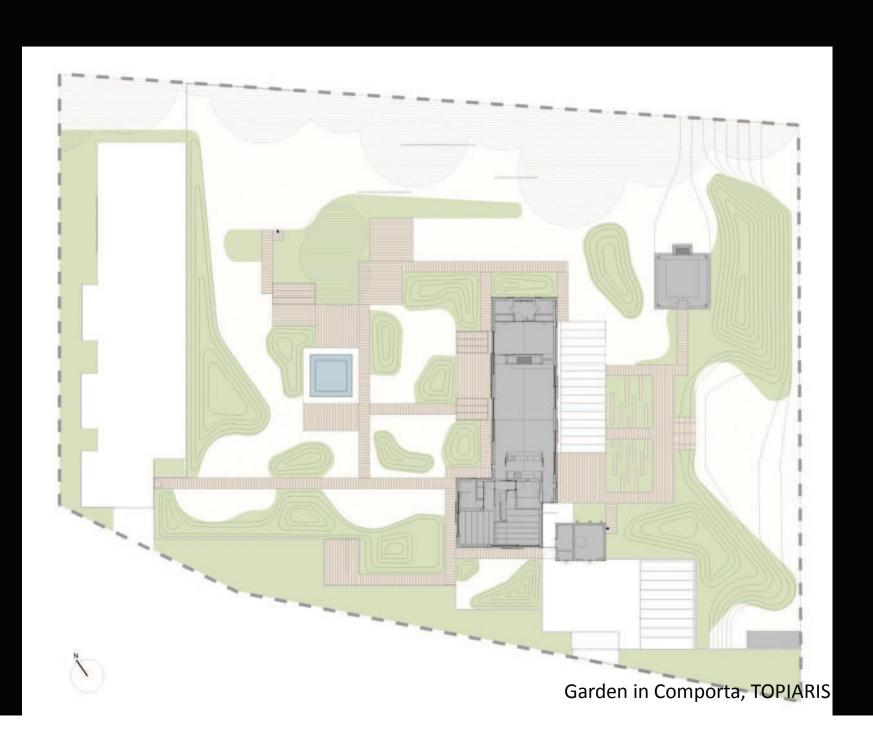










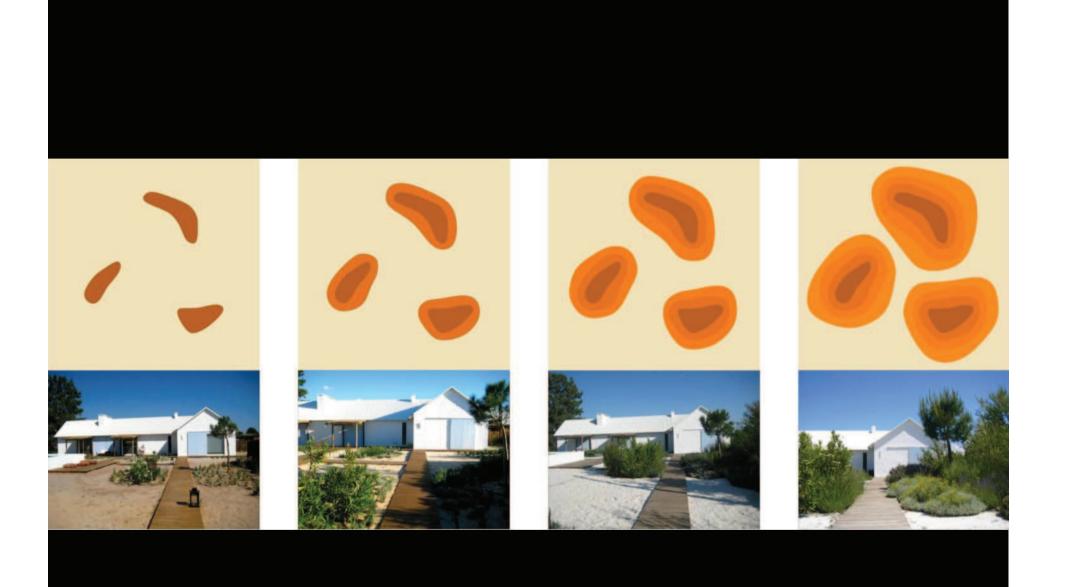








Garden in Comporta, TOPIARIS











Garden in Comporta, TOPIARIS





FROM CULTURAL LANDSCAPE EVOLUTION INTO PRINCIPLES FOR GARDEN DESIGN

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FROM GARDEN DESIGN INTO PRINCIPLES OF LADSCAPE ARCHITECTURE

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