

BASIC ELEMENTS

BASIC ELEMENTS

3 QUESTIONS

- > Which (elements)**
- > How (description of the characteristics)**
- > Why (function and use)**

Landform

Plant Materials

Buildings

Pavement

Site Structures

Water

Landform

> WHICH:
> HOW:
> WHY:

Plant Materials

Buildings

Pavement

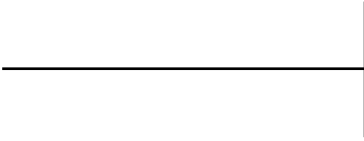
Site Structures

Water



Michael Van Valkenburgh Associates Inc | BROOKLYN BRIDGE PARK PIER 1 | Brooklyn, NY (2003–2010)

Landform

- 
- > WHICH: level, convex, ridge, concave, valley, ...
 - > HOW: aesthetic character, spatial sensation, views, drainage, micro climate, ...
 - > WHY: spatial definition, control views, influence movement, affect micro climate, aesthetic uses, ...

Plant Materials

Buildings

Pavement

Site Structures

Water



Hargreaves Associates, João Nunes | Tejo and Trancão Park | Lisbon, PT (1994–2004)





Charles Jencks | Garden of Cosmic Speculation | Dumfries, UK (1989+)

Landform

Plant Materials

> WHICH:

> HOW:

> WHY:

Buildings

Pavement

Site Structures

Water



Michel Corajoud | Garonne River Bank | Bordeaux, FR (2000-2009)

Landform

Plant Materials

-
- > WHICH: tree, bush, lawn, wood, group, orchard, ...
 - > HOW: size, form, color, type, texture, ...
 - > WHY: unifier, emphasize, softener, view enframement, provide shadow, ...

Buildings

Pavement

Site Structures

Water



Michel Corajoud | Parc du Sausset | Paris, FR (1980-2006)



Michel Desvigne & Christine Dalnoky | Rue de Meaux Housing | Paris, FR (1989-1992)

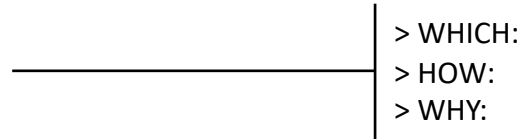


Townshend Landscape Architects | Morelondon | London, UK (1998-2010)

Landform

Plant Materials

Buildings



Pavement

Site Structures

Water



WBP Landschaftsarchitekten | ST. URBANUS KIRCHPLATZ | Gelsenkirchen, DE (2010)

Landform

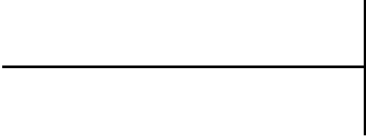
Plant Materials

Buildings

Pavement

Site Structures

Water

- 
- > WHICH: identify the existence of built structures and its relation to the space
 - > HOW: form of the spaces created by the buildings (central, focused, organic, channeled, linear, organic linear), size, height, form, structure, material, texture, color, ...
 - > WHY: functional program impact and physical effect on the open space





Renzo Piano Building Workshop | Quartiere Le Albere | Trento, IT (2013)



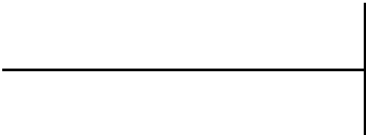
WES Landscape Architecture | Altmarkt | Dresden, DE (2009)

Landform

Plant Materials

Buildings

Pavement



> WHICH:
> HOW:
> WHY:

Site Structures

Water

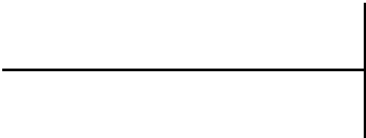


Landform

Plant Materials

Buildings

Pavement

- 
- > WHICH: path, surfaces (terraces, ramps, ...)
 - > HOW: size, form, color, material, texture, ...
 - > WHY: accommodating intense use, provide direction, suggest rate and rhythm of movement, provide unity, establish spatial character, ...

Site Structures

Water



Lola Domènech, Teresa Galí | Paseo de St Joan | Barcelona, ES (2008-2011)



Mutabilis paysage & urbanisme | Place de la Paix | Ville de Mulhouse, FR (2013)



Corner Field Operations, Piet Oudolf | High Line | New York, NY (2011)

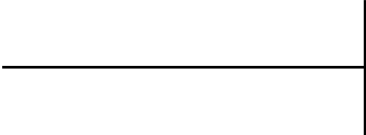
Landform

Plant Materials

Buildings

Pavement

Site Structures



- > WHICH:
- > HOW:
- > WHY:

Water



Landform

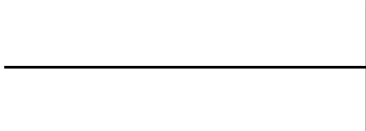
Plant Materials

Buildings

Pavement

Site Structures

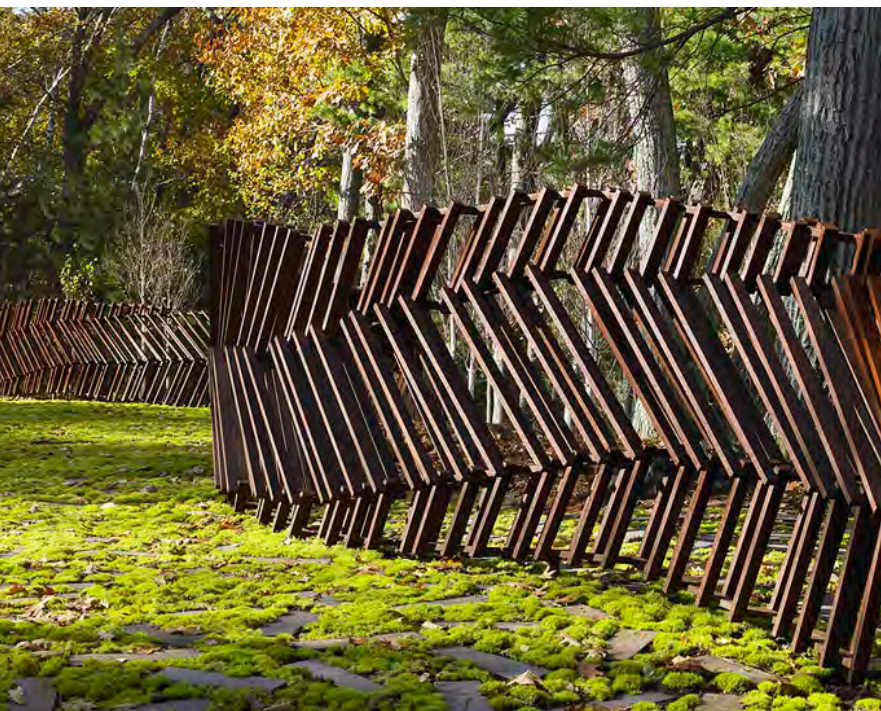
Water

- 
- > WHICH: steps, ramps, walls, fences, seating, bridges, public art structures, columns, ...
 - > HOW: size, color, form, material, texture, ...
 - > WHY: define space, screen views, separate functions, modify climate/shadows, rest, wait, converse, ...





ACXT | Galíndez Slope and Pau Casals Plaza | Bilbao, ES (2007)



Landform

Plant Materials

Buildings

Pavement

Site Structures

Water

> WHICH:
> HOW:
> WHY:



© haut-relief

Michel Corajoud | Water Mirror | Bordeaux, FR (2009)

Landform

Plant Materials

Buildings

Pavement

Site Structures

Water

-
- > WHICH: fountain, pond, channel, river, ...
 - > HOW: sound, motion, flowing/static water, ...
 - > WHY: consumption, irrigation, sound control, ...



Ilex landscape architecture | Parc des Iles | Henin-Beaumont, FR (2005-2010)



Atelier Loos van Vliet NRLV | CENTRAL PARK HUNNAN AXIS | Shenyang, CN (2011-2013)



Olafur Eliasson | Waterfall | Versailles, FR (2016)

1. LANDFORM	<i>page 1</i>	
<i>detect the element - WHICH?</i>	<i>page 34</i>	
level landform		
convex landform		
ridge		
concave landform		
valley		
etc.		
<i>description/characteristic - HOW?</i>	<i>page 7</i>	
aesthetic character		
spatial sensation		
views		
drainage		
microclimate		
functional use of the land		
etc.		
<i>function/uses - WHY?</i>	<i>page 49</i>	
spatial definition		
control views		
influence movement		
affect microclimate		
aesthetic uses		
etc.		

2. PLANT MATERIALS	<i>page 66</i>	
<i>detect the element - WHICH?</i>		
ground cover		
shrubs		
tree		
grouped elements (woods, grove, orchard, plantation, etc.)		
etc.		
<i>description/characteristic - HOW?</i>	<i>page 83</i>	
plant size		
• large and intermediate trees		
• small trees and ornamentals		
• tall shrubs		
• intermediate shrubs		
• low shrubs		
• ground cover		
plant form	<i>page 95</i>	
• columnar		
• spreading/horizontal		
• round/globular		
• pyramidal/conical		
• weeping		
• picturesque		
plant color	<i>page 99</i>	
foliage type	<i>page 101</i>	

• deciduous		
• coniferous evergreen		
• broad-leaved evergreens		
plant texture	<i>page 108</i>	
• coarse texture		
• medium texture		
• fine texture		
etc.		
<i>function/uses - WHY?</i>	<i>page 69</i>	
architectural uses	<i>page 71</i>	
• creation of space		
• privacy control		
aesthetic uses	<i>page 111</i>	
• complementors		
• unifiers		
• emphasizeers		
• acknowledgers		
• softener		
• view enframement		
• providing shadow		
• etc.		

3. BUILDINGS	<i>page 127</i>	
<i>detect the element - WHICH?</i>		
identify the existence and type of building(s) in space		
<i>description/characteristic - HOW?</i>		
types of the spaces created by buildings:	<i>page 141</i>	
• central open space		
• focused open space		
• channeled linear space		
• organic linear space		
plan arrangement	<i>page 131</i>	
distance to building height ratio	<i>page 130</i>	
building character:	<i>page 138</i>	
• form of facades		
• structure of facades		
• material of facades		
• texture of facades		
• color of facade		
relationship to the space and space elements:	<i>page 153</i>	
• to landform		
• to plant material		
• to building design		
• to transition space		
• to walls		
• to pavement		
• etc.		

[illegible]

4. PAVEMENT	<i>page 169</i>	
<i>detect the element - WHICH?</i>		
path		
different types of surfaces		
• ramps		
• terraces		
• etc.		
<i>description/characteristic - HOW?</i>		
size		
form		
color		
material	<i>page 186</i>	
• loose pavement: gravel and variations	<i>page 186</i>	
• unit pavers:	<i>page 190</i>	
▪ stone (sedimentary, metamorphic, igneous; fieldstone, riverstone, cobblestone, flagstone, cut stone)		
▪ brick and interlocking brick		
▪ tile		
• adhesive pavement	<i>page 200</i>	
▪ Portland cement concrete		
▪ bituminous concrete (asphalt)		
texture		
<i>function/uses - WHY?</i>	<i>page 170</i>	
accommodate intense use		

[illegible]

5. SITE STRUCTURES	<i>page 212</i>	
<i>detect the element - WHICH?</i>		
steps	<i>page 212</i>	
ramps	<i>page 223</i>	
walls and fences	<i>page 227</i>	
retaining walls	<i>page 235</i>	
columns		
seating		
gazebos		
overhead trellises or sun shelters		
decks		
public art structures		
bridges		
leisure/recreation elements		
etc.		
<i>description/characteristic - HOW?</i>		
size		
form		
color		
materials	<i>page 239</i>	
• stone		
• brick		
• concrete		
• wood		
• wrought iron		

[illegible]

6. WATER	<i>page 254</i>	
<i>detect the element - WHICH?</i>		
fountain		
pond		
lakes		
channel		
river		
etc.		
<i>description/characteristic - HOW?</i>	<i>page 255</i>	
plasticity		
motion		
<ul style="list-style-type: none"> static water 		
<ul style="list-style-type: none"> dynamic water 		
<ul style="list-style-type: none"> <ul style="list-style-type: none"> flowing 		
<ul style="list-style-type: none"> <ul style="list-style-type: none"> static 		
<ul style="list-style-type: none"> <ul style="list-style-type: none"> falling 		
<ul style="list-style-type: none"> <ul style="list-style-type: none"> jets 		
<ul style="list-style-type: none"> <ul style="list-style-type: none"> combination 		
sound		
reflectivity		
<i>function/uses - WHY?</i>	<i>page 259</i>	
consumption		
irrigation		
climate control		
sound control		

[illegible]

1. LANDFORM

Landscape architects utilize a variety of physical design elements to meet their objectives in creating and managing outdoor spaces for human use and enjoyment. "Landform" is synonymous with "topography" and refers to the three-dimensional relief of the earth surface. In simple terms, landform is the "*lay of the land*". *Landform can be considered a thread that ties all the elements and spaces of the landscape together into a continuum that ends along the horizon or at water's edge.* Landform can be considered as a setting or stage for the placement of other elements and functions.

"Macrolandforms" include valleys, mountains, rolling hills, prairies, and plains. At the site scale, "microlandform" may encompass mounds, berms, slopes, level areas, or elevation changes via steps and ramps. At the smallest scale, "minilandforms" might include the subtle undulations or ripples of a sand dune or the textual variations of stones and rocks in a walk. In all situations, landform is the surficial ground element of the exterior environment.

Landform has an impact on the role and prominence of the other physical design elements in the landscape including plant material, pavement, water, and buildings. It affects, among other things, the aesthetic character of an area, the definition and perception of the space, views, drainage, microclimate, land use, and the organization of functions on a particular site.



Michael Van Valkenburgh Associates Inc | Brooklyn Bridge Park Pier 1 | Brooklyn (2003–2010)

2. PLANT MATERIALS

Along with landform and buildings, plant materials constitute the major components used by landscape architects in most projects to organize space and solve problems. The term “plant material” is used to represent *native* and *cultivated* woody plants of all types, from ground cover to trees. Woody plants themselves are extremely diverse in size, form, color, texture, and overall character.

The landscape architect’s expertise with regards to plant material lies in a thorough knowledge of its function and a sensitive, skilled ability to *utilize it in the context of a given design*. This includes an understanding of its design characteristics such as size, form, color, and texture and a knowledge of its growth habits and requirements. The landscape architect’s wisdom should be an understanding of the overall visual characteristics of a plant, its ecological requirements for proper growth, and its environmental impact when planted in a given situation.

The most significant characteristic of plant materials is that they are living, growing elements. Plant materials are *dynamic*; that is, they are constantly changing color, texture, opaqueness, and overall character with seasons and with growth. And all plants are expanding with growth. *Time factor* is crucial for using plant materials in LA projects. Thus, the landscape architect must not only study the *short-term effect* of the design, but the *long-term consequences* as well.

Plant materials are living design elements and, therefore, they require a certain set of environmental conditions for survival and proper growth. Also, plant materials also require some degree of maintenance for adequate health.



Michel Corajoud | Parc du Sausset | Paris, FR (1980-2006)

3. BUILDINGS

Buildings structure and define outdoor space, influence views, modify microclimate, and affect the functional organization of the adjoining landscape. Buildings differ from other design elements dealt with in landscape architecture *because all buildings have interior functions of their own* that occur within the confines of their walls and/or in the adjacent site. Buildings and their environments are the primary locations of the most human activity including *eating, sleeping, loving, child rearing, working, learning, and socializing*.

In dealing with the building and its surrounding site, the design professional is likely to confront one of three situations: (1) siting and collectively arranging a number of buildings on a site, (2) siting an individual building as a lone structure on a site, and (3) adding onto or renovating an existing building and site.

By themselves, individual buildings are viewed as solid objects in the landscape surrounded by open, negative space. A single building does not create space but rather is an object in space. When a group of buildings are clustered together in an organized manner, however, positively defined outdoor spaces are established in the voids between building masses.



WES Landscape Architecture | Altmarkt | Dresden, DE (2009)

4. PAVEMENT

Pavement is any hard natural or artificial surface material consciously placed on the ground plane of an outdoor space to establish a durable surface while also satisfying design objectives. Examples of pavements: gravel, brick, tile, stone, concrete, asphalt and, in some cases, wood decking.

Pavement has several characteristics that set it apart from other ground surface materials. First, pavement is hard, comparatively nonpliable surface material. As such, it is relatively fixed and nonchanging. Next, it is a relatively expansive ground surface material. Nevertheless, pavement often holds an advantage over a longer period of time in terms of cost comparing to vegetative surfaces.

Pavement is not without its disadvantages despite its wide potential applications in outdoor spaces. Pavement tends to be much hotter than vegetative ground surfaces exposed to the sun. Also, they create more surface runoff water that would occur from a lawn, grassland, or woodland. Finally, pavement can give an impersonal, barren quality to the outdoor environment if overused or poorly detailed.



Lola Domènech, Teresa Galí | Paseo de St Joan | Barcelona, ES (2008-2011)

5. SITE STRUCTURES

Site structures can be defined as three-dimensional constructed elements in the landscape that fulfill specific functions within the larger spatial context collectively established by landform, plant materials, and buildings. Site structures are “hard”, fixed, and relatively permanent features in the outdoor environment.

Examples of site structures include steps, ramps, walls, fences, and sitting elements. Gazebos, overhead trellises or sun shelters, decks, and small buildings are also site structures, although they are not discussed in this chapter.

Primary role of all site structure elements is to enhance the spatial quality and livability of the outdoor environment. Steps and ramps facilitate movement from one ground elevation to another, walls and fences subdivide space and provide structural detail, and seating makes outdoor spaces seem more human by furnishing places to rest and observe. The sensitive use of site structures makes landscape more inhabitable and responsive to human needs.



Metro Arquitetos | Ladeira da Barroquinha | Salvador, BR (2013)

6. WATER

Water is yet another physical design element that may be used in the landscape as purely aesthetic element or it may be employed for such utilitarian functions as cooling the air, buffering sound, irrigating the soil, or providing a means of recreation. Water is one of the most magnetizing and compelling of all design elements.

Humans seem to be instinctively drawn toward water for both utilitarian and visual reasons. From an historical perspective, many early cities and villages in this country, as well as others, were originally settled at the edge of a river, stream, lake, spring, or well out of necessity. Besides this need to be near water to support life, people are emotionally lured toward water for its sight, sound, and recreational uses. Water often has therapeutic effect. Watching and listening to water along the shore of lake, river, or stream can carry a person's awareness away from the reality of the moment to a more restful and peaceful state of mind.



Ilex landscape architecture | Parc des Iles | Henin-Beaumont, FR (2005-2010)

PUBLIC PLACES

basic elements

processes

concept

spatial organization

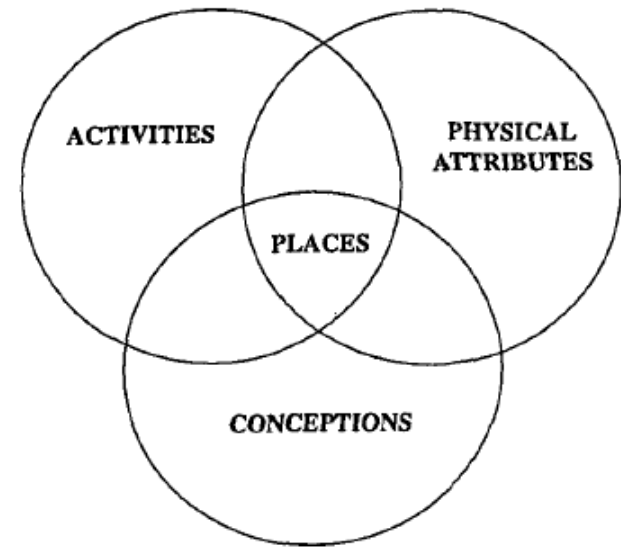


Figure 1. A visual metaphor for the nature of places. Source: Canter (1977).

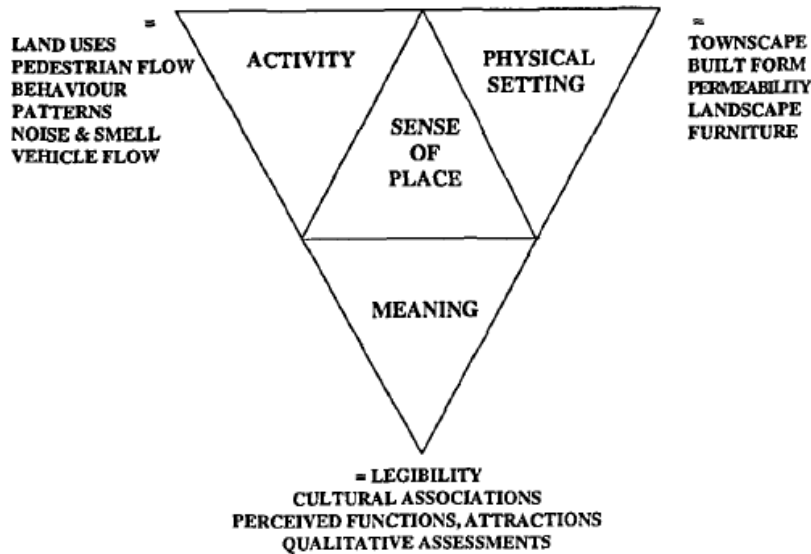


Figure 2. Components of a sense of place. Source: Punter (1991).

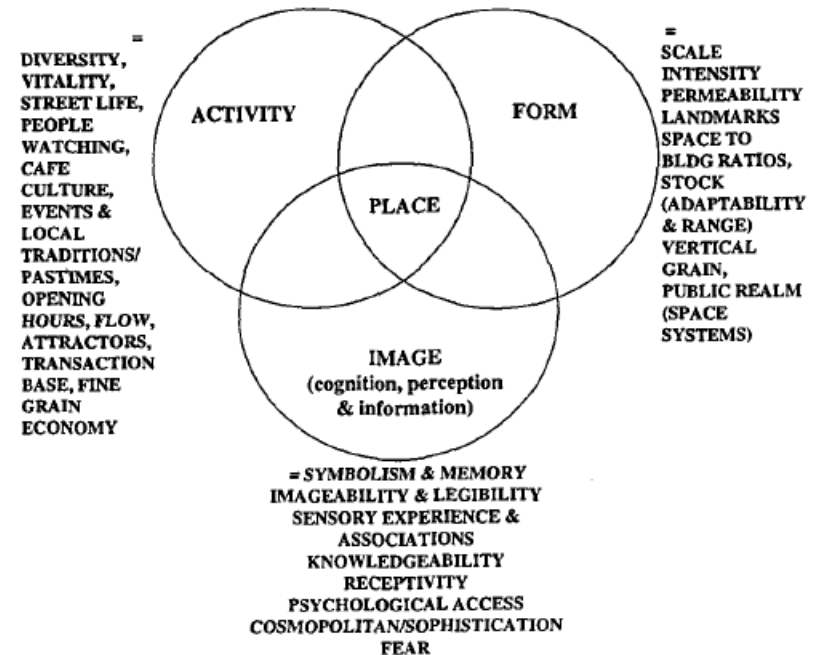


Figure 3. Policy directions to foster place making. Source: Montgomery (1998).

PUBLIC PLACES

basic elements

processes

concept

spatial organization

activities

relationships/interactions

PUBLIC PLACES

basic elements

processes

concept

spatial organization

activities

relationships/interactions

VITALITY

It refers to the numbers of people in and around the street (pedestrian flows) across different times of the day and night, the uptake of facilities, the number of cultural events and celebrations over the year, the presence of an active street life, and generally the extent to which a place feels alive or lively.

In the long term urban vitality can only be achieved where there is a complex diversity of primary land uses and (largely economic) activity.

DIVERISTY

As a rule, the most lively and interesting urban areas tend to be places of complex variety of activities, with a large representation of small-scale business activity which trades not only with 'consumers' but with other businesses.

The key to successful urban places, therefore, is the *transaction* base, and this must be as complex as possible. Not all transactions take a monetary form, and not all are economic. Urban areas and cities must also provide space for social and cultural transaction.

PUBLIC PLACES

basic elements

processes

concept

spatial organization

activities

relationships/interactions

individual

- *standing
- *walking/ flow
- *sitting/ differently during the day
 - movable chairs
 - fixed seats
- *laying
- *watching (number one activity)

in group(s)

- *reading
- *listening music
- *eating/drinking coffee
- *taking 'selfies'
- *talking/ sociability
- *playing games
- *entertainment
- *taking photos
- *eating together

PUBLIC PLACES

basic elements

processes

concept

spatial organization

activities

relationships/interactions

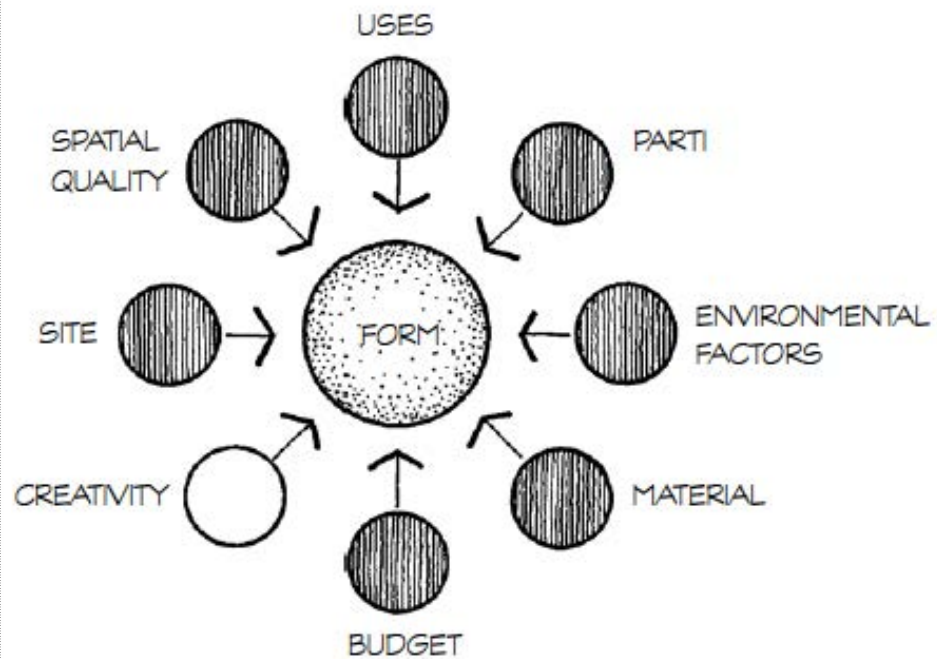
- *to other people/ street acts
- *to all types traffic/ street/ street corner
- *to built environment/ buildings
- *to site structures/ urban art
- *to natural environment:
 - sun/ light, warmth
 - water/ sound, look, feel
 - trees/ microclimate, shade,
 - transpiration, cooling, beauty
 - wind

spatial organization

LARC 250

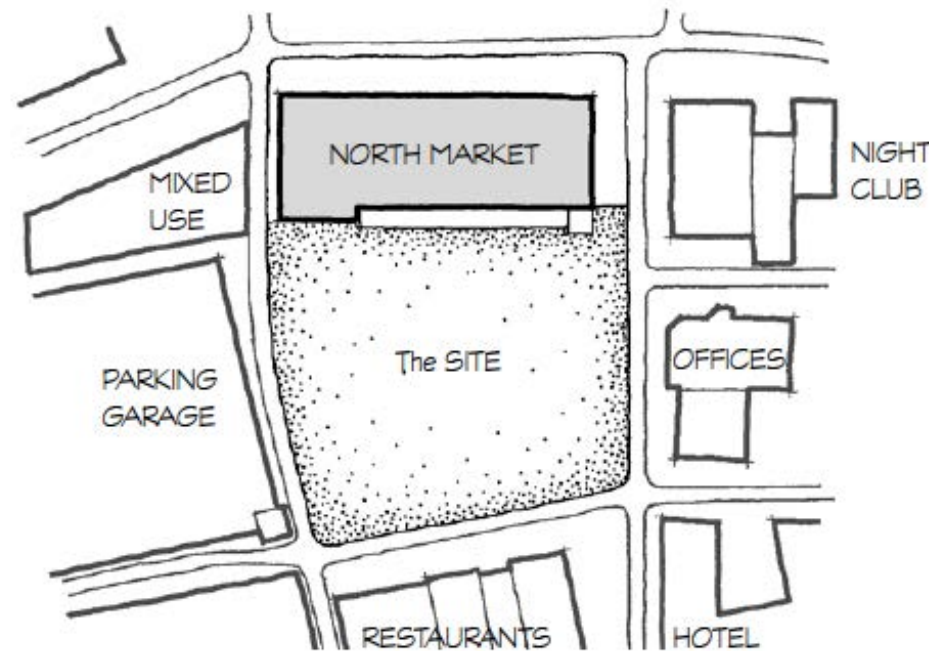
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basic elements
processes
concept
spatial organization



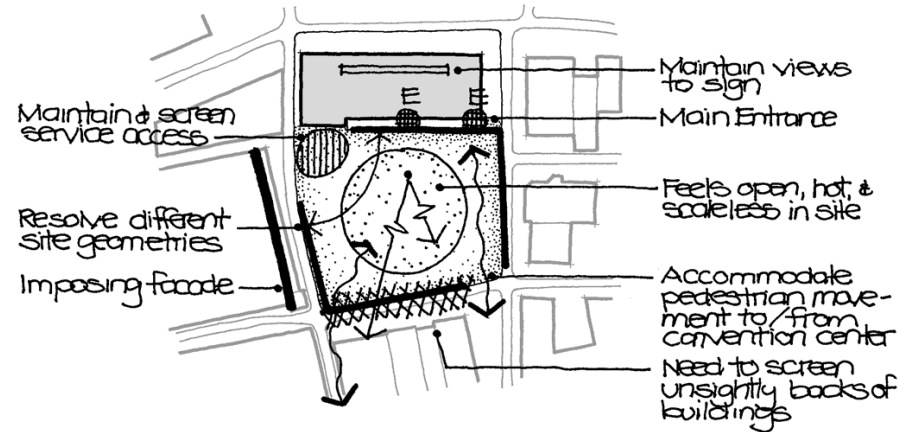
• *factors that influence design form in the landscape*

basic elements
processes
concept
spatial organization



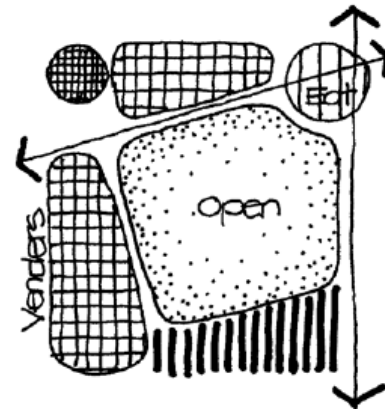
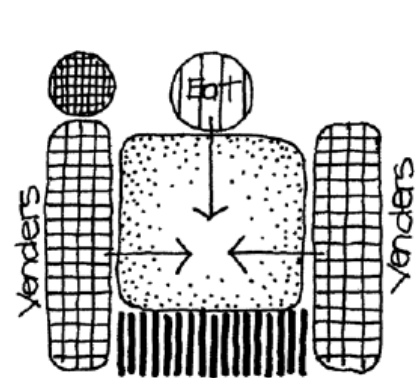
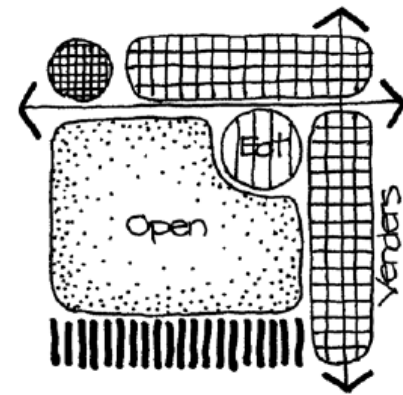
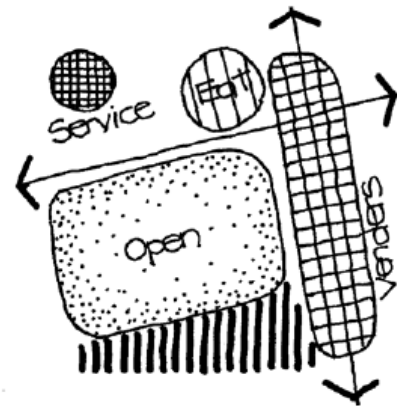
- *location and context of the market site*

basic elements
processes
concept
spatial organization



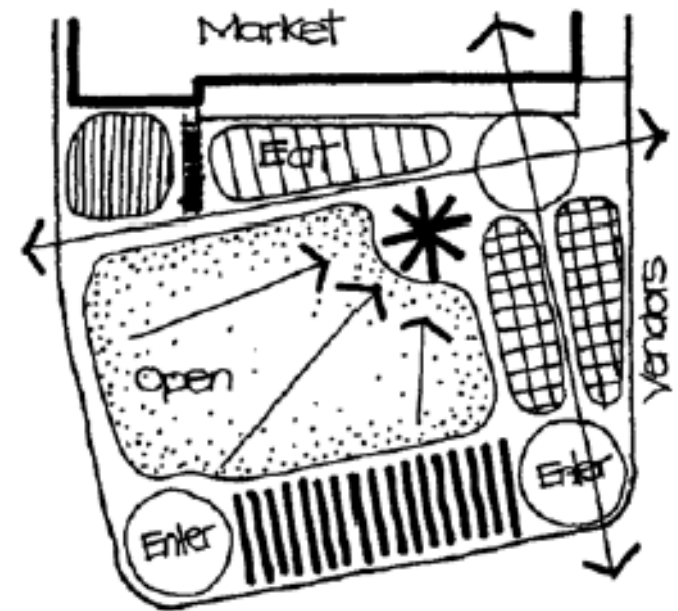
• *summary site analysis of market site*

basic elements
processes
concept
spatial organization



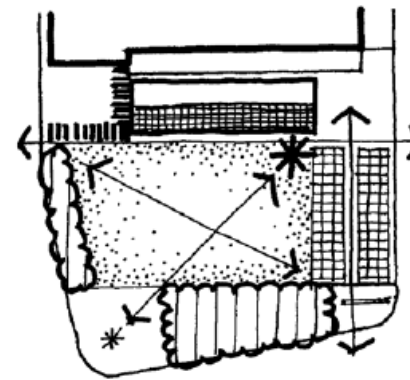
• *concept diagrams*

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processes
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spatial organization

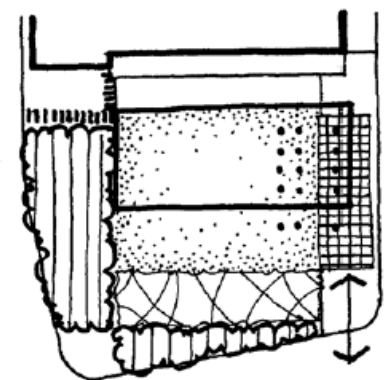


• *functional diagram*

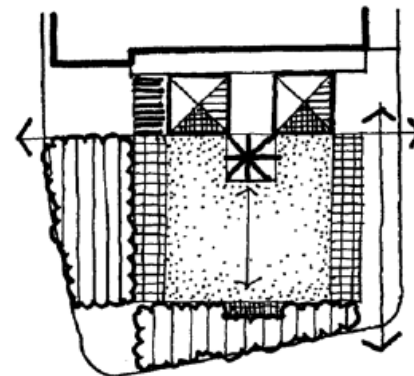
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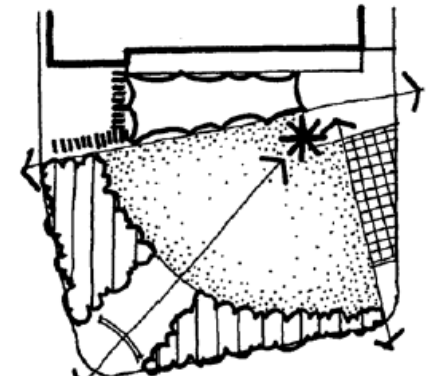
Village Green



Historic Foundations



Center of Attention



Convergence

• *thematic diagrams*

basic elements

processes

concept

spatial organization

The purpose of an *spatial organization* is to provide compositional order and to give a design a sense of legibility for people who experience it.

The use of an organizational structure is essential for landscape architectural site design; without it, a design is likely to be a chaotic collection of forms and elements that have little or no relationship to one another.

basic elements

processes

concept

spatial organization

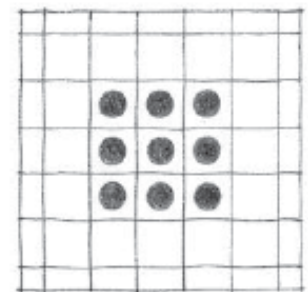
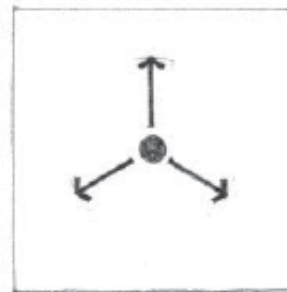
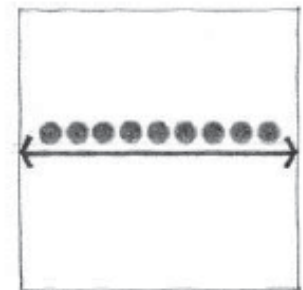
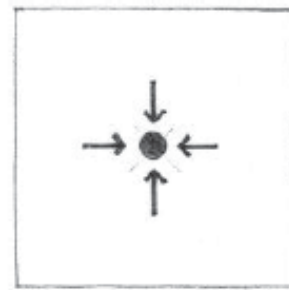
*centralized

*linear

*radial

*grid

*combined



basic elements

processes

concept

spatial organization

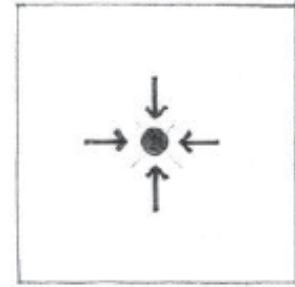
*centralized

*linear

*radial

*grid

*combined



• *A number of secondary forms clustered about a dominant, central parent-form or foci.*

Foci describes both *forms* and *places* in the landscape that attract people or are visually dominant and distinctive – differentiated from their context.

A focus can be defined as:

*a form or centralized group of forms (often vertical) that contrast(s) with the surrounding landscape

*a landscape form which assists orientation

*a form that marks a place of spiritual, cultural or social significance attracting people and becoming a destination and gathering point

*an 'event' in the landscape.

basic elements

processes

concept

spatial organization

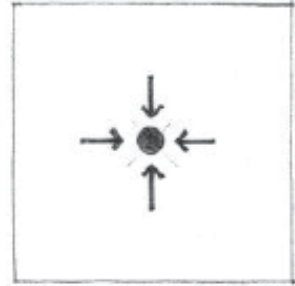
*centralized

*linear

*radial

*grid

*combined



• *A number of secondary forms clustered about a dominant, central parent-form or foci.*

types of foci:

*topographic

*vegetation

*water

*built

basic elements
processes
concept
spatial organization

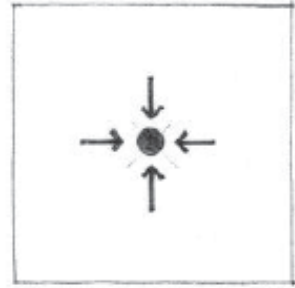
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• *A number of secondary forms clustered about a dominant, central parent-form or foci.*

types of foci:

*topographic

*vegetation

*water

*built



Uluru/Ayers Rock, northern territory of central Australia

mounts, tors, mountains
bowls and craters
points and spurs

basic elements
processes
concept
spatial organization

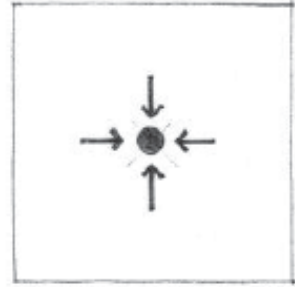
*centralized

*linear

*radial

*grid

*combined



• *A number of secondary forms clustered about a dominant, central parent-form or foci.*

types of foci:

*topographic

*vegetation

*water

*built



Time Capsule Park, South Korea

single tree
group of trees
topiary forms

basic elements
processes
concept
spatial organization

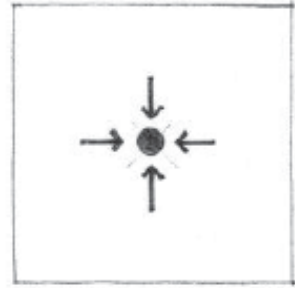
*centralized

*linear

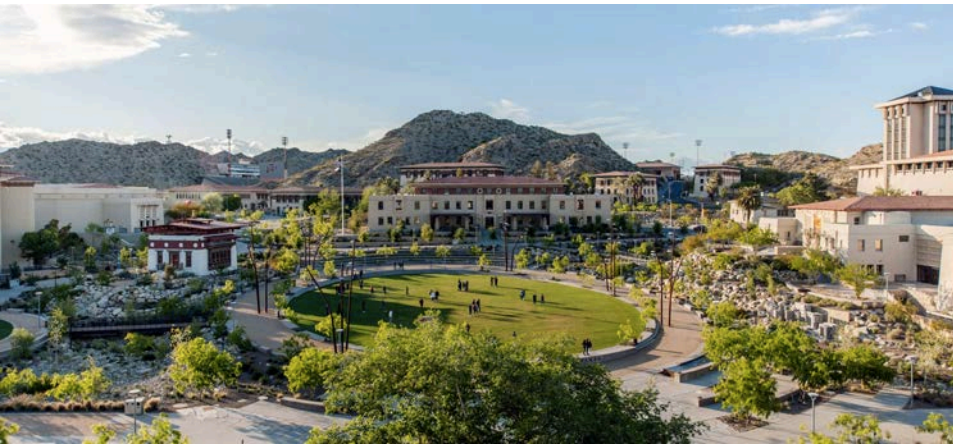
*radial

*grid

*combined



• *A number of secondary forms clustered about a dominant, central parent-form or foci.*



Centennial Plaza, El Paso, Texas, 2015

types of foci:

*topographic

*vegetation

*water

*built

single tree
group of trees
topiary forms

basic elements
processes
concept
spatial organization

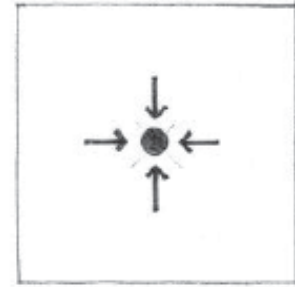
*centralized

*linear

*radial

*grid

*combined



• *A number of secondary forms clustered about a dominant, central parent-form or foci.*

types of foci:

*topographic

*vegetation

*water

*built



fountains
waterfalls
springs, fonts, wells

Statens Museum for Kunst, Copenhagen, Denmark, 2014

basic elements

processes

concept

spatial organization

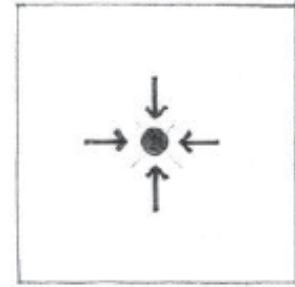
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*linear

*radial

*grid

*combined



• *A number of secondary forms clustered about a dominant, central parent-form or foci.*

types of foci:

*topographic

*vegetation

*water

*built

buildings

follies, theatrical structures, remnants

rocks and standing stones

monuments

sculptures

basic elements
processes
concept
spatial organization

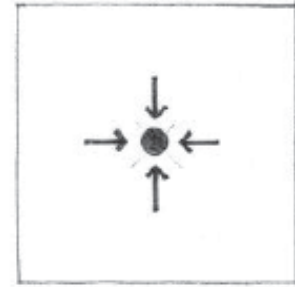
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*linear

*radial

*grid

*combined



• *A number of secondary forms clustered about a dominant, central parent-form or foci.*



types of foci:

*topographic

*vegetation

*water

*built



St. Urbanus Kirchplatz, Germany, 2010

buildings

follies, theatrical structures, remnants
rocks and standing stones
monuments / sculptures

basic elements
processes
concept
spatial organization

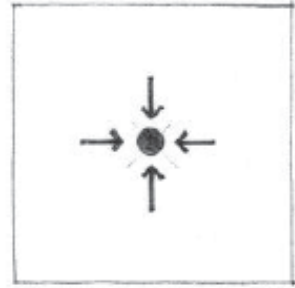
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*linear

*radial

*grid

*combined



• *A number of secondary forms clustered about a dominant, central parent-form or foci.*

types of foci:

*topographic

*vegetation

*water

*built



Eggum Tourist Route, Lofoten, Norway, 2007

buildings

follies, theatrical structures, remnants

rocks and standing stones

monuments / sculptures

basic elements
processes
concept
spatial organization

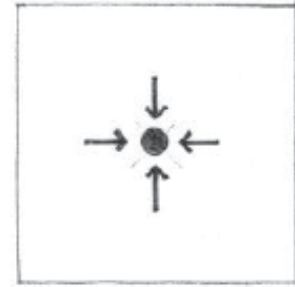
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*grid

*combined



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types of foci:

*topographic

*vegetation

*water

*built



Stonehenge, Wiltshire, UK, 2400-2200 BC

buildings

follies, theatrical structures, remnants

rocks and standing stones

monuments / sculptures

basic elements
processes
concept
spatial organization

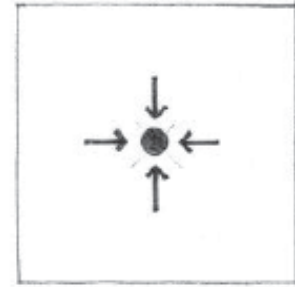
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*grid

*combined



• *A number of secondary forms clustered about a dominant, central parent-form or foci.*

types of foci:

*topographic

*vegetation

*water

*built



St. Andrew Square, Edinburgh, UK, 2009

buildings

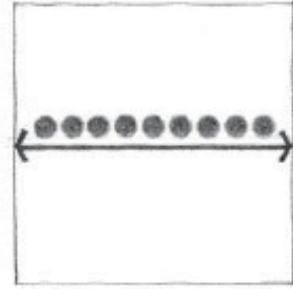
follies, theatrical structures, remnants

rocks and standing stones

monuments / sculptures

basic elements
processes
concept
spatial organization

*centralized
***linear**
*radial
*grid
*combined



- *A series of forms arranged sequentially in a row.*



In the human landscape, the straight line is created by any extended, narrow two-dimensional element such as a walk, road, channel of water, and band of a pavement material or by a thin three-dimensional object like a fence, wall, and hedge.

a line's directionality is reinforced by vertical planes along its length

basic elements

processes

concept

spatial organization

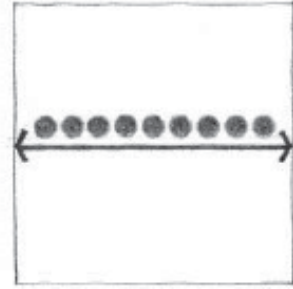
*centralized

*linear

*radial

*grid

*combined



• *A series of forms arranged sequentially in a row.*

landscape uses:

*direct the eye

*direct the movement

*datum

*dividing edge

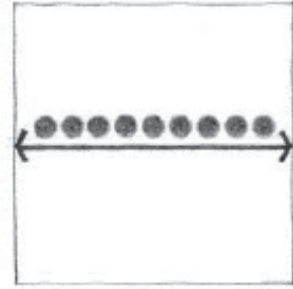
*architectural extension

*human control

*create rhythm

basic elements
processes
concept
spatial organization

- *centralized
- ***linear**
- *radial
- *grid
- *combined

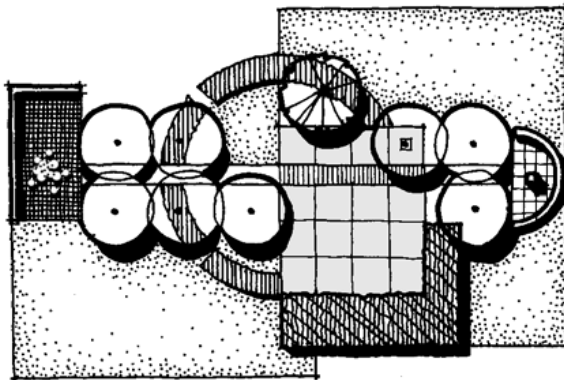


• *A series of forms arranged sequentially in a row.*



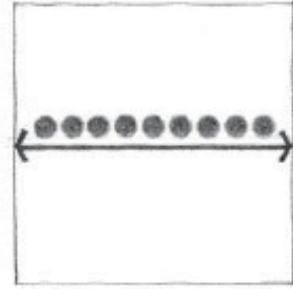
landscape uses:

- ***direct the eye**
- *direct the movement
- *datum
- *dividing edge
- *architectural extension
- *human control
- *create rhythm



basic elements
processes
concept
spatial organization

- *centralized
- ***linear**
- *radial
- *grid
- *combined



- *A series of forms arranged sequentially in a row.*

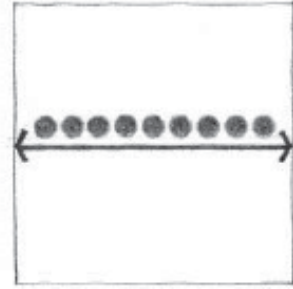


landscape uses:

- *direct the eye
- ***direct the movement**
- *datum
- *dividing edge
- *architectural extension
- *human control
- *create rhythm

basic elements
processes
concept
spatial organization

- *centralized
- ***linear**
- *radial
- *grid
- *combined

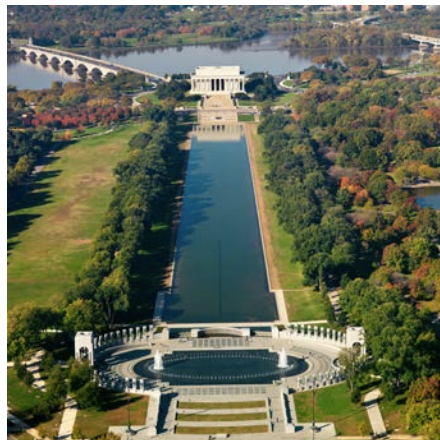


- *A series of forms arranged sequentially in a row.*

landscape uses:

- *direct the eye
- *direct the movement
- ***datum**
- *dividing edge
- *architectural extension
- *human control
- *create rhythm

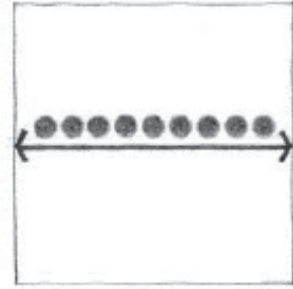
A straight line is a *datum* when it extends through an entire assemblage of elements and unifies them by its presence.



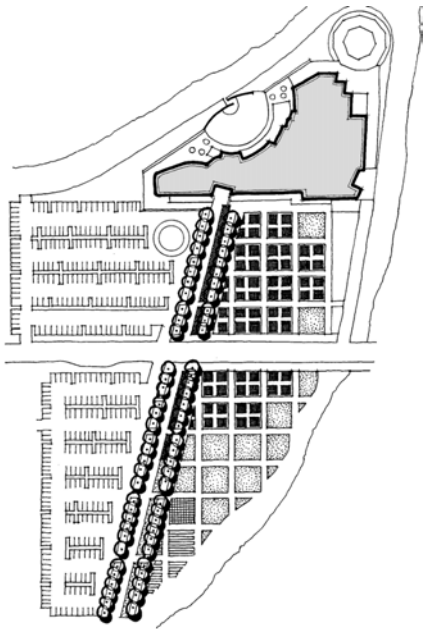
The National Mall, Washington D.C.

basic elements
processes
concept
spatial organization

- *centralized
- ***linear**
- *radial
- *grid
- *combined



- *A series of forms arranged sequentially in a row.*



*The American Center for Wine, Food, and Arts in Napa, California,
designed by Peter Walker Partners*

landscape uses:

- *direct the eye
- *direct the movement
- *datum
- ***dividing edge**
- *architectural extension
- *human control
- *create rhythm

basic elements
processes
concept
spatial organization

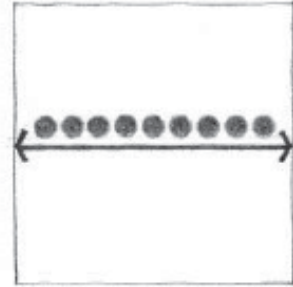
*centralized

***linear**

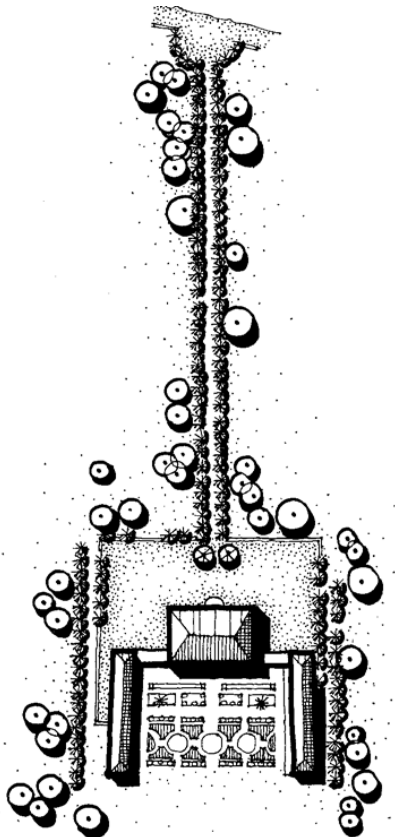
*radial

*grid

*combined



• *A series of forms arranged sequentially in a row.*



Villa La Pietra, Firenze, Italia



landscape uses:

*direct the eye

*direct the movement

*datum

*dividing edge

***architectural extension**

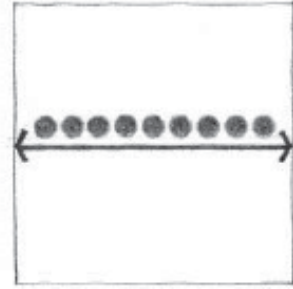
*human control

*create rhythm

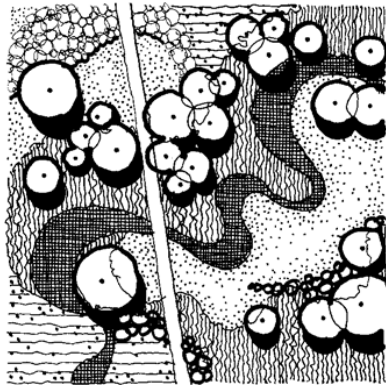
A straight line defined by a wall, fence, pool, pavement, and/or row of plants is an architectural extension when it originates at the building's edge and stretches out into the adjoining landscape.

basic elements
processes
concept
spatial organization

- *centralized
- ***linear**
- *radial
- *grid
- *combined



- *A series of forms arranged sequentially in a row.*

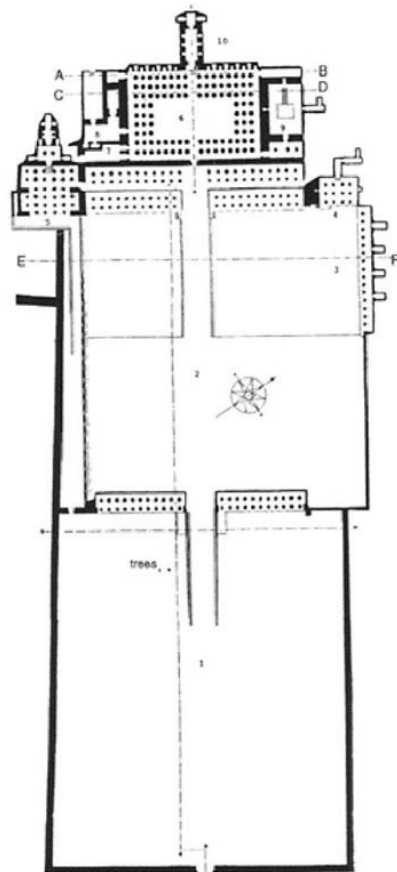


- landscape uses:
- *direct the eye
 - *direct the movement
 - *datum
 - *dividing edge
 - *architectural extension
 - ***human control**
 - *create rhythm

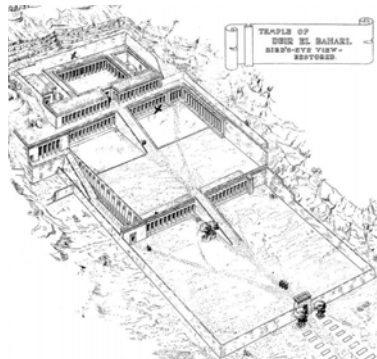


The efficient structural quality of the straight line can be utilized to suggest human control in the landscape. While it is possible to find straight lines in nature as previously outlined, they are not common occurrences.

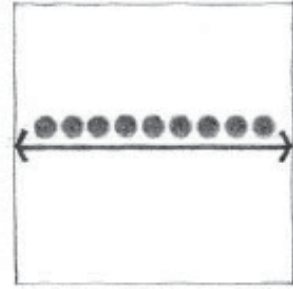
basic elements
processes
concept
spatial organization



Queen Hatshepsut's temple, Deir el-Bahari complex, Egypt, 1490-1460 BC



- *centralized
- ***linear**
- *radial
- *grid
- *combined



- *A series of forms arranged sequentially in a row.*

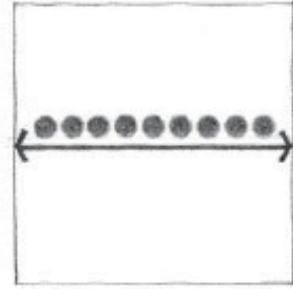
landscape uses:

- *direct the eye
- *direct the movement
- *datum
- *dividing edge
- *architectural extension
- ***human control**
- *create rhythm

There are numerous examples of using the axis to suggest the *power* of a government, a deity, or important individual.

basic elements
processes
concept
spatial organization

- *centralized
- ***linear**
- *radial
- *grid
- *combined



• *A series of forms arranged sequentially in a row.*



*Saint Peter's Basilica and Square, Vatican City,
Rome, Italy, 17th century*

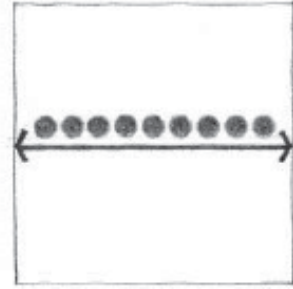
landscape uses:

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basic elements
processes
concept
spatial organization

- *centralized
- ***linear**
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- *grid
- *combined

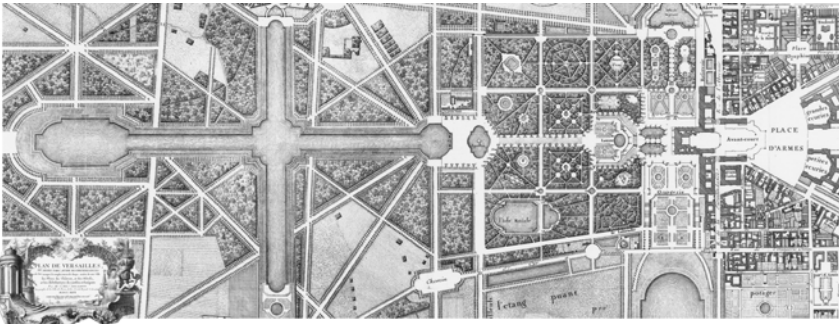


- *A series of forms arranged sequentially in a row.*



landscape uses:

- *direct the eye
- *direct the movement
- *datum
- *dividing edge
- *architectural extension
- ***human control**
- *create rhythm



The Gardens of Versailles, France, 17th century

There are numerous examples of using the axis to suggest the *power* of a government, a deity, or important individual.

basic elements
processes
concept
spatial organization

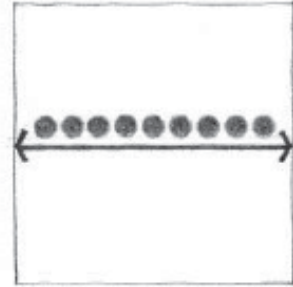
*centralized

***linear**

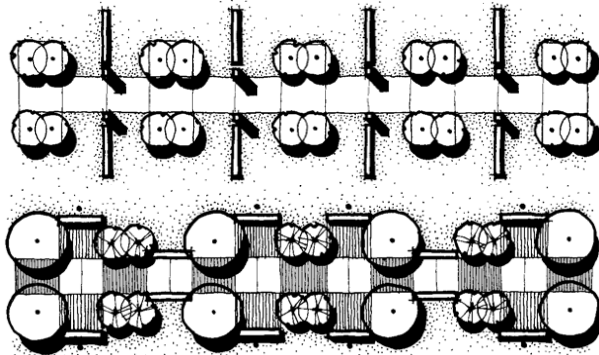
*radial

*grid

*combined



• *A series of forms arranged sequentially in a row.*



landscape uses:

*direct the eye

*direct the movement

*datum

*dividing edge

*architectural extension

*human control

***create rhythm**

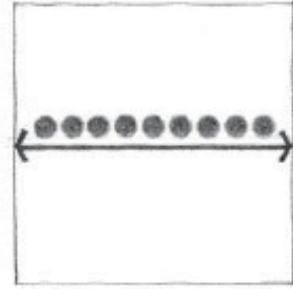


rhythm created along *the length of a line*

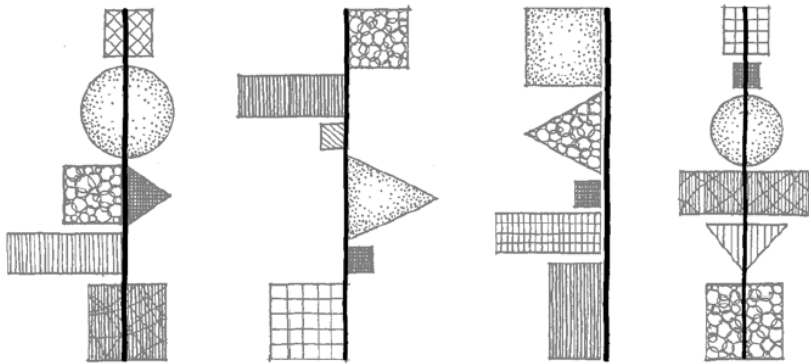
rhythm created *by vertical elements along a line*

basic elements
processes
concept
spatial organization

*centralized
***linear**
*radial
*grid
*combined

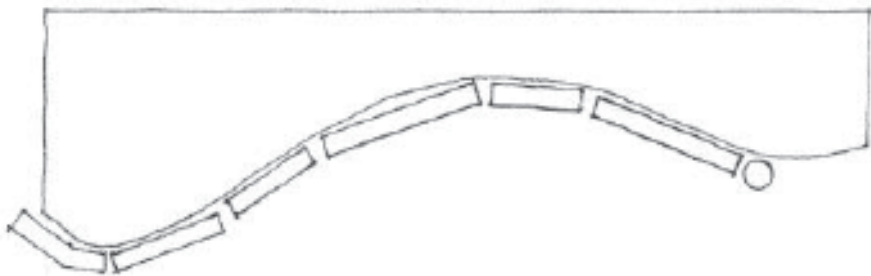


- *A series of forms arranged sequentially in a row.*



alternative strategies for creating a linear organization

An actual line can be, but does not necessarily have to be, delineated to produce a linear organization. *A linear organization may be straight, angled, curved, and so forth, depending on the design context and the desired disposition of movement along it.* All linear organizations regardless of alignment emphasize extension, directionality, and movement. Cadence or rhythm is established when multiple elements are spaced in a recurring pattern within the serial construct.



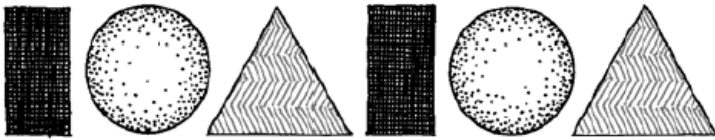
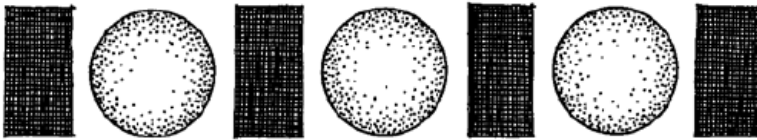
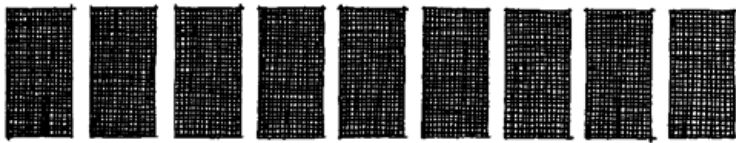
A linear form could be segmented or curvilinear to respond to topography, vegetation, views, or other features of a site.

basic elements

processes

concept

spatial organization



alternative strategies for creating a linear organization

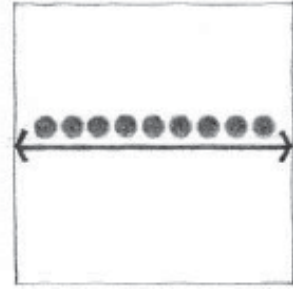
*centralized

*linear

*radial

*grid

*combined



- *A series of forms arranged sequentially in a row.*

One application of a linear organization is to establish a sequential series of spaces, one experienced before and after another. This forges a chronological progression through the landscape that intentionally choreographs movement, a particularly effective design structure in an elongated site.

basic elements

processes

concept

spatial organization

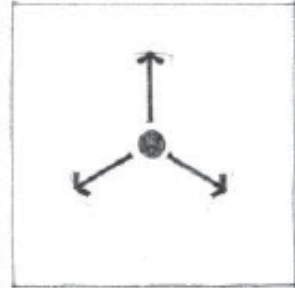
*centralized

*linear

*radial

*grid

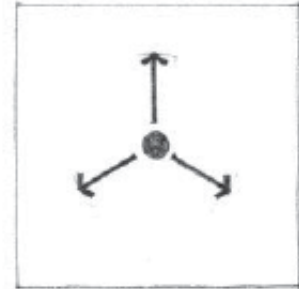
*combined



- *A composition of linear forms extending outward from a central form in a radial manner.*

basic elements
processes
concept
spatial organization

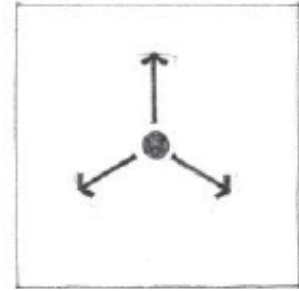
*centralized
*linear
*radial
*grid
*combined



• *A composition of linear forms extending outward from a central form in a radial manner.*

basic elements
processes
concept
spatial organization

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*linear
*radial
*grid
*combined



• *A composition of linear forms extending outward from a central form in a radial manner.*



CENTRUM ODORF, Innsbruck, Austria, 2006

basic elements
processes
concept
spatial organization

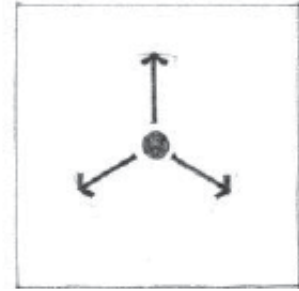
*centralized

*linear

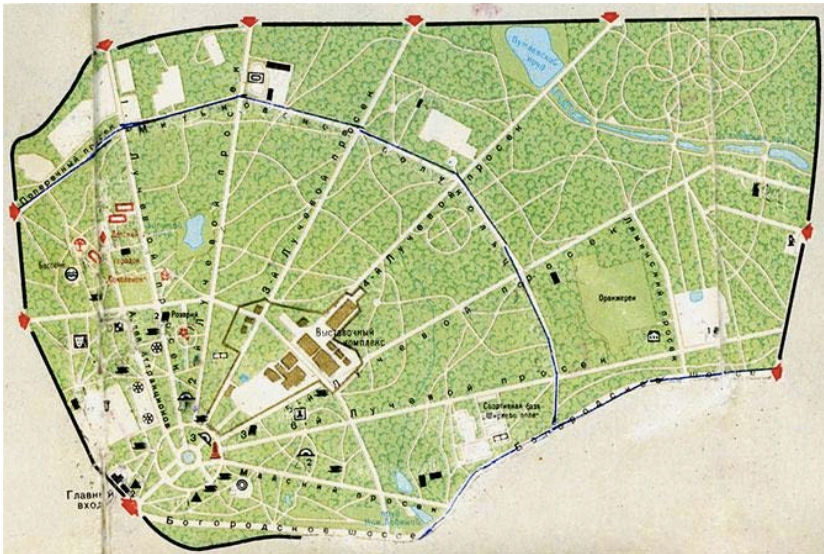
*radial

*grid

*combined



• *A composition of linear forms extending outward from a central form in a radial manner.*



<http://www.landezine.com/index.php/2010/05/platz-der-einheit/china-katalog/>

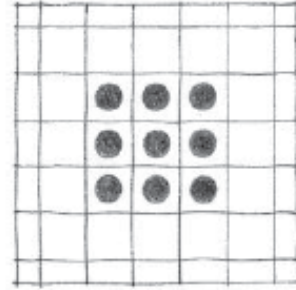
<http://www.landezine.com/index.php/2011/08/landscapearchitecture-square-innsbruck/>

Sokolniki Park, Moscow, Russia



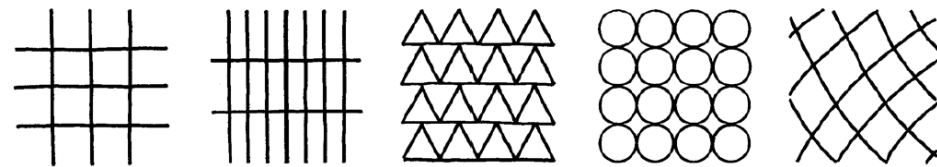
basic elements
processes
concept
spatial organization

*centralized
*linear
*radial
***grid**
*combined



- *A set of modular forms related and regulated by a three-dimensional grid.*

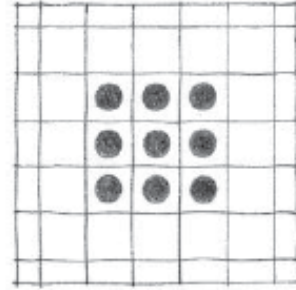
it is formed by repeating forms and lines in sets of parallel rows



A grid organization is an armature for orchestrating various landscape design elements and spaces along its lines, at the intersection points, and/or in the interstitial modules. The static dimensions, orientation, and position of the grid lines assures that all the design elements will align with one another and be unified by the common size of the area in which they are placed. A grid can be limitlessly added onto or subtracted from, thus permitting it to acclimate to either a site with uniform conditions or one with numerous impediments. Finally, a grid potentially provides choices of movement along its lines, a distinct difference to a linear organization.

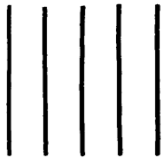
basic elements
processes
concept
spatial organization

*centralized
*linear
*radial
***grid**
*combined

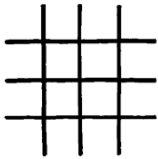


• *A set of modular forms related and regulated by a three-dimensional grid.*

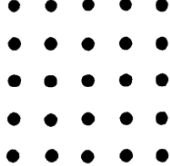
line grid



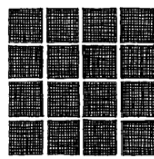
mesh grid



point grid



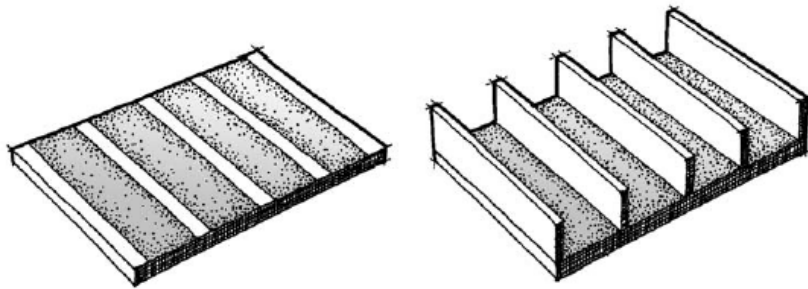
modular grid



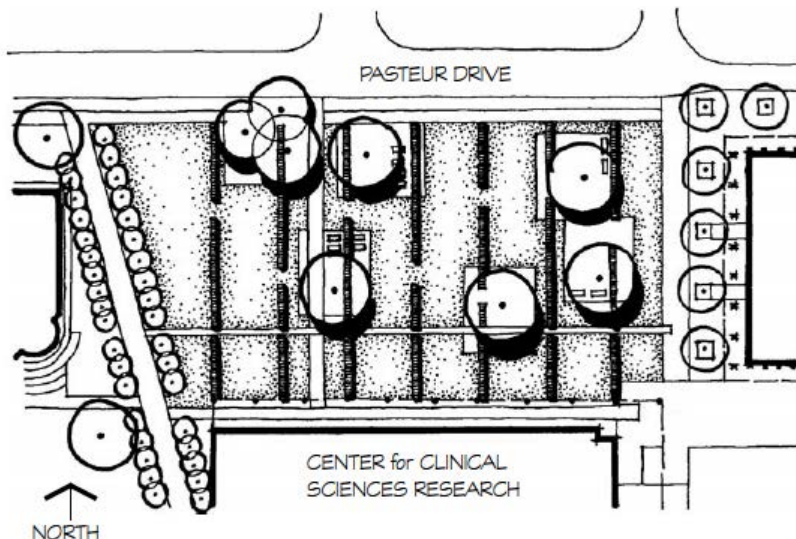
grid typologies:

*line grid
*mesh and modular grids
*point grid
*fusion of all

basic elements
processes
concept
spatial organization

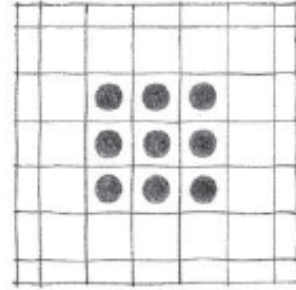


a line grid can be expressed two dimensionally or three-dimensionally



the regularity of a line grid can harmonize otherwise unrelated design elements

- *centralized
- *linear
- *radial
- ***grid**
- *combined



- *A set of modular forms related and regulated by a three-dimensional grid.*

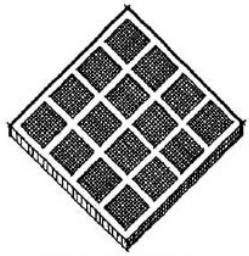
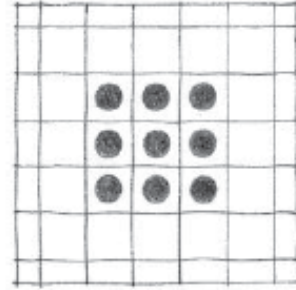
grid typologies:

- ***line grid**
- *mesh and modular grids
- *point grid
- *fusion of all

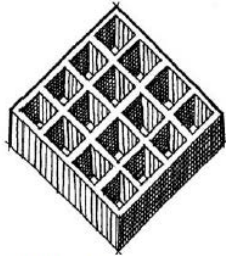
The line grid, or discontinuous line grid, uses the straight line to create a field of parallel gestures composed of two- or three-dimensional lines, bands, or rows of independent elements

basic elements
processes
concept
spatial organization

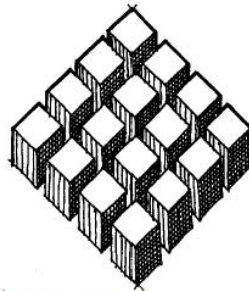
- *centralized
- *linear
- *radial
- ***grid**
- *combined



2d mesh/modular grid



3d mesh grid

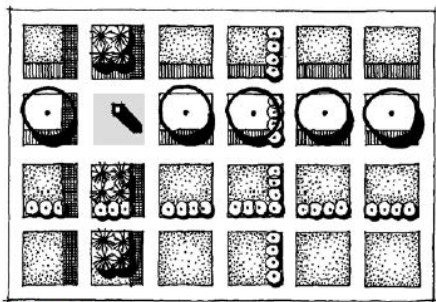


3d modular grid

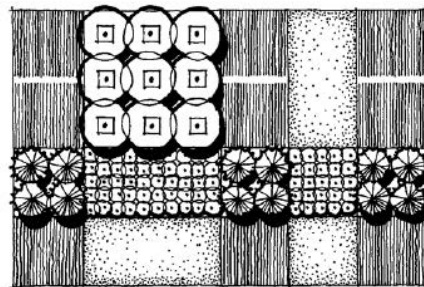
- *A set of modular forms related and regulated by a three-dimensional grid.*

grid typologies:

- *line grid
- ***mesh and modular grids**
- *point grid
- *fusion of all



mesh grid

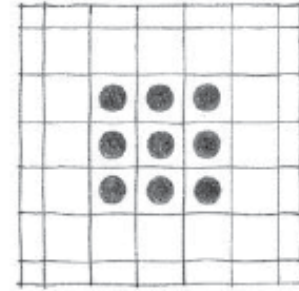


modular grid

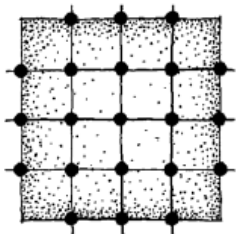
The *mesh grid*, also called a line continuous grid, is established by overlapping two sets of parallel lines perpendicular to each other.
The *modular grid* or shape grid is composed of the interstitial areas that are formed between the grid lines and is a matrix of spaces.

basic elements
processes
concept
spatial organization

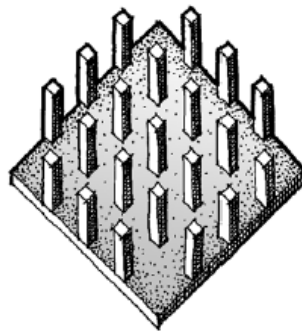
*centralized
*linear
*radial
*grid
*combined



• *A set of modular forms related and regulated by a three-dimensional grid.*



2d point grid



3d point grid

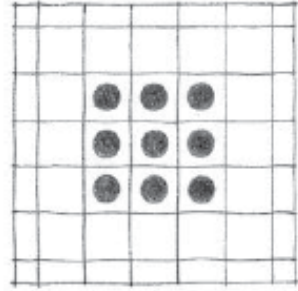
grid typologies:

*line grid
*mesh and modular grids
*point grid
*fusion of all

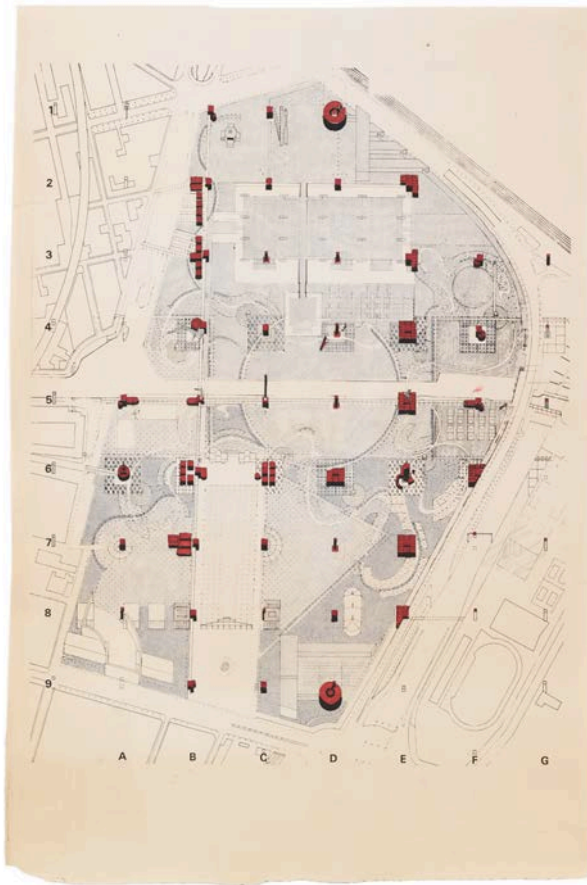
The points are conventionally expressed by placing an element at each junction, forming a uniform field of evenly spaced, independent members. Each element exclaims the intersection of the grid lines though its individual significance is tempered when it is seen among other corresponding elements.

basic elements
processes
concept
spatial organization

- *centralized
- *linear
- *radial
- *grid
- *combined



- *A set of modular forms related and regulated by a three-dimensional grid.*

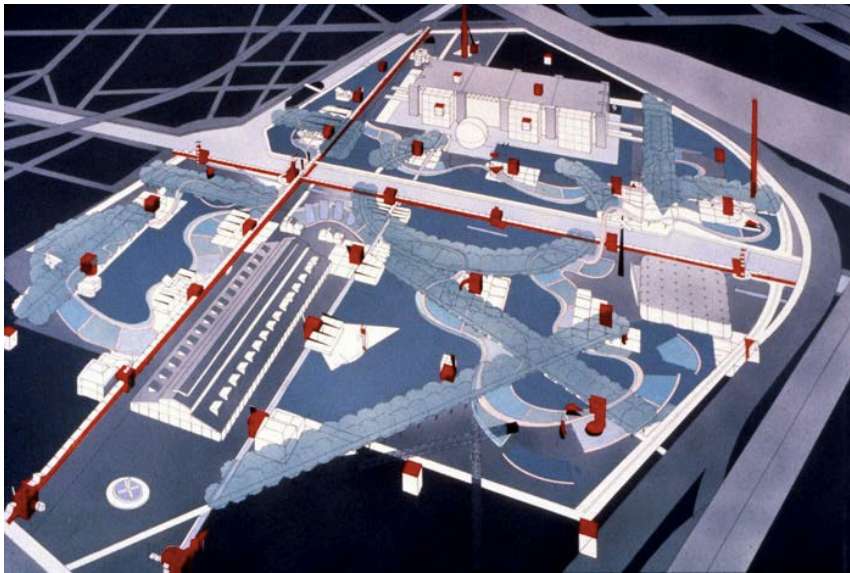
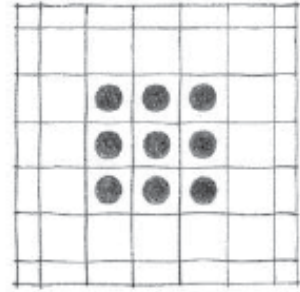


grid typologies:

- *line grid
- *mesh and modular grids
- *point grid
- *fusion of all

basic elements
processes
concept
spatial organization

- *centralized
- *linear
- *radial
- ***grid**
- *combined



- *A set of modular forms related and regulated by a three-dimensional grid.*

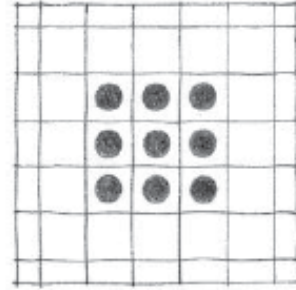
grid typologies:

- *line grid
- *mesh and modular grids
- ***point grid**
- *fusion of all

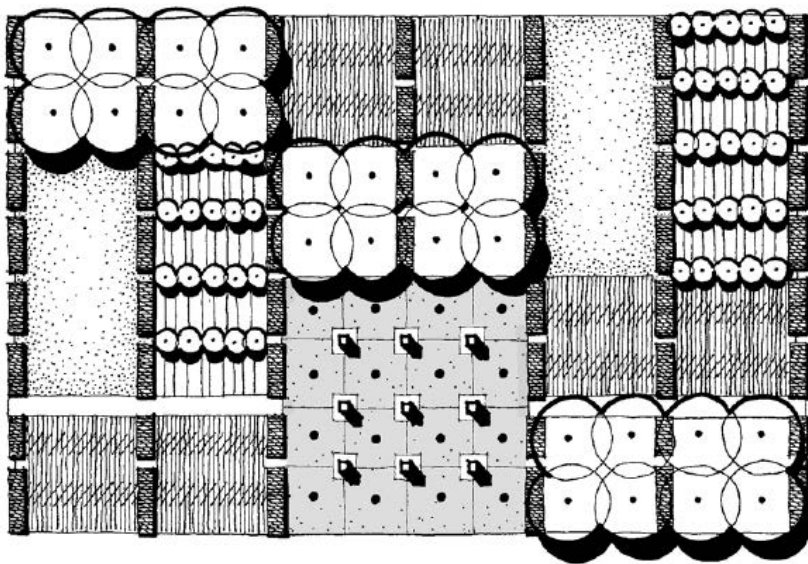


basic elements
processes
concept
spatial organization

- *centralized
- *linear
- *radial
- ***grid**
- *combined



- *A set of modular forms related and regulated by a three-dimensional grid.*



grid typologies:

- *line grid
- *mesh and modular grids
- *point grid
- ***fusion of all**

Typically, one grid type is used to establish the overall framework within which the other types are placed in a supporting role.

a design based on a fusion of the four basic grid types

basic elements

processes

concept

spatial organization

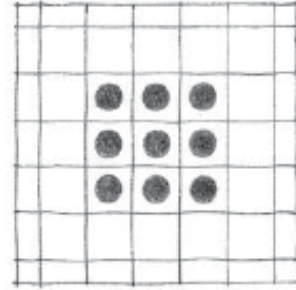
*centralized

*linear

*radial

*grid

*combined



• *A set of modular forms related and regulated by a three-dimensional grid.*

landscape uses:

*spatial foundation

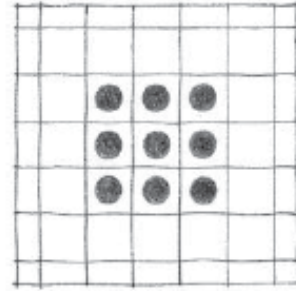
*site coordination

*site detail

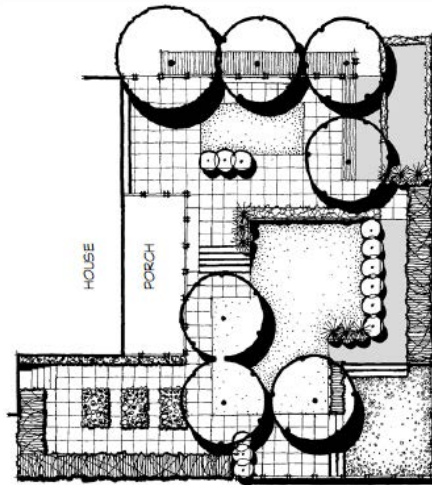
*urban fit

basic elements
processes
concept
spatial organization

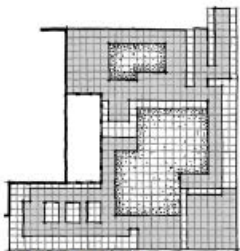
- *centralized
- *linear
- *radial
- ***grid**
- *combined



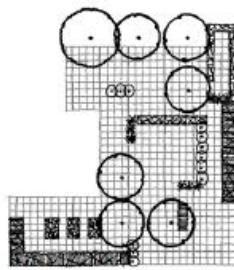
• *A set of modular forms related and regulated by a three-dimensional grid.*



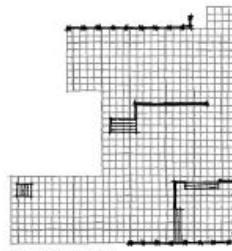
- landscape uses:
- ***spatial foundation**
 - *site coordination
 - *site detail
 - *urban fit



PAVEMENT & LAWN



PLANT MATERIALS

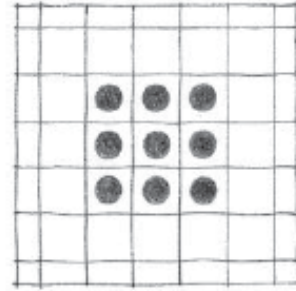


STRUCTURES

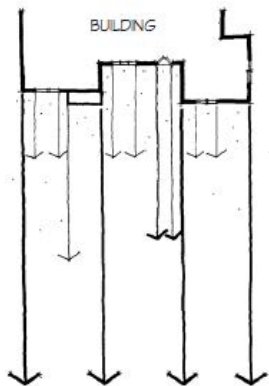
garden based on a three foot grid

basic elements
processes
concept
spatial organization

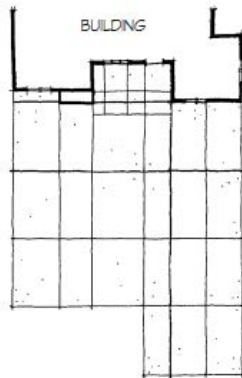
- *centralized
- *linear
- *radial
- ***grid**
- *combined



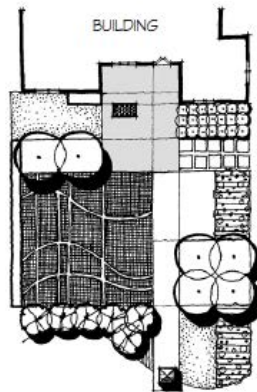
- *A set of modular forms related and regulated by a three-dimensional grid.*



LINES EXTENDED INTO SITE from
PROMINENT BUILDING FEATURES



GRID BASED ON ADJOINING
BUILDING



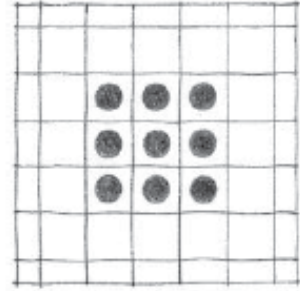
SITE PLAN BASED ON GRID

- landscape uses:
- *spatial foundation
 - ***site coordination**
 - *site detail
 - *urban fit

the use of the grid to visually coordinate a site and adjoining building

basic elements
processes
concept
spatial organization

*centralized
*linear
*radial
***grid**
*combined



• *A set of modular forms related and regulated by a three-dimensional grid.*

landscape uses:

*spatial foundation
*site coordination
***site detail**
*urban fit

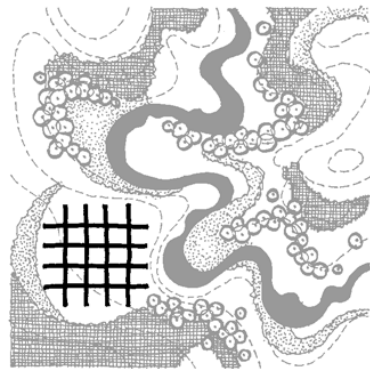
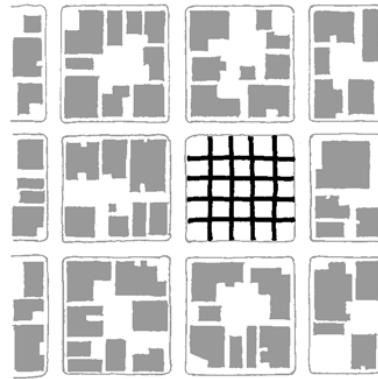
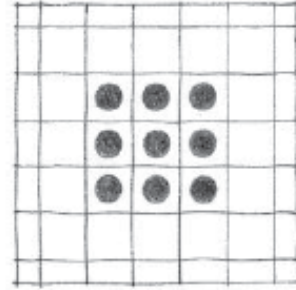


Decisions about shape, size, and location of detail elements are all made within the context of the site grid, a task that takes a great deal of forethought and planning throughout the entire design process. It also requires close coordination with a design's infrastructure including grading, placement of catch basins, location of pipes and wires, location of lights, and so on.

examples of site details conforming to a site grid

basic elements
processes
concept
spatial organization

*centralized
*linear
*radial
***grid**
*combined

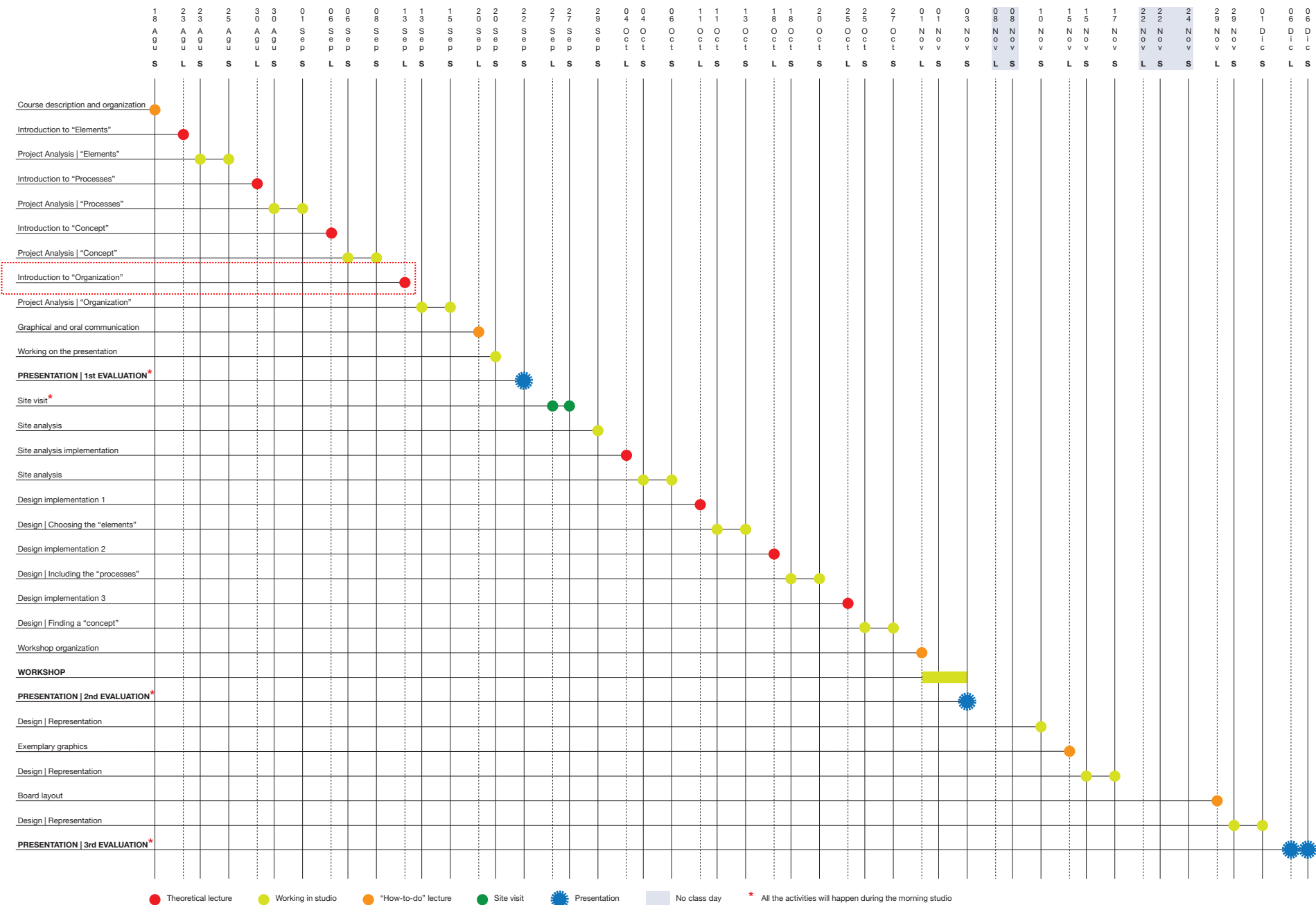


*the grid is in accord with the
urban landscape and in
contrast to a naturalistic one*

• *A set of modular forms related and regulated by
a three-dimensional grid.*

landscape uses:
*spatial foundation
*site coordination
*site detail
***urban fit**

SCHEDULE



[CONCEPT]

From the Merriam-Webster Dictionary

- an idea of what something is or how it works
- an abstract or generic idea generalized from particular instances
- something imagined or pictured in the mind

Synonyms abstraction, cogitation, idea, conception, image, impression, intellection, mind's eye, notion, picture, thought

[CONCEPT]

In design disciplines

- The organizing idea behind a design
- The main ideas that generate that specific design
- Unifying theme (conceptual/figurative)
- Overall guiding idea for a design
- A road map of the ideas of the project
- Leading idea for design

[CONCEPT]

In “Design Drawing” Francis Ching defines concept as “a mental idea or image capable of generating and guiding the development of a design.” Ching sets up some guidelines that all concepts should cover. A concept should be:

- Inclusive: capable of addressing the multiple issues of a design problem
- Visually descriptive: powerful enough to guide the development of a design
- Adaptable: flexible enough to accept change
- Sustainable: able to endure manipulations and transformations during the design process without a loss of identity

Ching, Frank, and Steven P. Juroszek. *Design Drawing*. New York: J. Wiley, 1998.

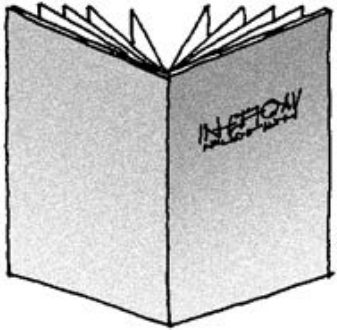
CONCEPT or PARTI (PRIS) or DEPARTURE POINT

A parti, sometimes called a theme or “big idea,” is the overriding concept that governs all aspects of design. It is akin to the plot in a novel, the underlying thread that weaves through the story and ties all characters and chapters together.

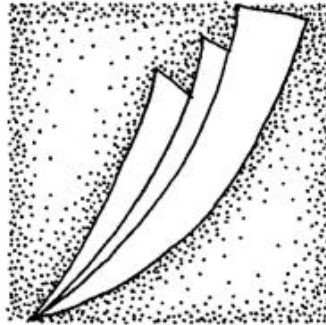
In landscape architectural design, a parti controls the overall **organization**, **character**, **appearance**, and **meaning** of a project. A parti also helps to give a design a sense of place, to make solutions site specific, and to stimulate creativity.

The parti of a landscape architectural site design can be based on many things, including the site context, site, client, users, program, other creative expressions (art, music, literature, photography, etc.), and anything else that provides an organizing structure.

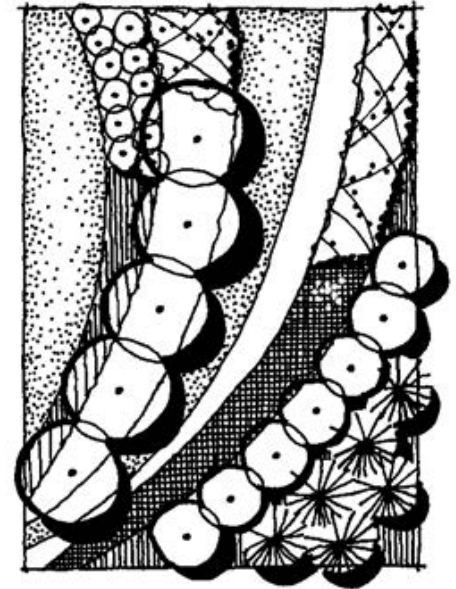
2.36 Examples of forms derived from a parti.



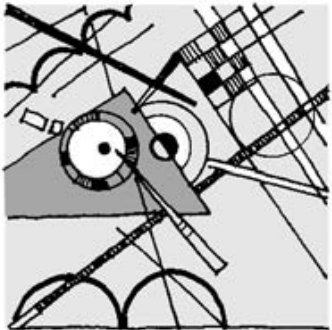
INSPIRATION



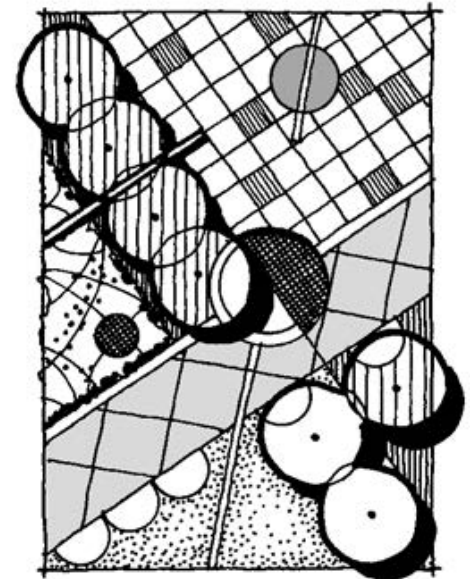
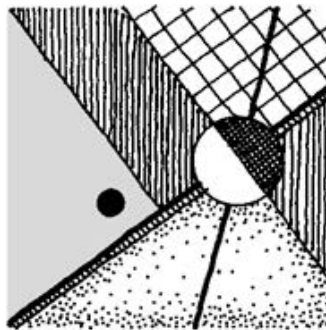
ABSTRACTION



RESULTING SITE PLAN

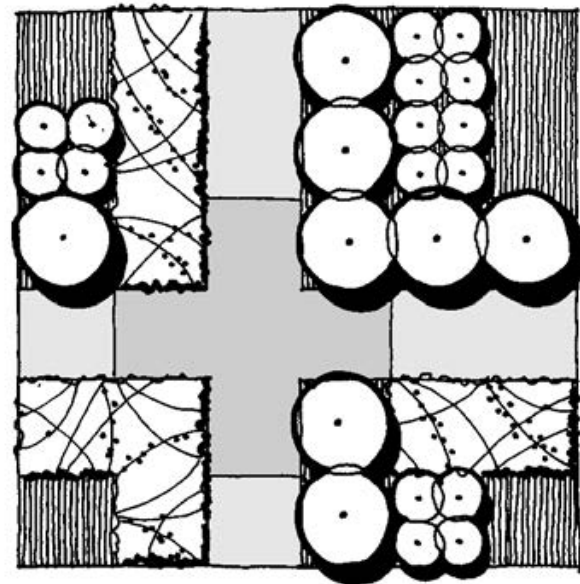
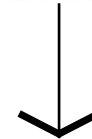
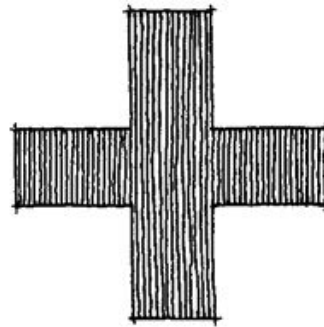
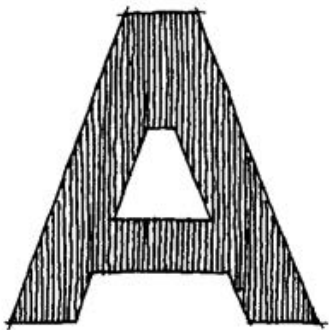


BASED ON
KANDINSKY'S
COMPOSITION VIII



CONCEPT OR PARTI

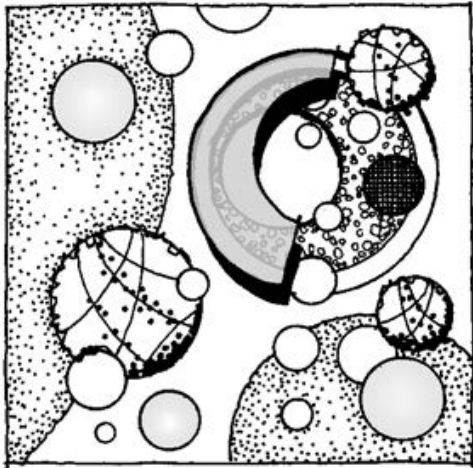
In addition, a parti can be **symbolic** or **metaphorical**. A site design based on a symbol uses a recognizable icon or shape such as a company or organization logo, universal signage character, flag, letter, outline of a familiar object, and the like.



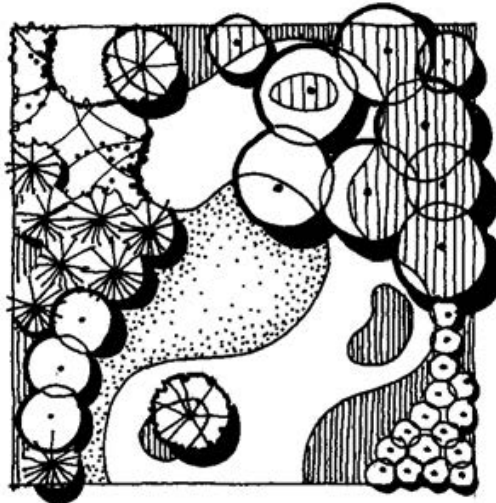
2.37 Examples of symbols and a resultant site design.

CONCEPT OR PARTI

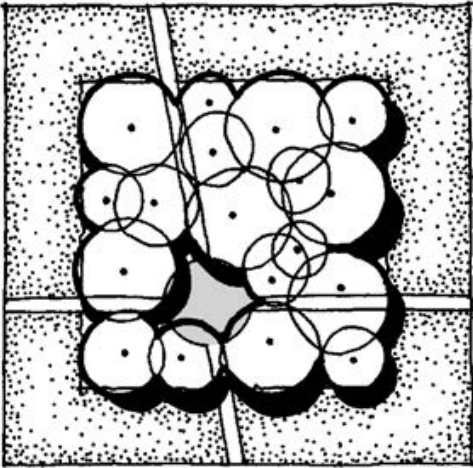
A **metaphorical** landscape is similar and is evocative of a distinct environment, object, or feeling like a grove, prairie, winding river, fish, moon surface, secret garden, and so forth. One word of advice in using symbols and metaphors is that someone experiencing the landscape should recognize and understand them. Symbols and metaphors should not be appreciated only when viewing from above in plan view.



MOONSCAPE



WINDING RIVER



The GROVE

2.38 Examples of site designs based on metaphor.



Which are the aspects that can determine or influence the concept development?

1

The **SITE** and its **CONTEXT** so that the eventual design solution can be sensitively and creatively calibrated to fit the unique circumstances of the site. Physical, environmental, social, cultural, historical, and regulatory information about a site should be evaluated in order to determine how existing qualities and features of the site should shape the eventual design.

Other physical factors that should be studied for their possible impact on the structure and forms of a site design are: regional character, site context, and site macro patterns and features.

2

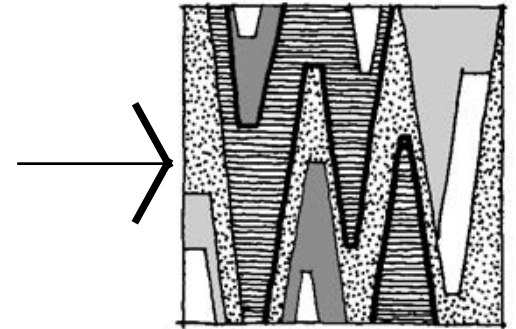
REGIONAL CHARACTER

Every geographic region has a distinct visual and physical character that is forged by topography, geological forms and features, prevailing vegetation species, water bodies, climate, and so on. This natural persona of a region and that created by the human footprint on the landscape can frequently be drawn upon for suggesting forms on a particular site. One means for interpreting regional character is to identify broad natural and human patterns from large-scale maps and aerial photographs. Another technique is to abstract specific features or elements of the regional landscape.



2.30 Above: Examples of different regional topographic patterns.

2.31 Below: Examples of distinct regional characters.



ABSTRACTION

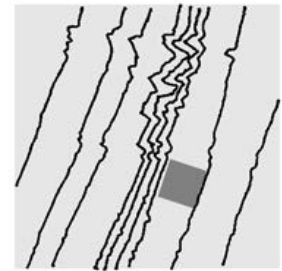
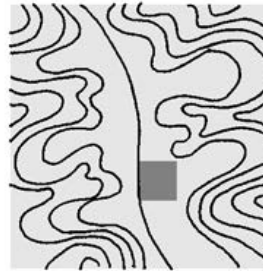
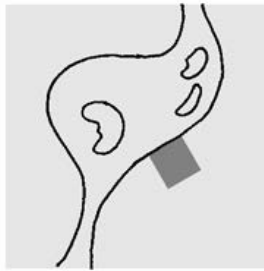
3

SITE CONTEXT

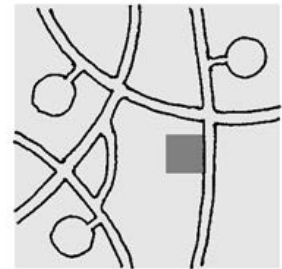
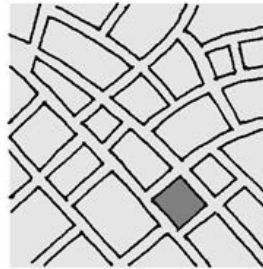
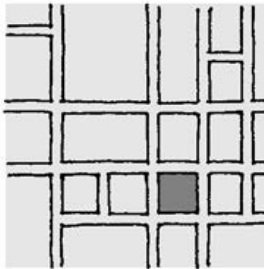
Similar to the regional character, there are a number of natural and human factors in the immediate surroundings of a site that can be drawn upon to suggest site design form. Among these factors are distinguishing natural features like water bodies and topography, adjoining streets and roads, footprint and orientation of nearby buildings, direction and point(s) of arrival, notable views to and from site, and so on.

2.32 Contextual patterns that can potentially inform the forms on a site.

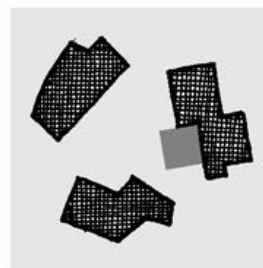
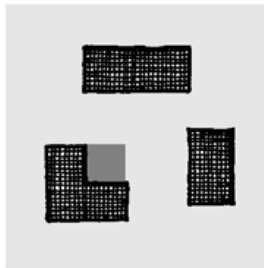
NATURAL FEATURES



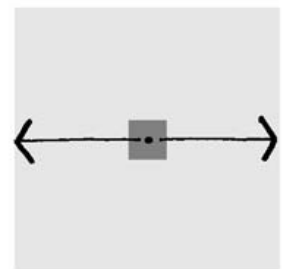
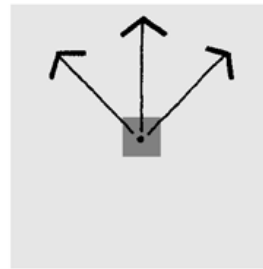
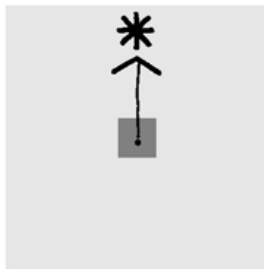
ROADS/STREETS



BUILDINGS



VIEWS



4

MACRO PATTERNS AND FEATURES

Potential forms for a design project can also be discovered in the macro patterns and unique features within a site's boundaries. Macro patterns are the sweeping configurations established by the edges, distribution, and general shape of topography, geological formations, vegetation, water bodies, infrastructure, circulation routes, buildings, and so on. A good method for seeing comprehensive patterns is to represent them as simple lines and masses on a significantly reduced site map. This forces one to concentrate on the gross pattern, not the detail. These simple drawings can be abstracted even more to portray the very essence of a pattern.

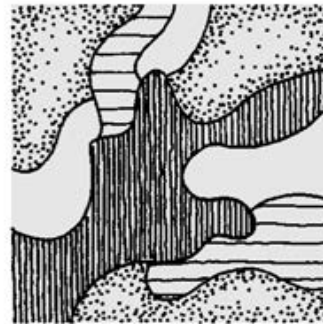
TOPOGRAPHY



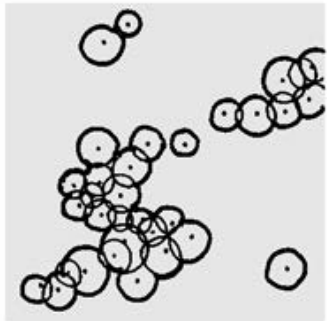
WATER



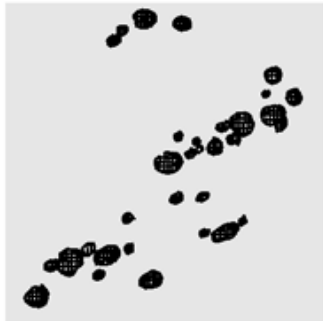
VEGETATION



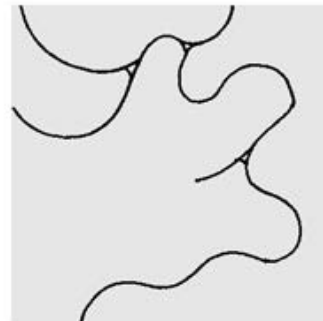
TREES



BOULDERS

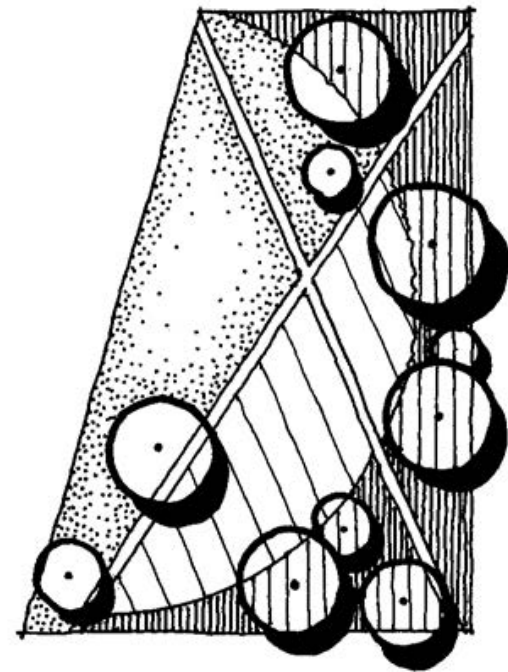
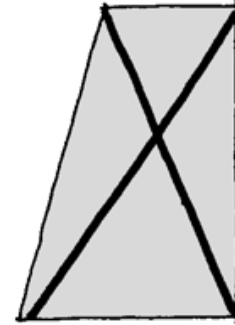
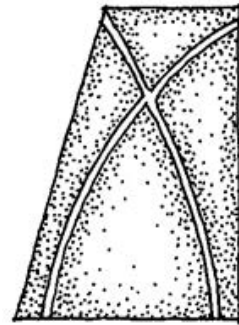
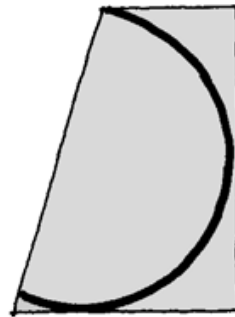
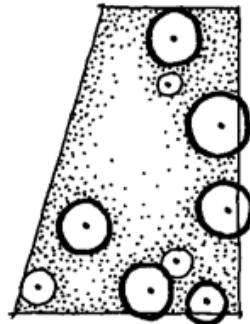
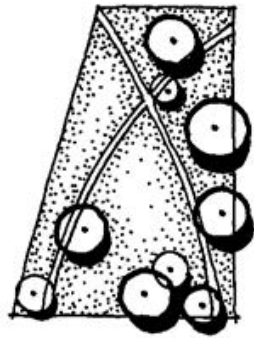


PATHS



2.33 Sample macro site patterns that may affect design forms on site.

In this example, a green space with scattered trees is dissected by diagonal paths. To establish a design for the setting, the trees and paths are abstracted into simple geometric shapes that serve as the inspiration for a design.



SITE ELEMENT

ABSTRACTION

RESULTING SITE DESIGN

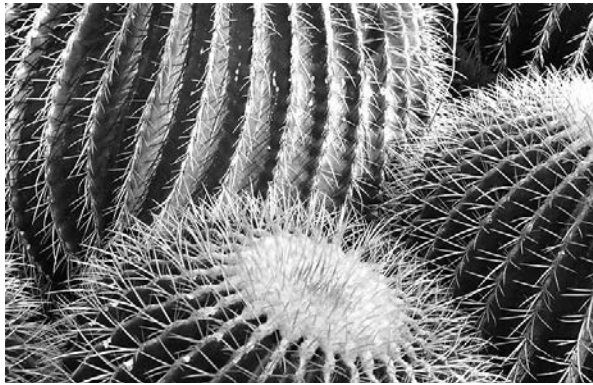
5

OTHER SITE FACTORS

There are other site factors that should be studied as well, including the **overall configuration** of the site (size, shape, and proportion), **significant site features** (like a distinctive geological formation, sculptural tree, dominant vegetation type), **existing buildings** (footprint, shape, organizational structure, architectural style), **remnants of past human use** (building foundations, walls, tree rows, land uses), and **existing land uses** (size, shape, and location), and on-site and off -site **views**.

Furthermore, many **individual details** on a site such as predominant leaf shape, stratification of exposed rocks, branch configurations, groupings of stone along a water's edge, and so forth all imply a possible organizational structure and form for a site design.

2.35 Site details that could influence design forms.



TED Global 2009

Bjarke Ingels: 3 warp-speed architecture tales

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