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Examiner Supervisor Christer Malmström Bernt Nilsson

#### INTRODUKTION

I mitt examensarbete har jag valt att undersöka utformningen av en utomhusteater och hur denna kan integreras i sin spektakulära kontext; en kusttomt i Portugal.

Min strategi och metod har utgått från ett givet program samt deltagandet i idétävlingen "ArkxSite - Theatre". Problematiken i att planera och designa en harmoni mellan "kontrollerad" och "okontrollerad" har därefter varit ledande under examensarbetet.

I denna rapport beskriver jag den undersökande designprocessen genom att dela upp berättelsen i "förundersökning" och "utveckling". Förundersökningen resulterar i tävlingsförslaget "Competition entry" (s.42) och utvecklingen resulterar i "Final proposal" (s.60). Mellan dessa designfaser har jag valt att redovisa en sammanfattad reflektion av förundersökningen (s.54).

Arbetet och designmetoden behandlar därför två förslag, av den anledningen har jag valt att presentera både "Comeptition Entry" och "Final proposal" som två skiljda designförslag.

#### Introduction

Site	<b>#</b>	р. 7-17
Program	ABC	р. 19
What is a theatre?		p. 20-29
Design incentives		p. 30- 41
Competition entry Crevice		p. 42- 53
Evaluation	1	p. 54-59
Final proposal Crevice		р. 60-79
References		р. 80-81

#### Site



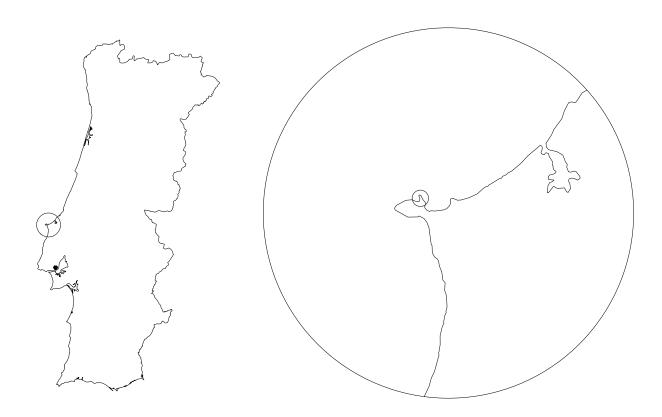
Peniche, Portugal



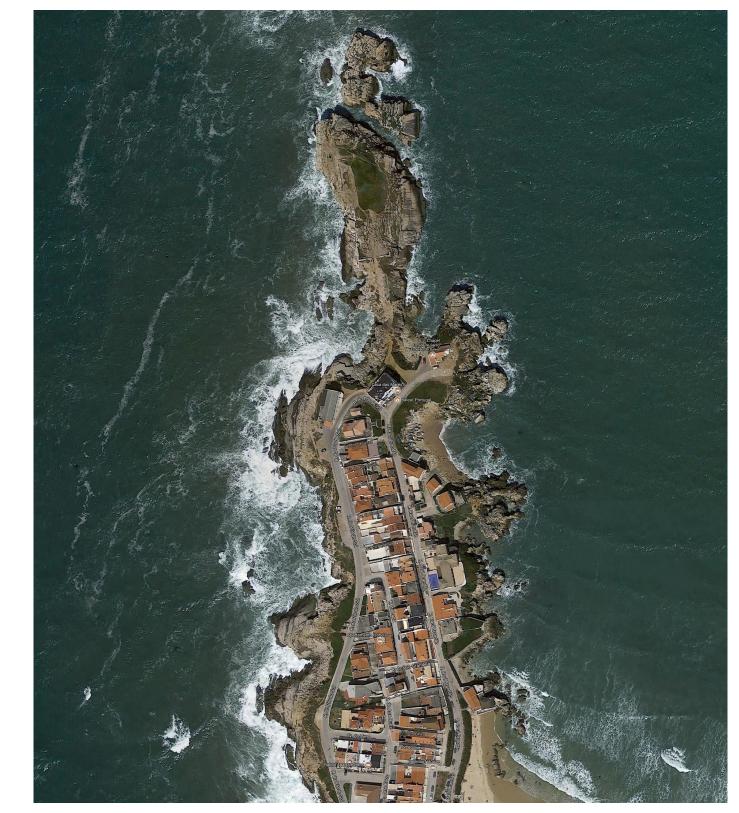
Natural

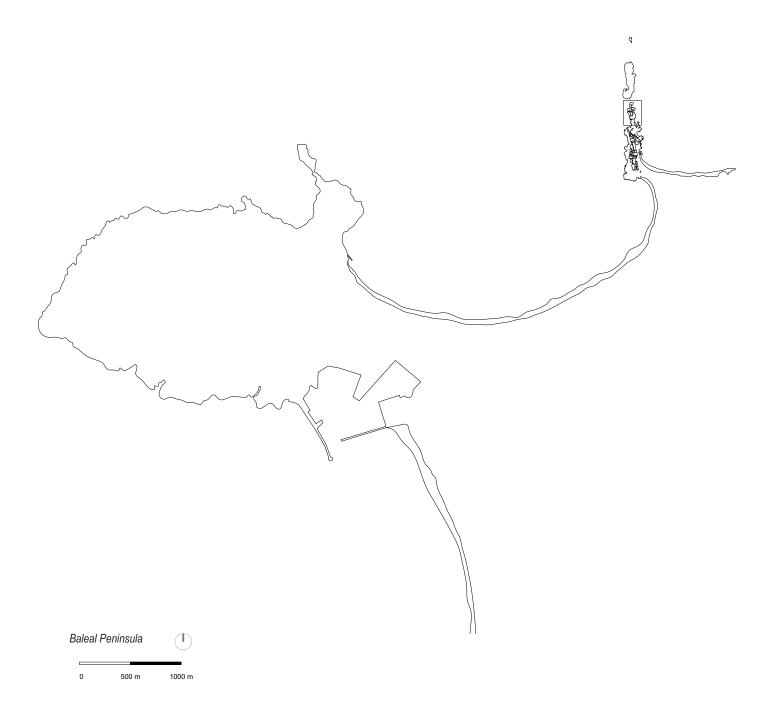
Windy

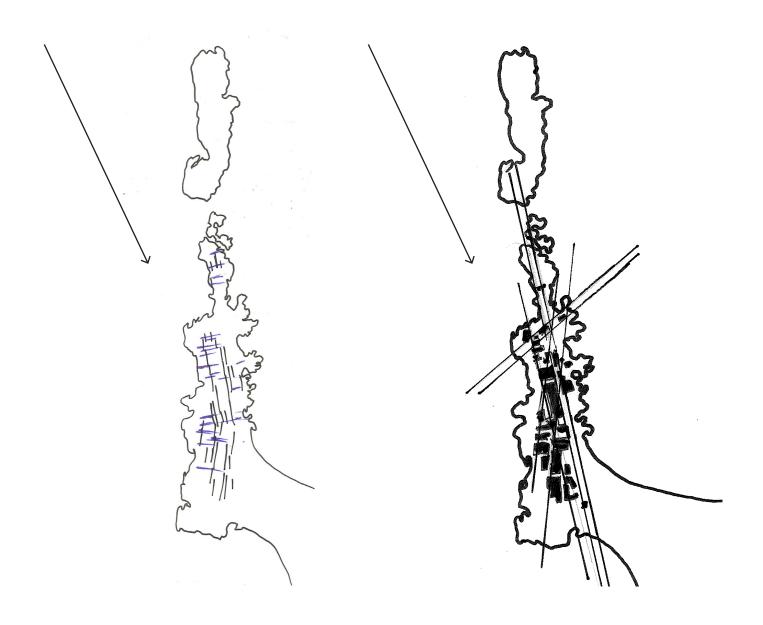
Surfspot



Portugal Peniche







Study:
Direction of built surrounding
Direction of wind

Site features



fortress - ruins

The proposal must acknowledge the historical context. Ruins occuping the area are of interest and could contribute to the design.



Spectating

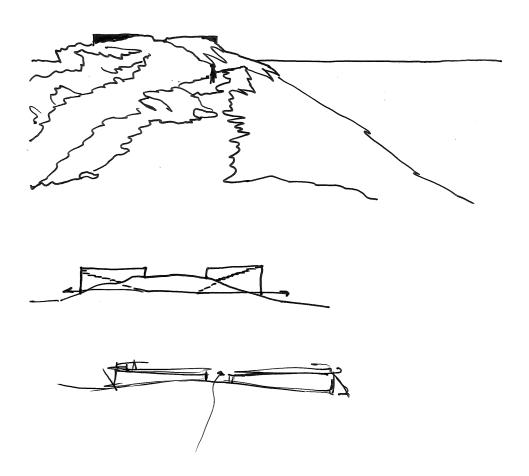
Spectacting will be a important feature for the planning and design.



Coastal

Baleal is a peculiar and intrusive location. The proposal must harmonize with its prerequsites.

Ruins forming an entrance to the site



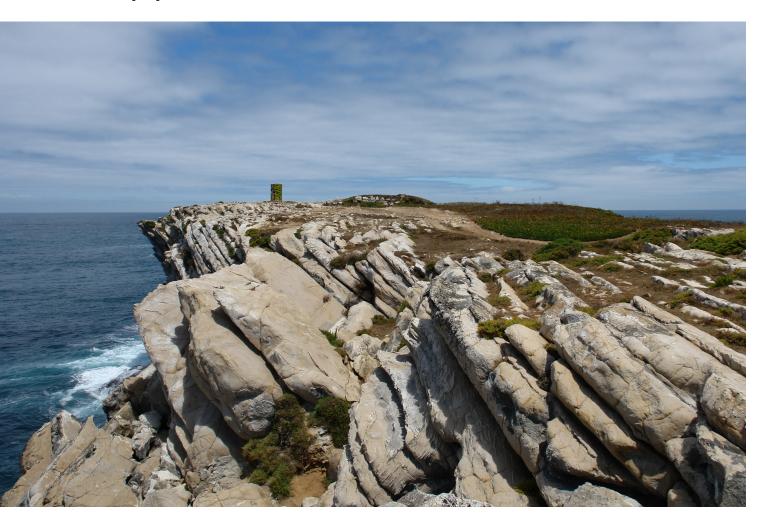
Ruins forming an entrance to the site



The natural landscape of Baleal possess an obvious direction of motion; it leans upwards towards the west.



Baleal is made out of intensly eroded limestone. The formation has a peculiar shape which attracts tourist and geological enthusiasts.



Great winds from north west has shaped the formation of the landscape through erosion.





# Open-air theatre

#### Outlines

•	Entrance	15 kvm	
•	Performance space	Flexible	
•	Outdoor seating	200 specta	ators
•	Dressing area w/private res	strooms	20 kvm
•	Café	40 kvm	
•	Restrooms	20 kvm	
•	Storage room	15 kvm	



#### Search: Theatre

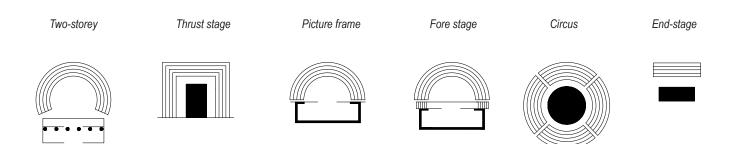
The history of theatre production and architecture can be traced back to 500 B.C. The auditorium is one of our civilisations most developed architectural designs and has surprisingly been proven to gain successful acoustics in the open-air in ancient designs.

The following chapter contains observations and studies of the relationship between auditorium and stage.



# Typology

Stages



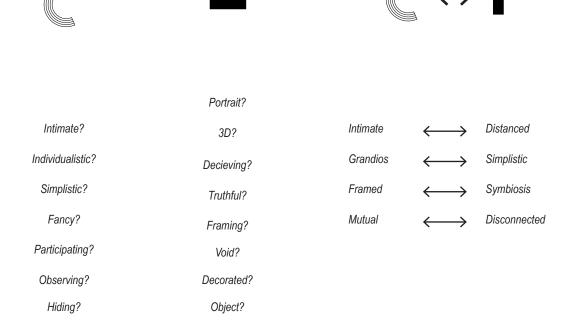




210-220 degree 180 degree Circus 90 degree fan Multi-tiered Traverse

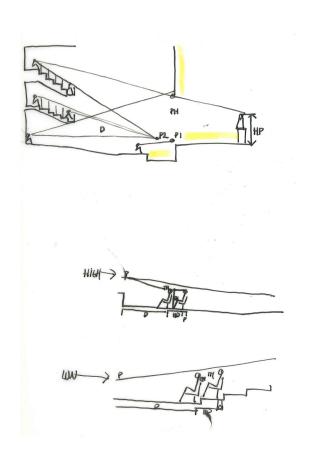
# Relationship

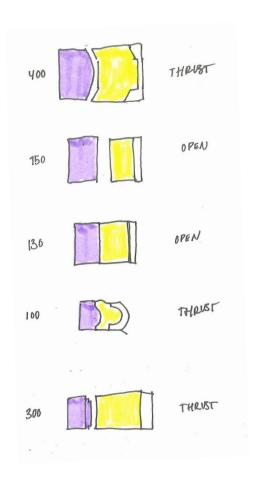
Stage - auditorium

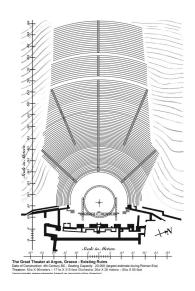


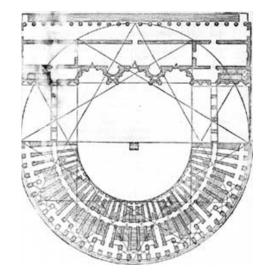
Studies

Scale





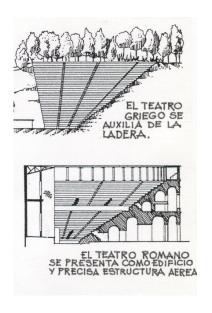


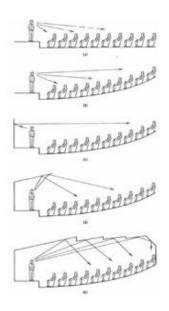


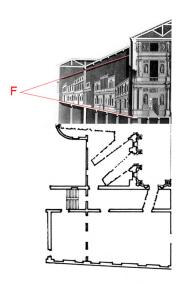
Great theatre at Argos, 500 B.C

Vitruvio geometric study

• Symmetry







#### Construction

• Entrance and programmatic ideals

# Acoustic diagram

Indoor acoustics

## Teatro Olimpico, 1580

Arranged perspective

23 A.D

500 B.C

#### Elisabethan

#### Baroque

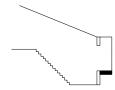
#### Wagner

- Contraction of actoraudience relation
- Theatrum mundi: "the world is a stage"
- Dialogue between theatre and visual arts.
- Directed toward a new enlightened audience
- Class-less theatre
- One mystical sound
- and a indefinite barrier between two worlds
- (auditorium stage)
- Modern realistic.
- Settings are environments instead of backgrounds.
- Actors intimacy with audience

- Outdoor stagehouse
- Thrust stage
- Reintroduction of the proscenie format creating the "Picture-frame"
- Intro of double proscenie
- Popular: thrust stage and arena format



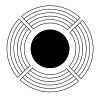
Introduction of galleries and boxes



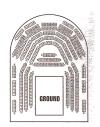
Often rectangular in shape



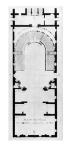
- Return of the single-tier and steeply raked auditorium.
- Fan-format
- Orchestra-pit to create chasm between two worlds



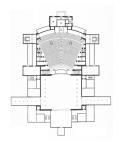
Multi functional spaces



The Swan Theatre, 1595



Farnese Theatre, 1618



Bayreuth 1872



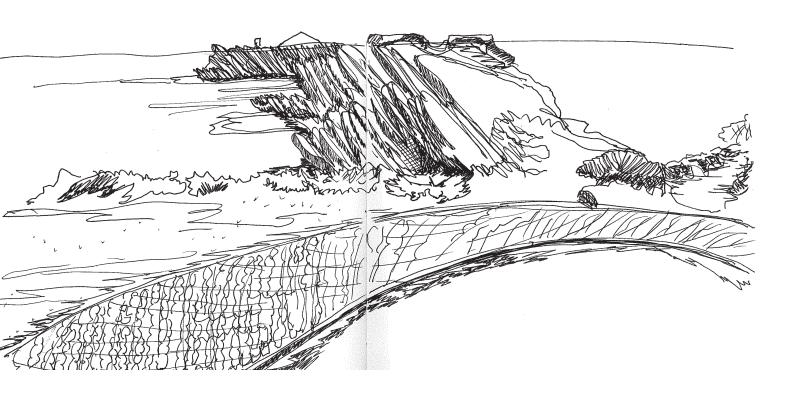
Parco Della Musica, 2002

# Design incentives



The early concept of design, prior to research, derived mainly from intuition, initial explorations of the site and common principals of theatre design.







#### Excavation

The incentive is to create intimacy with the landscape of Baleal and provide shelter from exposure.

To achieve this, a distinct excavation will be the leading approach. Built structure on top of the peninsula would be much exposed and eroded by climate. Rooms will therefore be partially carved out of the natural limestone.

Due to the excavation of the cliff the concept of framing could be used for providing a "door into the topography" as visualized in the sketch (2).



1.



DOOK FOR TO POGRAPHY

2.

3.



DRAMATISERA TOPOGRAFINS INTRADE I SALONGEN

35

# The excavation has been planned to take place in close proximity to the ruins to revive their use as an architectural element and recall their presence. Additional structure, which relates to the dimensions of the ruins will be added to point out their historic context.

# Nesting

The concept of nesting provides with a unique exploration of adding structure inside of an already existing structure.

This approach relates to the nesting that occurs by animals in naturally sheltered places like tall trees, caves or inside logs.

The method does also explore a way to create unified space of landscape and architecture.

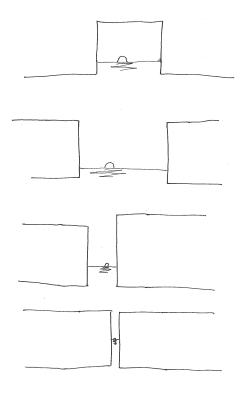


# Framing

Framing will be used to enhance the surrounding landscape and natural materials.

By limiting the extents of views, a more striking experience can be formed. I believe this approach is most efficient in landscapes with wide views, such as the Baleal.

Inspiring references of form has been gathered on the following pages.







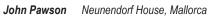


Souto de Moura Unknown

Unknown

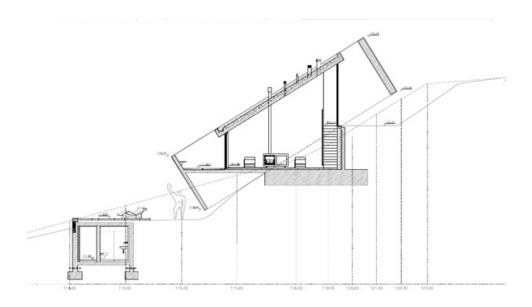
Wespi de Meuron House in Brissago







Oppenheim Wadi Rum Lodge, Jordan



Souto de Moura Ponte de Lima, Portugal





# Competition Entry

The initial search and design incentives thereof concludes in a complete architectural proposal for ArkxSite Theatre 2017 named Crevice.

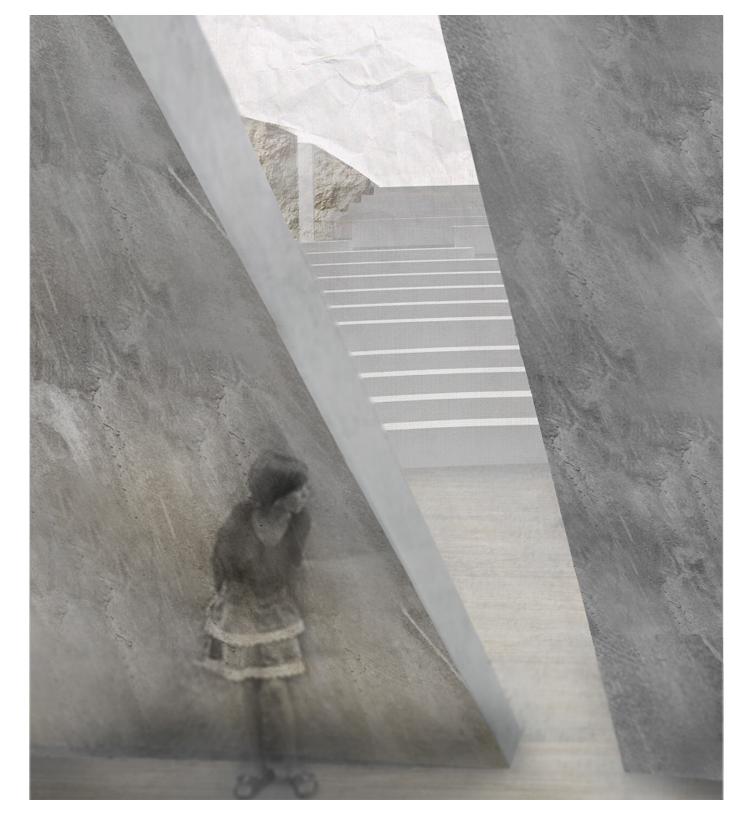
## THE IDEA:

Harmonizing the relationship between control and wilderness

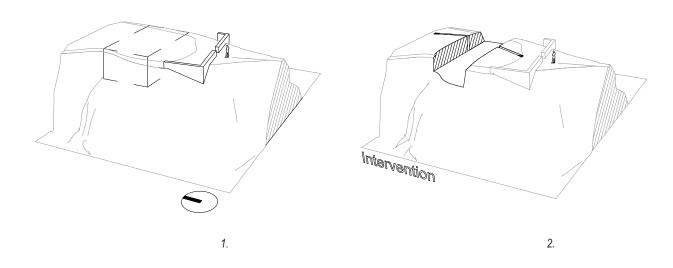
#### THE INCENTIVE

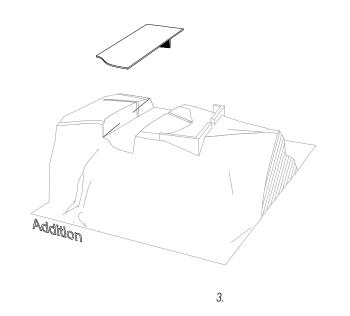
The intrusive sound of wind and waves at Baleal is a constant reminder of its proximity. You canot hide; on Baleal you are always exposed. The power and danger of climate can't be neglected when visiting the peninsula.

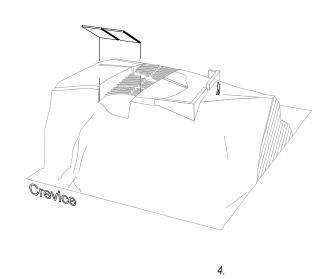
Like the desert lizard seek physical shelter in the natural crevice of its habitat, as do we seek hideaways to temporarily escape the social scene. The propsal, Crevice, seeks to define contrast between shelter and exposure without vulnerability in the dramatic environment of Baleal.

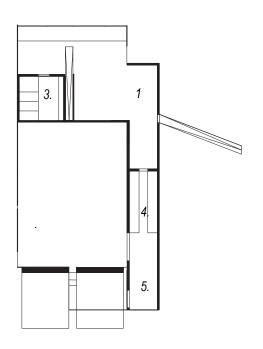


## STRATEGIC CONCEPT:





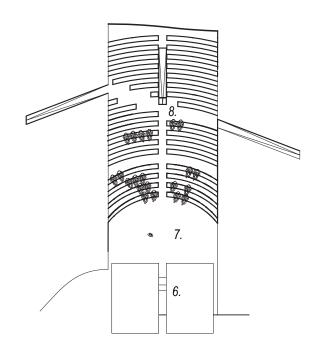




#### **UNDERNEATH SLAB**

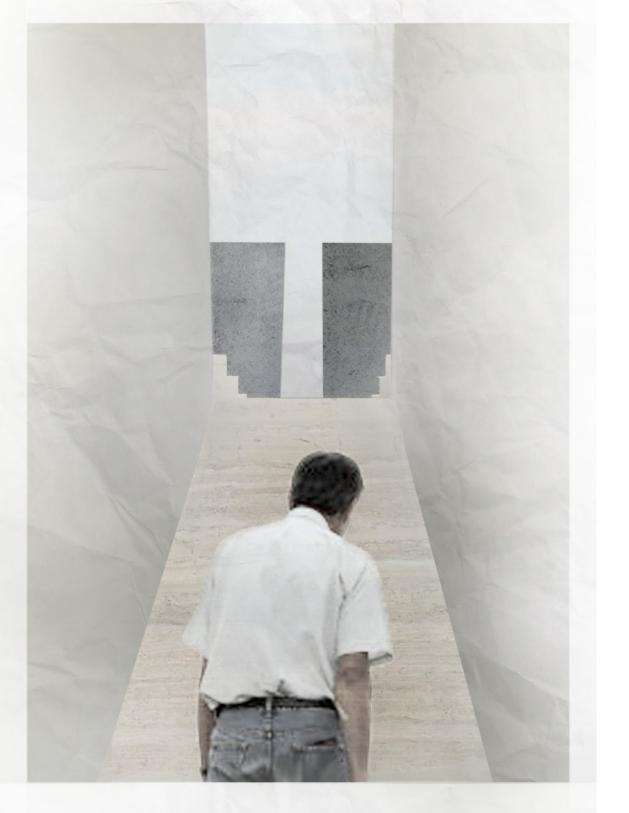
1. Foyér and café	86 m²
2. Entrance to auditorium	
3. Public restrooms	21 m <sup>2</sup>
4. Storage	14 m²
5. Dressing	24 m²

Tot.
145m²



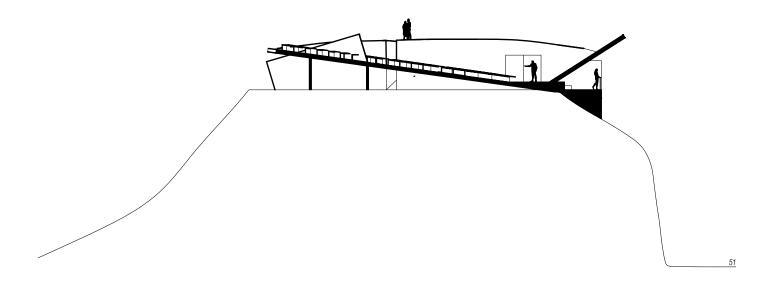
## ABOVE SLAB

Tot.
18 m² 60 m²



### **DESIGN**

The wilderness of the Baleal is a performance of its own; a performance which enters the theatre at all times. With a distinct excavation into the wild limestone landscape controlled space and shelter can take form. By using drill and saw the propsal aims to reveal the beautiful section cut from the rock mass and thus narrates an understanding of the landscape structure and creates intimacy with the site.







## **VISION**

The Baleal theatre uses the reality as its canvas and the immediate landscape as its scene. Actors appears from the reality, via the crevice and onto the scene; a representation of honesty. No filters, beautification or arranged perspective.

-6

Evaluation

#### Thoughts

During the evaluation of the proposal I realized that the material had failed to explain how it connects with the direction of landmass.

Therefore the architecture seemed "disconnected".

An explanation to this could have been the problems I met when modelling the topography. Neither 3D-tools nor physical modelling worked well to reconstruct the breathtaking landscape of Baleal. To strengthen my concepts I kept this issue in mind when producing new material.

The following topics which are explained in more detail on the following pages illustrates my priorities during this process:

- use of materials
- divisions of levels
- · directions of circulation and site

## 1. Materials

The cliff and the concrete is litterally the same material with two different processing. Therefore the design evolves in the border between these.

The concrete, as a material, could be seen as added to solve programmatic ideas and ambitions. Additionally, a third, more processed material could highlight the proposal and bring a new level of tactility to the area.



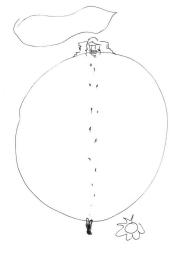


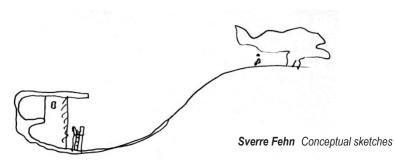
?

## 2. Division

As seen in the works of Sverre Fehn, the main feature of an architectural experience is often the divisions between sky, ground surface, horizon and surface of water.

This philosophy is definitely applicable in my project and I have decided to rework the architectural promenade to form an experience of this phenomenon.



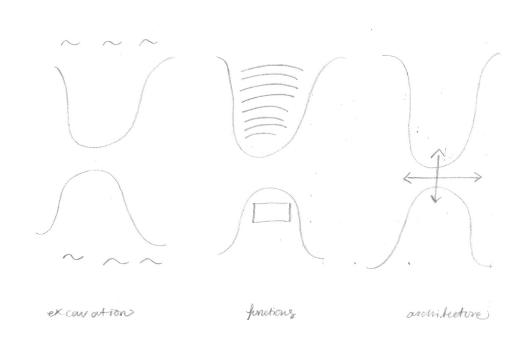


### 3. Directions

The early proposal does create a **new** direction of motion on the peninsula; east-west.

The intervention basically cuts the existing path of Baleal peninsula in half.

The meetingpoint of these two colliding directions will be further investigated as explained in the diagram to the left.





# Final proposal

Reconsidering earlier design statements and developing the competition entry into a stronger proposal with higher complexity.

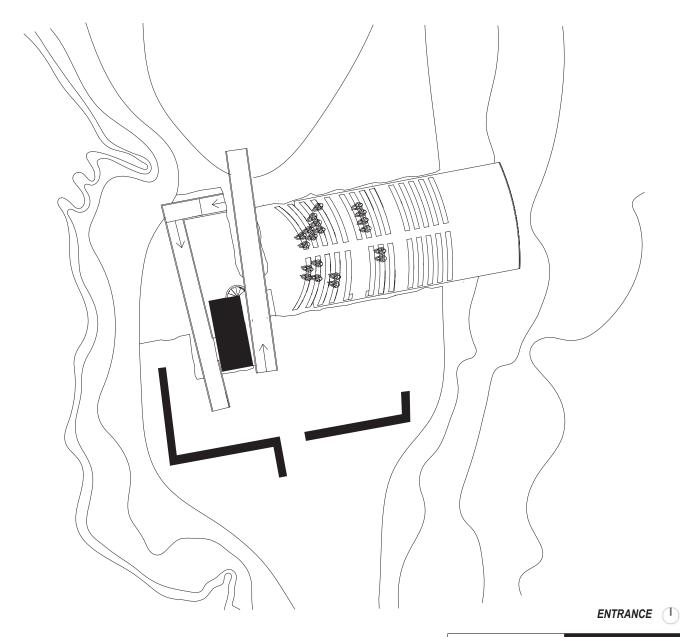
## THE IDEA:

An open air theatre on the coast of Portugal strives to prove a link between man-made and natural form.

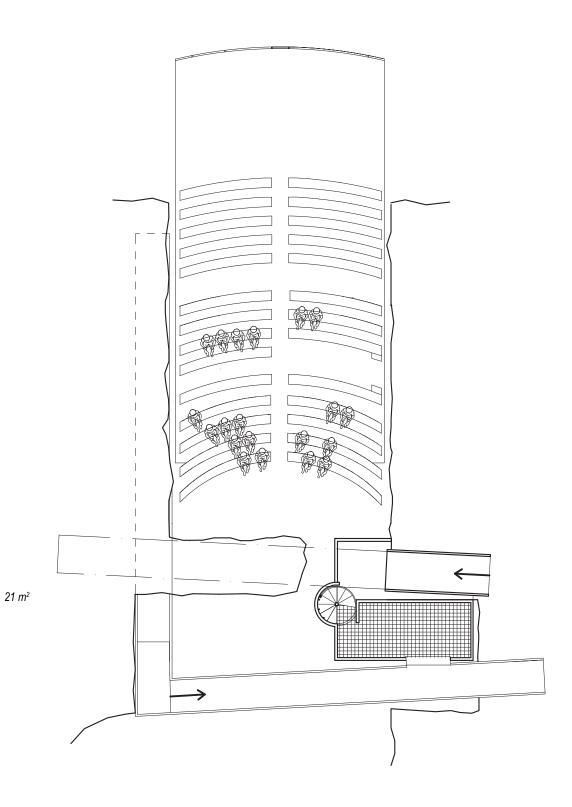


BALEAL

25

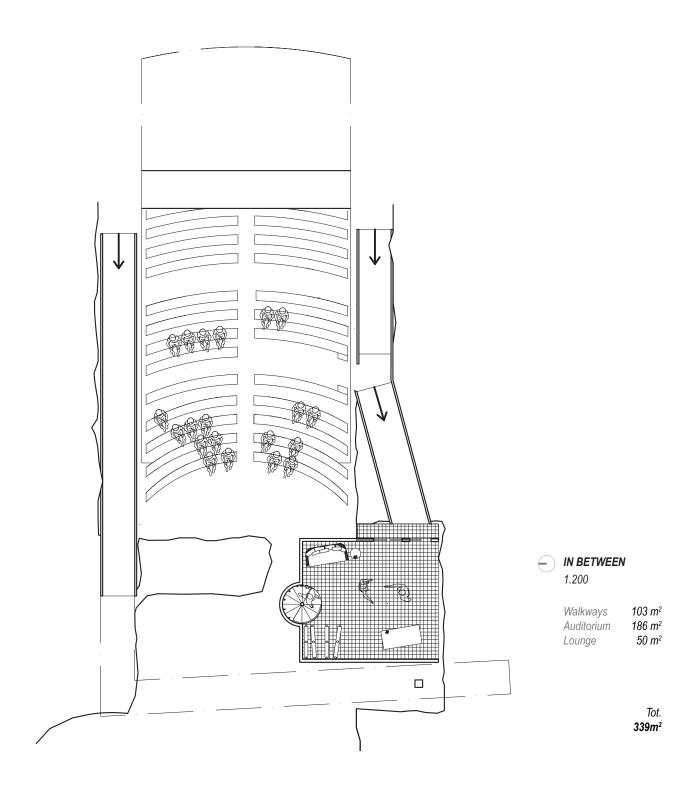


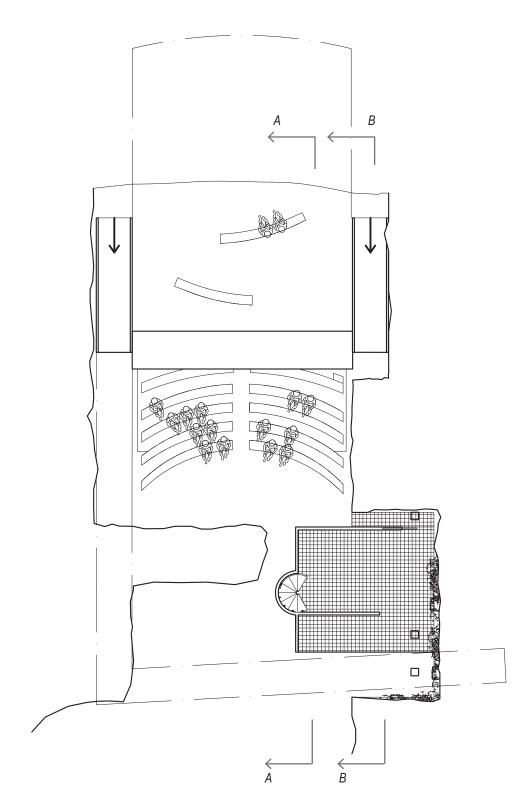
10 20



**ABOVE** 1.200

Reception





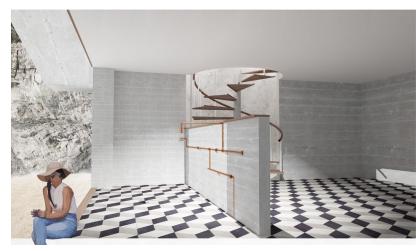
## UNDERNEATH

1.200

> Tot. **235m**²







#### BAR

Multifunctional space of the bottom floor allows the backstage to be used when the theatre is closed. Café services attracts customers during these hours.



#### **LOUNGE**

Sunlight hits the rock wall and creates tactility. Plumbing and drainage is exposed along the full length and width of the wall through shining pipes of copper.



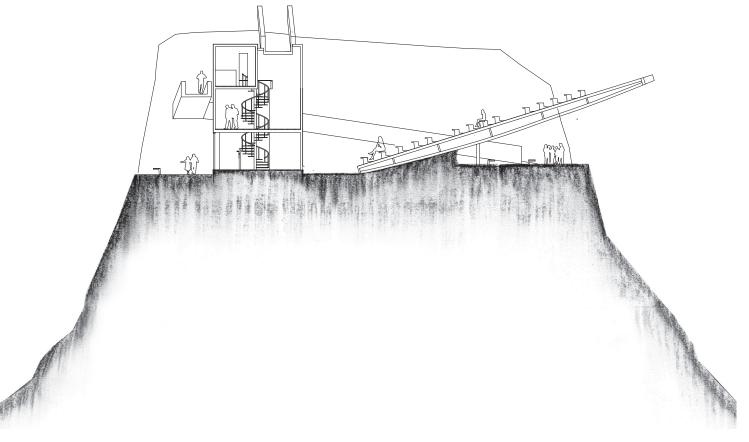
#### **WEST SIDE**

The area is reachable at all hours of the day, a great spot to enjoy the sun or watch the waves and feel as if you're in the midst of a theatre production.

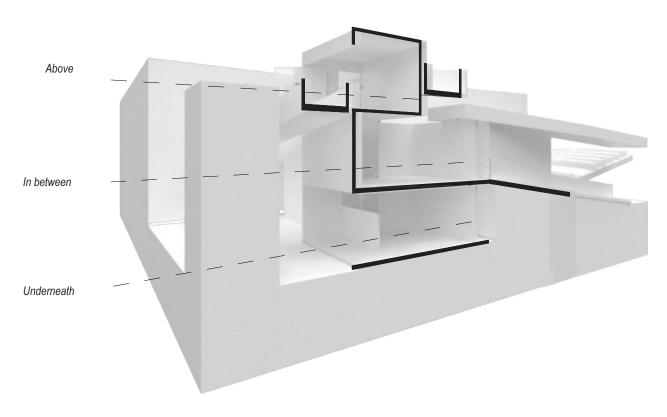


## CREVICE

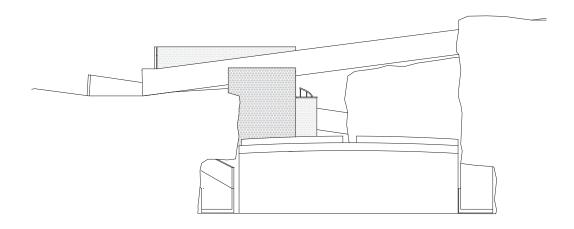
The relationship between backstage and scene hold the same tension as in the competition entry .



A-A



B-B



#### FACADE EAST

#### 1.200

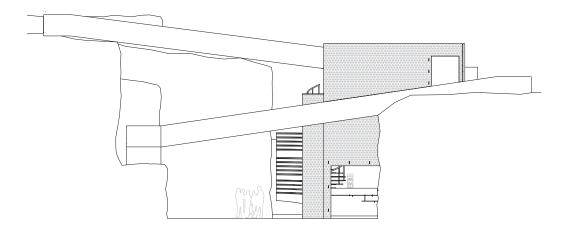
The foyer is located underneath the auditorium on the east side of the peninsula. The room catches the morning sun, a great location for early birds to check out waves and wind conditions.



#### SITE MODEL

#### 1.500

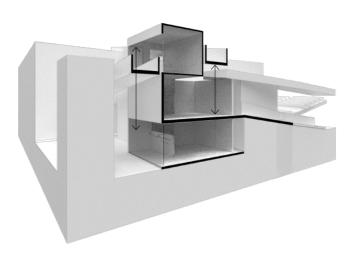
Describing the situation of the theatre seen from the water.

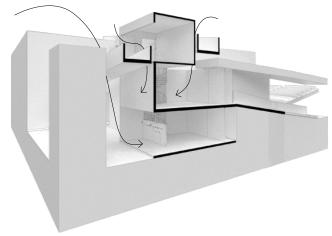


#### **FACADE WEST**

#### 1.200

The west side of the peninsula holds place for actors and staff to prepare scenary and props. A multipurpose area with possibilities for café service. The walkways defines the motion and circulation and seems to float in the air above.



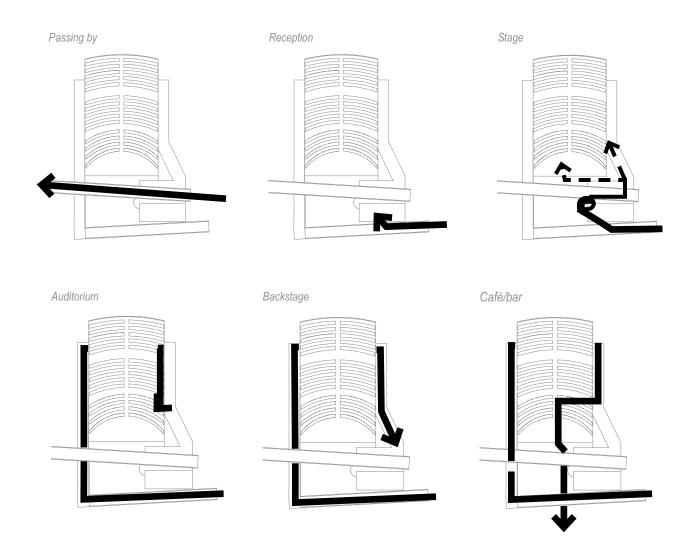


#### VERTICALITY

The walkways are experienced throughout the project; from both above and underneath.

#### **FLOATING**

Physically deattached from the rock mass and separated from the building to enhance verticality and highlight "the entrance" of the new direction.





**SKETCH 1.200** 



## References

Marianne Yvenes (red.). 1997 Arkitekt Sverre Fehn. Intuisjon- Refleksjon - Konstruksjon Oslo: Zoom Grafisk AS

Norberg-Schultz, C. Postiglione G. 1997. Sverre Fehn. Works, projects, writings, 1949-1996 New York: The Monacelli Press









Arkitekt Sverre Fehn. Museum, Hamar Norway