GREEK CLASSICISM



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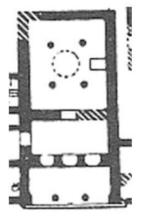
THE DORIAN INVASION

- After the long period of so called "Greek dark Ages" (13th 9th century BC.), with the invasion of the Dorians during the 9th century, a new era in Greek civilization begins.
 - The Dorian invasion is one of the theories for the decline of the Mycenean civilization although failing trade and natural disaster are equally possible theories.
- The Dorian invasion might have been part of the great migration of the time when the so-called "Sea People" were assaulting the eastern Mediterranean.
- There is some evidence that the Dorians reached Greece from the North although there are many theories about the location from which they came. It is however evident that of all the areas of Greece, the one that resisted and did not fall to the Dorian invasion was Attica and the city of Athens.



THE ORIGINS OF THE GREEK TEMPLE

- The original form of the Greek temple is likely to be based on the form of the megaron, found in the early civilization of the Achaeans.
- Such a form is found in the early hekatonpeda structures, like the one found in Lefkandi dating circa 1000 BC.
 - In a form like that of the megaron, a cult statue would be located inside, and the building would act like a shell, protecting the cult statue. The religious ceremonies would take place outside at an altar which would have visual access to the cult statue through the main entry.



The Megaron of Tyrins (Lawrence)

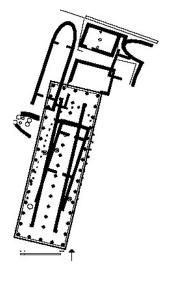


MEGARA A & B AND TEMPLE OF Apollon at Thermon

 A series of structures erected at Thermon reveal evidence of the connection among the Hecatompedon structures, the Megaron type of structure of the Mycenean era and the Greek temple that became a main reference of the architecture of classical antiquity.



The Megaron structures at Thermon, and the subsequent temple of Apollon



THE TOMB OF LEFKANDI AND The Peristyle Feature

- A relationship between the form of the Megaron and that of the Temple.
 - Incorporating religious features to the structure.
- The tomb at Lefkandi dating circa 1000 BC. gives the first sign of the connection between the peripteral feature of the later temples and the megaron

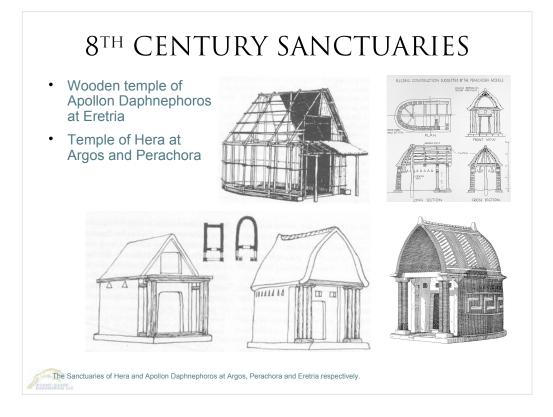
structure

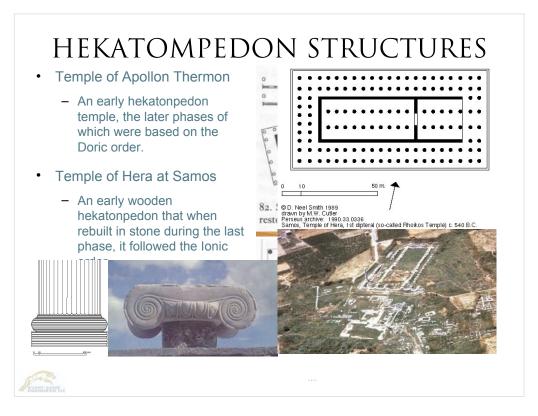
Fig. 14: Doric capital as represented by Carl Boetlicher. The Tectanic der Holinen. 1552

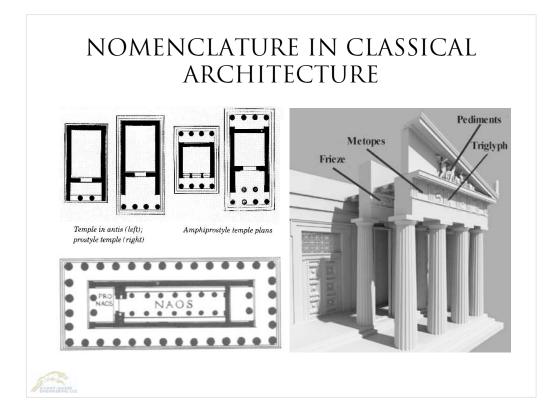


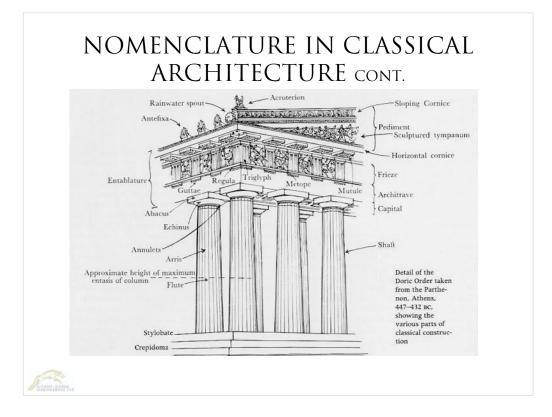
Fig. 1B: Restored Ionic capital from the Artemision of Ephesos. c. 560. *London Brilish Museum*

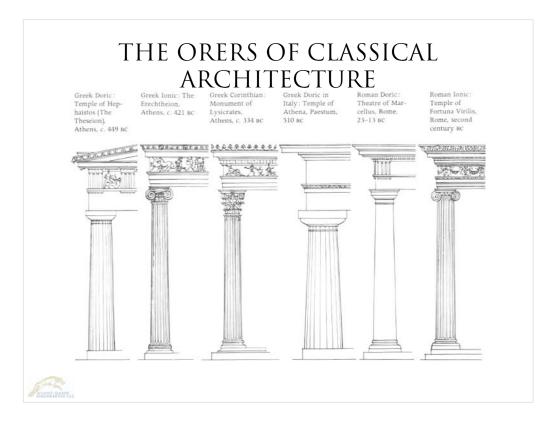
The tomb of Lefkandi (Eretria) Francesco di Giorgio's drawing of a column and a tree, Boeticher's Doric capital, and an lonic capital from the temple of Artemis at Ephesos

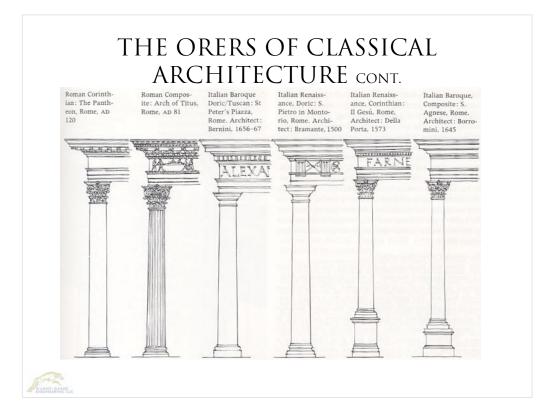












THE IONIC ORDER

Form of volutes was based on the Archimedean formula of the spiral and was mainly developed by the Ionians who settled in the Western coast of Asia Minor and the Aegean Islands.

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 Temples and other structures of the lonic order became luscious and rich in ornaments,

 Strong influence from the Near and Middle East is very evident, particularly in the structures that were located in the coast of Asia Minor.



THE IONIC ORDER CONT.

- The lonic order allowed much more flexibility with proportions, although frequently unorthodox type of designs occurred.
 - The temple of Erechthos on the Athenian Acropolis constitutes an example. There are two porches on the sides although the one of the Caryatids is what makes this temple stand out.
 - On the rock of the Acropolis also is located another celebrated temple, the one of Athena Nike, or "Apteros Nike".
 - For the Athenians, the connection with the Ionians was very important, emphasizing that the Ionians and the Athenians are descendants of the same Greek tribe, the Achaeans.

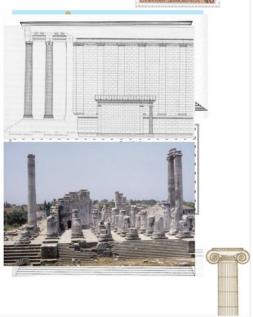


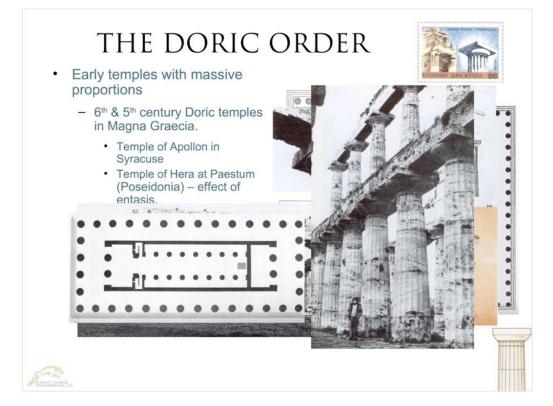


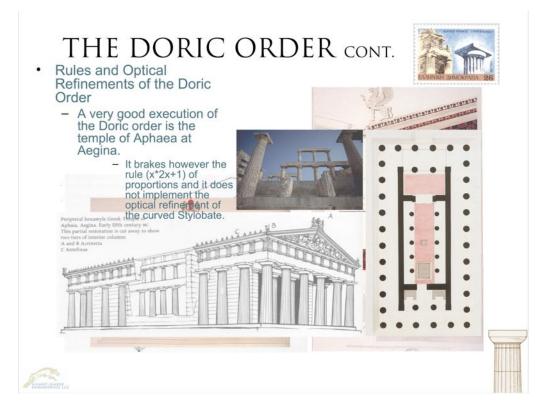
THE IONIC ORDER CONT.

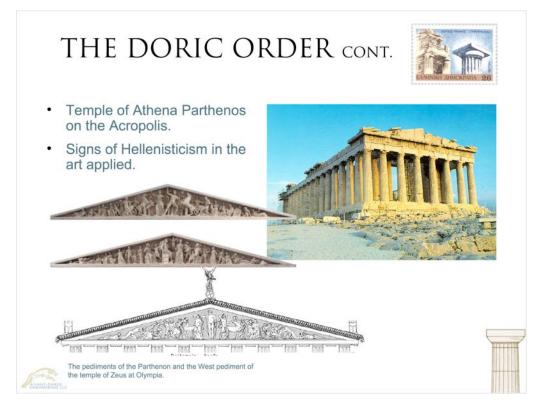


- In Ionia, during the Hellenistic era, the forms of the temples became so rich and luscious that set the temple of Artemis at Ephesos as one of the seven wonders of the world.
- The temple of Apollo at Dydima however was one that reestablishes a set of standrds – even processes – by its architecture. A massive structure as it was, it would not be possible to support a roof without the technology of trusses available, thus an open atrium was located inside the temple and a "naiskos" located within the larger structure.









THE CORINTHIAN ORDER

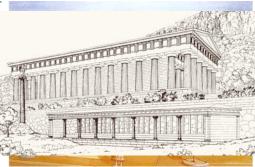


- Kallimachos conceives the idea of the Corinthian order from the basket with the acanthus leaves on the tomb of a girl.
- The choragic monument of Lysicrates (335 BC) may be the only edifice where the Corinthian order was applied Greece before its fall to the Roman empire.



THE DORIC COMPARED TO THE IONIC AND THE CORINTHIAN

- The Temple could be perceived in two ways. It can be a unified sculpted figure, or an open pavilion.
 - The wooden colonnade could not resemble but an open pavilion.
 - By the moment it was transposed to a stone structure, either of the two effects would be equally valid
 - The lonic and the Corinthian tend to evoke the "open pavilion" the Doric evokes the heavier representation of the sculpted body.





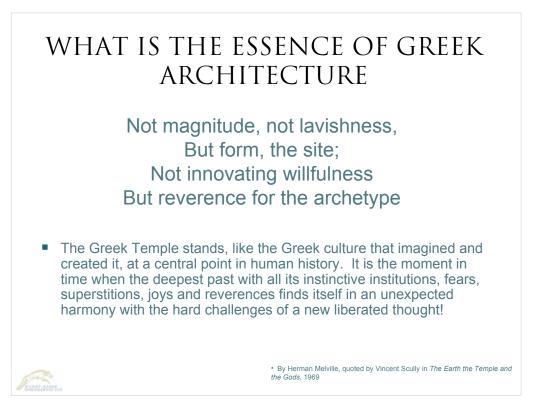
Perspective view of the temple of Apollon at Thermon circa 630 BC.
Temple of Apollon and Stoa of the Athenias at Depinic circa 478. 470 BC.
(Source: Smith, I.G: Classical Architecture, Rule and Invention, 1988)





FOUNDATIONS FOR CLASSICISM

- The Greek dark ages and Dorian invasion were followed by dramatic changes of the status quo in Greece
- City states are developed and the Greek realm becomes a set of federations. Those are reflected in part in the architecture orders that were formed then and are followed even today.
- The Egyptian example was prime for the Greeks in adopting the stone as a building material in ways that they did not use before. Technical know how was the first step where the Greek masons applied the newly acquired knowledge but adapted it to their own needs and developed their own standards. Clear rules and methods were developed in order to form the classical orders of antiquity.
- Future civilizations trying to emulate the Greek democracy of Athens, adopt the Greek classical orders and apply them on administrative and governmental buildings.
 - This can be referred to Hersey's Lost meaning of Classical architecture where the significance of the column forms and the ornaments applied for donations to the Olympian Gods are applied on contemporary governmental buildings or central banks.
- The use of the orders in Greek antiquity was not an exclusive condition. People of non Doric origin could apply the Doric order, like the Athenians did on the Parthenon.

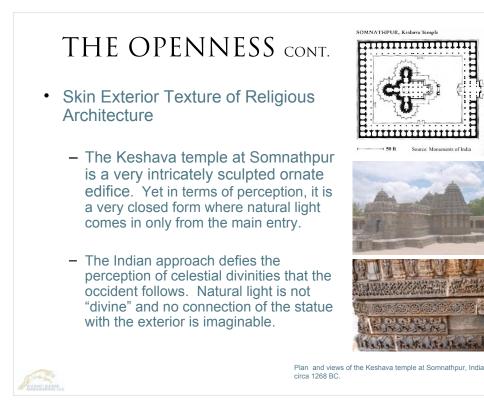


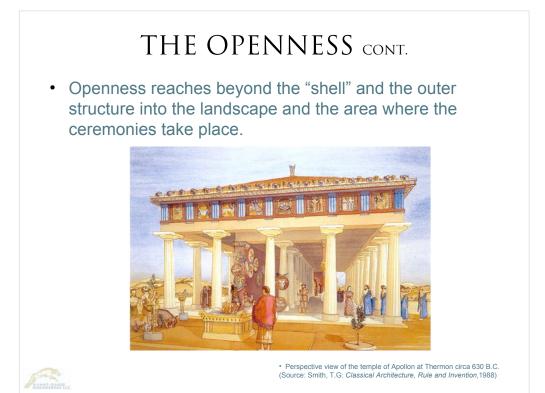
THE OPENNESS

- The Temple is an extension of the Divinity's cult statue
 - The religious ceremonies would not take place inside the temple, but in front of it.
 - The walls of the temple were mere protection of the cult statue, like the skin protects a body, ..and the structure would be a further extension of the same entity, like an exoskeleton condition to a living entity.

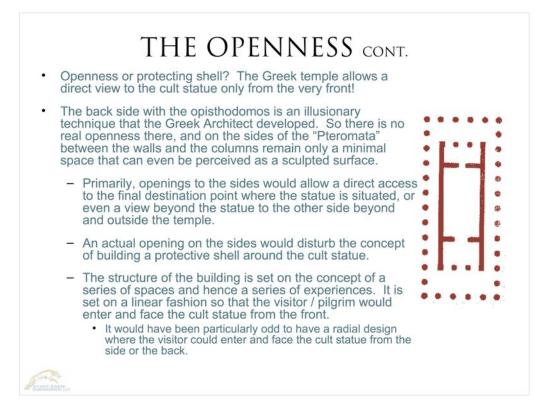












THE INTEGRABILITY

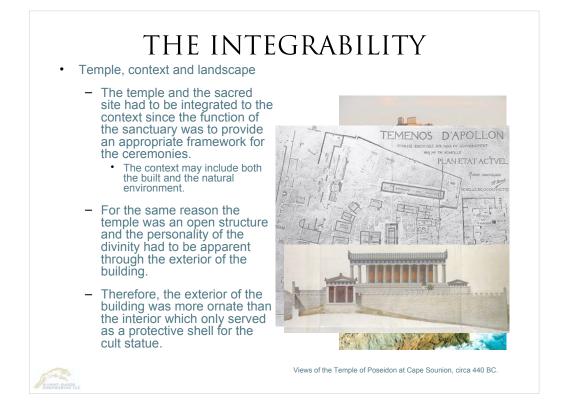
- How to integrate the architecture to the environment
 - The building, or the complex of buildings, were always conceived and designed in a manner that it would organically entrench them within the natural environment.
 - The Greek architect would take advantage of what the site or the landscape had to offer him.







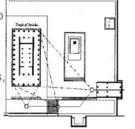
Aerial views of the Theater of the Sanctuary of Asclepios at Epidaurus circa 300 BC.



THE INTEGRABILITY

- · Chthonic and celestial divinities
 - The temple and the sacred site had to be integrated to the context also in terms of the divinity's identity. The temple is located at one of the most serene places of cape Sounion. By entering the sanctuary, the visitor gets visual experiences of Poseidon's temple through the very fine Doric columns with essentially no entasis, it still constitutes an incarnation of the muscular and proud aura of Poseidon's personality. By it's location, the temple unites the dispersed natural elements and becomes the center of attention.
 - The sanctuary of Athena Sounias is located further inland. The temple was initially built on the Doric order. For political reasons it was rebuilt by the Athenians following the lonic order after the Persians burned it down in the sixth century. What is most important about the temple is the semi-peripteral form This indicates that the temple was to be viewed from the South-East. Athena was a chthonic divinity, always associated with the Earth and for this reason the temple is located inland. Thus it is more seen as a temple to Athena Pronaia.

Plans of the Temple of Poseidon and Athena Sounias at cape Sounion.

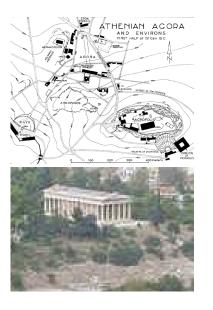


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THE INTEGRABILITY

A functional aspect

- As stated earlier, the temple and the sacred site had to be integrated to its context. An example of arrangement of functions and the location of temples is the temple of Hephaestus in the Agora of Athens and the temple of Athena Parthenos on the Acropolis.
- The temple of Athena who was also the protector of the city is located high on the sacred rock of the Acropolis overlooking the city and all the way beyond its boundaries.
- The temple of Hephestos is appropriately located in a conspicuous location of the Agora, close to the area of the artisans.





THE INTEGRABILITY

- Symbolism within natural elements
 - View the temple of Apollo at Corinth. It is difficult to visualize the ancient temple through what remains today. Notice the absence of "entasis" on the column shafts. The columns would rise against the long horizontals of the coast and gulf, with the peaks of the mount rising across the water.
 - The effect of compression was not wanted here. The intention is to show the columns stand immovably upright. Inclination without swelling resembles a masculine body firmly planted on its feet upholding the enormous weight of the entablature.





CHARACTER AND IDENTIFICATION

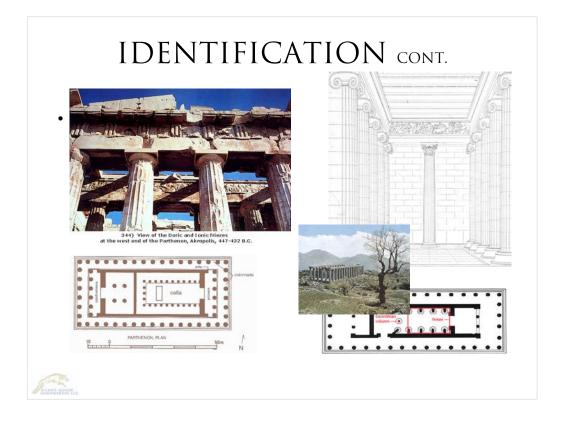
The five orders articulate a gateway to show their canonical proportions and hierarchical relationships. Each order is equated to a figure that represents its character in anthropomorphic terms

- The Tuscan Order:
 - Representation of Substance
- The Doric Order:
 - Expression of Strength
- The Ionic Order:
 - Articulation of Refinement
- The Corinthian Order:
 - Personification of Grace
- The Composite Order:
 - Pronouncement of Ebullience



Source: Smith, T.G: Classical Architecture, Rule & Invention, Hong Kong 1988





GREEK TEMPLE AND CONTEXT

- The Greek temple form derived from elements of nature. It formed as a shell to protect the cult statue but as a shell it was never disintegrated from the cult statue. It became an extension that associated the inner with the outer conditions.
- The Openness of the Greek temple is referred to the quality of not only being visually open but in conceptual terms too. It is not a quality that is confined to the physical and fundamental visual elements but it reaches into the art applied on the edifice.
- The character of the divinity and the building had to identify with the context.
- The function of the building, whether religious or civic, had to be accordingly located and oriented in order to transmit the correct message to the user without disturbing the natural elements. Instead, any intrusion should be an amendment and a method of uniting dispersed elements into a composition

