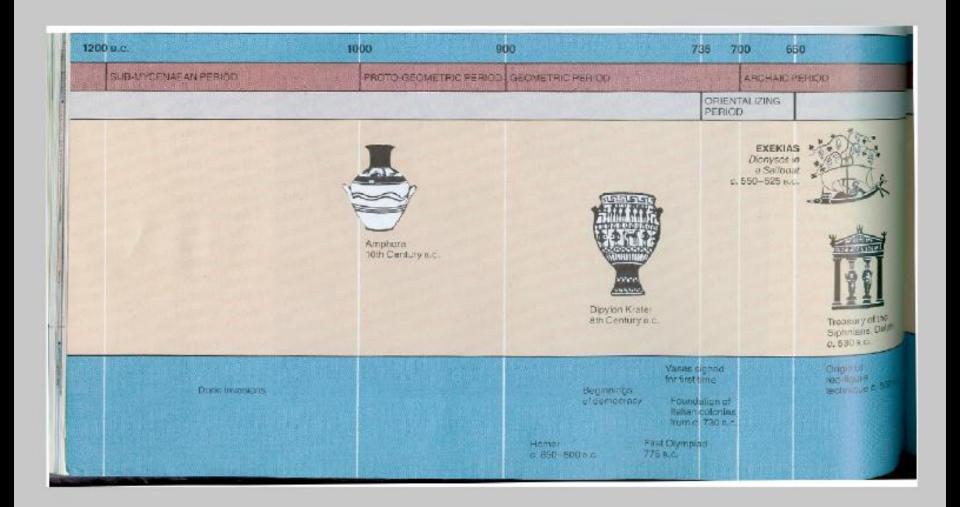
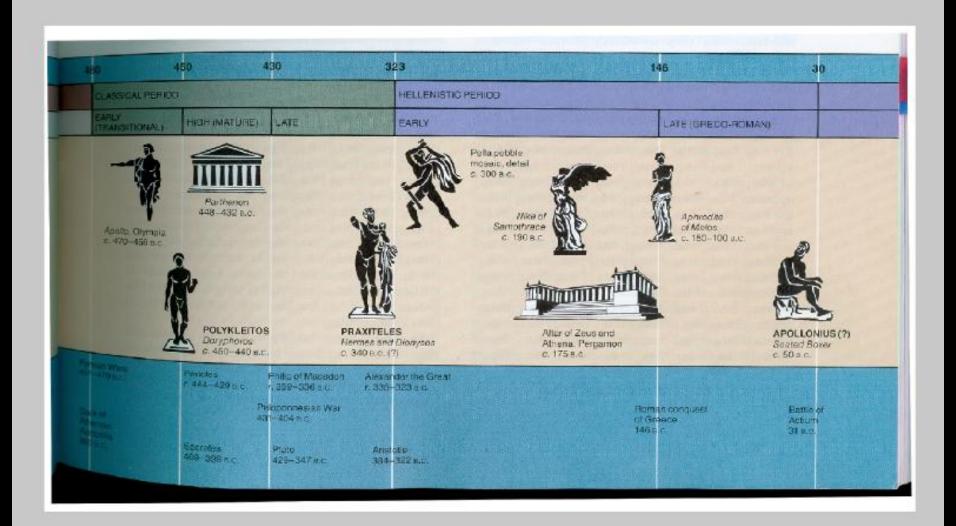
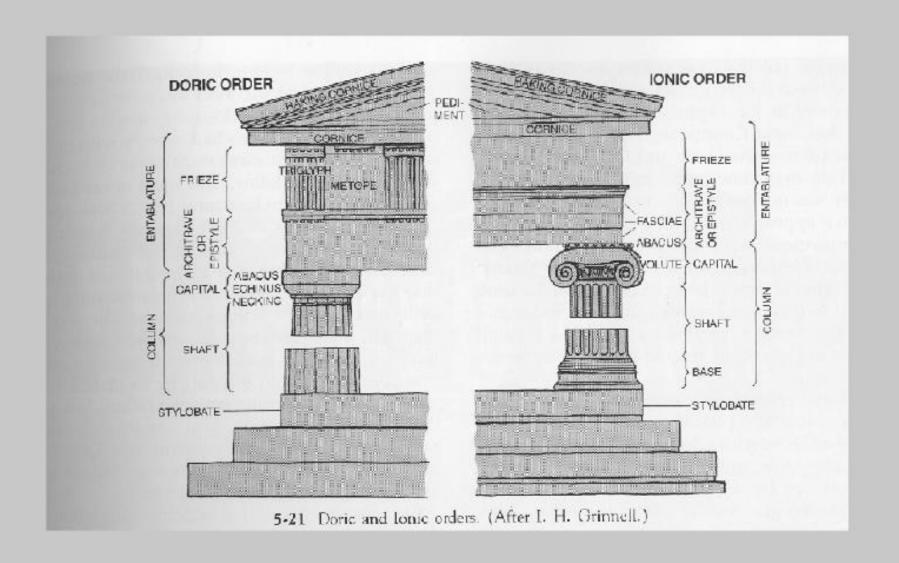
#### WELCOME TO ARCH 1121-HISTORY OF ARCHITECTURAL TECHNOLOGY

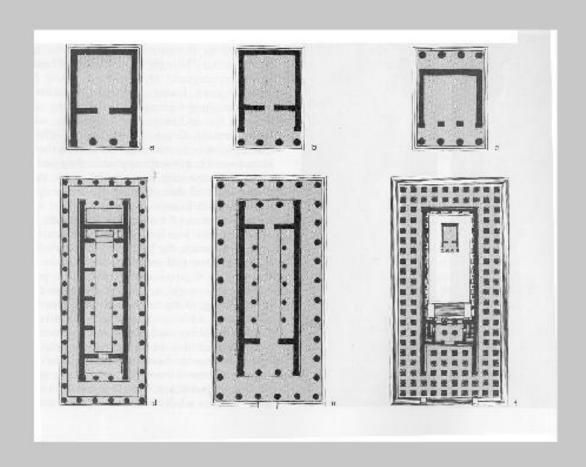
- 1.PLEASE TURN OFF CELL PHONES FOR ENTIRE DURATION OF CLASS
- 2.PLEASE TURN OFF ALL IPODS, WALKMANS, ETC.
- 3.PLEASE NO EATING OR DRINKIING DURING CLASS
- 4.PLEASE BE CONSIDERATE OF OTHERS-RESPECT IS KEY TO YOUR PROFESSIONAL CAREERS & DAILY LIVES.

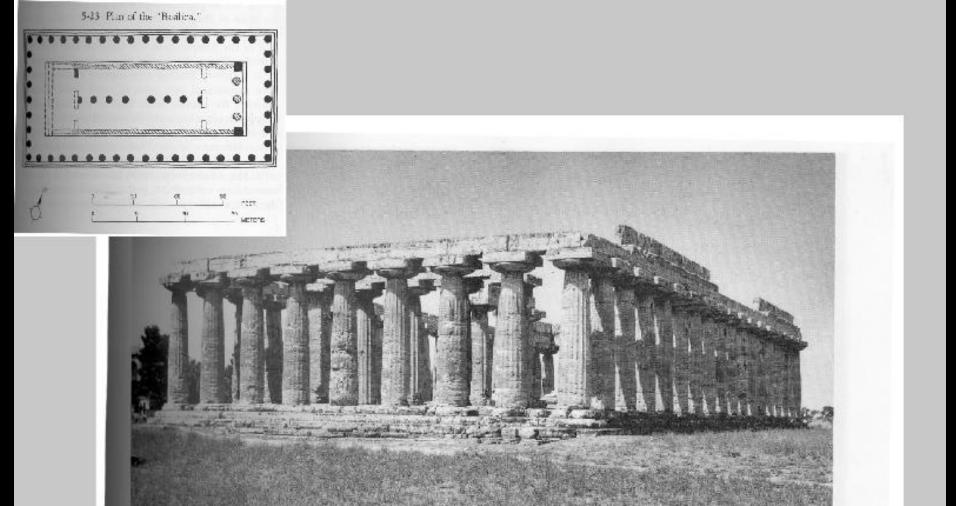








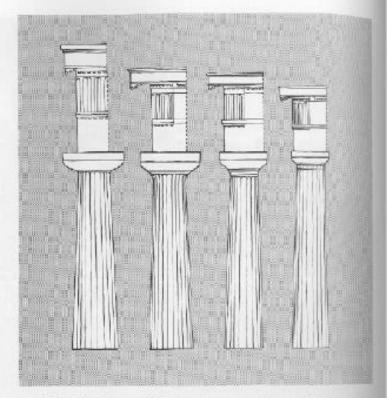




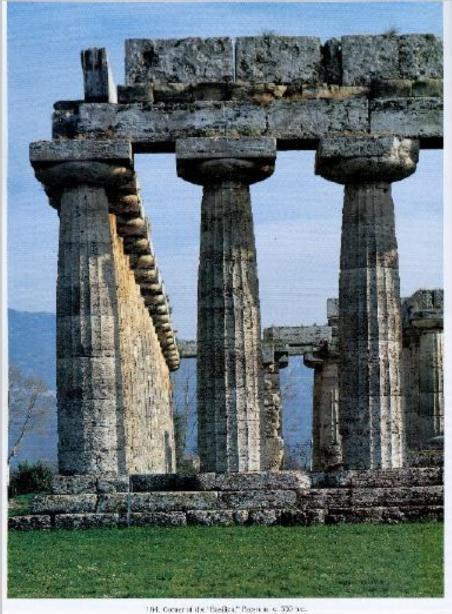
5-22 The "Basilica," Paestum, Italy, c. 550 s.c.

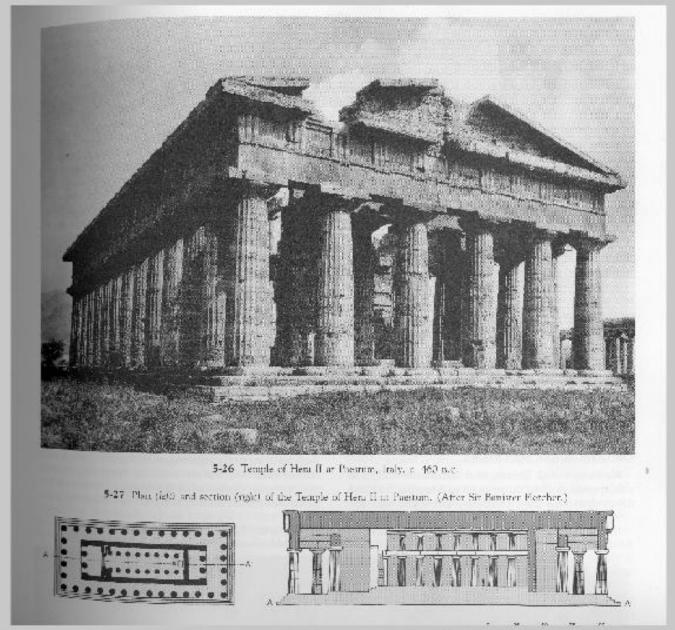


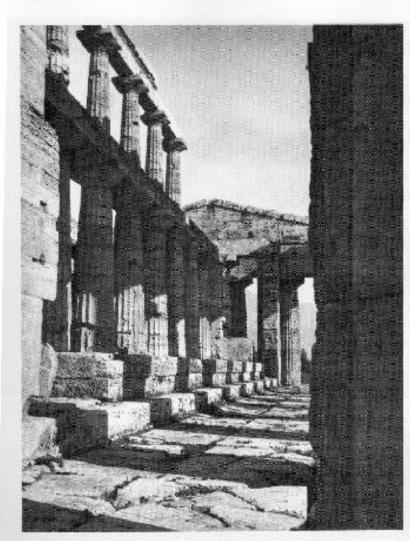
5-24 "Basilica" colonnade, with view of the Temple of Hera II beyond.



5-25 Evolution of Doric order proportions, Archaic to Classical. (Examples are not drawn to same scale.)



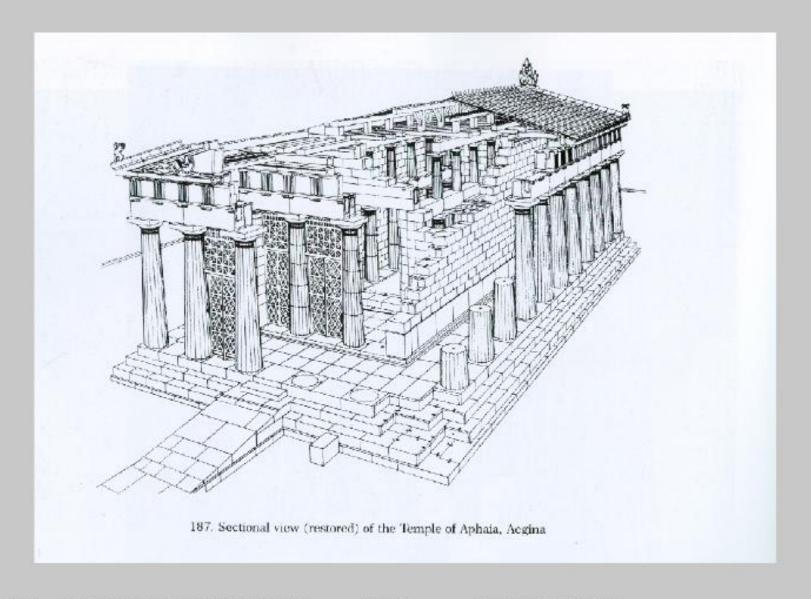


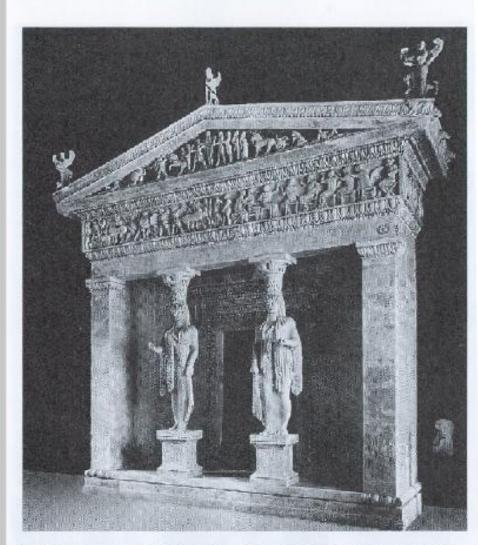


185. Interior, "Temple of Poseudon," Paesauru, e. 460 f.C.

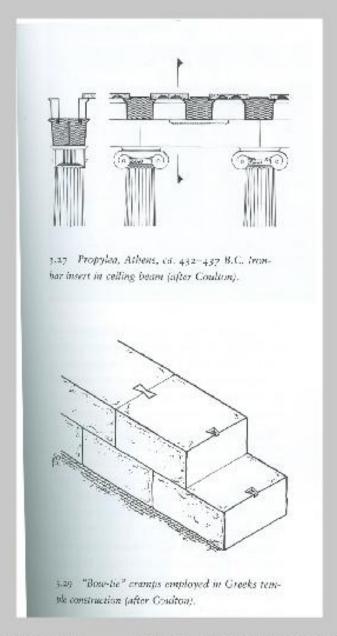


183. The "Basilica," c. 550 B.C.; and the "Temple of Poseidon," c. 460 B.C. Paestum, Italy





5-28 Treasury of the Siphnians from the Sanctuary of Apollo at Delphi, c. 530 B.C. Archeological Museum, Delphi. (Facade reconstructed.)



### **Greece:** 480 - 431BCE

480 BCE Persians destroyed many of the buildings
479 BCE ends the Persian invasion of Greece
450 BCE Pericles allocates defensive funds for rebuilding
Begins rebuilding the Acropolis



### Acropolis (High Point in the City)

**Complex Site** 

Commanding shape

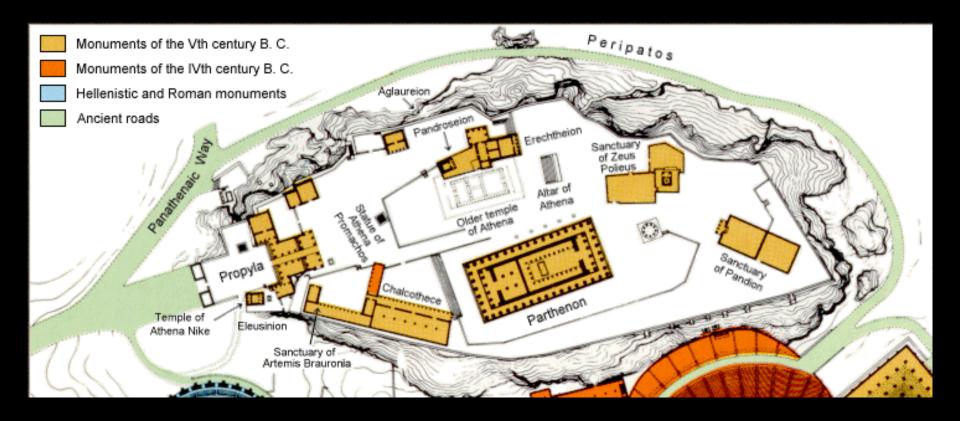
Highly defensible – surrounded by sheer cliffs except the west Religious and Cultural Center

Built of marble - allowed fine detail (previously mainly limestone)



www.stoa.org

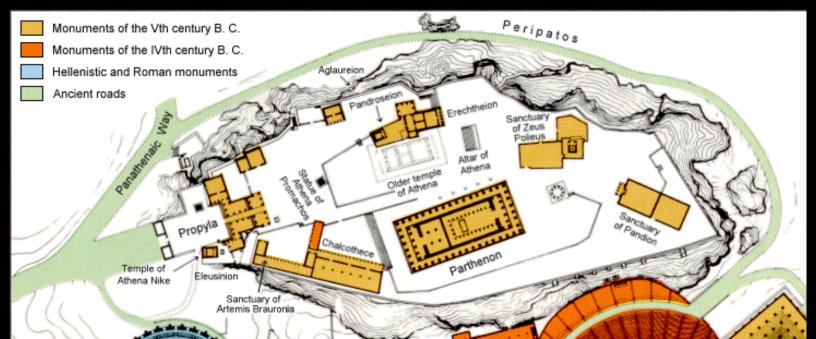
### Acropolis (High Point in the City)



### Site Planning:

Each Building was sited and designed with others in mind
The observer went up a zigzag ramp – many glimpses
Avoid strictly frontal views of monuments (Unwritten Rule)
Symmetry in Buildings, not in Site Planning

Wanted observer to view buildings in 3-D not flat elevations



Thought to be the worlds most perfect building

Doric Temple dedicated to Athena – Patron Goddess of Athens

Highest Point of the Acropolis

20,000 Tons of Marble

Designed by Iktinus & Kalikrates

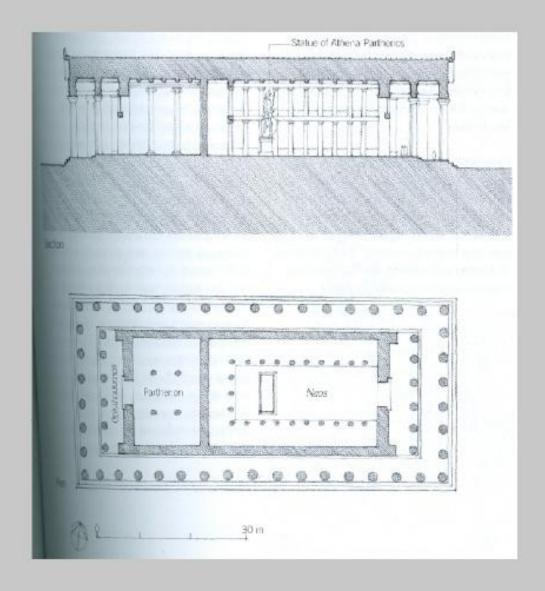
Symbol of Architecture Refinement



www.encarta.msn.com

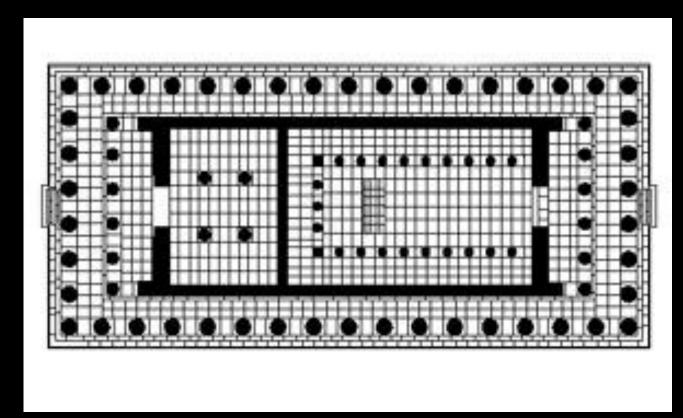


5-44 IKTINOS and KALLIKRATES, the Parthenon, Acropolis, Athens, 448-432 B.C. (view from the northwest).



8 x 17 doric columns

6 Columns at front and rear entrances



8 x 17 doric columns

6 Columns at front and rear entrances



www. Odesseyadventures.com





101' x 228'

8 x 17 doric columns

Columns: 6'2" wide and 34'3" tall

Ratio: 1:5-1/2

Three step around the Temple

Statue of Athena – Fully Armed

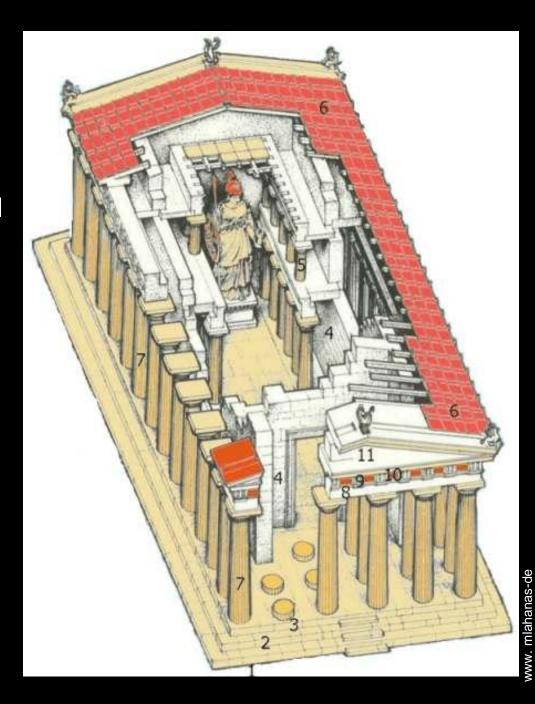
Marble transported 16k from Mt.

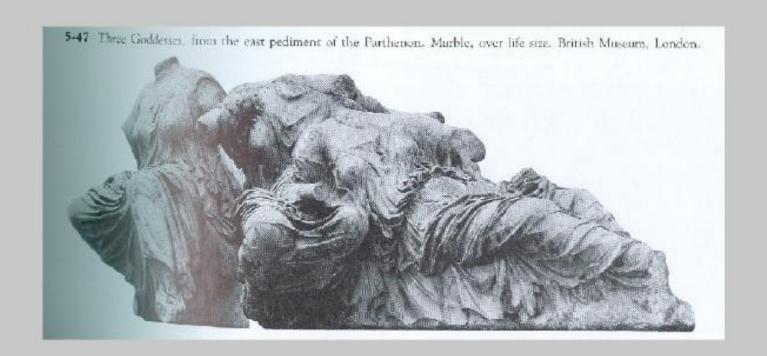
**Penelicus** 

Remained intact until 1687 when a Venetian shell exploded destroying interior and roof

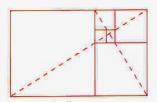
Many sculptures

Terracotta tiled roof

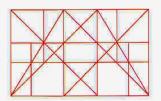


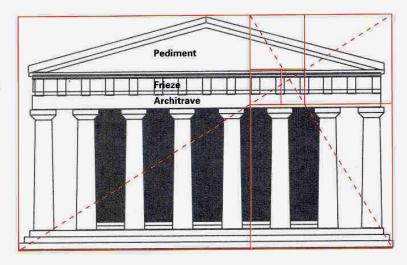


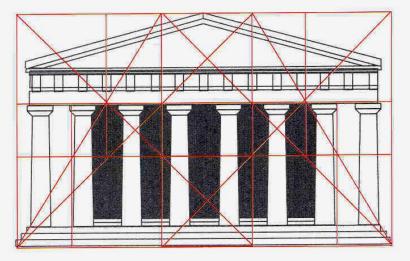
Drawing of the *Parthenon*, Athens, ca. 447–432 B.C., and the Architectural Relationship to the Golden Section Analysis of golden section proportions according to the golden section construction diagram.



Golden Section Harmonic Analysis Analysis of golden section proportions according to a diagram of a harmonic analysis of the golden section.







# Propylaia: 437-432 BCE

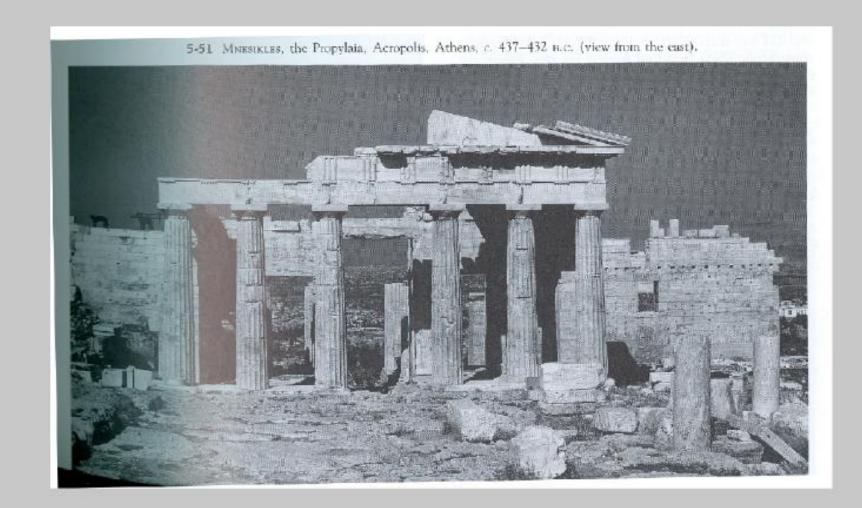
Gateway to the Acropolis

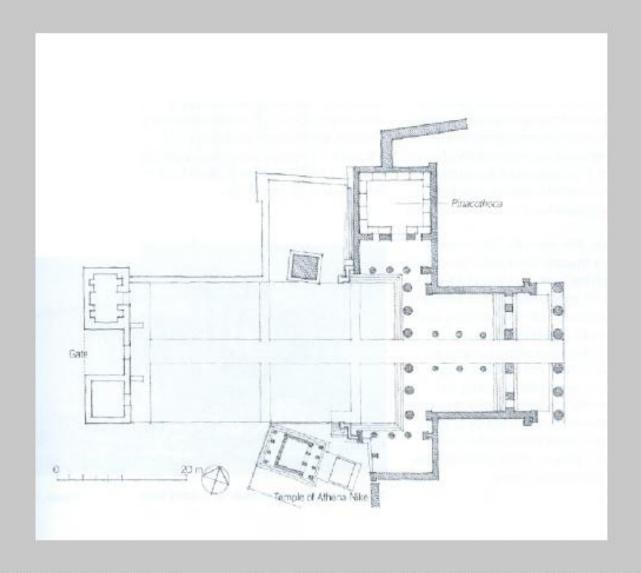
Designed by Mnesikles

2 levels due to uneven ground

Gateway from Land of Humans to The Land of Gods







# Temple of Nike:

427- 410 BCE **Goddess of Victory** 

Earliest Ionic Building at the Acropolis

Columns: 11' high

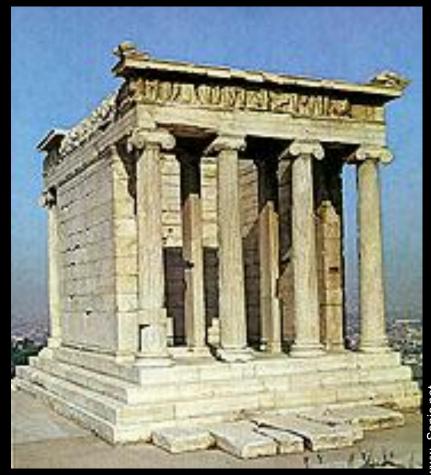
**Ratio: 1:7** 

Frieze: battle scenes depicting

Greeks versus Persians

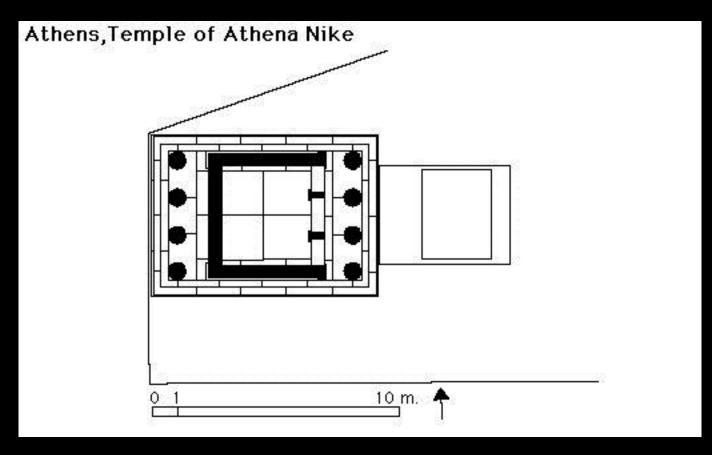
Set on 4 steps

Pediment decorated with winged victories or Nike(s) created by Callimachus



# Temple of Nike: 427-410 BCE

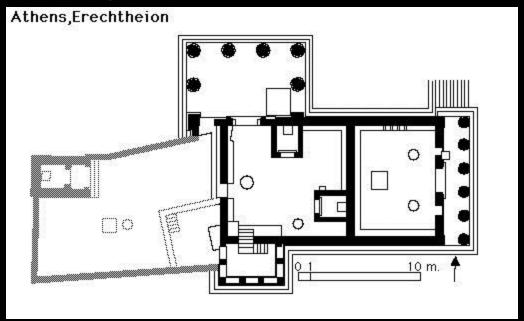
### 4 Column projecting Porches

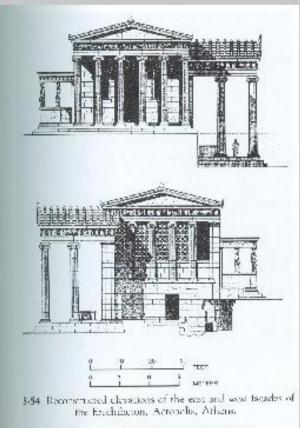


www. Perseus.tufts.edu

### The Erechtheion 421-405 BCE

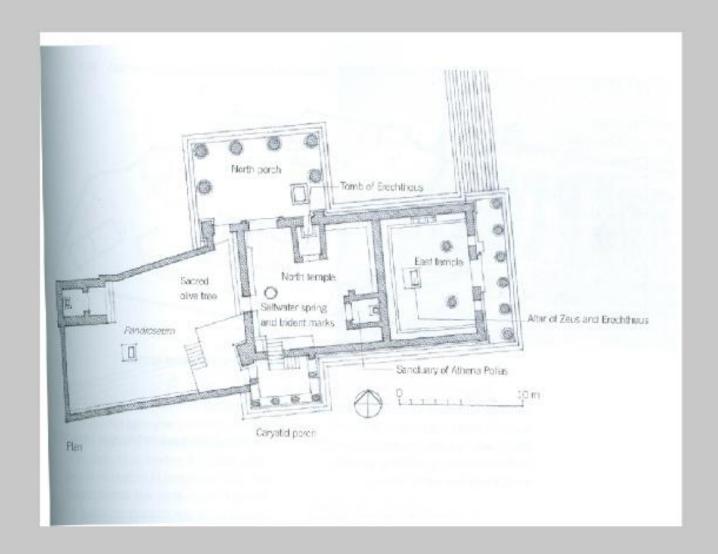
Sloping site inspired split level design
Built at the Acropolis
No continuous colonnade – 4 separate porticos
Accommodates diverse hallowed areas
Departs from traditional symmetry
Continuous frieze running above architrave
Abundance of sculpted ornament



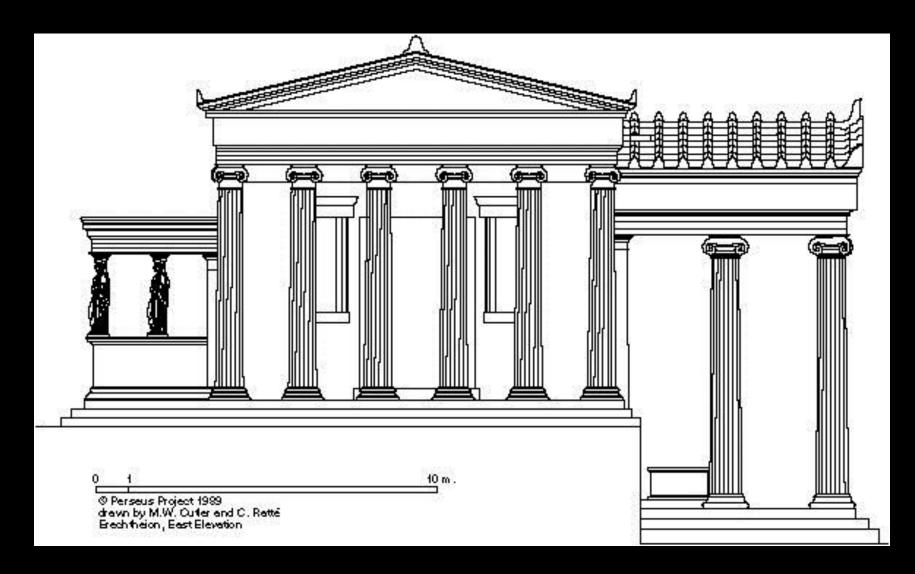


5-53. The Erechtheton, Acropolis, Athens, 421-405 a.e. (view from the south).

5.55 Porch of the Mainers, the Erechtheiso



## The Erechtheion 421-405 BCE



# The Erechtheion 421-405 BCE



### The Erechtheion 421-405 BCE

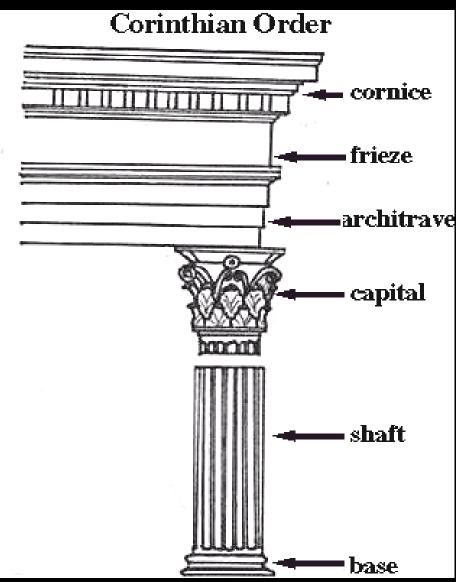


### The Erechtheion 421-405 BCE



- 431 BCE: Peloponnesian War: Greece loses to Sparta democracy remains
- 336 BCE: Alexander the Great conquers Greece: democracy survives, but its vitality was gone
- Hellenism began after the death of Alexander the Great
- Change in the Greek citizen: specialized not involved in all aspects of public life (politically, military and economically)
- Change in Architecture: greater freedom, shift in Architectural style, introduction of the Corinthian Column

#### Corinthian:



Late 2<sup>nd</sup> Century BCE

Thin and decorative

Columns were 10 times taller than the diameter

Designed by Callimachus combining a goblet and scrolls and acanthus leaves

There were 24 flutes

/www. Cmhpf.org

Corinthian:

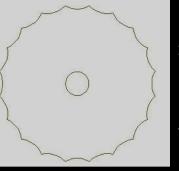


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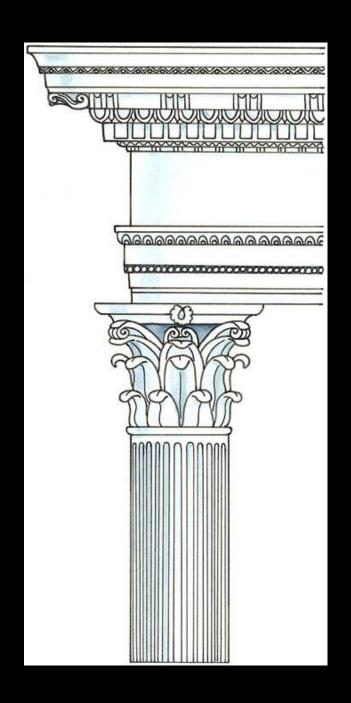
Ionic and Corinthian fluting

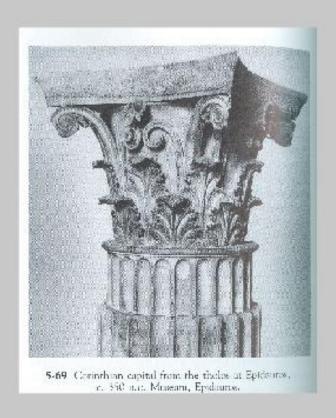


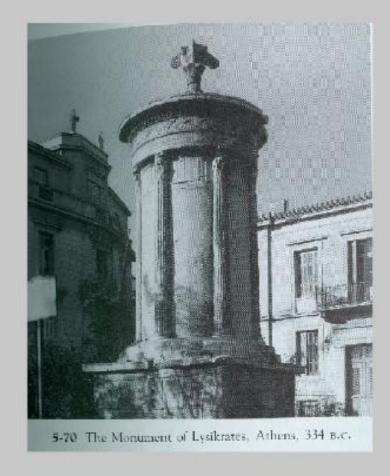
Doric fluting

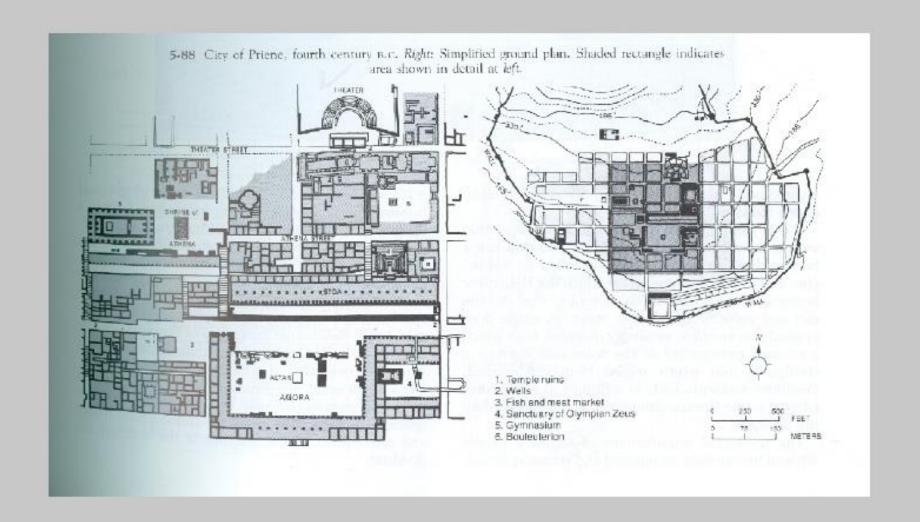


/www.geocities.com









### Temple of Zeus Olympius, Athens: 170 BCE

Started in the 6<sup>th</sup> Century BCE with Ionic Columns, but abandoned

Construction began again in the 2<sup>nd</sup> Century BCE, but changed Order to Corinthian by Roman Architect, Cossutius



# Temple of Zeus Olympius, Athens: 170 BCE

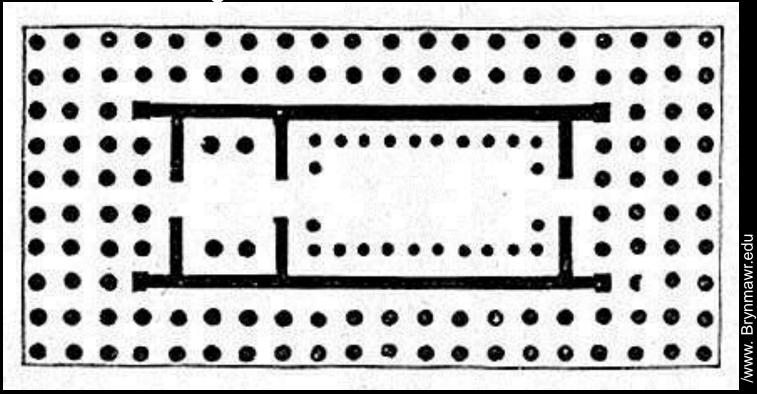


### Temple of Zeus Olympius, Athens: 170 BCE

Located east of the Acropolis

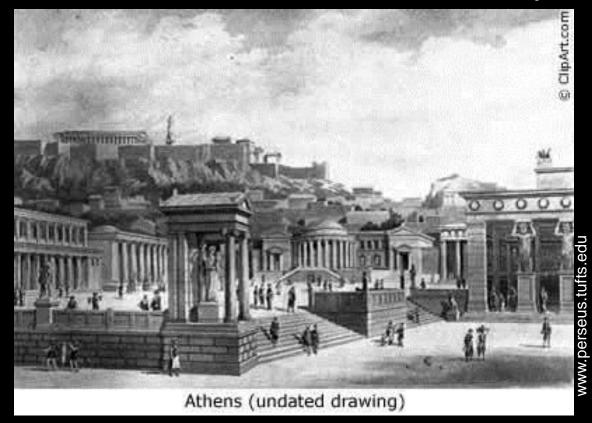
Over 100 Columns, double rows of 20(N&S) and triple rows of 8 (E&W)

Columns: 56' high 5'6 wide



# Civic Architecture Agora:

Place of public assembly in a Greek city; the focus of political, commercial, administrative and social activity, the religious and cultural center, and the seat of justice

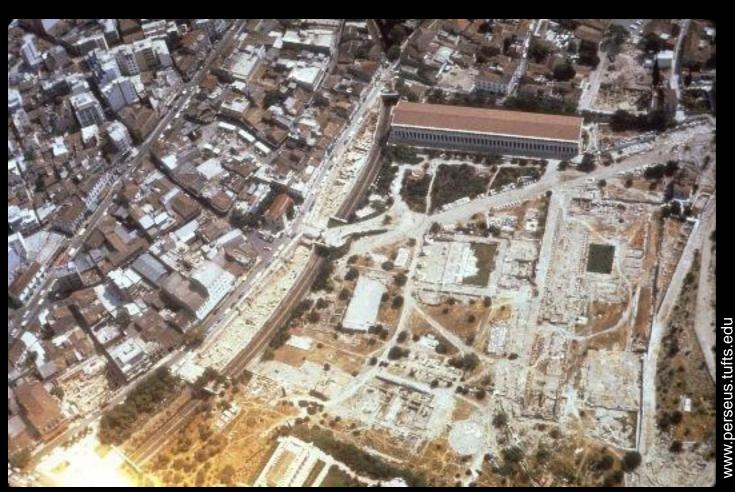


# Civic Architecture Agora:



Athens: Agora

# Civic Architecture Agora:



# Civic Architecture Agora:

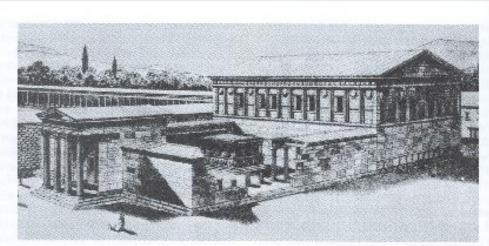


### Bouleuterion 5th Century BCE

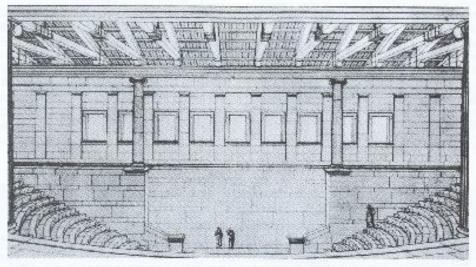
The Council of 500 (Boule) held its regular meetings here.

Had tiered seating.





5-89 Bouleutarion at Mileaus, late third century is c.



5-90 Reconstruction of council chamber, bouleuterion at Miletus.

### Metroon 2nd Century BCE

The building has an Ionic propylon It accommodated both the sanctuary of the Mother of the Gods and the state archives, including the proceedings of the meetings of the Council of 500 and various official documents, protected by the goddess.



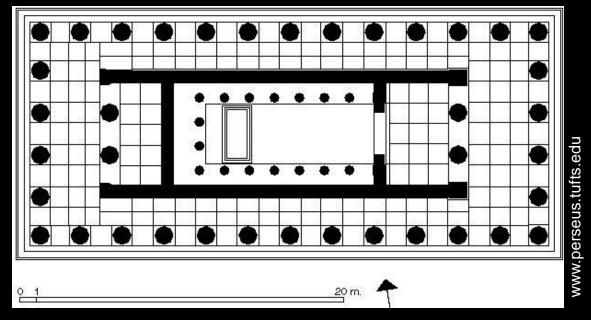
### Temple of Hephaistos 449 BCE

Doric temple

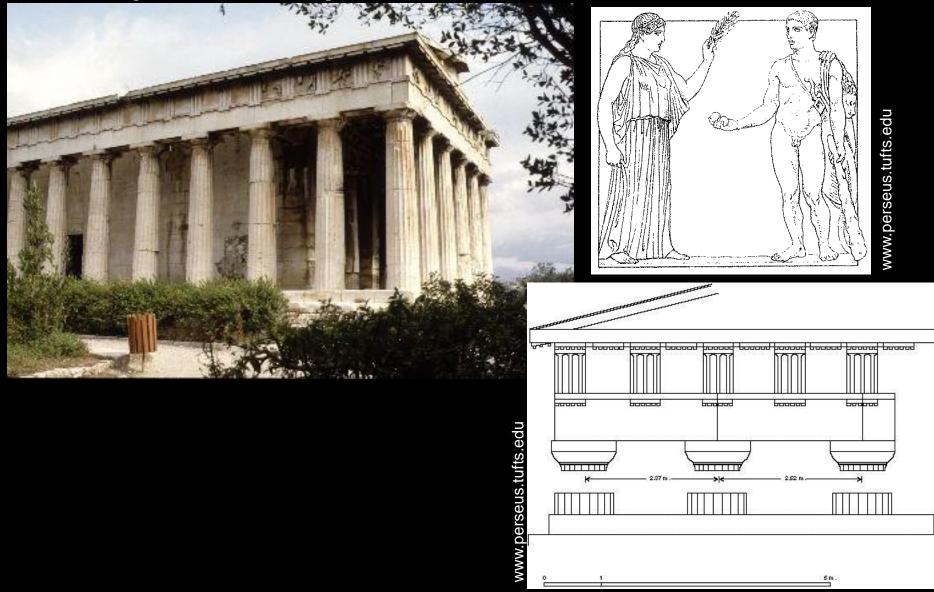
It is sited on the hill.

It is the most prominent and better preserved monument of the Agora.

The temple was dedicated to two gods, Hephaistos and Athena, whose bronze cult statues stood in the interior.



Temple of Hephaistos 449 BCE



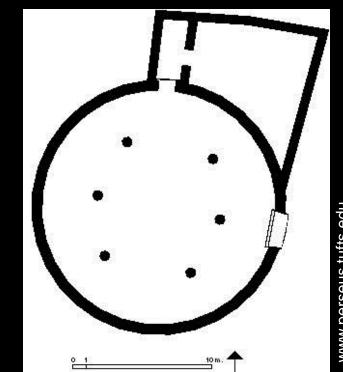
# Tholos 460 BCE Circular building

The chairmen (prytaneis) of the Council of 500 (Boule) dined and spent the night in the Tholos so as to be available if necessary.

A set of standard weights and measures was also kept in

the building.



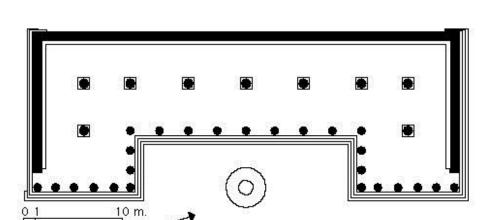


### Stoa of Zeus Eleutherios 5th Century BCE

The stoa was erected in honor of those who fought for the freedom and security of the city.

Socrates is said to have met his friends in this stoa.

Athens, Stoa of Zeus (Eleutherios)



My percelle fuft



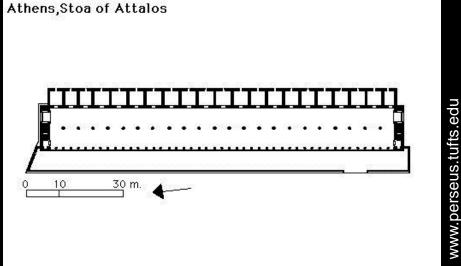
#### Stoa of Attalos 150 BCE

Two-story building, 381 ft x 63 ft 8 in,

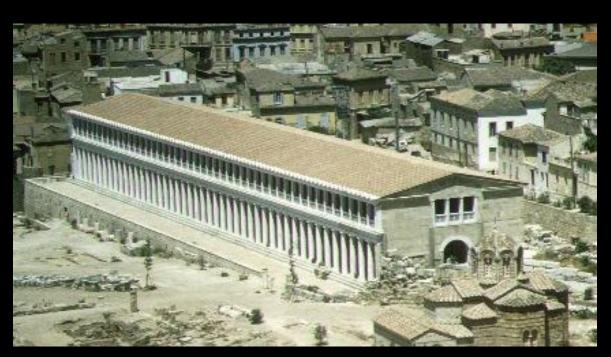
Doric colonnade on the ground floor, and an Ionic upper colonnade incorporating a balustrade.

More important is the way the stoas are used to close off the agora to a regular plan.

In 1953-56 it was reconstructed in order to house the finds from the excavations at the Agora - The Agora museum



### Stoa of Attalos 150 BCE





### Theater of Epidaurus 350 BCE

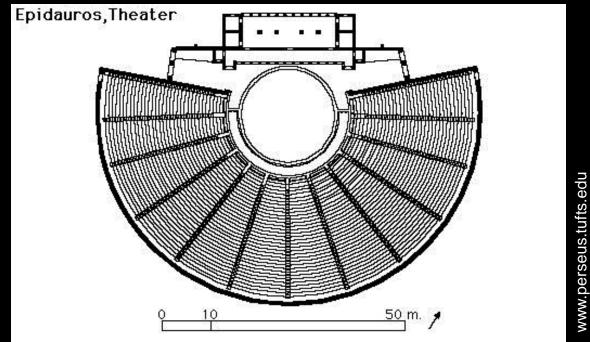
Semicircular outdoor theater

Consists of 55 tiers of steeply banked stone seats

Used for: Political assemblies, religious festivals and plays

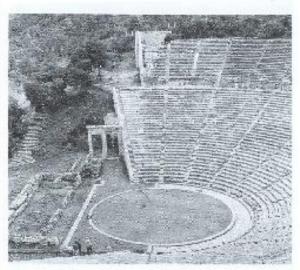
Perfect acoustics

Seating extends more than half way around the orchestra



# Theater of Epidaurus 350 BCE





5-71 Polyklettos the Younger, theater at Epidauros. Greece, c. 350 b.c.

5-72 Plan of the theater at Epidauros. (After F. Krischen.)

