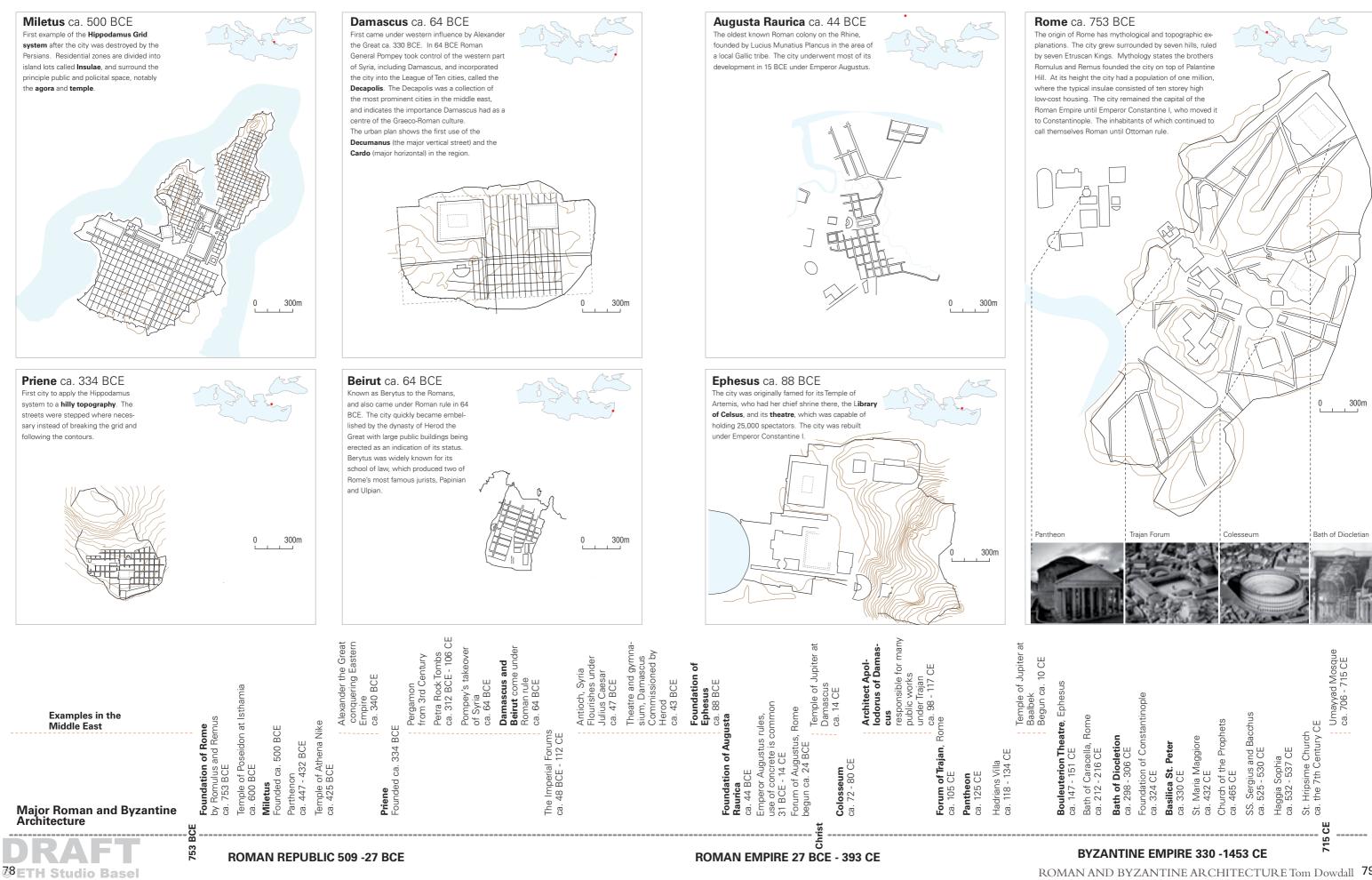
## Roman and Byzantine Architecture CITIES OF THE ROMAN EMPIRE



ROMAN AND BYZANTINE ARCHITECTURE Tom Dowdall 79

# Roman and Byzantine Architecture Architecture Typologies and Elements

### **BUILDING TYPOLOGIES**

#### Temple

Pantheon Rome ca. 125 CE





Theatre



Colosseum Rome 72 - 80 CE



Forum

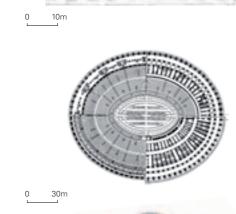




Trajan Forum Rome 105 CE

Architect: Hippodamus of Damscus





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50m

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THE REAL

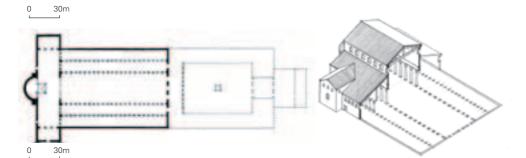












CÉ.

#### SYSTEMS

#### **Structural Innovation**

The use of concrete allowed the Roman builders to develop the Arch, the Vault and Dome.

They achieved this with the use of complex formwork, and coffered domes to reduce weight





The Arch -made of Voussoirs, wedged-shaped stones

Wall articulation

With the onset of the arch as a more efficient

structural concept to the

post-and-beam, the Ro-

man builders continued

bining the arch with the orders of the columns

to articulate the wall com-

The Groin Vault - An intersecting Barrel vault

Formwork for a vault

The Dome

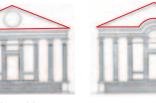


Arch of Nero Rome 55 CE

# Eastern Influences to Roman Architec-ture

Stylistic variations to Roman architecture began to appear in the Eastern cities of the Empire, as an appropriation to the culture and climate of the region. The most prominent of these is the Syrian arch

The great covered colonnaded axes whe an idea of local eastern inspiration combining prestige with the practical purpose of protecting shoppers and vendors from the sun



Standard entablature



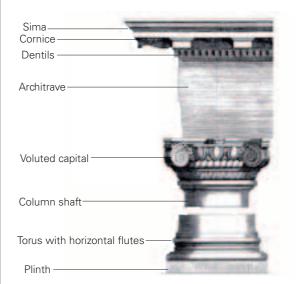


#### DETAILS





#### Ionic Order notation



#### **Byzantine variations of the Composite Capital**



Entablature pierced by a central arch, known as the Syrian Arch







Basilica Eufrasiana

St Vitale



Salonica

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