

**Research Question:** How did the architecture of the ancient world, such as the Baths of Caracalla, and the interpretation of Beaux Arts influence the design of Grand Central Terminal and Penn Station?

I Brief introduction of Penn Station and Grand Central Terminal

II Overview of Baths of Caracalla (i.e. the elements of Caracalla)

- A. Origins - Emperor Caracalla
- B. Its main use (public bath, community gathering)
- C. Architectural design (columns, vaults, wide open space)

III Overview of Beaux Arts (i.e. the elements of Beaux Arts)

- A. What is Beaux Arts?
- B. The elements of Beaux Arts
- C. Ecole des Beaux-Arts

IV. The interpretation of Baths of Caracalla on Penn Station

- A. Literal application
- B. Structures: Columns, Semi-circular Vaults, Coasters, etc.

V. The interpretation of Baths of Caracalla on Grand Central Terminal

- A. Beaux Arts translation
  - a. Conceptual, not literal, translation
- B. Structures: Piers, Elliptical Vaults, Mural

VI. Comparison between Penn Station and GCT

- A. Major similarities (importance of community, public use)
  - a. Roman perspective of public buildings
- B. Major differences (literal versus conceptual interpretation)

VII. Topics for further research and consideration

- A. Other buildings in the time period that were inspired by Baths of Caracalla
  - a. Grand Central and Penn Station into the greater context of buildings at the turn of the century