

# Fundamentals of Architecture: Form

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By Diego Lopez

Class: Introduction to Architecture



# One World Trade Center

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# Building Information

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- Architect: David M. Childs
- Geographical Location: Westfield view Trade Center, New York City, New York.
- Time period built: Modern Time period; construction started in 2006 and completed in 2014.
- Purpose of construction: “It was built in remembrance of the victims of the terrorist attack that happened on September 11<sup>th</sup>, 2001. (O'Connell)”



## Architectural Characteristics

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- Type of Structure: Contemporary Modern
- Characteristic of Form: Transformation
- “One World Trade Center features a hybrid structure comprised of a high-strength concrete core surrounded by a perimeter moment frame of steel frame adds rigidity and structural redundancy. Both bolted and welded together for maximum connection strength, the steel members were hoisted into place by two Manitowoc cranes- the largest ever used in New York City. (*ONE WORLD TRADE CENTER*)”



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A photograph of the Leaning Tower of Pisa, a tall, white, cylindrical stone structure with multiple tiers of arches. The tower is leaning slightly to the right. In the background, there are yellow buildings with red roofs and a clear blue sky. A crowd of people is visible at the base of the tower.

# The Leaning Tower of Pisa

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# Building Information

- Architect: Bonanao Pisano  
(Disappeared because he was ashamed of the tower's tilt. (Rizzo))
- Geographical Location: Tuscany, a region in west central Italy. (Britannica)
- Time Period Built: 12<sup>th</sup> century
- Purpose of construction: “It was built to be the bell tower of Pisa’s Cathedral Complex.”



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# Architectural Characteristics

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- Architectural Style: Romanesque style.
- Characteristic of Form: Movement
- “Three of its eight stories have been completed when the uneven settling of the buildings foundation in a region of soft ground became noticeable. At that time, war broke out between the Italian city-states, and construction was halted for almost a century. This pause allowed the tower’s foundation to settle and likely prevented its early collapse. (Britannica *Leaning Tower of Pisa*)”



The image shows the front facade of the Alamo mission building. It is a two-story stone structure with a prominent central arched doorway. Above the doorway is a decorative pediment. The roof is a unique stepped gable. Several windows are visible, some with arched tops. A flagpole with a Texas flag is on the left. The foreground has a green lawn and a black metal fence. The sky is overcast.

# The Alamo

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# Building Information

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- Architect: “Fray Antonio de San Buenaventura y Olivares, a Franciscan missionary of the college of Santa Cruz de Querétaro. (*The Alamo*)”
- Geographical Location: San Antonio, Texas.
- Time Period: : Founded between 1716 and 1718; 12<sup>th</sup> century.
- Purpose of Construction: “Originally built as the Chapel of the Mission San Antonio de Valero. (*The Alamo*)”



# Architectural Characteristics

- Architectural Style: New World Ecclesiastic Architecture.
- Characteristic of Form: Subtractive and additive.
- “Before the end of the century, the mission had been abandoned and the buildings fell into partial ruin. After 1801, the old chapel became popularly known as ‘The Alamo’ because of the grove of cottonwood trees in which it stood. (*Alamo*)”



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# Resources

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