# History of New York City Architecture

c. 1865-1885
The Age of Enterprise
Part 1

Iron transforms the building industry

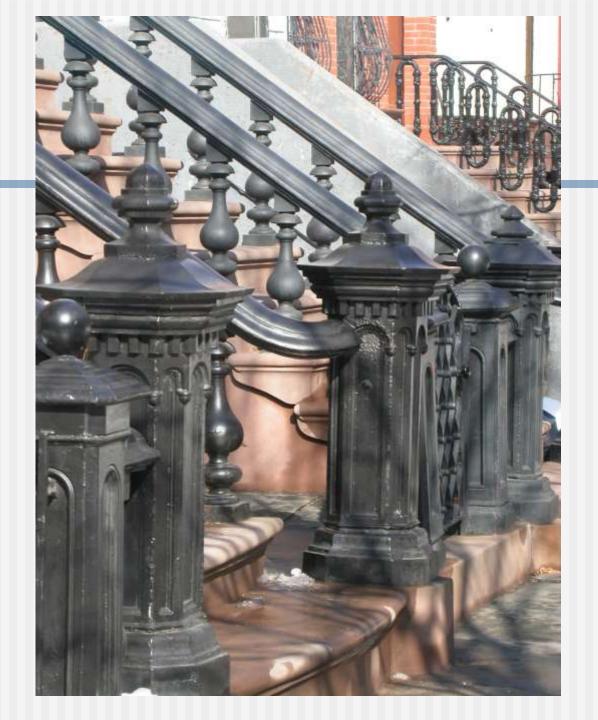
#### 3 types of iron alloys

- Wrought iron
  - Carbon content not over 0.035%
  - Good in tension
  - Worked with blacksmith's tools
- Cast iron
  - Carbon content between 2-4% (high)
  - Good in compression
  - Molten iron is poured into forms
- Steel
  - Carbon content between 0.06 2% (moderate)
  - Good in tension and compression
  - Can be formed in multiple ways

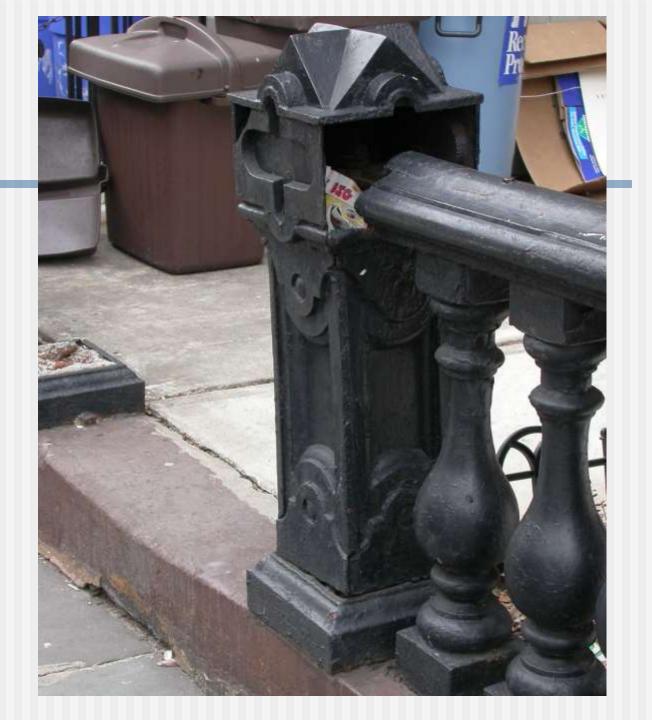












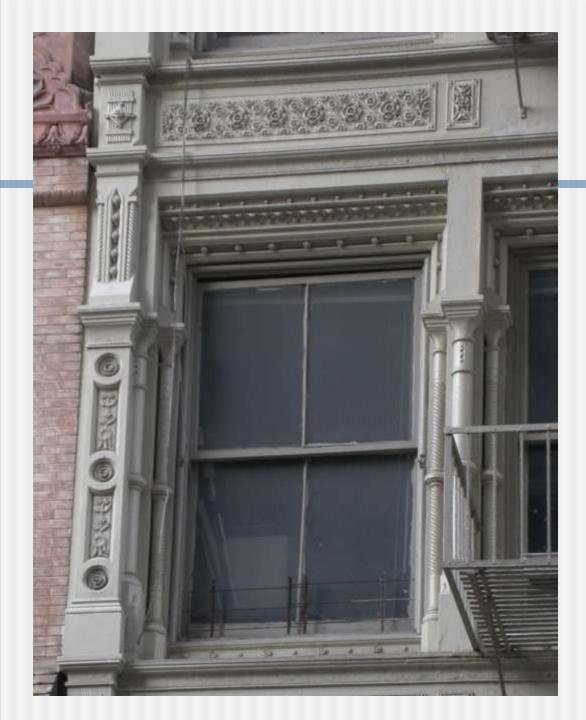




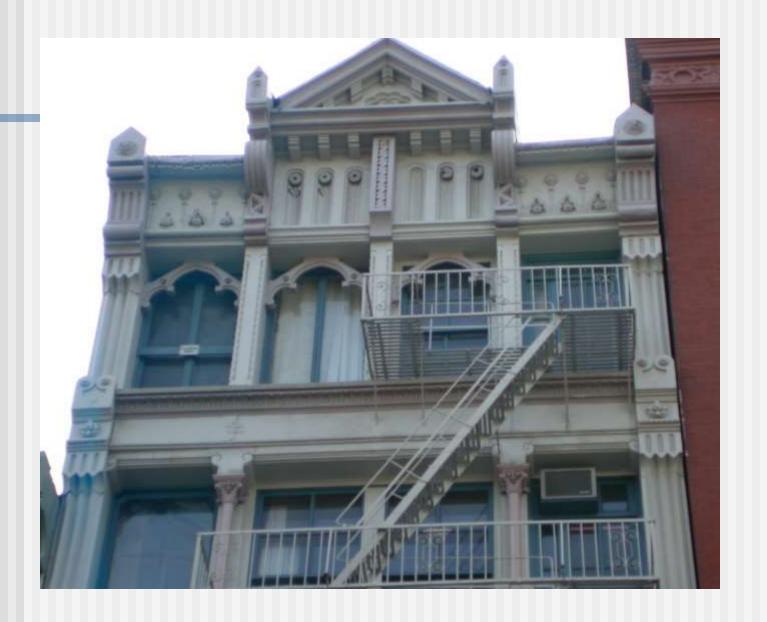








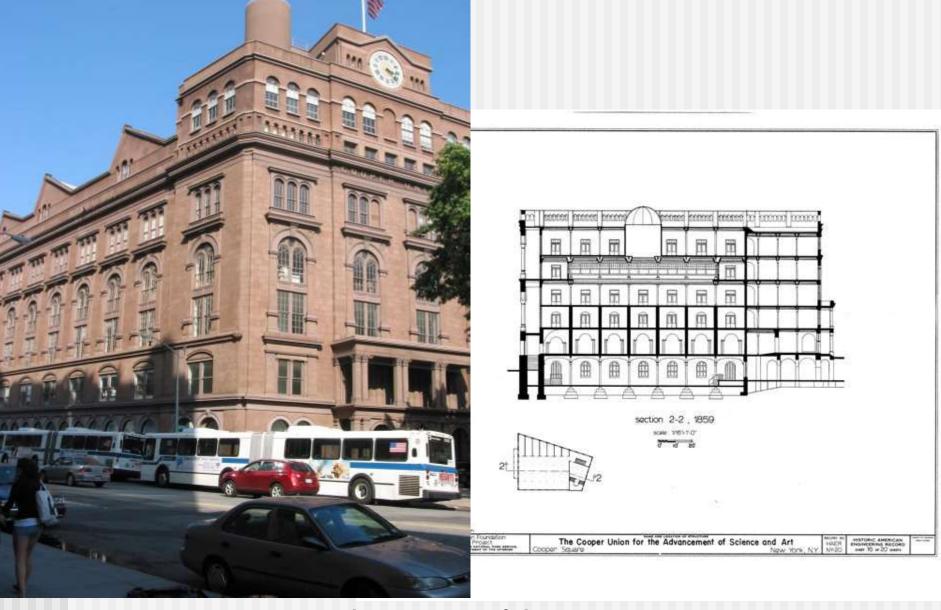




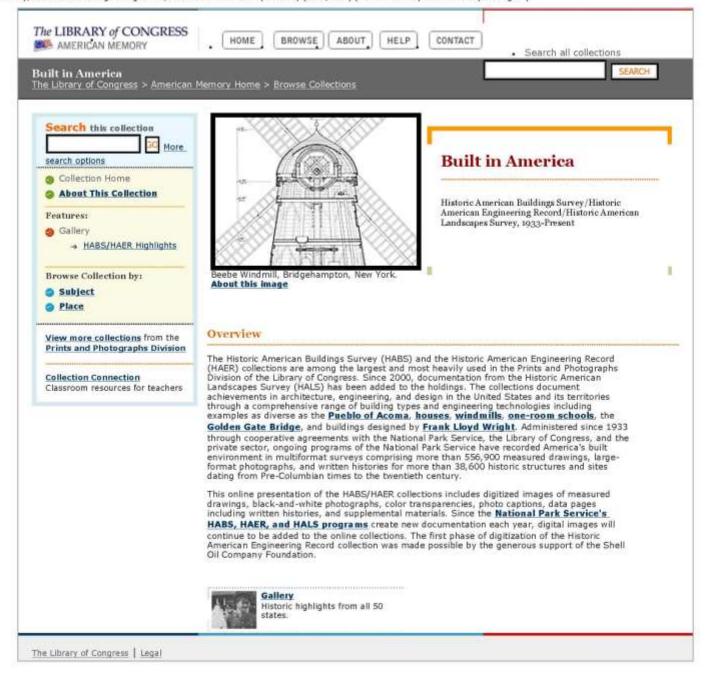


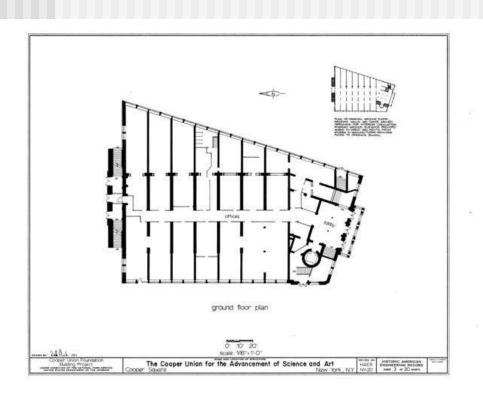


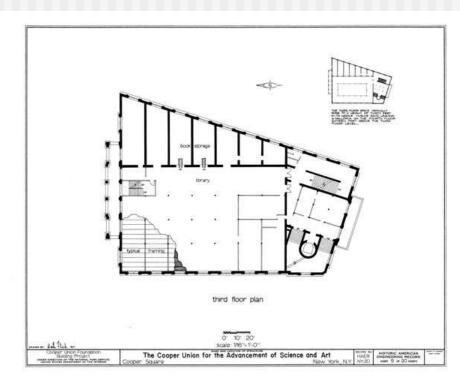
- Cooper Union Foundation Building,
- Frederick A. Peterson, 1853-1859



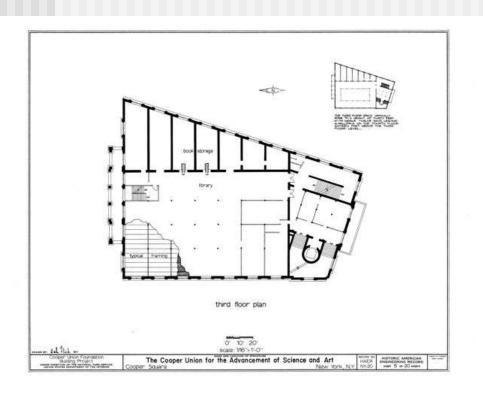
Cooper Union Foundation Building Frederick A. Peterson, 1853-1859

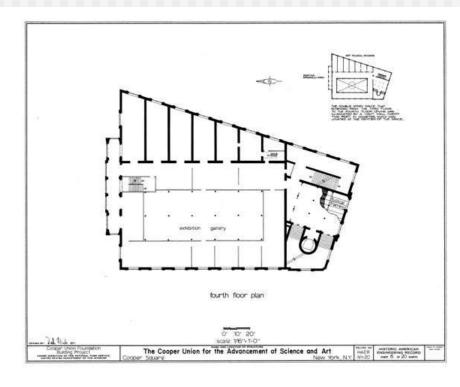






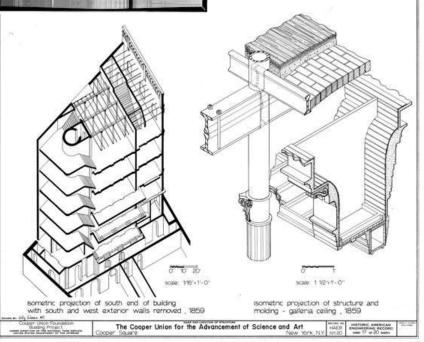
## Cooper Union Foundation Building Frederick A. Peterson, 1853-1859

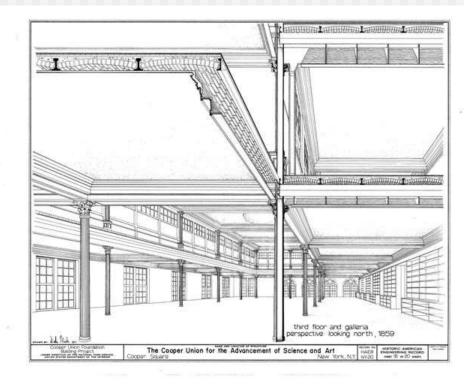




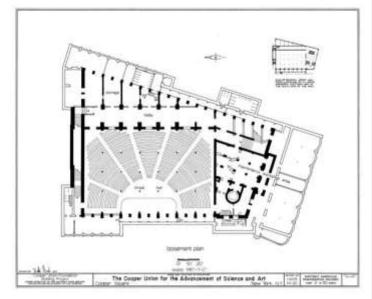
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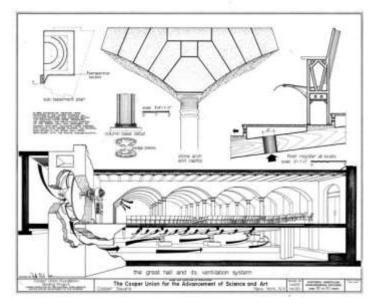








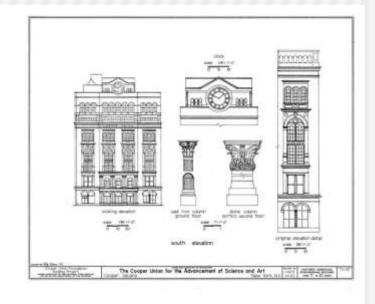


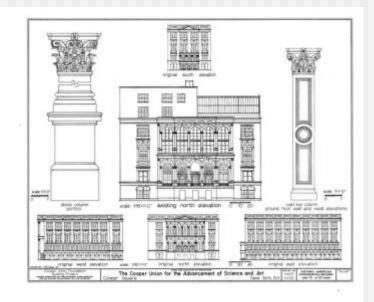


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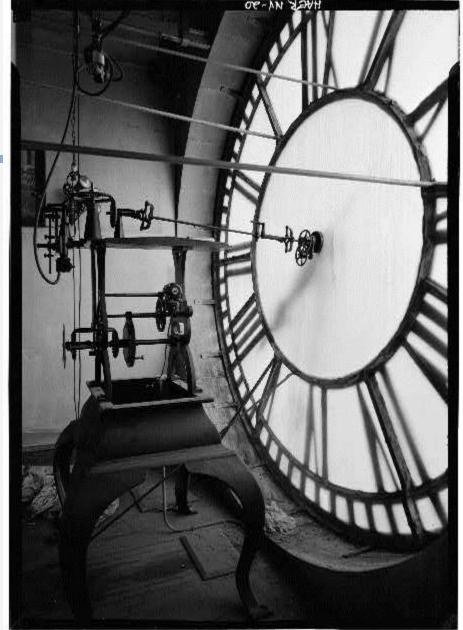






Cooper Union Foundation Building Frederick A. Peterson, 1853-1859

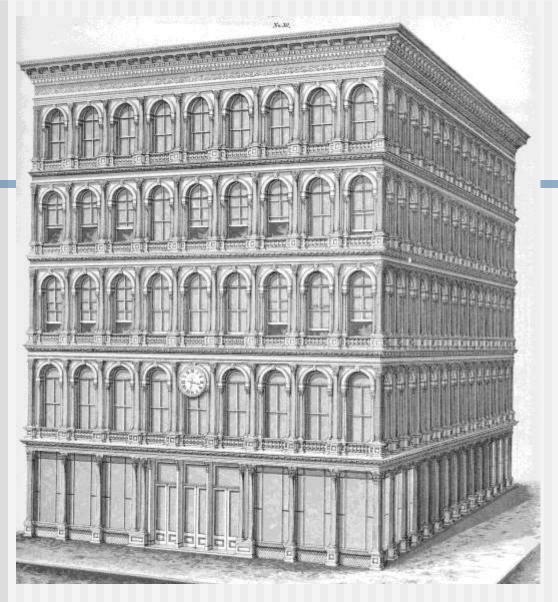








■ 63 Nassau St. James Bogardus 1844



 Haughwout Building -- illustration from Badger's Illustrated Catalogue of Cast-Iron Architecture

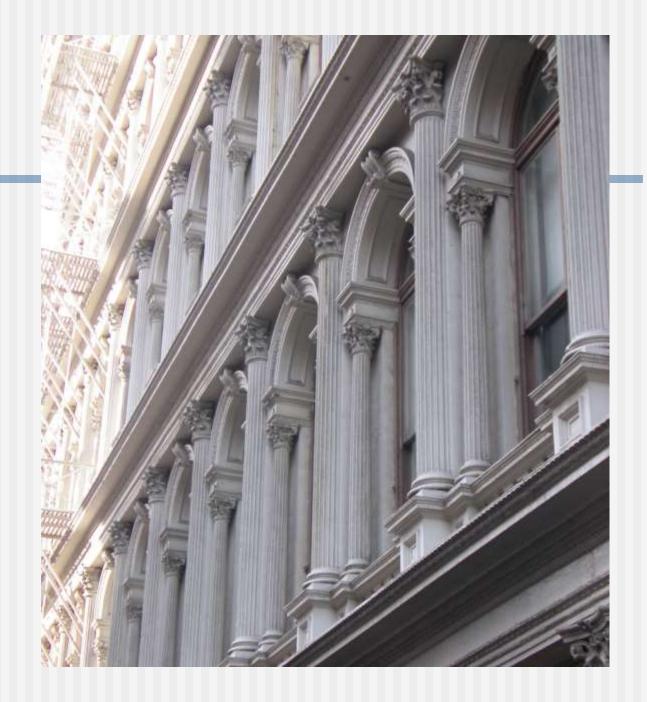


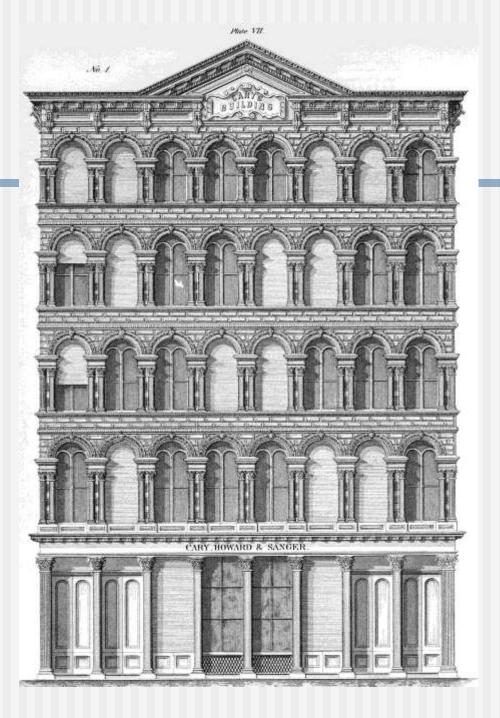
\* Haughwout Building, John P. Gaynor, 1856-7.
 Cast iron façade by Daniel D. Badger
 Architectural Iron Works



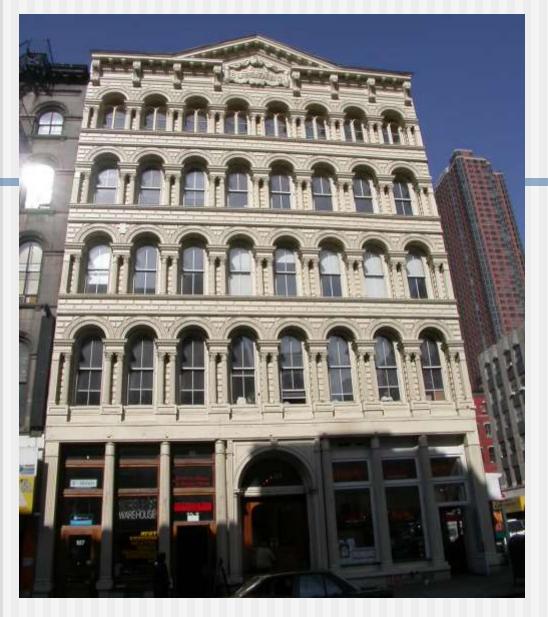


\* Haughwout Building, John P. Gaynor, 1856-7.
 Cast iron façade by Daniel D. Badger
 Architectural Iron Works





 Cary Building from Badger's Illustrated Catalogue of Cast-Iron Architecture



- \* Cary Building, King & Kellum, 1856-1857
- Cast Iron facade by Daniel Badger's Architectural Ironworks

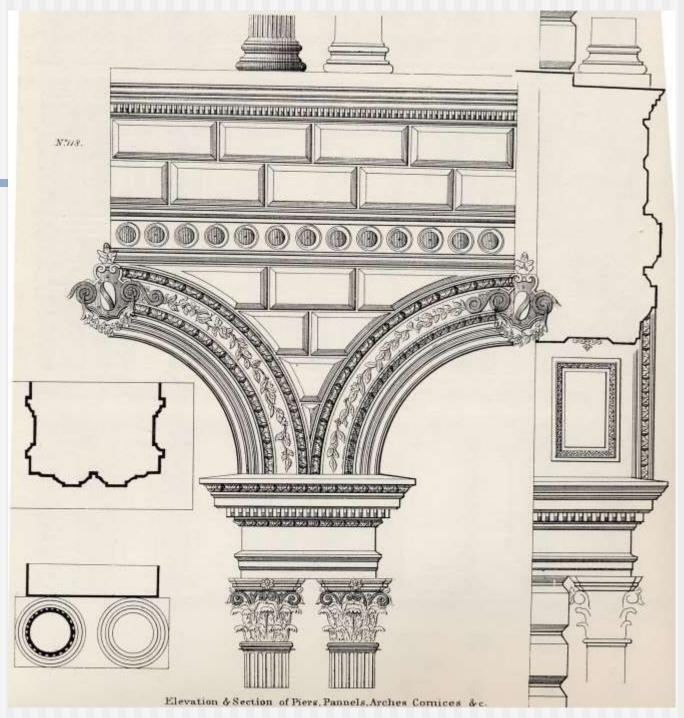
















Photo cr: Berenice Abbott, 1936

Wanamaker Department Store, John Kellum 1859-68



\* Roosevelt Building

Richard MorrisHunt, 1873-1874

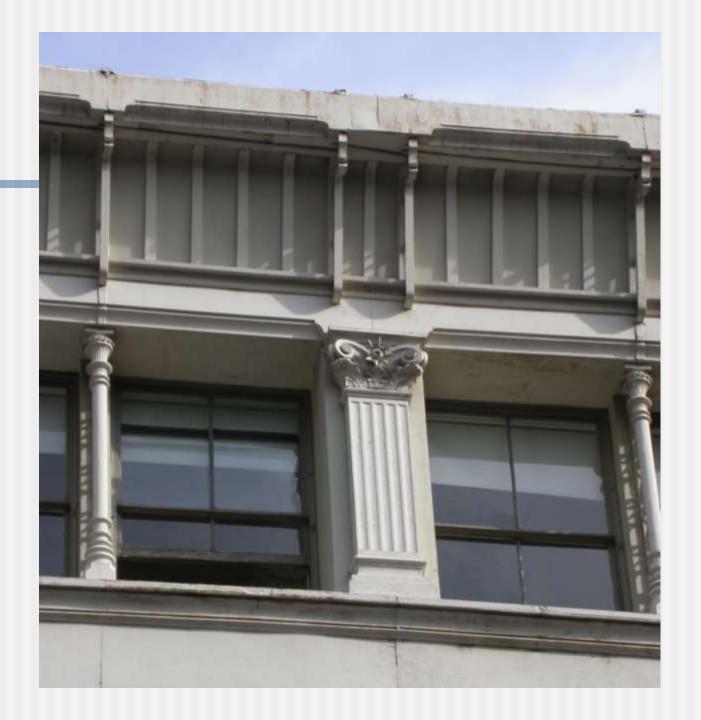






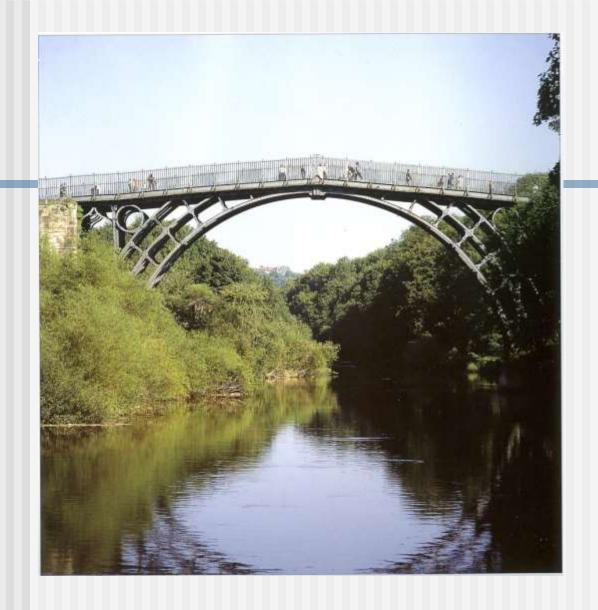






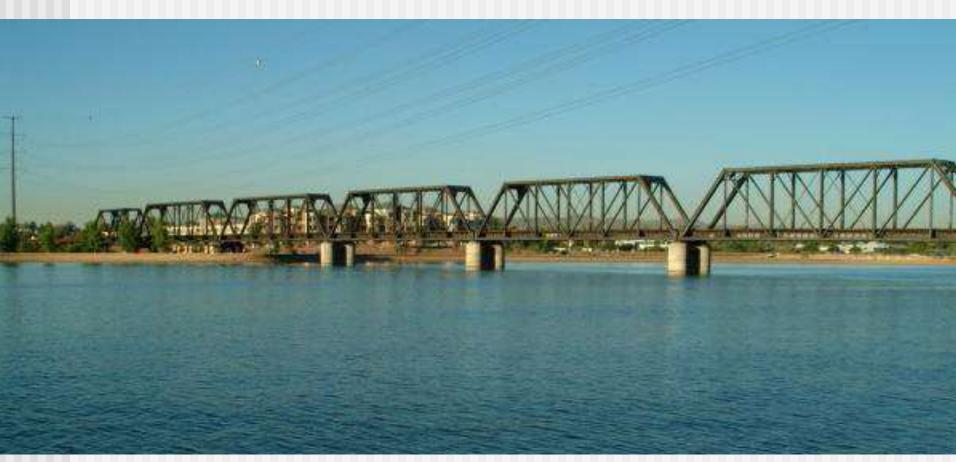


- \* RooseveltBuilding
- Richard Morris Hunt, 1873-1874



Coalbrookdale Iron Bridge Abraham Darby

1779



Truss Bridge



Crystal Palace Joseph Paxton, Engineer, 1851







Photo cr: AA Photo Library

St. Pancras Railroad Station Barlow & Ordish, 1864-68

London





Photo cr: AA Photo Library

St. Pancras Railroad Station London Barlow & Ordish, 1864-68



St. Pancras Railroad Station Barlow & Ordish, 1864-68

London renovated 2007 53



St. Pancras Railroad Station Barlow & Ordish, 1864-68

London Renovation 2007



Photo cr: Victorianweb.org

St. Pancras Railroad Station Barlow & Ordish, 1864-68 London



Photo cr: London Telegraph

St. Pancras Railroad Station Barlow & Ordish, 1864-68

London





**Grand Central Depot** 

John Snook, Architect, Isaac Buckhout, Engineer, 1869-71

## Age of Enterprise Prevalent Styles 1865-1890+

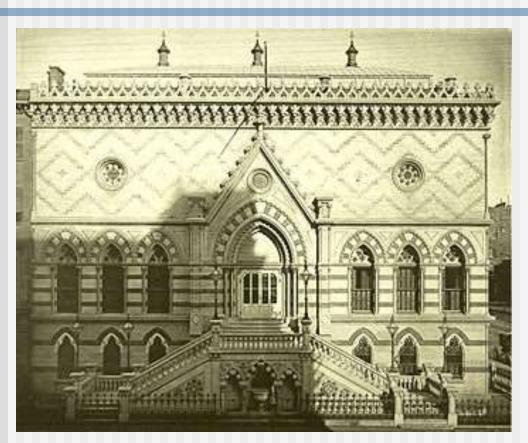
- Second Empire Baroque 1855-1880
- High Victorian Gothic 1860-1880
- Other styles
  - Stick Style (1862-1880)
  - Eastlake 1872-1885
  - Queen Anne 1875-1890
  - Shingle Style 1880-1900
- Romanesque Revival 1880-1895
  - Also continuation of Italianate (Renaissance, Classicism)

## ■Second Empire Baroque 1855-1880





## ■High Victorian Gothic 1860-1880





National Academy of Design, NYC Peter Bonnett Wight 1863-65

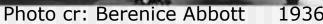
Mercantile Library Brooklyn 1867





Jefferson Market Courthouse Calvert Vaux & Frederick Withers,





Jefferson Market Courthouse Calvert Vaux & Frederick Withers,



1873<sub>6</sub>77

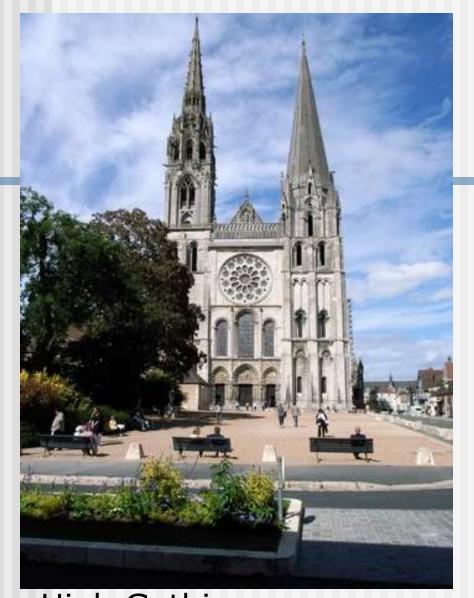






Jefferson Market Courthouse Calvert Vaux & Frederick Withers,

(Library 1967) 1873<sub>-3</sub>77



<u>High Gothic</u> Chartres 1194 - 1260

Reims 1211- end of 13<sup>th</sup>c., West façade 14<sup>th</sup> c. <sup>64</sup>



Cologne

begun 1248



St. Patrick's Cathedral 1858-79





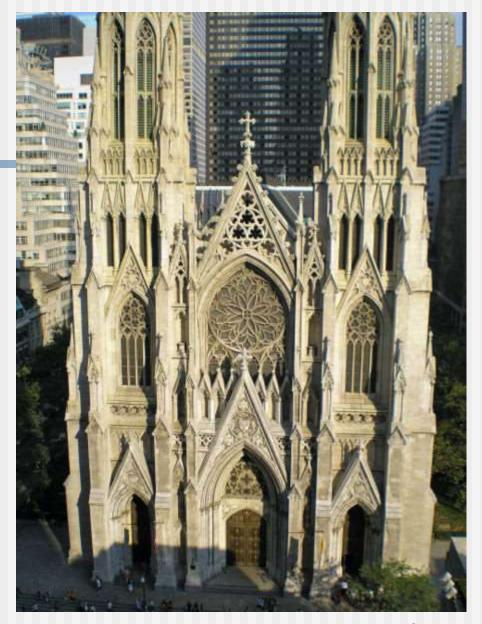
St. Patrick's Cathedral

James Renwick

1858-1879



St. Patrick's Cathedral 1858-1879



James Renwick





• \* Villard Houses, Joseph Wells of McKim, Mead & White, 1882-5.





• Palazzo della Cancelleria, Brunelleschi, 1483-





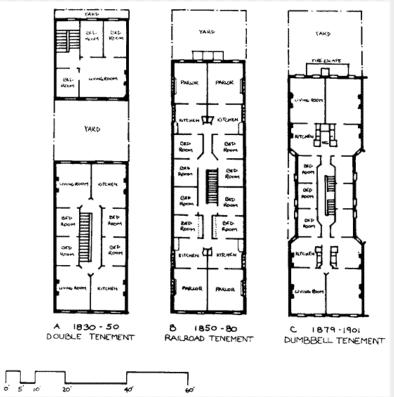
Villard Houses,

Joseph Wells - McKim, Mead & White, 1882-85

Palazzo della Cancelleria Brunelleschi, 1483-1513

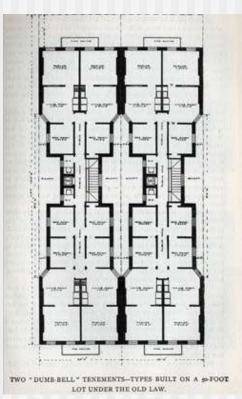


View fr: Charles Wingate Drawing



Tenement Housing c. 1865

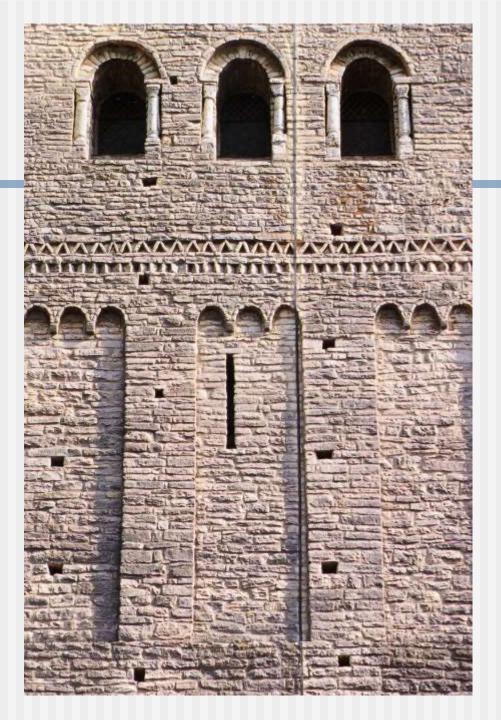


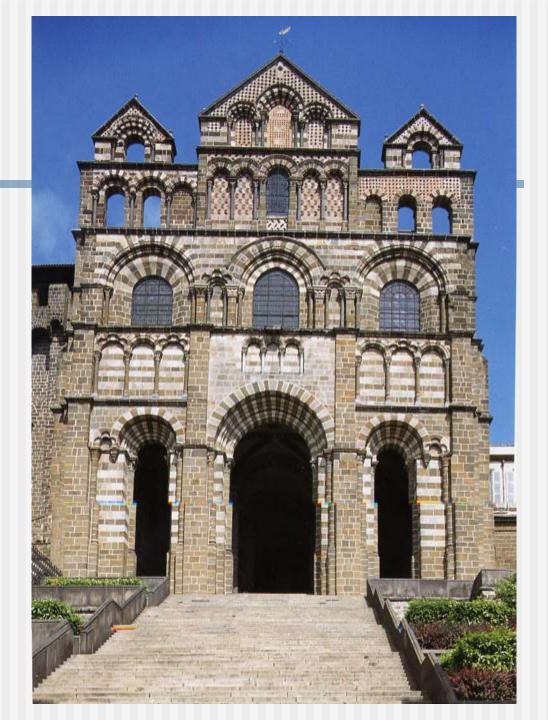


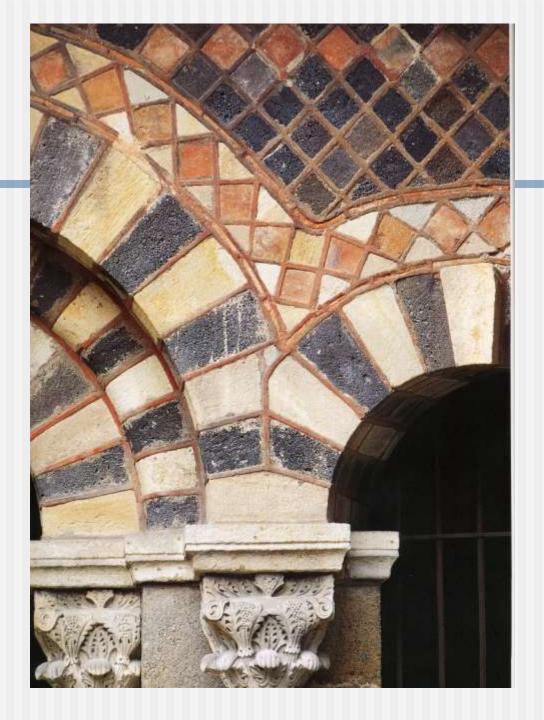
Mulberry St. Lower East Side c. 1900

## Romanesque Revival 1880-1895









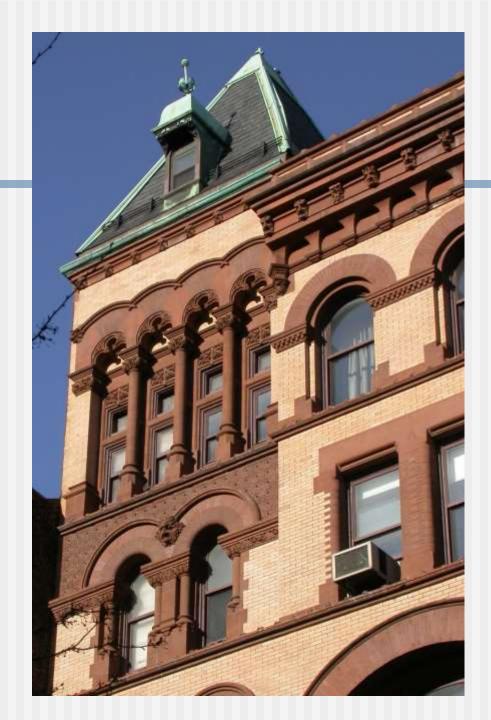
## Romanesque Revival 1880-1895 Characteristics

- Extensive use of masonry "honest"
- Variety of shapes and outlines
- Use of natural polychromy (many colors)
- Contrasting colors and textures
- Round, broad arches framing windows & doors
- Corbels
- Short, robust columns
- Single crowning tower
- Carved, intertwining floral details



 Schermerhorn Building, Henry J. Hardenbergh, 1888-1889.











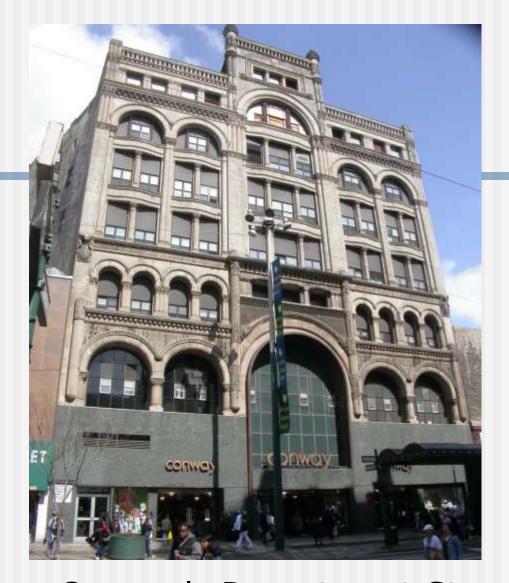
■ De Vinne Press Building, Babb, Cook, Willard, 1885-1886.



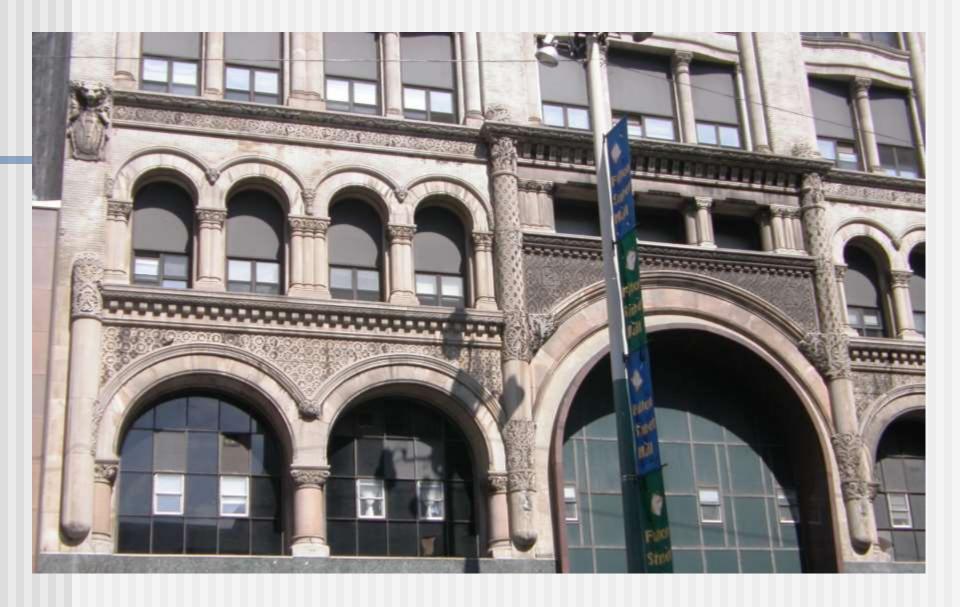
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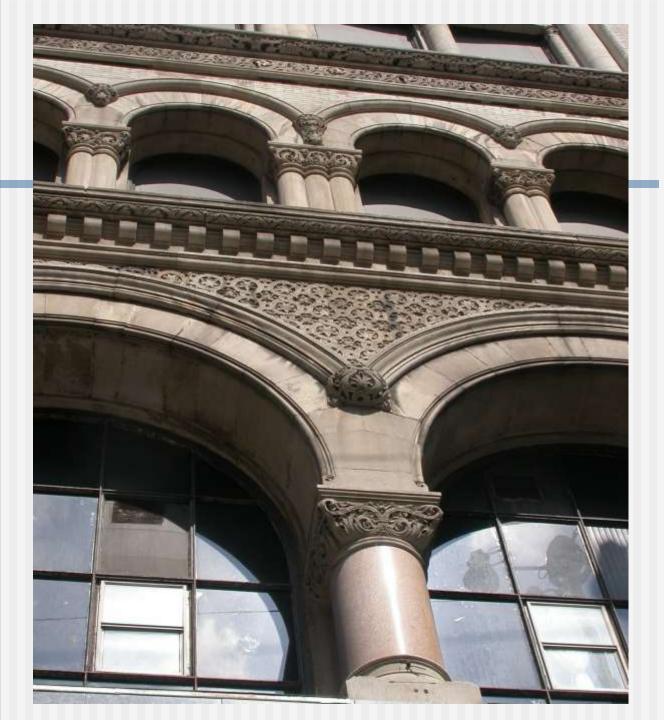
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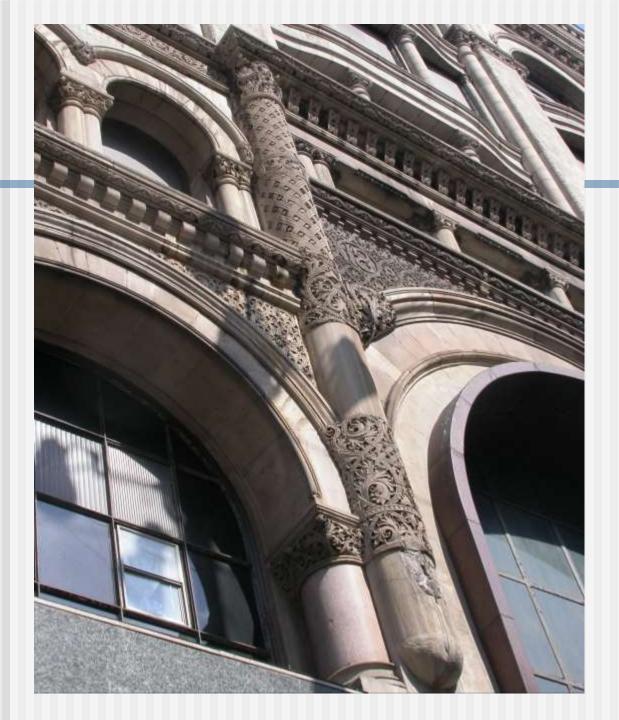


 Conway's Department Store, originally Wechsler Brothers Block, Lauritzen & Voss, 1891

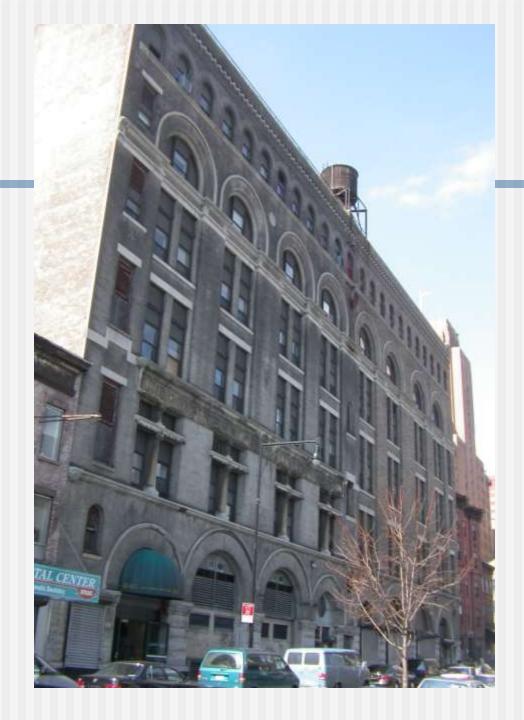




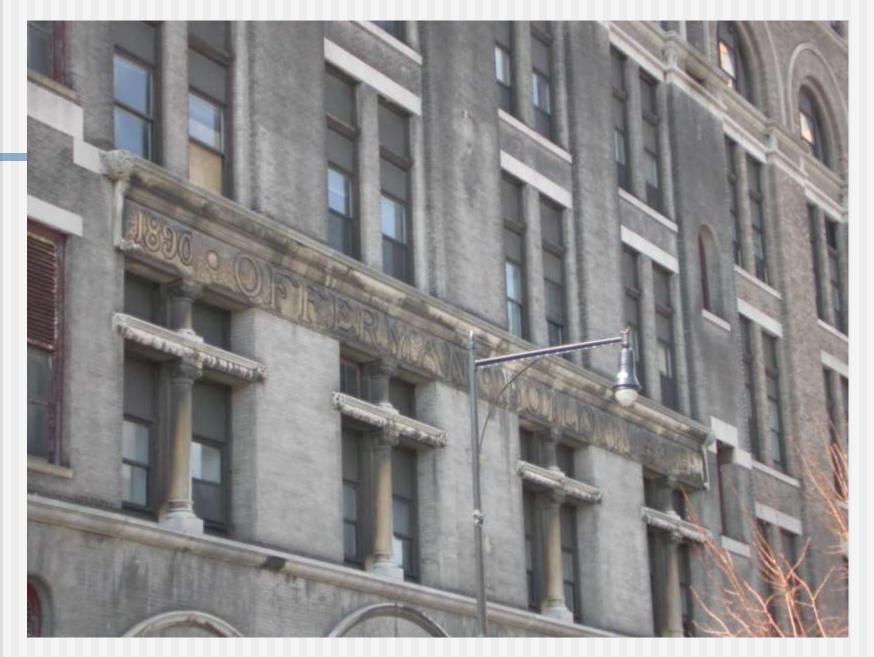










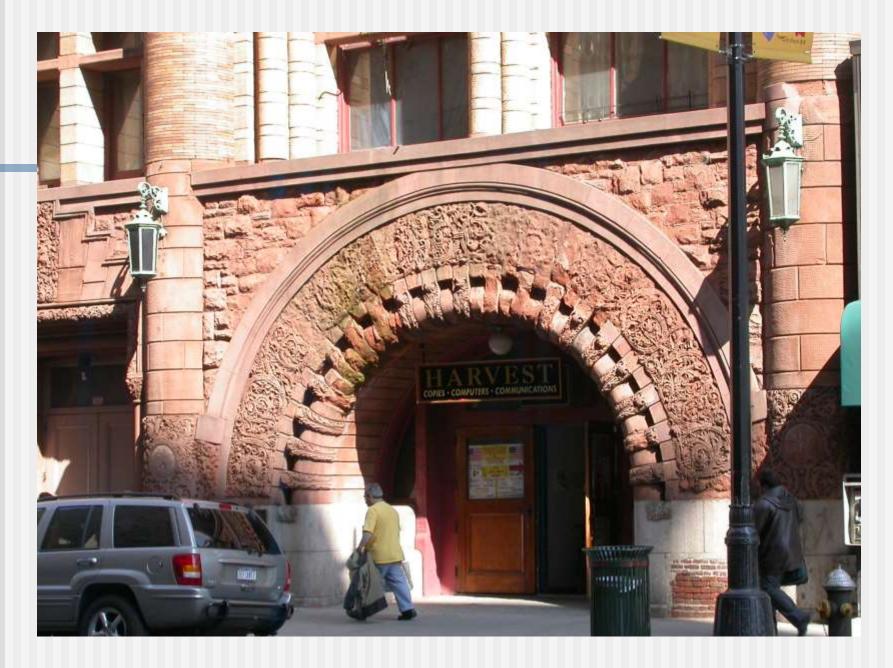


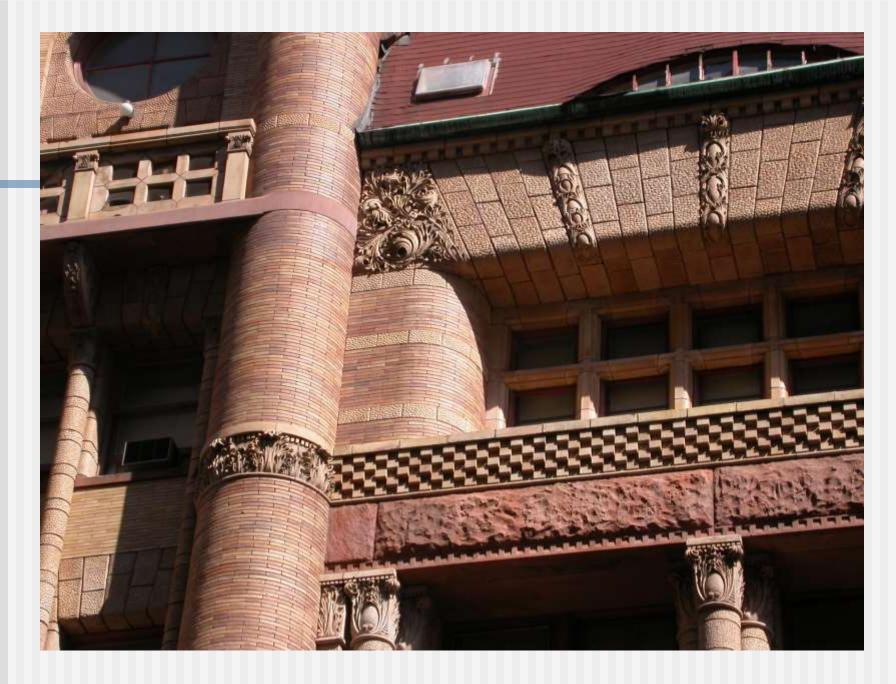






City of Brooklyn Fire Headquarters,
 Frank Freeman, 1892









■ Eagle Warehouse, Frank Freeman, 1893.

