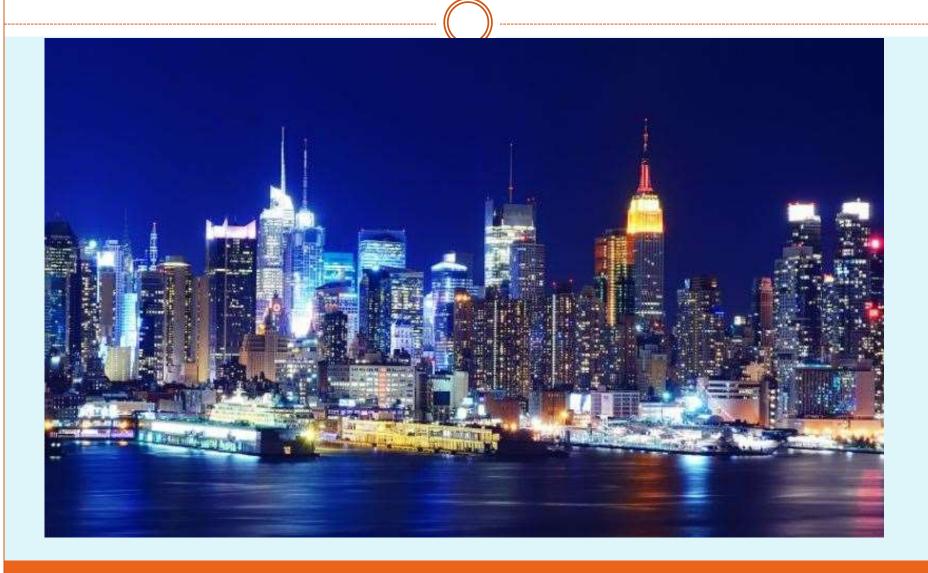
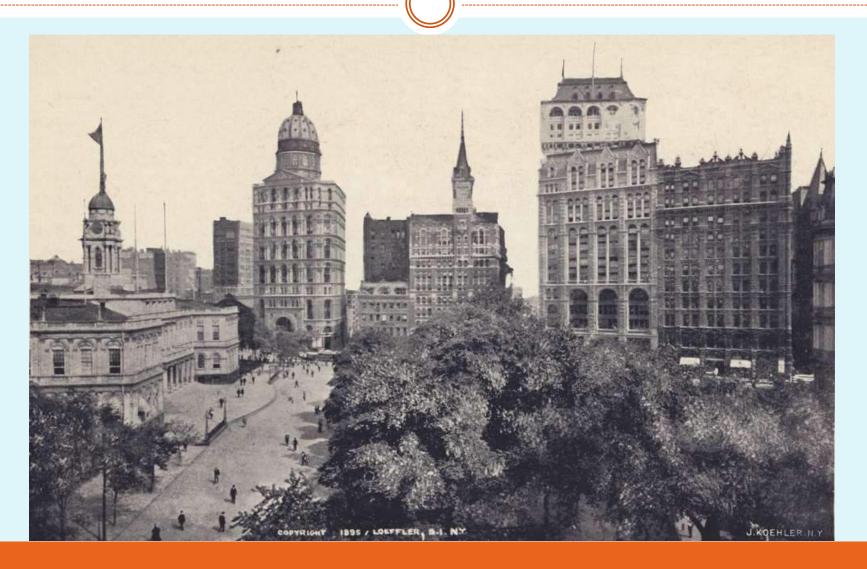
EARLY SKYSCRAPERS

Typical skyline of a modern city



Early skyscrapers

Park Row (New York City)

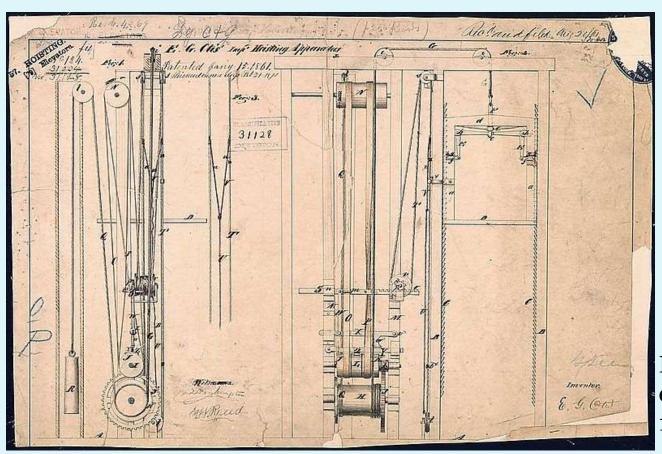


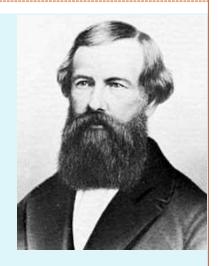
New type of building

- Safe elevator (driven by steam and later, electricity)
- A new methods of building were introduced

Development of a safe elevator

• Inventor: Elisha Graves Otis





Elisha Otis's elevator patent drawing, 15 January 1861



A new method of building





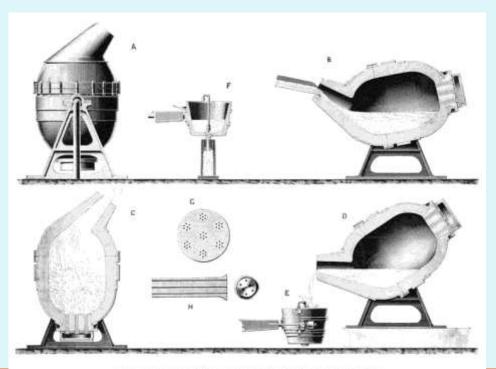
Map of Chicago (the area destroyed by the fire)

Aftermath of the fire





-discovered a process for making steel cheaply and economically





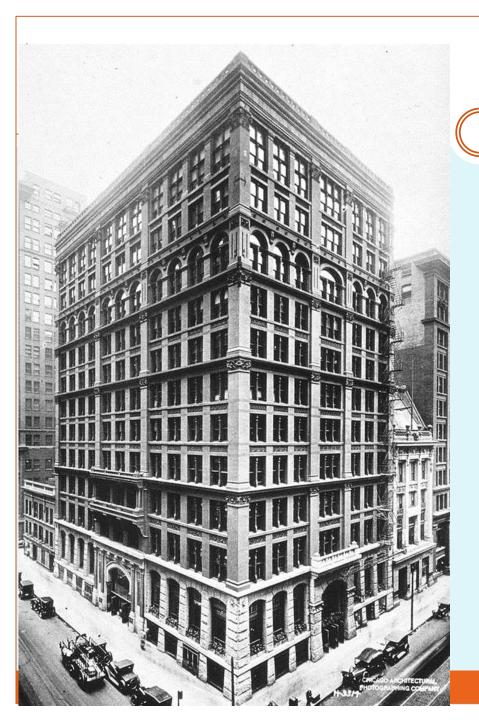
Bessemer converter

Building structure

- Support against gravity
- Weather Resistance
- Protection against fire



Hotel Chelsea (New York)



Home Insurance Building (Chicago)

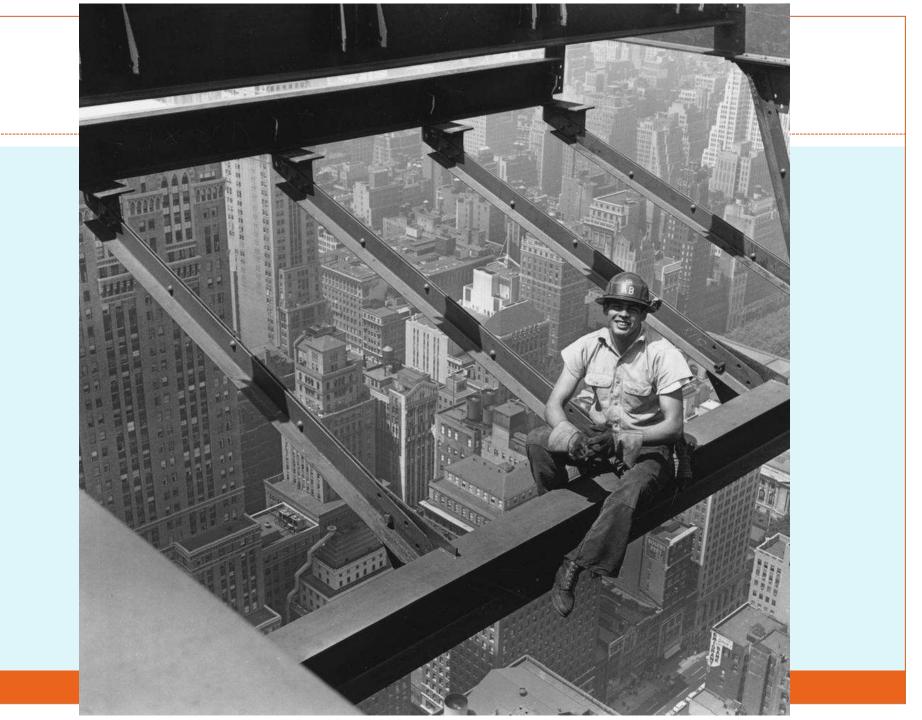
*1% of floor load was carried by the walls

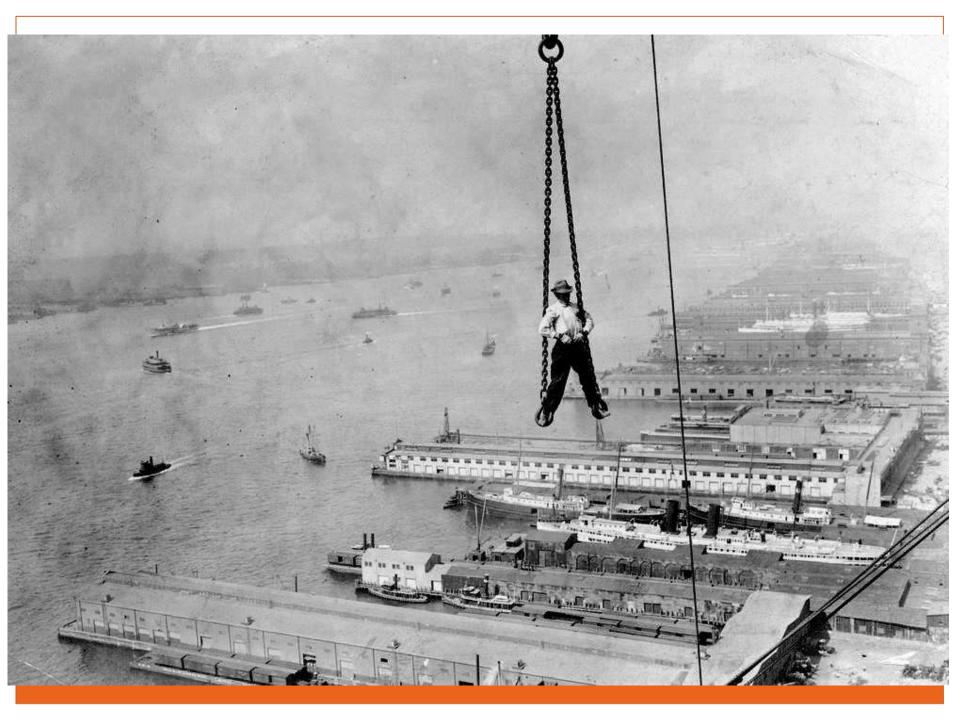


Woolworth Building (New York)









Style

- The earliest skyscrapers
 - -rectangular shape
 - -flat roof
 - -Gothic and Roman architecture

New York Life Insurance Building (Chicago)



- Modern and International style
 - -simple
 - rectangular shape
 - -frequent use of glass

The PSFS Building (Philadelphia)



Art Deco

- -emphasis on geometric form
- -decorative motifs



The Fisher Building (Detroit)

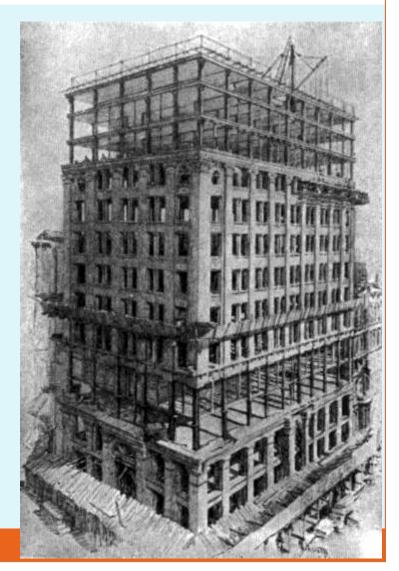
Skyscrapers in Chicago

Home Insurance Building

(1884)

-the firstskyscraper-54,9 m





- Wrigley Building

 (1920)
 -headquarters of the
 Wrigley (chewing gum)
 company
 - 130 m





- Park Tower(2000)
 - -without a steel structure!!!
 - -257,3 m



Skyscrapers in New York

• Flatiron building (1902)

-One of the world's most iconic skyscrapers

-93,6 m









• Chrysler Building (1930)

- Tallest in the world from May 27, 1930

to April 30, 1931

-319 m







Vocabulary

multi-story building = višekatnica elevator = dizalo load bearing capacity = nosivost curtain wall = pregradni zid triangular plot = trokutasti komad zemljišta steel frame/skeleton = čelični okvir

Sources

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- Structures in time & space 1, Lidija Kraljević
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- https://www.youtube.com/watch?v=WyXLwQoo4z
 <u>E</u>