

# Influences of material, floors, and height on a skyscraper's stability

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## 1. Introduction:

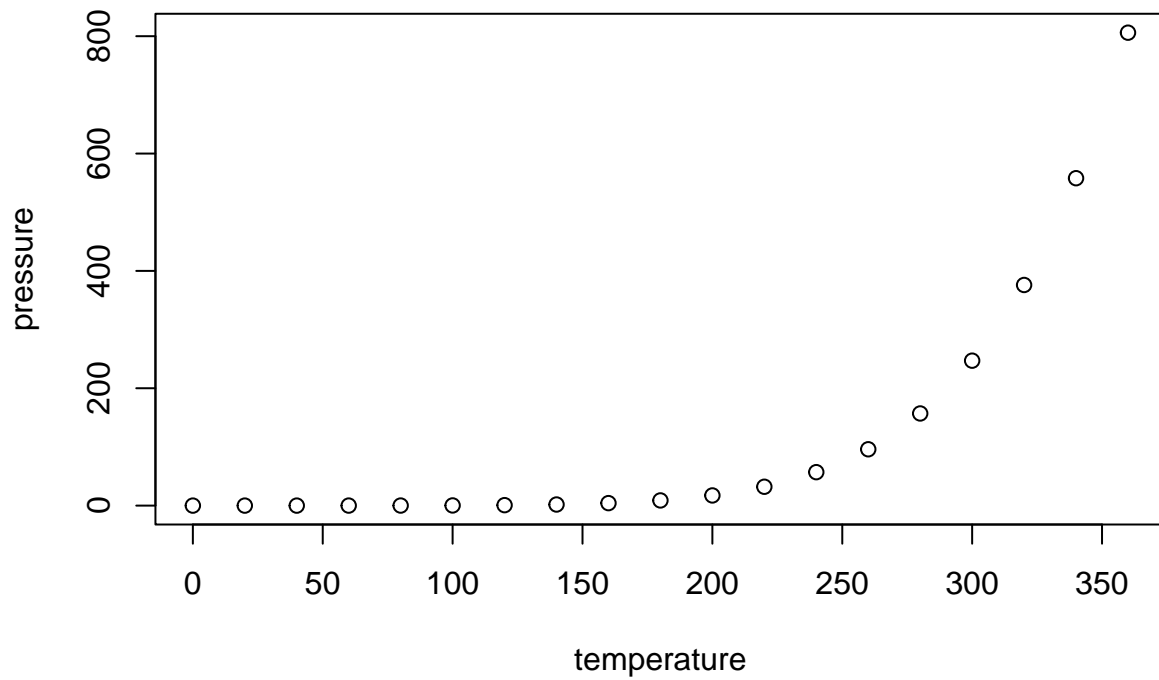
**Click [HERE](#) to view the dataset**

The above dataset records 1275 skyscrapers' name, city, material, number of floors, height, current status(either demolished or completed), completed year, start year, years to build. The data is collected by CTBUH(Council on Tall Buildings and Urban habitat) experts by conducting scientific measurements and keeping track of historical records. In order to design sustainable skyscrapers during construction, many factors must be considered holistically to make sure those buildings can support their weight, resist wind, and earthquakes. Therefore, we are going to investigate the influences of a skyscraper's material, number of floors, and height on its current status (either demolished or completed). the chosen outcome: current status (demolished/completed) three potential predictors: material, number of floors, and height.



Source: Lewis Hine, “Framework of the Empire State Building”, Wikipedia, 1 January 1930 [https://en.wikipedia.org/wiki/Skyscraper\\_design\\_and\\_construction#/media/File:Old\\_timer\\_structural\\_worker2.jpg](https://en.wikipedia.org/wiki/Skyscraper_design_and_construction#/media/File:Old_timer_structural_worker2.jpg)

You can also embed plots, for example:



Note that the `echo = FALSE` parameter was added to the code chunk to prevent printing of the R code that generated the plot.