

What is the Trend of Material Usage in Architecture Design?

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Initiation & Data Source

As architecture students, we are interested in having a better understanding about our industry in terms of the trend of architecture projects' material usage and the audience for our visualizations are architects and architecture students. The original data source is from Archdaily, a architecture projects website (<https://www.archdaily.com/>) and we used the method of web scraping to get a clean data.

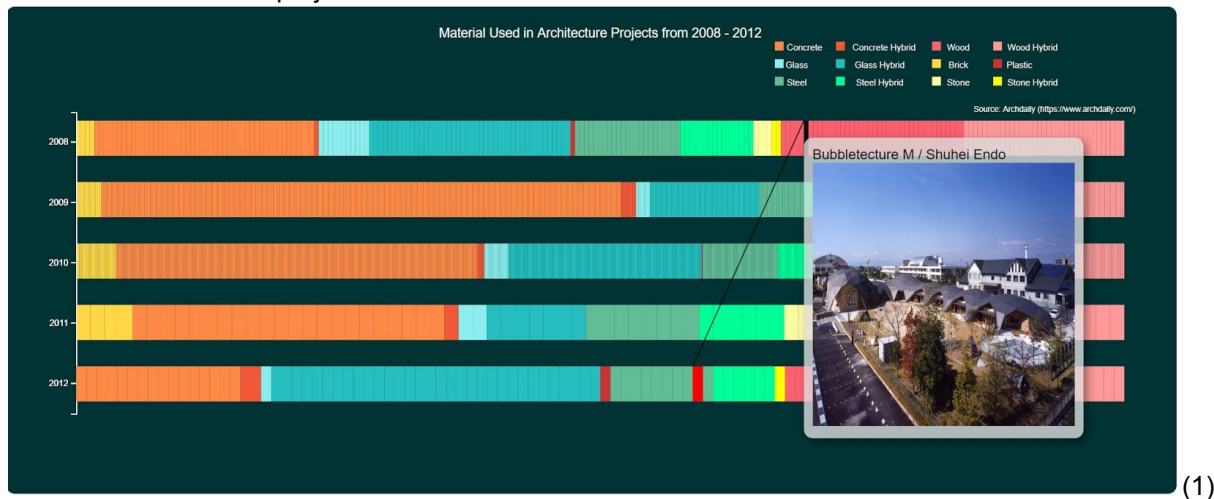
Purpose

We hope to answer the question such as:

1. Which material is more used (in a certain location) based on a timeline?
2. Does an architect has his preference for material when he/she design a project?
3. It's there any relationship between the program and the material an architectural project is used?

Content

The final data visualization prototype consists of three parts. The first part(1) is an overall timeline from year 2008 to 2012 showing all the projects. Each bar represents one project which are mapped by different colors based on material types and scaled according to total number of projects in that year to better compare over different years. When users hover over the bar, a detailed information and the image of the project would appear. When clicking over project, it will show other linkedin projects that share the same architects to this project.



The second(2) and third part(3) we break down the overall map by program category into two formats to have a better understanding of materials used in each program. In the second map, bars are scaled by total number of projects in each program to better compare over programs. In the third map, bars have the same scale and width so material usage of each program is compared within each own program.

