

# Data Driven Documents

Demo:

<https://keshavnagpal.github.io/D3BalanceScoreCard>

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## Objective

To explore D3js (Data Driven documents) and build a POC for “Balanced Score Card”

## Requirements

1. JavaScript enabled web browser
2. Working internet connection

## Features and how to use

1. In the POC user has the ability to browse different perspectives and sub-perspective. User also has ability to drill down to Measures and initiatives (outline colors indicate the status "on-Track/off-Track") under each objective belonging to different perspectives.
2. Works well on different browsers and screen sizes
3. If the name of the circle is longer than the circle it is in it'll get trimmed down, if user hover on an element it will show the full name of that element.
4. On hovering over a circle its attributes will also be shown if the element has an attribute field and isn't empty
5. The data linked to the POC can be updated online and will get reflected once the page is refreshed.

6. The User Interface is voice enabled in “BSC with voice UI” so user can also interact using voice queries.

- a. Click Start > Speak (your query will show up below the button while you speak) > Confirm command
- b. Sample queries:
  - *show me the sub-perspectives present under **internal***
  - *what are the objectives of **innovation**?*
  - *show me the contents of **good location***
  - *display the **initiatives*** (will show the initiatives of current object)
  - *show me the **measures*** (will show the measures of current object)
  - *go back to the **internal**.*
  - *show me the objectives of **financial***
  - *go back to **home**.....*

## Example/use cases

This can be used to make data driven dashboards and interactive data exploration.

## Technologies and frameworks used

1. D3js, a JavaScript library
2. HTML, CSS, JavaScript

## Ideas for the future

1. Attributes as circles can also be made to transition when the parent circle transitions,
2. Attributes can have further attributes nested in them,
3. The path in the navigation bar can be made clickable for every element, so when user click on a name on the path that element will get focused,
4. Colors can be changed according to any criteria by adding a color field to the editable j-son data, which will decide the color of the element, say "color":1, "color":2 or "color": "green" etc. and it will be mapped to the color of the respected element

# Things to consider for further developments

## Attributes as circle

1. Whenever user hovers over an element its attributes will appear as circles around it, but when user hover over the attribute circle the mouse-leave event will get trigger and the attribute circle will disappear, in order to add attributes of attributes one needs to overcome this hover situation
2. When the parent element transitions the attribute circles also need to transition accordingly

## Voice UI

1. Pressing of key after speaking the query can be eliminated by triggering a key press event using JavaScript when the user stops speaking, to trigger the transition automatically.

## Demo Links

- [Balanced-Score-Card](#)
- [BSC with Voice UI](#)
- [BSC with Attributes as circles](#)
- [J-son Data](#)
- [J-son Data for Attributes as circles](#)