

### Lab 3: Intro to D3.js II

This sheet is for synthesizing your learning into concise descriptions for your future self and classmates. It is recommended to first make sense of the new learnings in the lecture and only after you feel you have grasped them, use this sheet to summarize the most important points.

Throughout the video I mention **3 good habits when working with D3**. Note them down here.

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```
viz.selectAll(  
    ).data(myData).enter()  
    .append( "circle" or "g" or "rect" etc. )  
    .attr("class",  
    .attr(...)  
    .attr(...)  
    .attr(...)  
    .attr(...)  
    ;
```

Effective use of  
**classes**

```
function randomTranslate(d, i){  
    let x = Math.random() * 500;  
    let y = Math.random() * 500;  
    return "translate(" + x + "," + y + ")";  
}  
  
function gotData(incomingData){  
    let viz = d3.select("body")  
    .append("svg")  
    .attr("width", 500)  
    .attr("height", 500)  
    ;  
    // append groups  
    let groupelements = viz.selectAll(".datagroup").data(incomingData)  
    .enter()  
    .append("g")  
    .attr("class", "datagroup")  
  
    ;  
    // append circles  
    groupelements.append("circle")  
    .attr("r", 20)  
  
    ;  
    // append text  
    groupelements.append("text")  
    .text("hello")  
    .attr("fill", "red")  
  
    ;  
}
```

**Datagroups**  
Create and position  
them