```
<!DOCTYPE html>
<html>
<head>
	<title>NBA Kidz Viz</title>
  <script type="text/javascript" src="d3.v2.js"></script>
	<script type="text/javascript" src="jquery-1.8.3.js"></script>
</head>
<body>
	<div id="historyLevel"></div>
	<div id="yearLevel"></div>
	<div id="seasonLevel"></div>
	<div id="teamLevel"></div>
	<div style="width:240px; height:25px; z-index:98;" id="teamName"></div>
	<div style="width:240px; height:25px; z-index:98;" id="playerName"></div>
	<button id="backbtn1" onClick="backToHistory()" style="position:absolute;
left:100px; top:100px; display:none; z-index:99;">Back</button>

	<button id="backbtn2" onClick="backToSeason()" style="position:absolute;
left:100px; top:100px; display:none; z-index:99;">Back</button>


	<div style="position:absolute; top:500px; left:900px; width:150px;
height:150px; z-index:98; border:solid 3px gray; padding:5px; word-wrap:break-
word;" id="playerInfo1">
		Empty

	</div>
	<div style="position:absolute; top:500px; left:1070px; width:150px;
height:150px; z-index:98; border:solid 3px gray; padding:5px; word-wrap:break-
word;" id="playerInfo2">
		Empty
	</div>

	<div style="position:absolute; top:100px; left:900px; width:320px;
height:200px; z-index:98; border:solid 3px gray; padding:5px; word-wrap:break-
word;" id="legend">
		<img src="legend.png">
	</div>

	<div style="position:absolute; top:360px; left:400px; width:300px;
height:50px; z-index:98; word-wrap:break-word; text-align:center;" id="context">

	</div>

	<button id="clearText" onClick="clearPlayerText()" style="position:absolute;
left:900px; top:460px; z-index:99;">Clear</button>
```

```
<script type="text/javascript">

        /////// original height was 700
        var svgHeight = 800;
        var svgWidth = 1000;
        var yearX = 0;
        var yearY = 0;
        var yearR = 0;
        var yearStroke = 0;
        var teamX = 0;
        var teamY = 0;
        var teamR = 0;
        var teamStroke = 0;

        var bigCircleR = 250;
        var bigCircleCX = svgWidth/2;
        var bigCircleCY = svgHeight/2;

        var yearCircleR = 60;
        var teamCircleR = 60;

        var seasonYear = 2012;
        var yearIndex = 0;
        var teamIndex = 0;

        var useStats = new Array();
        var playerNames = new Array();
        var bottomstats = new Array();

        var playerPicked1 = 0;
        var playerPicked2 = 0;

        var contextYear = 0;
        var contextTeamName = "";
        var contextImage = "";

        // var mouseX = 0;
        // var mouseY = 0;

        // $(document).mousemove(function(e){
        //      mouseX = e.pageX;
        //          mouseY = e.pageY;
        // });
```

```
var alldata =
                var data = alldata.overview;

                var number = 2012;
                console.log(alldata.overview);
                console.log(alldata["overview"].length);


                console.log("ScreenWidth");
                console.log(screen.width/2-svgWidth/2);
                // $('#historyLevel').attr('style', 'position:absolute;
left:'+(screen.width/2-svgWidth/2)+'px; width:'+svgWidth+'px;
height:'+svgHeight+'px; z-index: 1;');
                // $('#yearLevel').attr('style', 'position:absolute;
left:'+(screen.width/2-svgWidth/2)+'px; width:'+svgWidth+'px;
height:'+svgHeight+'px; z-index: 1;');
                // $('#seasonLevel').attr('style', 'position:absolute; left:'+
(screen.width/2-svgWidth/2)+'px; width:'+svgWidth+'px; height:'+svgHeight+'px;
z-index: 1; display:none;');
                // $('#teamLevel').attr('style', 'position:absolute; left:'+
(screen.width/2-svgWidth/2)+'px; width:'+svgWidth+'px; height:'+svgHeight+'px;
z-index: 1; display:none;');

                $('#historyLevel').attr('style', 'position:absolute; left:50px;
width:'+svgWidth+'px; height:'+svgHeight+'px; z-index: 1;');
                $('#yearLevel').attr('style', 'position:absolute; left:50px;
width:'+svgWidth+'px; height:'+svgHeight+'px; z-index: 1;');
                $('#seasonLevel').attr('style', 'position:absolute; left:50px;
width:'+svgWidth+'px; height:'+svgHeight+'px; z-index: 1; display:none;');
                $('#teamLevel').attr('style', 'position:absolute; left:50px;
width:'+svgWidth+'px; height:'+svgHeight+'px; z-index: 1; display:none;');



                // upcoming code is for season years circles

                // this creates history svg and initial big circle
                var historySVG = d3.select("#historyLevel")
            .append("svg")
            .attr("width", svgWidth)
            .attr("height", svgHeight)
                        .append("circle")
                        .style("stroke", "black")
            .style("fill", "none")
                        .attr("class", "historyCircle")
                        .attr("r",          bigCircleR)
```

```
        .attr("cx", bigCircleCX)
                .attr("cy", bigCircleCY)
                .attr("stroke-width", 20);

            // attaching svg to year, season, and team level
            var yearSVG = d3.select("#yearLevel")
        .append("svg")
        .attr("width", svgWidth)
        .attr("height", svgHeight);

            var seasonSVG = d3.select("#seasonLevel")
        .append("svg")
        .attr("width", svgWidth)
        .attr("height", svgHeight);

            var teamSVG = d3.select("#teamLevel")
        .append("svg")
        .attr("width", svgWidth)
        .attr("height", svgHeight);



            // starting to add g elements and actual circles
            var radian = 0;
            var arrayLength = data.length;
            var seasonYears = yearSVG.selectAll("g.years")
                .data(data)
                .enter()
                .append("g")
                .attr("class", "years")
                .attr("data-year", function(d,i){       console.log(d);

return d.year;

                                                                                    })
                .on("click", disappearYear);




            // adding year circles to g elements
            seasonYears.append("svg:circle")
        .style("stroke", "black")
                .style("stroke-width", 3)
        .style("fill", "white")
                .attr("data-year", function(d){ return d.year; })
```

```
                .attr("class", "yearCircle")
            .attr("r", yearCircleR)
            .attr("cx", function(d,i){ radian = 2 * i * Math.PI/arrayLength - Math.PI/2;
                                                                    return
Math.round(bigCircleR * Math.cos(radian) + bigCircleCX);
                                                                }) 
                .attr("cy", function(d,i){       radian = 2 * i *
Math.PI/arrayLength - Math.PI/2;

        console.log("CX: " + this.getAttribute("cx"));
                                                                    return
Math.round(bigCircleR * Math.sin(radian) + bigCircleCY);
                                                                });

            // adding year text to circles
            seasonYears.append("svg:text")
                .text(function(d,i){ return d.year; })
                .attr("class", "yearText")
            .attr("x", function(d,i){
        console.log(d3.selectAll(".yearCircle")[0][i].getAttribute("cx"));
                                                            return
d3.selectAll(".yearCircle")[0][i].getAttribute("cx"); })
            .attr("y", function(d,i){   return
d3.selectAll(".yearCircle")[0][i].getAttribute("cy"); })
            .attr("dy", 7)
                .attr("text-anchor", "middle");


            // beginning transition from history level to season level
            function disappearYear() {


                $("#backbtn1").attr("style", "position:absolute; left:100px;
top:100px; display:visible; z-index:99;");

                console.log("This:");

        console.log(d3.select(this).select(".yearCircle")[0][0].getAttribute("cx"));


                yearX =
d3.select(this).select(".yearCircle")[0][0].getAttribute("cx");
                yearY =
d3.select(this).select(".yearCircle")[0][0].getAttribute("cy");
                yearR =
d3.select(this).select(".yearCircle")[0][0].getAttribute("r");
```

```
                    console.log("yearX: " + yearX);
                    console.log("yearY: " + yearY);
                    console.log("yearR: " + yearR);



                    // getting the year index so that we can access correct data in
JSON
                    contextYear = d3.select(this).select(".yearCircle").attr("data-
year");
                    yearIndex = seasonYear - contextYear;
                    console.log("Year Index: " + yearIndex);



                    // changing class of selected yr circle to distinguish it and
moving it to center
                    d3.select(this).select(".yearCircle")
                            .attr("class", "abnormalYearCircle")
                    .transition()
                    .delay(0)
                        .duration(500)
                        .attr("cx", svgWidth/2)
                                    .attr("cy", svgHeight/2)
                                    .each("end", disappearYear2);


                    function disappearYear2() {
                            $('.yearText').fadeOut(700);
                            $('.historyCircle').fadeOut(700);
                            $('.yearCircle').fadeOut(700);

                            // enlarge season circle and start adding season details
by calling startSeason function
                            d3.select(this)
                       .transition()
                        .duration(700)
                        .style("stroke-width", 20)
                        .attr("r", 250)
                                    .each("end", startSeason);

                    }

                }
```

```
        function startSeason() {
                console.log("Start Season");
                console.log(data[yearIndex].teams[0]);

                // need to change the value of arrayLength because there are
more teams than seasons
                arrayLength = data[yearIndex].teams.length;

                var seasonTeams = seasonSVG.selectAll("g.teams")
                        .data(data[yearIndex].teams)
                        .enter()
                        .append("g")
                        .attr("class", "teams")
                        .attr("data-team", function(d){       return d["name"]; })
                        .attr("data-image", function(d){      return
d["teamImg"]; })
                        .on("click", disappearSeason)
                        .on("mouseover", function(d,i){
d3.select("#context").style("top", "330px");

        $('#context').html("<h3>"+d["name"]+"</br>Points: "+

                                useStats[i][0][0]+"</br>Assists: "+

                                useStats[i][1][0]+"</br>Rebounds: "+

                                useStats[i][2][0]+"</br>FG Percent: "+

                                useStats[i][3][0]+"%</br>Min Played: "+

                                useStats[i][4][0]+"</h3>"); })
                        .on("mouseout", function(d,i){
        d3.select("#context").style("top", "360px");

        $('#context').html("<h1>"+contextYear+"</h1>"); });



                seasonTeams.append("svg:circle")
                .style("stroke", "none")
                        .style("stroke-width", 3)
                .style("fill", "white")
                        .attr("class", "teamfakeCircle")
                        .attr("data-teamnumber", function(d,i) { return i; })
```

```
                    .attr("r",   teamCircleR)
                    .attr("cx", function(d,i){ radian = 2 * i * Math.PI/arrayLength -
Math.PI/2;
                                                                                    return
Math.round(bigCircleR * Math.cos(radian) + bigCircleCX); })
                                .attr("cy", function(d,i){       radian = 2 * i *
Math.PI/arrayLength - Math.PI/2;
                                                                                    return
Math.round(bigCircleR * Math.sin(radian) + bigCircleCY); });


                        var tmpNumber = 0;
                        seasonTeams.append("clipPath")
                                .attr("id", function() { return "clipping"+tmpNumber++;
})
                                .attr("class", "clips")
                                .append("svg:circle")
                                        .attr("r", teamCircleR)
                                .attr("cx", function(d,i){ radian = 2 * i *
Math.PI/arrayLength - Math.PI/2;

        return Math.round(bigCircleR * Math.cos(radian) + bigCircleCX);
                                                                                    })
                                        .attr("cy", function(d,i){       radian = 2 * i *
Math.PI/arrayLength - Math.PI/2;

        console.log("CX: " + this.getAttribute("cx"));

        return Math.round(bigCircleR * Math.sin(radian) + bigCircleCY);
                                                                                    });


                        seasonTeams.append("image")
                                .attr("class", "images")
                                .attr("clip-path", function(d,i) { return
"url(#clipping"+i+")"; })
                                .attr("x", function(d,i){        radian = 2 * i *
Math.PI/arrayLength - Math.PI/2;
                                                                                    return
Math.round(bigCircleR * Math.cos(radian) + bigCircleCX)-75;
                                                                                        })
                                .attr("y", function(d,i){        radian = 2 * i *
Math.PI/arrayLength - Math.PI/2;

        console.log("CX: " + this.getAttribute("cx"));
```

```
                                                                    return
Math.round(bigCircleR * Math.sin(radian) + bigCircleCY)-75;
                                                                    })
                                .attr("width", 150)
                                .attr("height", 150)
                                .attr("xlink:href", function(d,i) { console.log("Image
Name");

        console.log(d);

        return "Logos/Small/" + d["teamImg"]; })
                                .style("opacity", .4);



                        seasonTeams.append("svg:circle")
                .style("stroke", "black")
                                .style("stroke-width", 3)
                .style("fill", "none")
                                .attr("class", "teamCircle")
                                .attr("data-teamnumber", function(d,i) { return i; })
                .attr("r",   teamCircleR)
                .attr("cx", function(d,i){ radian = 2 * i * Math.PI/arrayLength -
Math.PI/2;
                                                                    return
Math.round(bigCircleR * Math.cos(radian) + bigCircleCX); })
                                .attr("cy", function(d,i){       radian = 2 * i *
Math.PI/arrayLength - Math.PI/2;
                                                                    return
Math.round(bigCircleR * Math.sin(radian) + bigCircleCY); });



                        seasonTeams.append("svg:text")
                                .text(function(d,i){ return d["name"]; })
                                .attr("class", "teamnameText")
                                .attr("text-anchor", function(d,i){    if (i!=2 && i !=6)

        return "middle";
                                                                    else if
(i==2)

        return "start";
                                                                    else
```

```
        return "end;"
                                                                        })
                        .attr("x", function(d,i){   if (i!=2 && i !=6) {
                                                                                return
d3.selectAll(".teamCircle")[0][i].getAttribute("cx");
                                                                        }
                                                                        else if (i==2) {
                                                                                return
parseFloat(d3.selectAll(".teamCircle")[0][i].getAttribute("cx"))+70;
                                                                        }
                                                                        else {
                                                                                if
(contextYear==2012)
                                                                                        return
d3.selectAll(".teamCircle")[0][i].getAttribute("cx")-210;
                                                                                else if
(contextYear==2010)
                                                                                        return
d3.selectAll(".teamCircle")[0][i].getAttribute("cx")-195;
                                                                                else if
(contextYear==2008)
                                                                                        return
d3.selectAll(".teamCircle")[0][i].getAttribute("cx")-140;
                                                                                else
                                                                                        return
d3.selectAll(".teamCircle")[0][i].getAttribute("cx")-180;
                                                                        } })
                        .attr("y", function(d,i){   if (i==3 || i ==4 || i==5)
                                                                                return
parseFloat(d3.selectAll(".teamCircle")[0][i].getAttribute("cy"))+70;
                                                                        else if (i==0 || i==1 ||
i==7)
                                                                                return
d3.selectAll(".teamCircle")[0][i].getAttribute("cy")-85;
                                                                        else
                                                                                return
d3.selectAll(".teamCircle")[0][i].getAttribute("cy");
                                                                        })
                        .attr("dy", 7)
                                .style("font-weight", "bold");


                    // need to create array for stats so D3 can easily iterate
through using .enter
                    // hard coded 8 because 8 teams
```

```
                        for (var i = 0; i < 8; i++) {
                                useStats[i] = [
[data[yearIndex].teams[i].big3ppg,0,0,0,i],
[data[yearIndex].teams[i].big3assists,0,0,0,i],
[data[yearIndex].teams[i].big3rebounds,0,0,0,i],
[data[yearIndex].teams[i].big3fgPercent,0,0,0,i],
[data[yearIndex].teams[i].big3minutesPlayed,0,0,0,i] ] ;
                        }

                        // useStats[0] = [ [data[yearIndex].teams[0].big3ppg,0,0,0,0],
[data[yearIndex].teams[0].big3assists,0,0,0,0],
[data[yearIndex].teams[0].big3rebounds,0,0,0,0],
[data[yearIndex].teams[0].big3steals,0,0,0,0],
[data[yearIndex].teams[0].big3blocks,0,0,0,0] ];
                        // useStats[1] = [ [data[yearIndex].teams[1].big3ppg,0,0,0,1],
[data[yearIndex].teams[1].big3assists,0,0,0,1],
[data[yearIndex].teams[1].big3rebounds,0,0,0,1],
[data[yearIndex].teams[1].big3steals,0,0,0,1],
[data[yearIndex].teams[1].big3blocks,0,0,0,1] ];
                        // useStats[2] = [ [data[yearIndex].teams[2].big3ppg,0,0,0,2],
[data[yearIndex].teams[2].big3assists,0,0,0,2],
[data[yearIndex].teams[2].big3rebounds,0,0,0,2],
[data[yearIndex].teams[2].big3steals,0,0,0,2],
[data[yearIndex].teams[2].big3blocks,0,0,0,2] ];
                        // useStats[3] = [ [data[yearIndex].teams[3].big3ppg,0,0,0,3],
[data[yearIndex].teams[3].big3assists,0,0,0,3],
[data[yearIndex].teams[3].big3rebounds,0,0,0,3],
[data[yearIndex].teams[3].big3steals,0,0,0,3],
[data[yearIndex].teams[3].big3blocks,0,0,0,3] ];
                        // useStats[4] = [ [data[yearIndex].teams[4].big3ppg,0,0,0,4],
[data[yearIndex].teams[4].big3assists,0,0,0,4],
[data[yearIndex].teams[4].big3rebounds,0,0,0,4],
[data[yearIndex].teams[4].big3steals,0,0,0,4],
[data[yearIndex].teams[4].big3blocks,0,0,0,4] ];
                        // useStats[5] = [ [data[yearIndex].teams[5].big3ppg,0,0,0,5],
[data[yearIndex].teams[5].big3assists,0,0,0,5],
[data[yearIndex].teams[5].big3rebounds,0,0,0,5],
[data[yearIndex].teams[5].big3steals,0,0,0,5],
[data[yearIndex].teams[5].big3blocks,0,0,0,5] ];
                        // useStats[6] = [ [data[yearIndex].teams[6].big3ppg,0,0,0,6],
[data[yearIndex].teams[6].big3assists,0,0,0,6],
[data[yearIndex].teams[6].big3rebounds,0,0,0,6],
[data[yearIndex].teams[6].big3steals,0,0,0,6],
[data[yearIndex].teams[6].big3blocks,0,0,0,6] ];
                        // useStats[7] = [ [data[yearIndex].teams[7].big3ppg,0,0,0,7],
[data[yearIndex].teams[7].big3assists,0,0,0,7],
```

```
[data[yearIndex].teams[7].big3rebounds,0,0,0,7],
[data[yearIndex].teams[7].big3steals,0,0,0,7],
[data[yearIndex].teams[7].big3blocks,0,0,0,7] ];

                        console.log(useStats);


                        for (var i = 0; i < useStats.length; i++) {
                                playerNames[i] = [ [data[yearIndex].teams[i].players[0],
i], [data[yearIndex].teams[i].players[1], i], [data[yearIndex].teams[i].players[2], i] ] ;
                        }

                        console.log("Players Chosen");
                        console.log(playerNames);


                        // NOTE: recalculating radian in this section may not be
necessary
                        var tempCX = 0;
                        var tempCY = 0;
                        var tempR = 0;
                        seasonTeams.append("svg:circle")
                                .style("stroke", "black")
                                .style("stroke-width", 2)
                                .style("fill", function(){      return "none"; })
                                .attr("data-black", 0)
                                .attr("class", "avgstatsCircle")
                                .attr("r",      function(d,i){ tempR = 30;

        useStats[i][0][1] = tempR;
                                                                                return
tempR; })
                                .attr("cx", function(d,i){      radian = 2 * i *
Math.PI/arrayLength - Math.PI/2;

        tempCX = Math.round(bigCircleR * Math.cos(radian) + bigCircleCX);

        useStats[i][0][2] = tempCX;
                                                                                return
tempCX; })
                                .attr("cy", function(d,i){      radian = 2 * i *
Math.PI/arrayLength - Math.PI/2;

        tempCY = Math.round(bigCircleR * Math.sin(radian) + bigCircleCY);

        useStats[i][0][3] = tempCY;
```

```
                                                                    return
tempCY; });

                        console.log(useStats);




                        arrayLength = useStats[0].length;
                        console.log("Array Length: " + arrayLength);
                        var tempI = 0;
                        seasonTeams.selectAll(".avgstat")
                                .data(function(d,i) {  return useStats[i]; })
                                .enter()
                                .append("svg:circle")
                                .style("stroke", "black")
                                .style("fill", "black")
                                .attr("class", "avgstat")
                                .attr("r",          function(d,i) {var val = 0;

        switch(i)
                                                                    {
                                                                    // ppg
                                                                    case 0:

        val = d[0] * .6;

        break;
                                                                    //
assists
                                                                    case 1:

        val = d[0] * 2;

        break;
                                                                    //
rebounds
                                                                    case 2:

        val = d[0] * 1.3;

        break;
```

```
                                                                        // fg
percent
                                                                        case 3:

        val = d[0] / 4;

        break;
                                                                        //
minutes played
                                                                        case 4:

        val = d[0] / 4;

        break;
                                                                        }
                                                                        return
val; })
                                .attr("cx", function(d,i){      radian = 2 * i *
Math.PI/arrayLength - Math.PI/2;
                                                                        return
Math.round(useStats[d[4]][0][1] * Math.cos(radian) + useStats[d[4]][0][2]); })
                                .attr("cy", function(d,i){      radian = 2 * i *
Math.PI/arrayLength - Math.PI/2;
                                                                        return
Math.round(useStats[d[4]][0][1] * Math.sin(radian) + useStats[d[4]][0][3]); });


                        arrayLength = playerNames[0].length;
                        seasonTeams.selectAll(".playerCircle")
                                .data(function(d,i) {  return playerNames[i]; })
                                .enter()
                                .append("svg:circle")
                                .style("stroke", "none")
                                .style("stroke-width", 2)
                                .style("fill", function(d,i){     if (d[0]["position"] == "F")

        return "#0099cc";

        else if (d[0]["position"] == "G")

        return "#ff3333";

        else if (d[0]["position"] == "C")

        return "#33cc33";
```

```
        else

        return "White"; })
                                .attr("class", "playerCircle")
                                .attr("r",          15)
                                .attr("cx", function(d,i){       radian = 2 * i *
Math.PI/arrayLength - Math.PI/2;
                                                                                return
Math.round(60 * Math.cos(radian) + useStats[d[1]][0][2]); })
                                .attr("cy", function(d,i){       radian = 2 * i *
Math.PI/arrayLength - Math.PI/2;
                                                                                return
Math.round(60 * Math.sin(radian) + useStats[d[1]][0][3]); });


                        // making the next level (div) visible, and context
                        $('#context').html("<h1>"+contextYear+"</h1>");
                        $('#seasonLevel').fadeIn(500);
                        $('#context').fadeIn(500);
                }

                function disappearSeason() {
                        // getting the team index so that we can access correct data in
JSON
                        teamIndex = d3.select(this).select(".teamCircle").attr("data-
teamnumber");
                        contextTeamName = d3.select(this).attr("data-team");
                        contextImage = d3.select(this).attr("data-image");
                        console.log("Team Index: " + teamIndex);


                        teamX =
d3.select(this).select(".teamCircle")[0][0].getAttribute("cx");
                        teamY =
d3.select(this).select(".teamCircle")[0][0].getAttribute("cy");
                        teamR =
d3.select(this).select(".teamCircle")[0][0].getAttribute("r");


                        d3.select(this).select(".abnormalTeamFakeCircle")
                                .attr("class", "teamfakeCircle")
                                .transition()
                        .delay(0)
                            .duration(500)
                            .attr("cx", svgWidth/2)
```

```
                    .attr("cy", svgHeight/2)
                    .each("end", disappearSeason2);

            d3.select(this).select(".clips").select("circle")
                .attr("class", "abnormalClips")
                .transition()
            .delay(0)
                .duration(500)
                .attr("cx", svgWidth/2)
                    .attr("cy", svgHeight/2)
                    .each("end", disappearSeason2);

            d3.select(this).select(".images")
                .attr("class", "abnormalImages")
                .transition()
            .delay(0)
                .duration(500)
                .attr("x", svgWidth/2-75)
                    .attr("y", svgHeight/2-75)
                    .each("end", disappearSeason2);


            // changing class of selected yr circle to distinguish it and
moving it to center
            d3.select(this).select(".teamCircle")
                .attr("class", "abnormalTeamCircle")
            .transition()
            .delay(0)
                .duration(500)
                .attr("cx", svgWidth/2)
                    .attr("cy", svgHeight/2)
                    .each("end", disappearSeason2);


            function disappearSeason2() {
                $('.abnormalYearCircle').fadeOut(700);
                $('.teamCircle').fadeOut(700);
                $('.avgstatsCircle').fadeOut(700);
                $('.avgstat').fadeOut(700);
                $('.playerCircle').fadeOut(700);
                $('#context').fadeOut(500);
                $('.teamnameText').fadeOut(700);
                $('.teamfakeCircle').fadeOut(700);
                $('.clips').fadeOut(700);
                $('.images').fadeOut(700);
```

```
                        // enlarge season circle and start adding season details
by calling startSeason function
                        d3.select(this)
                    .transition()
                     .duration(700)
                     .style("stroke-width", 20)
                     .attr("r", 250)
                                .each("end", startTeam);

                }
        }

        function startTeam() {
                console.log("Start Team");

                // need to change the value of arrayLength
                arrayLength = playerNames[0].length;

                var teamPlayers = teamSVG.selectAll("g.playas")
                        .data(playerNames[teamIndex])
                        .enter()
                        .append("g")
                        .attr("class", "playas")
                        .on("mouseover", function(d,i){
d3.select("#context").style("top", "330px");

        $('#context').html("<h3>"+d[0]["name"]+"</br>Points: "+

                                d[0]["ppg"]+"</br>Assists: "+

                                d[0]["assists"]+"</br>Rebounds: "+

                                d[0]["rebounds"]+"</br>FG Percent: "+

                                (Math.floor(d[0]["fgPercent"] * 10000) /
100)+"%</br>Min Played: "+

                                d[0]["minutesPlayed"]+"</h3"); })
                        .on("mouseout", function(d,i){
        d3.select("#context").style("top", "360px");

        $('#context').html("<h1>"+contextYear+"</br>"+contextTeamName+"</h1>
"); })
                        .on("click", clickclick);
```

```
                        function clickclick() {
                            // do something, "this" will be the DOM element
                            console.log("doubleclick");

console.log(d3.select(this).select(".playa")[0][0].getAttribute("data-whichplayer"));
                            var tmp =
d3.select(this).select(".playa")[0][0].getAttribute("data-whichplayer");
                            var tmpPlayer = playerNames[teamIndex][tmp];
                            console.log(tmpPlayer);
                            if (playerPicked1 == 0) {
                                playerPicked1 = 1;
                                d3.select("#playerInfo1").html(
                                    "<b>Name:</b> " + tmpPlayer[0]["name"] +
"</br>" +
                                    "<b>Points:</b> " + tmpPlayer[0]["ppg"] +
"</br>" +
                                    "<b>Assists:</b> " + tmpPlayer[0]["assists"] +
"</br>" +
                                    "<b>Rebounds:</b> " +
tmpPlayer[0]["rebounds"] + "</br>" +
                                    "<b>FG Percent:</b> " +
(Math.floor(tmpPlayer[0]["fgPercent"]*10000)/100) + "%</br>" +
                                    "<b>Min Played:</b> " +
tmpPlayer[0]["minutesPlayed"]);
                            }
                            else {
                                playerPicked1 = 0;
                                d3.select("#playerInfo2").html(
                                    "<b>Name:</b> " + tmpPlayer[0]["name"] +
"</br>" +
                                    "<b>Points:</b> " + tmpPlayer[0]["ppg"] +
"</br>" +
                                    "<b>Assists:</b> " + tmpPlayer[0]["assists"] +
"</br>" +
                                    "<b>Rebounds:</b> " +
tmpPlayer[0]["rebounds"] + "</br>" +
                                    "<b>FG Percent:</b> " +
(Math.floor(tmpPlayer[0]["fgPercent"]*10000)/100) + "%</br>" +
                                    "<b>Min Played:</b> " +
tmpPlayer[0]["minutesPlayed"]);

                            }
                        }
```

```
                        // putting all the data for three players for last level
                        for (var i = 0; i < playerNames[teamIndex].length; i++) {
                                bottomstats[i] = [
[playerNames[teamIndex][i][0]["ppg"],0,0,i],
[playerNames[teamIndex][i][0]["assists"],0,0,i],
[playerNames[teamIndex][i][0]["rebounds"],0,0,i],
[playerNames[teamIndex][i][0]["fgPercent"],0,0,i],
[playerNames[teamIndex][i][0]["minutesPlayed"],0,0,i] ];
                        }

                        console.log("Bottom Stats");
                        console.log(bottomstats);




                        teamPlayers.append("svg:circle")
                    .style("stroke", "none")
                                .style("stroke-width", 3)
                    .style("fill", function(d,i){          if (d[0]["position"] == "F")

        return "#0099cc";

        else if (d[0]["position"] == "G")

        return "#ff3333";

        else if (d[0]["position"] == "C")

        return "#33cc33";

        else

        return "White"; })
                                .attr("class", "playa")
                                .attr("data-whichplayer", function(d,i){ return i; })
                    .attr("r",   80)
                    .attr("cx", function(d,i){ radian = 2 * i * Math.PI/arrayLength -
Math.PI/2;

        tempCX = Math.round(bigCircleR * Math.cos(radian) + bigCircleCX);

        bottomstats[i][0][1] = tempCX;
```

```
                                                                    return
tempCX; })
                                .attr("cy", function(d,i){        radian = 2 * i *
Math.PI/arrayLength - Math.PI/2;

        tempCY = Math.round(bigCircleR * Math.sin(radian) + bigCircleCY);;

        bottomstats[i][0][2] = tempCY;
                                                                    return
tempCY; });




                        // 5 because we are drawing the 5 stats here
                        arrayLength = 5;
                        teamPlayers.selectAll(".bottomstats")
                                .data(function(d,i) {  console.log(bottomstats[i]);
                                                                        return
bottomstats[i]; })
                                .enter()
                                .append("svg:circle")
                                .style("stroke", "white")
                                .style("stroke-width", 3)
                                .style("fill", "gray")
                                .attr("class", "playastat")
                                .attr("r",         function(d,i) {var val = 0;


        switch(i)
                                                                    {
                                                                    // ppg
                                                                    case 0:

        val = d[0] *1.5;

        break;
                                                                    //
assists
                                                                    case 1:
```

```
        val = d[0] * 2*2;
        break;
                                                                    //
rebounds
                                                                    case 2:
        val = d[0] * 1.3*2;
        break;
                                                                    // fg
percent
                                                                    case 3:
        val = d[0]*100;
        break;
                                                                    //
minutes played
                                                                    case 4:
        val = d[0];
        break;
                                                                    }
                                                                    return
val; })
                                .attr("cx", function(d,i){      radian = 2 * i *
Math.PI/arrayLength - Math.PI/2;
                                                                    return
Math.round(80 * Math.cos(radian) + bottomstats[d[3]][0][1]); })
                                .attr("cy", function(d,i){      radian = 2 * i *
Math.PI/arrayLength - Math.PI/2;
                                                                    return
Math.round(80 * Math.sin(radian) + bottomstats[d[3]][0][2]); });


                        teamPlayers.append("svg:text")
                                .text(function(d,i){ return d[0]["name"]; })
                                .attr("class", "teamplayerText")
                                .attr("text-anchor", function(d,i){    if (i==0)
        return "middle";
                                                                    else if
(i==1)
```

```
        return "start";
                                                                    else

        return "end";
                                                                })
                .attr("x", function(d,i){   if (i==0)
                                                                    return
d3.selectAll(".playa")[0][i].getAttribute("cx");
                                                                else if (i==1)
                                                                    return
d3.selectAll(".playa")[0][i].getAttribute("cx");
                                                                else
                                                                    return
d3.selectAll(".playa")[0][i].getAttribute("cx");
                                                                 })
                .attr("y", function(d,i){   if (i==0)
                                                                    return
d3.selectAll(".playa")[0][i].getAttribute("cy")-100;
                                                                else if (i==1)
                                                                    return
d3.selectAll(".playa")[0][i].getAttribute("cy")-(-90);
                                                                else
                                                                    return
d3.selectAll(".playa")[0][i].getAttribute("cy")-(-90);
                                                                })
                .attr("dy", 7)
                        .style("font-weight", "bold");




                    // making the next level (div) visible
                    $('#context').html("<h2>"+contextYear+"</br>"+
contextTeamName+"</h2>");
                    $('#context').fadeIn(500);
                    $('#teamLevel').fadeIn(500);
                    $("#backbtn1").attr("style", "position:absolute; left:100px;
top:100px; display:none; z-index:99;");
                    $("#backbtn2").attr("style", "position:absolute; left:100px;
top:100px; display:visible; z-index:99;");
                }


                function backToHistory(){
```

```
                $('.teams').fadeOut(1000);
                $('#context').fadeOut(1000);


                d3.select(".abnormalYearCircle")
            .transition()
             .duration(700)
             .delay(700)
             .attr("r", yearR)
                        .each("end", backToHistory2);


                function backToHistory2() {
                        $("#backbtn1").attr("style", "position:absolute;
left:100px; top:100px; display:none; z-index:99;");

                        d3.select(".abnormalYearCircle")
                         .attr("class", "yearCircle")
                    .transition()
                     .delay(0)
                     .duration(700)
                     .attr("cx", yearX)
                                .attr("cy", yearY)
                                .attr("stroke-width", 3)
                     .each("end", backToHistory3);
                }

                function backToHistory3() {
                        $('.yearText').fadeIn(700);
                        $('.historyCircle').fadeIn(700);
                        $('.yearCircle').fadeIn(700);

                        // making season level invisible so we can click on stuff
in first level again
                        $('#seasonLevel').attr('style', 'position:absolute;
left:50px; width:'+svgWidth+'px; height:'+svgHeight+'px; z-index: 1; display:none;');

                        seasonSVG.selectAll(".teams").remove();
                }
        }

        function backToSeason(){
                $('.playas').fadeOut(1000);
                $('#context').fadeOut(1000);
```

```
                d3.select(".abnormalTeamCircle")
            .transition()
             .duration(700)
             .delay(700)
             .attr("r", yearR)
                        .each("end", backToSeason2);


                function backToSeason2() {
                        $("#backbtn1").attr("style", "position:absolute;
left:100px; top:100px; display:visible; z-index:99;");
                        $("#backbtn2").attr("style", "position:absolute;
left:100px; top:100px; display:none; z-index:99;");

                            d3.select(".abnormalTeamCircle")
                              .attr("class", "teamCircle")
                       .transition()
                        .delay(0)
                        .duration(700)
                        .attr("cx", teamX)
                                .attr("cy", teamY)
                                .style("stroke-width", 3)
                        .each("end", backToSeason3);

                    d3.select(".abnormalTeamFakeCircle")
                                .attr("class", "teamfakeCircle")
                                .transition()
                        .delay(0)
                            .duration(700)
                            .attr("cx", teamX)
                                        .attr("cy", teamY)
                                        .each("end", backToSeason3);

                        d3.select(".abnormalImages")
                                .attr("class", "images")
                                .transition()
                        .delay(0)
                            .duration(700)
                            .attr("x", teamX-75)
                                        .attr("y", teamY-75)
                                        .each("end", backToSeason3);

                        d3.select(".abnormalClips")
                                .attr("class", "clips")
                                .transition()
                        .delay(0)
```

```
                                .duration(700)
                                .attr("r", yearR)
                                .attr("cx", teamX)
                                        .attr("cy", teamY)
                                        .each("end", backToSeason3);


                        }

                        function backToSeason3() {
                                $('#context').html("<h1>"+contextYear+"</h1>");
                                $('.abnormalYearCircle').fadeIn(700);
                                $('.teamCircle').fadeIn(700);
                                $('.avgstat').fadeIn(700);
                                $('.avgstatsCircle').fadeIn(700);
                                $('.playerCircle').fadeIn(700);
                                $('#context').fadeIn(500);
                                $('.teamnameText').fadeIn(500);
                                $('.teamfakeCircle').fadeIn(700);
                                $('.clips').fadeIn(700);
                                $('.images').fadeIn(700);


                                // making season level invisible so we can click on stuff
in first level again
                                $('#teamLevel').attr('style', 'position:absolute;
left:50px; width:'+svgWidth+'px; height:'+svgHeight+'px; z-index: 1; display:none;');

                                teamSVG.selectAll(".playas").remove();
                        }
                }

                function clearPlayerText() {
                        $('#playerInfo1').html("Empty");
                        $('#playerInfo2').html("Empty");

                        playerPicked1 = 0;
                        playerPicked2 = 0;
                }
        </script>

</body>
</html>
```