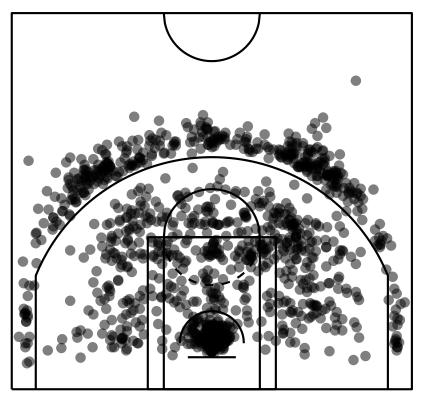
NBA Shot Data

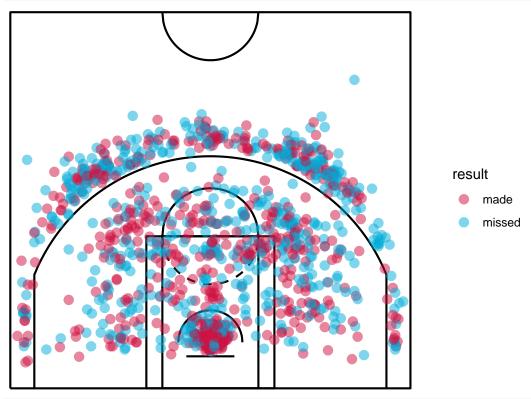
Sameer Baloch

2023-10-18

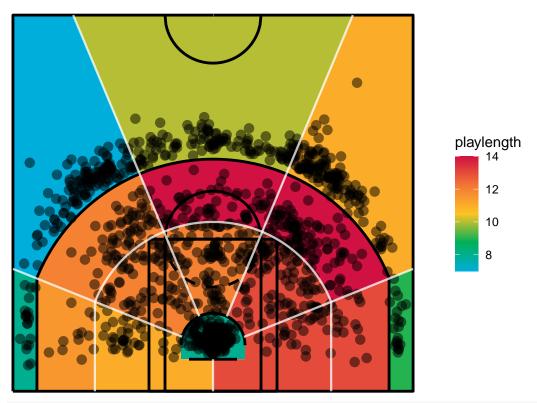
```
# Set the working directory to "/cloud/project"
setwd("/cloud/project")
# Set the random number generation method to "Rounding"
RNGkind(sample.kind="Rounding")
# Clear the workspace by removing all objects
rm(list=ls())
# Install the "BasketballAnalyzeR" package
install.packages("BasketballAnalyzeR")
# Load the "BasketballAnalyzeR" package
library(BasketballAnalyzeR)
# List available datasets in the "BasketballAnalyzeR" package
data(package="BasketballAnalyzeR")
# Create a new object "PbP" by manipulating the "PbP.BDB" dataset
PbP <- PbPmanipulation(PbP.BDB)</pre>
# Clear the workspace again
rm(list=ls())
# Create another object "PbP" by manipulating the "PbP.BDB" dataset again (redundant)
PbP <- PbPmanipulation(PbP.BDB)</pre>
# Subset "PbP" data to create "subdata" containing records for "Kevin Durant"
subdata <- subset(PbP, player=="Kevin Durant")</pre>
# Create new variables "xx" and "yy" by transforming the original_x and original_y data
subdata$xx <- subdata$original x/10</pre>
subdata$yy <- subdata$original_y/10-41.75</pre>
# Create a shot chart with scatter points
shotchart(data=subdata, x="xx", y="yy", type=NULL, scatter=TRUE)
```



Create a shot chart with scatter points and different colors based on the "result" variable
shotchart(data=subdata, x="xx", y="yy", z="result", type=NULL, scatter=TRUE)



Create a shot chart with sectors and scatter points using the "playlength" variable
shotchart(data=subdata, x="xx", y="yy", z="playlength", num.sect=5, type="sectors", scatter=TRUE)



Create a shot chart with sectors but without scatter points and specify the "result" variable shotchart(data=subdata, x="xx", y="yy", z="playlength", num.sect=5, type="sectors", scatter=FALSE, resu

