Creating Dotplots with `stripchart()`

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Creating Dotplots

The R function `stripchart()` can be used to create Dotplots. The function `stripchart()` has many arguments, and the user should refer to the online help files by typing `?stripchart` at the R prompt for specific questions.

Several parameters will be changed over the course of the next few slides. To see the parameter setting on your machine, type `par()` at the R prompt. In particular, `mfrow`, `las`, and `mar` will be altered. For help on `par`, type `?par`.

In the following slides, code and the corresponding graphs created from the code are presented. Pay particular attention to the differences in code and the subsequent differences in the graphs.
> attach(Undergrad)
> class <- factor(Class, levels=c("Freshman", + "Sophomore","Junior","Senior"))
> par(mfrow=c(1,2))
> stripchart(GPA~Class)
> par(las=1)
> stripchart(GPA~Class)
> par(mfrow=c(1,1),las=0)
Chunk 1 Graph
> par(mfrow=c(1, 2), las=1)
> stripchart(GPA~Class, method="stack")
> stripchart(GPA~class, method="stack", pch=19)
> par(mfrow=c(1, 1), las=0)
Chunk 2 Graph

- Freshman
- Sophomore
- Junior
- Senior
Chunk 3 Code

```r
> par(mfrow=c(1, 2), las=1)
> stripchart(GPA ~ class, method="stack", pch=19,
+ col=c("red", "blue", "green", "pink"))
> stripchart(GPA ~ class, method="stack",
+ pch=c(1, 2, 3, 4), col=c("red", "blue", "green",
+ "pink"))
> par(mfrow=c(1,1), las=0)
```
Chunk 3 Graph

[Graph showing the distribution of grades for different years: Freshman (red), Sophomore (green), Junior (blue), Senior (pink) with varying data points across the years.]
> par(mfrow=c(1,2),las=1,mar=c(5.1,6.1,4.1,2.1))
> stripchart(GPA~class,method="stack",pch=19,
+ col=c("red","blue","green","pink"),main="")
> title("Starting To Look Good")
> stripchart(GPA~class, method="stack",
+ pch=c(1,2,3,4), col=c("red","blue","green",
+ "pink"), main="")
> title("Different Ploting Characters")
> par(mfrow=c(1,1),las=0,mar=c(5.1,4.1,4.1,2.1))
Chunk 4 Graph

Starting To Look Good

Different Ploting Characters

Freshman

Sophomore

Junior

Senior

1.5 2.0 2.5 3.0 3.5 4.0
> par(las=1, mar=c(5.1, 6.1, 4.1, 2.1))
> stripchart(GPA~class, method="stack", pch=19, 
+       col=c("red", "blue", "green", "purple"), main="", 
+       xlab="Grade Point Average")
> title("Award Winning?")
> par(las=0, mar=c(5.1, 4.1, 4.1, 2.1))
Chunk 5 Graph

Award Winning?

Grade Point Average

Freshman
Sophomore
Junior
Senior

Alan's Notes
Creating Dotplots
Chunk 1 Code
Chunk 1 Graph
Chunk 2 Code
Chunk 2 Graph
Chunk 3 Code
Chunk 3 Graph
Chunk 4 Code
Chunk 4 Graph
Chunk 5 Code
Chunk 5 Graph
Last Slide
1. **Script for Dotplots**
2. **Do problems 1.11, 1.12, and 1.15 for homework.**
3. **See me if You Need Help!**

Click here to pause the presentation.