Datasaurus

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Datasaurus visualisation

```
see
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http://www.the functional art.com/2016/08/download-datas aurus-never-trust-summary.html

http://robertgrantstats.co.uk/drawmydata.html

https://www.autodesk.com/research/publications/same-stats-different-graphs

https://www.rdocumentation.org/packages/datasauRus/versions/0.1.6

```
library(datasauRus)
library(dplyr)
library(kableExtra)

datasaurus_dozen %>%
    group_by(dataset) %>%
    summarize(
    mean_x = mean(x),
    mean_y = mean(y),
    std_dev_x = sd(x),
    std_dev_y = sd(y),
    corr_x_y = cor(x, y)
    )%>%kbl()%>%
    kable_classic(full_width = F, html_font = "Cambria")
```

```
library(ggplot2)

ggplot(datasaurus_dozen, aes(x = x, y = y))+
  geom_point(size =0.8, colour="black", alpha = 0.8)+
  theme_void()+
  facet_wrap(~dataset, ncol = 3)
```

dataset	mean_x	mean_y	std_dev_x	std_dev_y	corr_x_y
away	54.26610	47.83472	16.76983	26.93974	-0.0641284
bullseye	54.26873	47.83082	16.76924	26.93573	-0.0685864
circle	54.26732	47.83772	16.76001	26.93004	-0.0683434
dino	54.26327	47.83225	16.76514	26.93540	-0.0644719
dots	54.26030	47.83983	16.76774	26.93019	-0.0603414
h_lines	54.26144	47.83025	16.76590	26.93988	-0.0617148
high_lines	54.26881	47.83545	16.76670	26.94000	-0.0685042
slant_down	54.26785	47.83590	16.76676	26.93610	-0.0689797
slant_up	54.26588	47.83150	16.76885	26.93861	-0.0686092
star	54.26734	47.83955	16.76896	26.93027	-0.0629611
v_lines	54.26993	47.83699	16.76996	26.93768	-0.0694456
wide_lines	54.26692	47.83160	16.77000	26.93790	-0.0665752
x_shape	54.26015	47.83972	16.76996	26.93000	-0.0655833

