yaml

1 boxplot jitter

```
library(tidyverse)
```

1.1 Data

```
library(data.table)
PM <- scan(text="45.5 45.3 45.4 44.4 44.6 43.9 44.6 44.0")
DC <- scan(text="44.2 43.9 44.7 44.2 44.0 43.8 44.6 43.1")
PL <- scan(text="46.0 45.9 44.8 46.2 45.1 45.5") # note shorter

names(PM) <- c(rep("PM",length(PM)))
names(DC) <- c(rep("DC",length(DC)))
names(PL) <- c(rep("PL",length(PL)))
vec <- c(PM,DC,PL)
vec
```

```
   PM   PM   PM   PM   PM   PM   PM   PM   DC   DC   DC   DC   DC   DC   DC   DC
 45.5 45.3 45.4 44.4 44.6 43.9 44.6 44.0 44.2 43.9 44.7 44.2 44.0 43.8 44.6 43.1
   PL   PL   PL   PL   PL   PL
 46.0 45.9 44.8 46.2 45.1 45.5
```

```
df <- stack(vec)[2:1]
df
```

```
    ind values
1    PM   45.5
```

```
2    PM    45.3
3    PM    45.4
4    PM    44.4
5    PM    44.6
6    PM    43.9
7    PM    44.6
8    PM    44.0
9    DC    44.2
10   DC    43.9
11   DC    44.7
12   DC    44.2
13   DC    44.0
14   DC    43.8
15   DC    44.6
16   DC    43.1
17   PL    46.0
18   PL    45.9
19   PL    44.8
20   PL    46.2
21   PL    45.1
22   PL    45.5
```

1.2 Plot

```
ggplot(df, aes(x=ind,y=values,color=ind))+
  geom_boxplot()+
  geom_jitter()+
  theme_bw()
```