Dirk Seidensticker/Clemens Schmid

7. Juli 2017

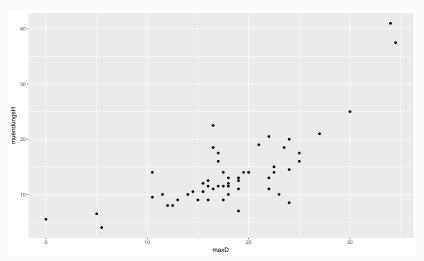
ggplot2 und die Daten laden:

```
library(ggplot2)
```

```
df <- read.csv("../data/AtlantPottery.csv", sep = ',')</pre>
```

Einfacher Plot

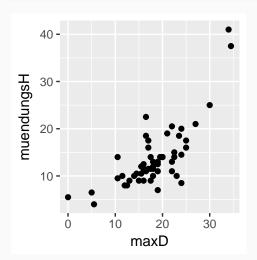
```
ggplot(df, aes(x = maxD, y = muendungsH)) +
  geom_point()
```



3

Gleichmäßige X- und Y-Achse

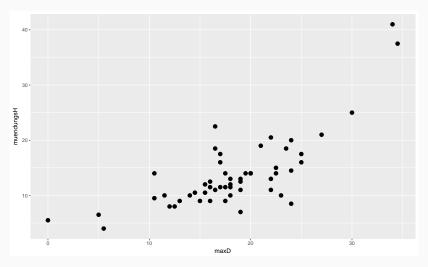
```
ggplot(df, aes(x = maxD, y = muendungsH)) +
  geom_point() +
  coord_equal()
```



4

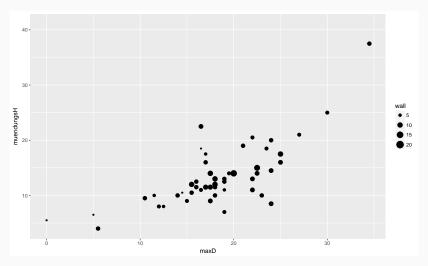
Symbolgröße manuell einstellen

```
ggplot(df, aes(x = maxD, y = muendungsH)) +
  geom_point(size = 3)
```



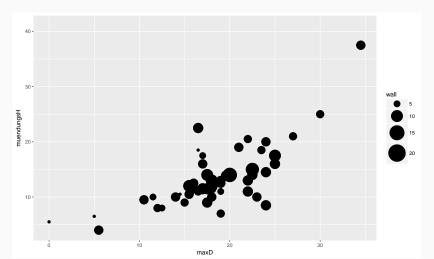
Symbolgröße abhängig von Variable

```
ggplot(df, aes(x = maxD, y = muendungsH, size = wall)) +
  geom_point()
```



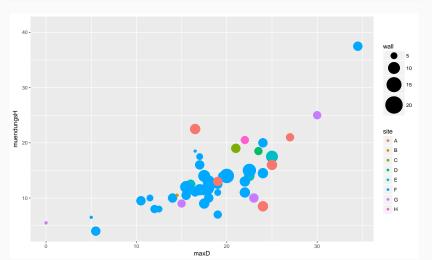
Grenzen für Symbolgröße

```
ggplot(df, aes(x = maxD, y = muendungsH, size = wall)) +
  geom_point() +
  scale_size_continuous(range = c(2,15))
```



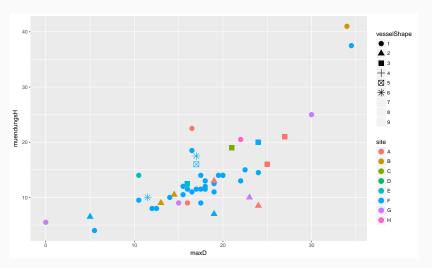
Füllfarbe

```
ggplot(df, aes(x = maxD, y = muendungsH, size = wall, color = site)) +
  geom_point() +
  scale_size_continuous(range = c(2,15))
```



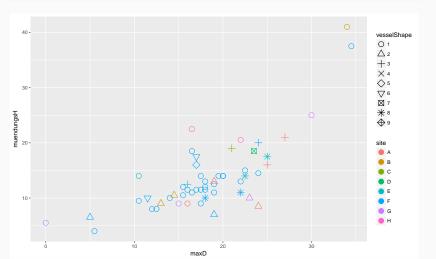
Symboltypen

```
ggplot(df, aes(x = maxD, y = muendungsH, color = site, shape = vesselShape)) +
  geom_point(size = 4)
```



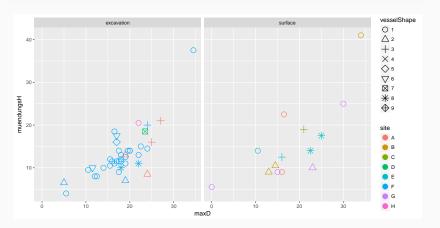
manuelle Angabe der Symbole

```
ggplot(df, aes(x = maxD, y = muendungsH, color = site, shape = vesselShape)) +
geom_point(size = 4) +
scale_shape_manual(values = 1:(1+length(unique(df$vesselShape))))
```



Facettierung der Daten

```
ggplot(df, aes(x = maxD, y = muendungsH, color = site, shape = vesselShape)) +
  geom_point(size = 4) +
  scale_shape_manual(values = 1:(1+length(unique(df$vesselShape)))) +
  facet_wrap(~ feature_simple)
```



Position der Legende & fertiger Plot

```
ggplot(df, aes(x = maxD, y = muendungsH, color = site, shape = vesselShape)) +
  geom_point(size = 4) +
  scale_shape_manual(values = 1:(1+length(unique(df$vesselShape)))) +
  facet_wrap(~ feature_simple) +
  theme(legend.direction ="horizontal",legend.position = "bottom")
```

