

Untitled

```
require(tidyverse)
require(readxl)
require(janitor) # clean_names
require(ggmosaic)
```

```
theme_set(theme_minimal())
```

```
excel_sheets("data/Zkušební soubor dat .xlsx")
```

```
[1] "Časová řada"           "Průřezová data"
[3] "Popisná statistika"    "Testování stat. hypotéz"
[5] "Kontingenční tab."     "ANOVA"
[7] "Korelace a regrese"
```

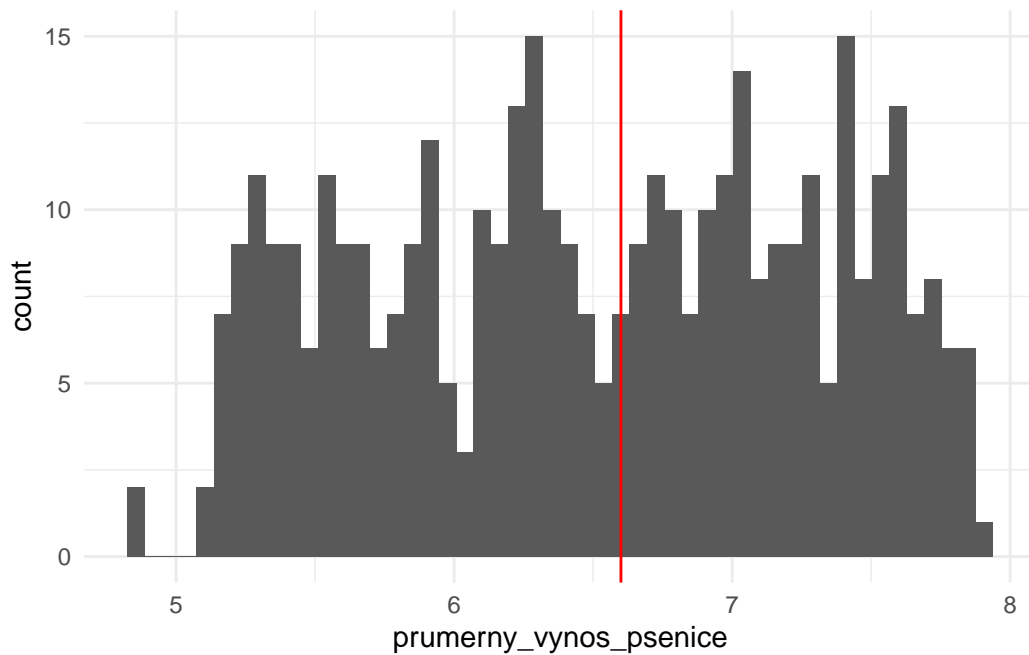
```
data <- read_xlsx("data/Zkušební soubor dat .xlsx", sheet = "Průřezová data", skip = 3) |>
  clean_names()
```

New names:

```
* `` -> `...7`
* `` -> `...11`
```

Testovani hypotez

```
ggplot(data, aes(prumerny_vynos_psenice)) +
  geom_histogram(bins = 50) +
  geom_vline(xintercept = 6.6, color = "red")
```



```
t.test(prumerny_vynos_psenice ~ 1, data, mu = 6.6)
```

One Sample t-test

```
data: prumerny_vynos_psenice
t = -2.2804, df = 399, p-value = 0.02311
alternative hypothesis: true mean is not equal to 6.6
95 percent confidence interval:
 6.432189 6.587573
sample estimates:
mean of x
 6.509881
```

```
t.test(1 / prumerny_vynos_psenice ~ 1, data, mu = 1 / 6.6)
```

One Sample t-test

```
data: 1/prumerny_vynos_psenice
t = 4.5573, df = 399, p-value = 6.898e-06
```

```
alternative hypothesis: true mean is not equal to 0.1515152
95 percent confidence interval:
 0.1540425 0.1578772
sample estimates:
mean of x
0.1559599
```

```
1 / 0.1559599
```

```
[1] 6.411905
```

```
t.test(prumerny_vynos_psenice ~ pohlavi, data, var.equal = FALSE)
```

Welch Two Sample t-test

```
data: prumerny_vynos_psenice by pohlavi
t = -0.26132, df = 349.05, p-value = 0.794
alternative hypothesis: true difference in means between group 0 and group 1 is not equal to
95 percent confidence interval:
 -0.1786767 0.1367649
sample estimates:
mean in group 0 mean in group 1
    6.501499      6.522455
```

```
data |>
  summarise(x = sum(vek <= 40), n = n()) |>
  with(binom.test(x, n, p = 0.12))
```

Exact binomial test

```
data: x and n
number of successes = 161, number of trials = 400, p-value < 2.2e-16
alternative hypothesis: true probability of success is not equal to 0.12
95 percent confidence interval:
 0.3540694 0.4523842
sample estimates:
probability of success
    0.4025
```

```

expected <- tribble(
  ~oblast_hospodareni, ~prop,
  "K", 0.067,
  "Ř", 0.445,
  "B", 0.285,
  "H", 0.203,
)

data |>
  group_by(oblast_hospodareni) |>
  summarise(count = n()) |>
  inner_join(expected, by = "oblast_hospodareni") |>
  mutate(relative = count / sum(count)) |>
  ggplot(aes(oblast_hospodareni)) +
  geom_col(aes(y = relative), fill = "lightBlue") +
  geom_point(aes(y = prop), color = "blue", size = 3, shape = 18) +
  geom_segment(aes(y = relative, xend = oblast_hospodareni, yend = prop), color = "blue")

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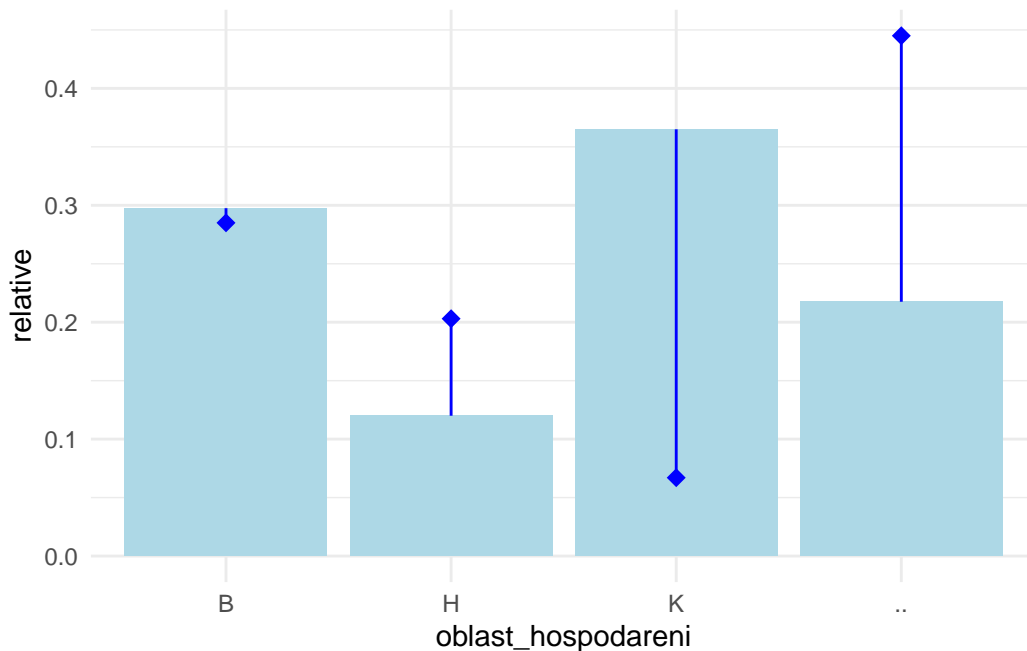
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```
data |>
  group_by(oblast_hospodareni) |>
  summarise(count = n()) |>
  inner_join(expected, by = "oblast_hospodareni") |>
  with(chisq.test(count, p = prop))
```

Chi-squared test for given probabilities

```
data: count
X-squared = 590.49, df = 3, p-value < 2.2e-16
```

Kontingencni tabulka

```
data |>
  count(vyrobni_zamereni, oblast_hospodareni) |>
  ggplot(aes(oblast_hospodareni, vyrobni_zamereni, size = n)) +
  geom_point()
```

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conversion failure on 'Ovocnářství a ostatní TK' in 'mbcsToSbcs': dot
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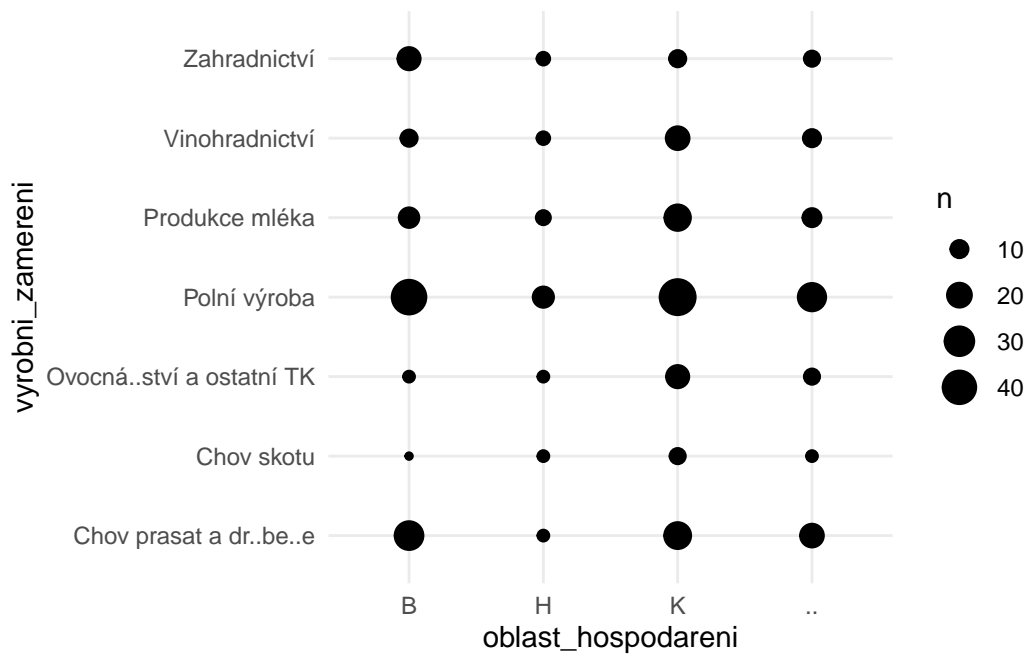
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conversion failure on 'Ř' in 'mbcsToSbcs': dot substituted for <98>



```
data |>
  ggplot(aes(oblast_hospodareni, fill = vyrobní_zamerení, color = vyrobní_zamerení)) +
  geom_bar(alpha = 0.3)
```

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
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conversion failure on 'R̃' in 'mbcsToSbcs': dot substituted for <c5>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
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conversion failure on 'R̃' in 'mbcsToSbcs': dot substituted for <c5>

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Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
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Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on 'R̃' in 'mbcsToSbcs': dot substituted for <c5>

Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on 'Ř' in 'mbcsToSbcs': dot substituted for <98>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on 'Chov prasat a drůbeže' in 'mbcsToSbcs': dot substituted
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for <c5>

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for <be>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on 'Ovocnářství a ostatní TK' in 'mbcsToSbcs': dot
substituted for <c5>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
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substituted for <99>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on 'Ovocnářství a ostatní TK' in 'mbcsToSbcs': dot
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conversion failure on 'Ovocnářství a ostatní TK' in 'mbcsToSbcs': dot
substituted for <c5>

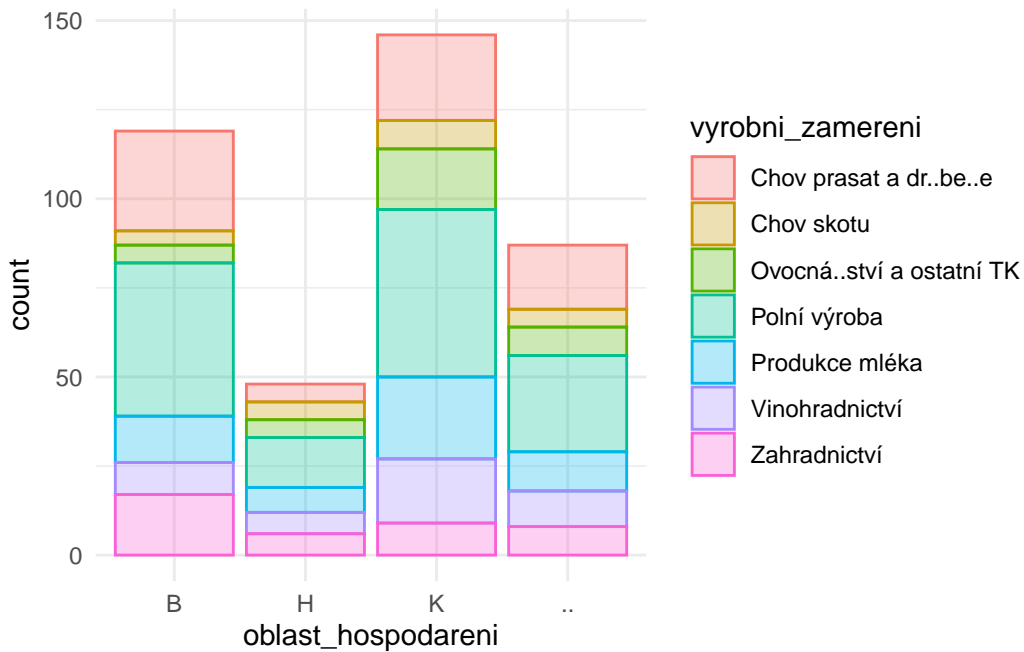
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on 'Ovocnářství a ostatní TK' in 'mbcsToSbcs': dot
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```
data |>
  count(vyrobní_zamerení, oblast_hospodareni) |>
  group_by(oblast_hospodareni) |>
  mutate(rel = n / sum(n)) |>
  ggplot(aes(oblast_hospodareni, rel, fill = výrobní_zamerení)) +
  geom_col()
```

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, : conversion failure on 'Chov prasat a drůbeže' in 'mbcsToSbcs': dot substituted for <c5>

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conversion failure on 'Ovocnářství a ostatní TK' in 'mbcsToSbcs': dot
substituted for <99>

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conversion failure on 'Ovocnářství a ostatní TK' in 'mbcsToSbcs': dot
substituted for <99>

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conversion failure on 'Ovocnářství a ostatní TK' in 'mbcsToSbcs': dot
substituted for <c5>

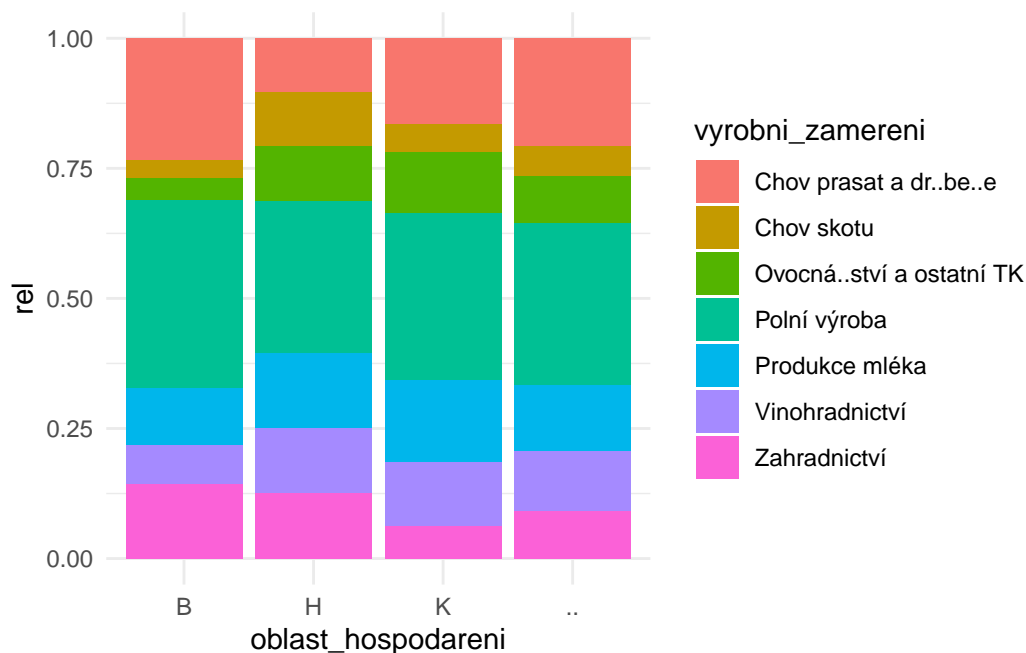
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on 'Ovocnářství a ostatní TK' in 'mbcsToSbcs': dot
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x\$y, : conversion failure on 'Ovocnářství a ostatní TK' in 'mbcsToSbcs': dot
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x\$y, : conversion failure on 'Ovocnářství a ostatní TK' in 'mbcsToSbcs': dot
substituted for <99>



```
oblasti <- tribble(
  ~oblast_hospodareni, ~oblast_hospodareni_desc,
  "B", "brambor",
  "H", "horska",
  "K", "kukurice",
  "Ř", "repa",
)

data |>
  count(vyrobni_zamereni, oblast_hospodareni) |>
  group_by(oblast_hospodareni) |>
  mutate(rel = n / sum(n)) |>
  inner_join(oblasti, by = "oblast_hospodareni") |>
  ggplot(aes(oblast_hospodareni_desc, rel, fill = vyrobni_zamereni)) +
  geom_col() +
  theme(axis.text.x = element_text(angle = 45, hjust = 1))
```

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
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for <c5>

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substituted for <c5>

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substituted for <99>

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substituted for <c5>

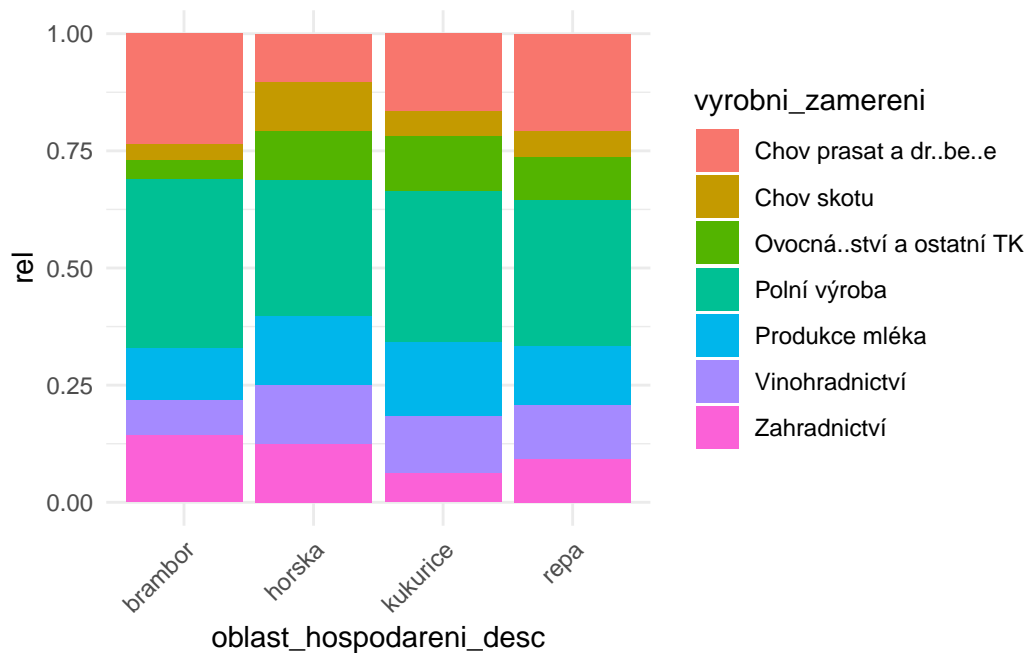
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on 'Ovocnářství a ostatní TK' in 'mbcsToSbcs': dot
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x\$y, : conversion failure on 'Ovocnářství a ostatní TK' in 'mbcsToSbcs': dot
substituted for <99>



```
data |>
  ggplot() +
  geom_mosaic(aes(product(vyrobní_zamerení, oblast_hospodareni),
    fill = vyrobní_zamerení),
    show.legend = F) +
  scale_y_productlist()
```

Warning: `unite()` was deprecated in tidyr 1.2.0.
Please use `unite()` instead.
This warning is displayed once every 8 hours.
Call `lifecycle::last_lifecycle_warnings()` to see where this warning was generated.

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on 'Chov prasat a drůbeže' in 'mbcsToSbcs': dot substituted
for <c5>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
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for <af>

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conversion failure on 'Chov prasat a drůbeže' in 'mbcsToSbcs': dot substituted for <be>

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conversion failure on 'Ovocnářství a ostatní TK' in 'mbcsToSbcs': dot substituted for <99>

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conversion failure on 'Chov prasat a drůbeže' in 'mbcsToSbcs': dot substituted for <c5>

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conversion failure on 'Chov prasat a drůbeže' in 'mbcsToSbcs': dot substituted for <af>

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conversion failure on 'Chov prasat a drůbeže' in 'mbcsToSbcs': dot substituted for <c5>

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conversion failure on 'Chov prasat a drůbeže' in 'mbcsToSbcs': dot substituted for <be>

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conversion failure on 'Chov prasat a drůbeže' in 'mbcsToSbcs': dot substituted
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substituted for <c5>

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conversion failure on 'Chov prasat a drůbeže' in 'mbcsToSbcs': dot substituted
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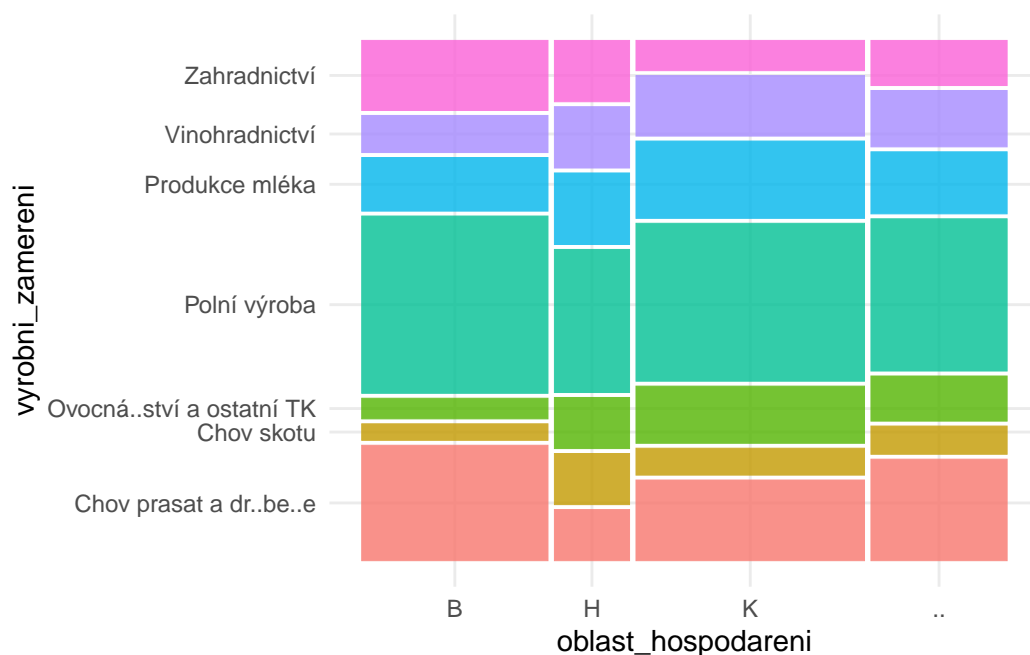
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```
data |>
  with(chisq.test(oblast_hospodareni, vyrobní_zamerení))
```

Warning in stats::chisq.test(x, y, ...): Chi-squared approximation may be incorrect

Pearson's Chi-squared test

data: oblast_hospodareni and vyrobni_zamereni
X-squared = 19.564, df = 18, p-value = 0.3579

```
data |>  
  with(fisher.test(oblast_hospodareni, vyrobni_zamereni, simulate.p.value = TRUE))
```

Fisher's Exact Test for Count Data with simulated p-value (based on 2000 replicates)

data: oblast_hospodareni and vyrobni_zamereni
p-value = 0.3048
alternative hypothesis: two.sided

ANOVA

```
ggplot(data, aes(oblast_hospodareni, hodnota_produkce)) +  
  geom_boxplot(aes(color = oblast_hospodareni, fill = oblast_hospodareni), alpha = 0.1) +  
  scale_y_continuous(labels = scales::label_number_si())
```

Warning: `label_number_si()` was deprecated in scales 1.2.0.
Please use the `scale_cut` argument of `label_number()` instead.
This warning is displayed once every 8 hours.
Call `lifecycle::last_lifecycle_warnings()` to see where this warning was generated.

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Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on 'R̃' in 'mbcsToSbcs': dot substituted for <c5>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on 'R̃' in 'mbcsToSbcs': dot substituted for <98>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on 'R̃' in 'mbcsToSbcs': dot substituted for <c5>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on 'R̃' in 'mbcsToSbcs': dot substituted for <98>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on 'R̃' in 'mbcsToSbcs': dot substituted for <c5>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on 'R̃' in 'mbcsToSbcs': dot substituted for <98>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on 'Ř' in 'mbcsToSbcs': dot substituted for <c5>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on 'Ř' in 'mbcsToSbcs': dot substituted for <98>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on 'Ř' in 'mbcsToSbcs': dot substituted for <c5>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on 'Ř' in 'mbcsToSbcs': dot substituted for <98>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on 'Ř' in 'mbcsToSbcs': dot substituted for <c5>

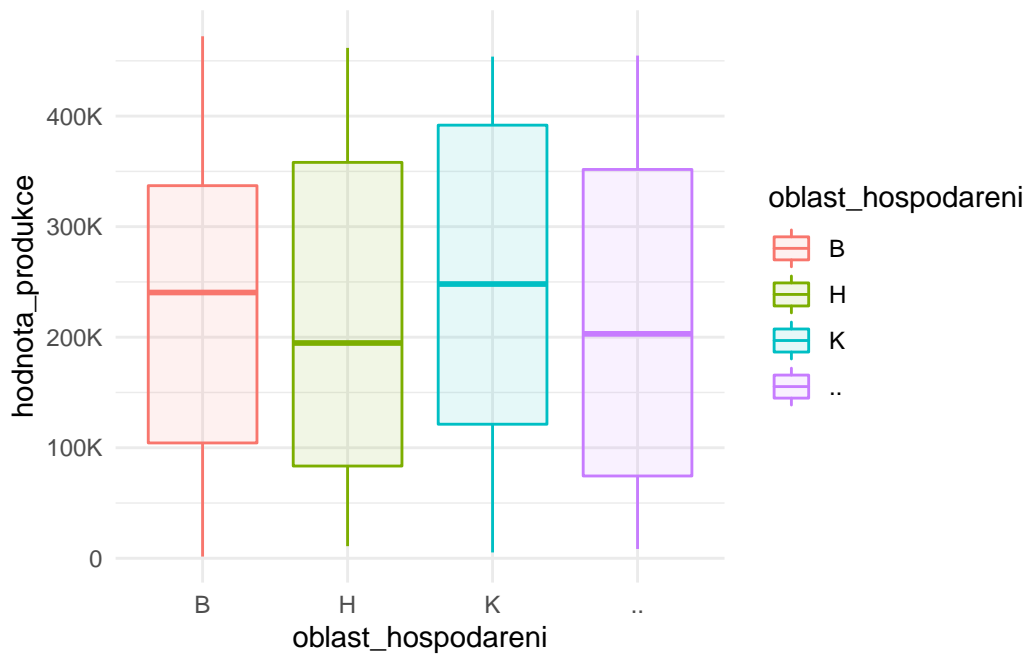
Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on 'Ř' in 'mbcsToSbcs': dot substituted for <98>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on 'Ř' in 'mbcsToSbcs': dot substituted for <c5>

Warning in grid.Call(C_textBounds, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on 'Ř' in 'mbcsToSbcs': dot substituted for <98>

Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on 'Ř' in 'mbcsToSbcs': dot substituted for <c5>

Warning in grid.Call.graphics(C_text, as.graphicsAnnot(x\$label), x\$x, x\$y, :
conversion failure on 'Ř' in 'mbcsToSbcs': dot substituted for <98>



```
sprintf("%2g", 123456)
```

```
[1] "123456"
```

```
scales::label_number_si
```

```
function (unit = "", accuracy = NULL, scale = 1, suffix = "",
  ...)
{
  lifecycle::deprecate_warn(when = "1.2.0", what = "label_number_si()",
    with = "label_number(scale_cut)")
  label_number(suffix = suffix, scale_cut = cut_bad_si(unit),
    accuracy = accuracy, scale = scale, ...)
}
<bytecode: 0x55e15f4edb70>
<environment: namespace:scales>
```

```
fit <- lm(hodnota_produkce ~ oblast_hospodareni, data)
summary(fit)
```

```
Call:
lm(formula = hodnota_produkce ~ oblast_hospodareni, data = data)
```

Residuals:

| | Min | 1Q | Median | 3Q | Max |
|--|---------|---------|--------|--------|--------|
| | -241930 | -129884 | 47 | 132585 | 250691 |

Coefficients:

| | Estimate | Std. Error | t value | Pr(> t) |
|---------------------|----------|------------|---------|------------|
| (Intercept) | 227288 | 12836 | 17.706 | <2e-16 *** |
| oblast_hospodareniH | -16247 | 23943 | -0.679 | 0.498 |
| oblast_hospodareniK | 19937 | 17294 | 1.153 | 0.250 |
| oblast_hospodareniŘ | -11102 | 19752 | -0.562 | 0.574 |

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 140000 on 396 degrees of freedom

Multiple R-squared: 0.00995, Adjusted R-squared: 0.002449

F-statistic: 1.327 on 3 and 396 DF, p-value: 0.2653

```
anova(fit)
```

Analysis of Variance Table

Response: hodnota_produkce

| | Df | Sum Sq | Mean Sq | F value | Pr(>F) |
|--------------------|-----|------------|------------|---------|--------|
| oblast_hospodareni | 3 | 7.8034e+10 | 2.6011e+10 | 1.3265 | 0.2653 |
| Residuals | 396 | 7.7649e+12 | 1.9608e+10 | | |

```
TukeyHSD(aov(fit))
```

Tukey multiple comparisons of means
95% family-wise confidence level

```
Fit: aov(formula = fit)
```

| | | diff | lwr | upr | p adj |
|-----|------------|-----------|----------|-----------|-------|
| H-B | -16247.210 | -78020.17 | 45525.75 | 0.9052010 | |

```

K-B 19937.428 -24680.28 64555.14 0.6569282
Ř-B -11101.455 -62062.08 39859.17 0.9432121
K-H 36184.638 -23924.17 96293.44 0.4068557
Ř-H 5145.754 -59810.49 70102.00 0.9969758
Ř-K -31038.883 -79968.99 17891.22 0.3592377

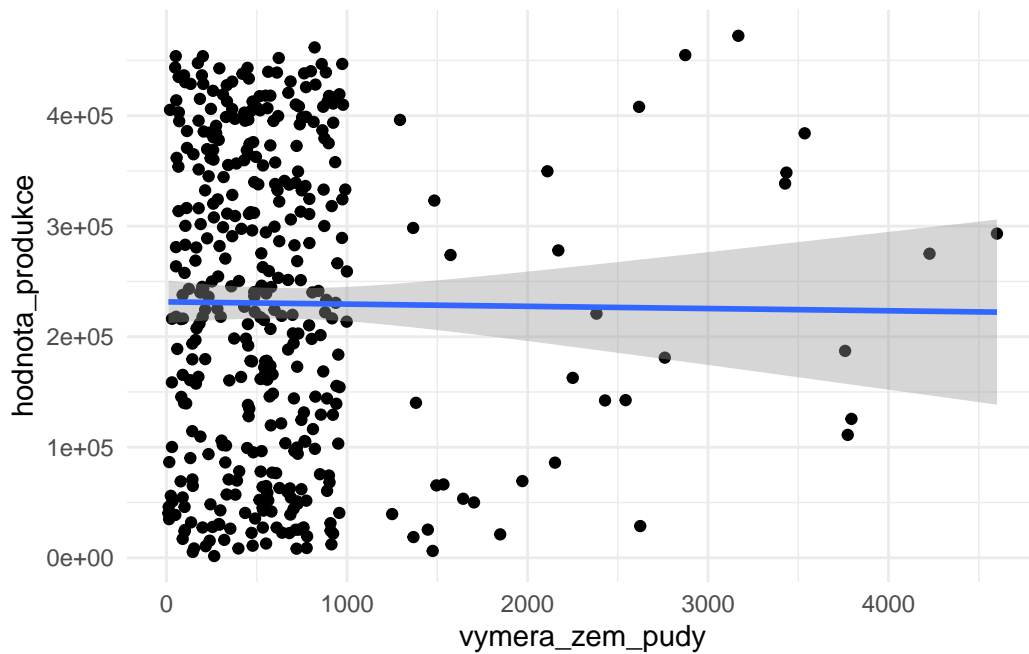
```

Korelace & Regrese

```

ggplot(data, aes(vymera_zem_pudy, hodnota_produkce)) +
  geom_point() +
  geom_smooth(method = "lm", formula = y ~ x)

```



```

fit <- lm(hodnota_produkce ~ vymera_zem_pudy, data)
summary(fit)

```

Call:

```
lm(formula = hodnota_produkce ~ vymera_zem_pudy, data = data)
```

Residuals:

| Min | 1Q | Median | 3Q | Max |
|---------|---------|--------|--------|--------|
| -229409 | -131272 | 2341 | 129037 | 247073 |

Coefficients:

| | Estimate | Std. Error | t value | Pr(> t) |
|-----------------|------------|------------|---------|------------|
| (Intercept) | 231507.481 | 9854.213 | 23.493 | <2e-16 *** |
| vymera_zem_pudy | -2.009 | 10.637 | -0.189 | 0.85 |

Signif. codes: 0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

Residual standard error: 140400 on 398 degrees of freedom

Multiple R-squared: 8.961e-05, Adjusted R-squared: -0.002423

F-statistic: 0.03567 on 1 and 398 DF, p-value: 0.8503