Česká verze stránek není od roku 2013 aktualizována.

LM & GLM

```
vltava.env <- read.csv2
('http://www.davidzeleny.net/anadat-r/data-download/vltava-env.csv', dec = '.')

lm.1 <- lm (SPEC.NO ~ pH.H, data = vltava.env)
summary (lm.1)

plot (SPEC.NO ~ pH.H, data = vltava.env)
abline (lm.1)
legend ('bottomright', legend = 'R2 = 0.25, F = 31.6, p < 0.001', bty = 'n')


glm.1 <- glm (SPEC.NO ~ pH.H, data = vltava.env, family = poisson)
summary (glm.1)
anova (glm.1, test = 'Chisq')

glm.2 <- glm (SPEC.NO ~ poly (pH.H, 2), data = vltava.env, family = poisson)
summary (glm.2)

anova (glm.1, glm.2, test = 'Chisq')

newdata.ph <- seq (min (vltava.env$pH.H), max (vltava.env$pH.H), length = 20)

predict.glm.1 <- predict (glm.1, newdata = list (pH.H = newdata.ph), type =
'response')
predict.glm.2 <- predict (glm.2, newdata = list (pH.H = newdata.ph), type =
'response')

plot (SPEC.NO ~ pH.H, data = vltava.env)
lines (predict.glm.1 ~ newdata.ph, col = 'blue')
lines (predict.glm.2 ~ newdata.ph, col = 'red')
```

From:
https://anadat-r.davidzeleny.net/ - **Analysis of community ecology data in R**

Permanent link:
https://anadat-r.davidzeleny.net/doku.php/cs:lm_glm

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