Another Very Long Title: With a Possibly Long Subtitle

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See https://crmda.ku.edu/guides for updates.

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1 LyX: Cautions

The document preamble has manual settings for margins (geometry) as well as hyperlinks (PDF hyperref). Don't use the LyX pull down menu to revise them. It is necessary to edit settings in the preamble manually.

2 knitr issues/features

Styling of knitr code chunks is different than Sweave. It appears we lose line-wrap entirely. I can't figure how to make Sweavel "listings" environments take over the knitr presentation.

We have not yet learned the ins-and-outs of correcting the knitr code and R output chunks to match our desired style. That is one reason to prefer the sweave-based templates we offer.

3 Code Chunks

Here is an example of a data frame being created and a glm is estimated:

```
set.seed(234234)
dat <- data.frame(x = rnorm(100), y = rpois(100, lambda = 7))
m1 <- glm(y ~ x, data = dat, family = "poisson")
summary(m1)
```

```
Call:
glm(formula = y ~ x, family = "poisson", data = dat)

Deviance Residuals:
    Min       1Q   Median       3Q      Max
-2.2212  -0.7115  -0.1668   0.4829   2.4448

Coefficients:
```

```
            Estimate Std. Error z value Pr(>|z|)
(Intercept)  1.93581    0.03821  50.658   <2e-16 ***
x            0.03175    0.04596   0.691     0.49
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

(Dispersion parameter for poisson family taken to be 1)

    Null deviance: 111.39  on 99  degrees of freedom
Residual deviance: 110.91  on 98  degrees of freedom
AIC: 485.89

Number of Fisher Scoring iterations: 4
```

On page 1, I do not show the page number anymore. That's negotiable.

Some code that might be used to create a regression table using outreg from the rockchalk package is the following. As you see, the output "splats" into the document, it is not in a floating figure or table.

```
library(rockchalk)
or <- outreg(list("My Poisson"= m1), varLabels = c("x" = "A Normal Predictor"), tight = FALSE)
cat(or)
```

	My Poisson	
	Estimate	(S.E.)
(Intercept)	1.936***	(0.038)
A Normal Predictor	0.032	(0.046)
N	100	
Deviance	110.909	
$-2LLR(Model\chi^2)$	0.477	

$*p \leq 0.05** p \leq 0.01***p \leq 0.001$

CAUTION: the page margins can be adjusted in the geometry section of the preamble, but do not use the LyX Menu to change either margins or pagestyle.

Lets see in Table 1, the regression table looks awesome.

Table 1: A Poisson Regression

	My Poisson	
	Estimate	(S.E.)
(Intercept)	1.936***	(0.038)
A Normal Predictor	0.032	(0.046)
N	100	
Deviance	110.909	
$-2LLR(Model\chi^2)$	0.477	

$*p \leq 0.05** p \leq 0.01***p \leq 0.001$

There is a fancy footer, it has the page-out-of-page thingie.