### **A Template for Academic Presentations**

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Name of the Inviting Institution/Seminar Series

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### **Outline**

- 1 Introduction
- 2 Study Design
- **3** Results
- **4** Discussion
- **5** References



### Introduction 1: Choice of a Reasonable Aspect Ratio

When preparing a presentation, we often do not know whether the native aspect ratio of the projector in the seminar room/lecture hall will be 4:3 or 16:9 (or 16:10).

In this case, it may be a good idea to choose an **intermediate aspect ratio**, see https://github.com/josephwright/beamer/issues/497. The idea behind this recommendation is that it minimizes the average loss of available space.

Hence, these templates include a presentation in the 14:9 aspect ratio (see https://en.wikipedia.org/wiki/14:9\_aspect\_ratio): while it is imperfect for probably every projector that you will encounter, it is good on average for all of them.

(Please note that  $14:9 \doteq 1.556$ , which is pretty close to the "officially" recommended  $20:13 \doteq 1.5385$ .)

### **Introduction 2**

Great Minds Discuss Ideas.

Average Minds Discuss Events.

Small Minds Discuss People.

—https://quoteinvestigator.com/2014/11/18/great-minds/

### **Background**

- Temporal discounting is key concept in economics.
- Normative model: exponential discounting. However, observed decisions are hard to explain (e.g., Dohmen et al., 2012).
- One alternative: the "focusing model" by Kőszegi and Szeidl (2013).

### **Introduction 3**

### **Research Question**

- The composition of latex and of typical rubbers is given below.
- Is it true that trees are regularly tapped and the coagulated latex which exudes is collected and worked up into rubber?

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### **Preview of the Results**

- There is no feasible method at present known of preventing the inclusion of the resin of the latex with the rubber during coagulation.
- ⇒ Although the separation of the resin from the solid caoutchouc by means of solvents is possible, it is not practicable or profitable commercially.

### Introduction 4: Beamer block Environments

## Block title example: 0123456789 äöü ß ÄÖÜ officially finding flowers in fjords

The block environment. The block environment. The block environment. The block environment. Block title example: 0123456789 äöü ß ÄÖÜ officially finding flowers in fjords

### **An Exemplary Example**

I am the exampleblock environment. Use me for examples. I am really exemplary.

### **Summary: Things to remember**

The alertblock environment. Use this environment for really important stuff. The alertblock environment.

### Introduction 5: Beamer definition and theorem Environments

## Definition (A Very, Very, Very, Very, Very, Very Long Name of a Concept that Spans Two Lines)

The definition environment. Upright.

### **Theorem (Theorem's Name)**

The theorem environment, Italic.

### Lemma (Lemma's Name)

The lemma environment, Italic.

### Corollary (Corollary's Name)

The corollary environment. Italic.

### **Proof of Theorem's Name**

The proof environment. Upright.

# **Study Design**

### **Study Design 1: Design of the Study**

- The latex of the best rubber plants furnishes from 20% to 50% of rubber.
- As the removal of the impurities of the latex is one of the essential points to be aimed at, it was thought that the use of a centrifugal machine to separate the caoutchouc as a cream from the watery part of the latex would prove to be a satisfactory process.

### Study Design 2: Design of the Study

The watery portion of the latex soaks into the trunk, and the soft spongy rubber which remains is kneaded and pressed into lumps or balls:

BAL' BAL': Each payment transferred on single day.

UNBAL.: Earlier payoff concentrated, while later payoff dispersed over n=2. 4. or 8 dates.

UNBAL": Earlier payoff dispersed over n = 2. 4, or 8 dates, while later payoff concentrated.

### **Study Design 3: Control Experiment**

- Control for alternative explanations.
- Many of the example sentences were taken from http://sentence. yourdictionary.com/latex.

### Study Design 4: An Example enumerate List

- 1. First item in a list
  - a. First item in a list
    - i. First item in a list
    - ii. Second item in a list
    - iii. Third item in a list
    - iv. Fourth item in a list
  - b. Second item in a list
  - c. Third item in a list
  - d. Fourth item in a list
- 2. Second item in a list
- 3. Third item in a list
- 4. Fourth item in a list

### Study Design 5: An Example itemize List

- First item in a list
  - First item in a list
    - First item in a list
    - Second item in a list
    - Third item in a list
    - Fourth item in a list
  - Second item in a list
  - Third item in a list
  - Fourth item in a list
- · Second item in a list
- Third item in a list
- · Fourth item in a list

### **Study Design 6: Some Example Text**

### Let's include some Greek letters: $\alpha$ , $\beta$

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place.  $\sin^2(\alpha) + \cos^2(\beta) = 1$ . If you read this text, you will get no information  $E = mc^2$ . Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look.  $\sqrt[q]{a} \cdot \sqrt[q]{b} = \sqrt[q]{ab}$ . This text should contain all letters of the alphabet and it should be written in of the original language.  $\frac{\sqrt[q]{a}}{\sqrt[q]{b}} = \sqrt[q]{\frac{a}{b}}$ . There is no need for special content, but the length of words should match the language.  $a\sqrt[q]{b} = \sqrt[q]{a^nb}$ .

### **Study Design 7: Some Example Formulas**

Let's include some additional Greek letters:  $\gamma$ ,  $\phi$ 

$$p(R,\phi) \sim \int_{-\infty}^{\infty} \frac{\tilde{W}_n(\gamma) \exp\left[ \, \imath R / \, a \left( \sqrt{k^2 a^2 - \gamma^2} \cos \phi \right) \right]}{(k^2 a^2 - \gamma^2)^{3/4} H_n^{\prime (1)} \left( \sqrt{k^2 a^2 - \gamma^2} \right)} \mathrm{d}\gamma$$

Let's also include some upright Latin letters: d, e

$$\int_a^b f(x) \, \mathrm{d}x = F(b) - F(a)$$

### Study Design 8: Additional Example Formulas (with upright $\pi$ )

Only variables are set in italics according to ISO style—hence, we use upright "d," "e," and " $\pi$ " (\mathup{d}, \mathup{e}, and \mathup{\pi}, respectively).

### Theorem (Simplest form of the Central Limit Theorem)

Let  $X_1, X_2, \cdots$  be a sequence of i.i.d. random variables with mean 0 and variance 1 on a probability space  $(\Omega, \mathcal{F}, \mathbb{P})$ . Then

$$\mathbb{P}\left(\frac{X_1+\cdots+X_n}{\sqrt{n}}\leq y\right)\to\mathfrak{N}(y):=\int_{-\infty}^y\frac{\mathrm{e}^{-v^2/2}}{\sqrt{2\pi}}\,\mathrm{d}v\quad\text{as}\quad n\to\infty,$$

or, equivalently, letting  $S_n := \sum_{1}^{n} X_k$ ,

$$\mathbb{E} f\left(\mathsf{S}_n/\sqrt{n}\right) \to \int_{-\infty}^{\infty} f(\mathsf{v}) \frac{\mathrm{e}^{-\mathsf{v}^2/2}}{\sqrt{2\pi}} \, \mathrm{d}\mathsf{v} \quad \text{as } n \to \infty, \text{ for every } f \in \mathsf{b}\mathscr{C}(\mathbb{R}).$$

## **Results**

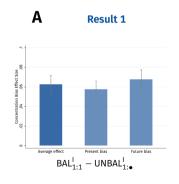
### **Results 1: Overview**

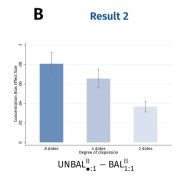
- As a secondary function we may recognize the power of closing wounds, which results from the rapid coagulation of exuded latex in contact with the air:
  - a. In some cases (Allium, Convolvulaceae, etc.) rows of cells with latexlike contents occur.
  - **b.** However, the walls separating the individual cells do not break down.
- 2. The rows of cells from which the laticiferous vessels are formed can be distinguished (6.3 p.p. vs. 2.6 p.p.; p < 0.01).

### **Results 2: Our Main Results**

The charts are taken from Dertwinkel-Kalt et al. (2017).

- (A) Difference between treatment and control condition.
- (B) Heterogeneity.

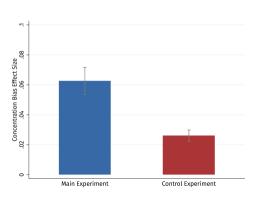




### **Results 3: Main vs. Control Experiment**

Rule out some alternative explanations.





### Results 4: An siunitx Example Table

**Table.** An Example of a Regression Table. Don't Forget to Mention the Dependent Variable.

(1)	(2)	(3)	(4)	(5)
-0.390	-0.228	-0.729*	-0.449*	-0.453**
(+0.352)	(-0.205)	[+0.377]	[-0.245]	{+0.204}
0.948***	0.061	0.188	0.305	0.385*
(0.354)	(0.233)	(0.372)	(0.226)	(0.222)
0.169	0.251	0.892*	0.454	0.439
(0.514)	(0.325)	(0.533)	(0.341)	(0.307)
-0.101	0.013	0.076	0.117	0.039
(0.198)	(0.144)	(0.224)	(0.146)	(0.133)
-0.016	0.002	-0.016	-0.000	-0.007
(0.016)	(0.010)	(0.015)	(0.010)	(0.009)
2.357***	1.512***	-0.322	2.158***	1.437***
(0.239)	(0.144)	(0.265)	(0.161)	(0.152)
303	289	295	304	1191
0.057	0.008	0.039	0.043	0.024
-0.221	0.023	0.163	0.004	-0.014
0.327	0.008	0.192	0.000	0.003
	-0.390 (+0.352) 0.948*** (0.354) 0.169 (0.514) -0.101 (0.198) -0.016 (0.016) 2.357*** (0.239) 303 0.057	-0.390 -0.228 (-0.352) (-0.205) 0.948*** 0.061 (0.354) (0.233) 0.169 0.251 (0.514) (0.325) -0.101 (0.134) (0.198) (0.144) -0.016 (0.002) (0.016) (0.010) (0.357*** (0.144) 303 289 0.057 0.008 -0.221 0.025	-0.390 -0.228 -0.729* (-0.352) (-0.205) [-0.377] 0.948** 0.061 0.188 (0.354) (0.233) (0.372) 0.169 0.251 0.892* (0.514) (0.325) (0.533) -0.101 0.013 0.076 (0.198) (0.144) (0.224) -0.016 0.002 -0.016 (0.016) (0.010) (0.015) 2.357*** 1.512*** -0.322 (0.239) (0.144) (0.265) 303 289 295 0.057 0.008 0.039 -0.221 0.023 0.163	-0.390 -0.228 -0.729* -0.449* (+0.352) (-0.205) [*0.377] [-0.245] 0.948*** 0.061 0.188 0.305 (0.354) (0.323) (0.372) (0.226) 0.169 0.251 0.892* 0.454 (0.314) -0.101 0.013 0.076 0.117 (0.198) (0.144) (0.224) (0.146) -0.016 0.002 -0.016 -0.000 (0.016) (0.010) (0.015) (0.010) (0.015) (0.010) (0.015) (0.010) (0.235) (0.235) (0.235) (0.235) (0.235) (0.235) (0.235) (0.235) (0.244) (0.264) (0.264) (0.165) (0.010) (0.015) (0.010) (0.015) (0.010) (0.015) (0.010) (0.215) (0.239) (0.144) (0.265) (0.161) (0.239) (0.144) (0.265) (0.161) (0.015) (0.0

Notes: Dependent variable:  $m_{\sim}$ . Robust standard errors (cluster-corrected for column 5) in parentheses. \*\*\*p < 0.01, \*\*p < 0.05, \*\*p < 0.1. Missing observations (N < 308) due to exclusion of trials in which subjects behaved irrationally (i.e., chose a dominated option). The regressors Final high school grade and Trait self-control are mean-centered.

### Results 5: Another siunitx Example Table

Table. Figure Grouping via siunitx in a Table.

(1)	(2)	(3)
-0.100*	-0.100 01*	-123 456.444***
(2.871)	(2.871 23)	[+50 000.123]

# **Discussion**

### **Discussion 1**

- The latex exhibits a neutral, acid, or alkaline reaction, depending on the plant from which it was obtained.
- The latex is therefore usually allowed to coagulate on the tree (Kőszegi and Szeidl, 2013).
  - ⇒ The latex, which is usually coagulated by standing or by heating, is obtained from incisions.
- See also Bordalo, Gennaioli, and Shleifer (2013).

### **Discussion 2: Conclusion**

- When exposed to air, the latex gradually undergoes putrefactive changes accompanied by coagulation.
- The addition of a small quantity of ammonia or of formalin to some latices has the effect of preserving them.
- There is, however, reason to believe the following.
- The coagulation of latex into rubber is not mainly of this character.

- The feature is available in Adobe Acrobat and Acrobat Reader.
- Unfortunately, it is (currently, March 16, 2019) not available in macOS Preview, Skim, and SumatraPDF.



Figure. Step 1—Angle: 30.0°

- The feature is available in Adobe Acrobat and Acrobat Reader.
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Figure. Step 2—Angle: 60.0°

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Figure. Step 3—Angle: 90.0°

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Figure. Step 4—Angle: 120.0°

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Figure. Step 5—Angle: 150.0°

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Figure. Step 6—Angle: 180.0°

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Figure. Step 7—Angle: 210.0°

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Figure. Step 8—Angle: 240.0°

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Figure. Step 9—Angle: 270.0°

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Figure. Step 10—Angle: 300.0°

- The feature is available in Adobe Acrobat and Acrobat Reader.
- Unfortunately, it is (currently, March 16, 2019) not available in macOS Preview, Skim, and SumatraPDF.



Figure. Step 11—Angle: 330.0°

- The feature is available in Adobe Acrobat and Acrobat Reader.
- Unfortunately, it is (currently, March 16, 2019) not available in macOS Preview, Skim, and SumatraPDF.



Figure. Step 12—Angle: 360.0°

### Discussion 4: Testing the allowframebreaks option

Let's test automatic numbering with the allowframebreaks option.

On this slide, no number should be included in the frame title.

### **Discussion 5: Testing the allowframebreaks option** (1/3)

Let's test automatic numbering with the allowframebreaks option.

On this slide, "(1/3)" should appear in the frame title.

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place.  $\sin^2(\alpha) + \cos^2(\beta) = 1$ . If you read this text, you will get no information  $E = mc^2$ . Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text *like this* gives you information about the selected font, how the letters are written and an impression of the look.  $\sqrt[q]{a} \cdot \sqrt[q]{b} = \sqrt[q]{ab}$ . This text should contain all letters of the alphabet and it should be written in of the original language.  $\frac{\sqrt[q]{a}}{\sqrt[q]{b}} = \sqrt[q]{\frac{a}{b}}$ . There is no need for special content, but the length of words should match the language.  $a\sqrt[q]{b} = \sqrt[q]{a^nb}$ .

### **Discussion 6: Testing the allowframebreaks option** (2/3)

Hello, here is some text without a meaning.  $d\Omega=\sin\vartheta d\vartheta d\varphi$ . This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text *like this* gives you information about the selected font, how the letters are written and an impression of the look.  $\sin^2(\alpha) + \cos^2(\beta) = 1$ . This text should contain all letters of the alphabet and it should be written in of the original language  $E=mc^2$ . There is no need for special content, but the length of words should match the language.  $\sqrt[4]{a} \cdot \sqrt[4]{b} = \sqrt[4]{ab}$ .

### **Discussion 7: Testing the allowframebreaks option** (3/3)

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place.  $\sin^2(\alpha) + \cos^2(\beta) = 1$ . If you read this text, you will get no information  $E = mc^2$ . Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text *like this* gives you information about the selected font, how the letters are written and an impression of the look.  $\sqrt[q]{a} \cdot \sqrt[q]{b} = \sqrt[q]{ab}$ . This text should contain all letters of the alphabet and it should be written in of the original language.  $\frac{\sqrt[q]{a}}{\sqrt[q]{b}} = \sqrt[q]{\frac{a}{b}}$ . There is no need for special content, but the length of words should match the language.  $a\sqrt[q]{b} = \sqrt[q]{a^nb}$ .

# References

### References

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## **Appendix**

Backup Slides

### **Appendix: Modeling Concentration Bias**

Subjects consider a sequences of consequences **c** from choice set **C**.

• Standard discounted utility: Suppose that the instantaneous utility function u satisfies u'>0 and  $u''\leq 0$ , and that earlier consequences are preferred over later consequences of the same magnitude, i.e.,  $D(t)\leq 1$ :

$$U(\mathbf{c}) := \sum_{t=1}^{T} D(t) u(c_t)$$
, where, e.g.,  $D(t) = \delta^t$  or  $D(t) = \frac{1}{1+kt}$ .

• Focusing model (Kőszegi and Szeidl, 2013):

$$\begin{split} \tilde{\textit{U}}(\textbf{c},\textbf{C}) &:= \sum_{t=1}^{T} g_t \, \textit{D}(t) \, \textit{u}(c_t), \quad \text{where} \\ g_t &\equiv g[\max_{c' \in \textit{C}} \textit{u}(c_t') - \min_{c' \in \textit{C}} \textit{u}(c_t')] \end{split}$$

- Weighting function g[·] increases in difference of maximum and minimum possible utility at a point in time.
- Subjects overweight intertemporal consequences with a greater range.