

Agenda for today: Introduction

- 1) to our team
- 2) to the goal: statistical illusions in ShinyApps
- 3) to the plan for this team project

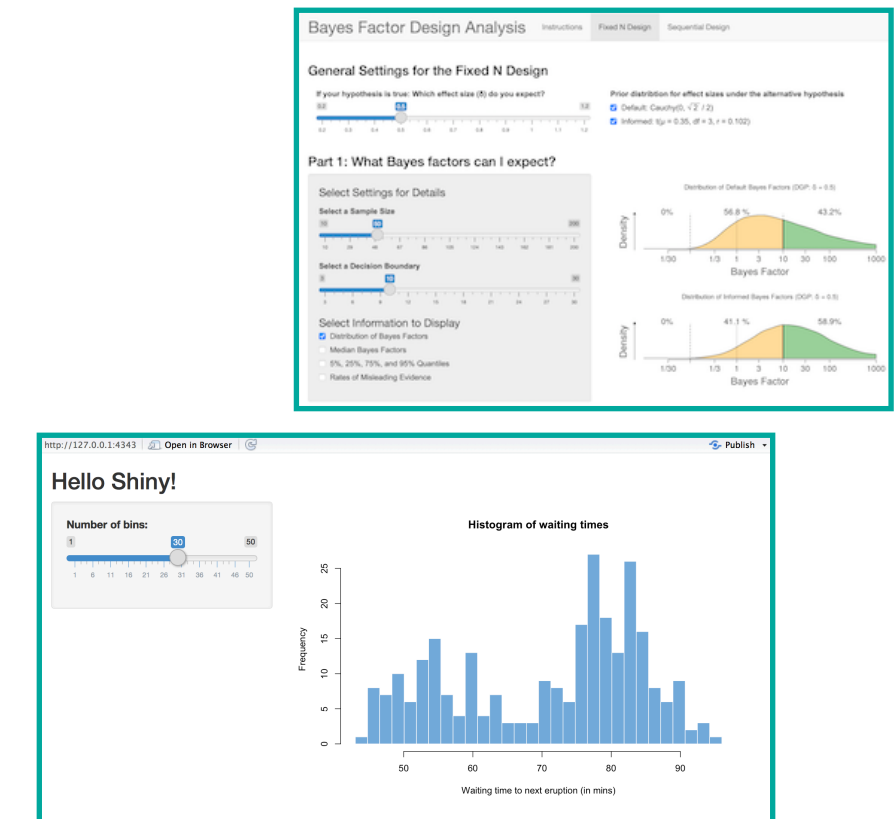
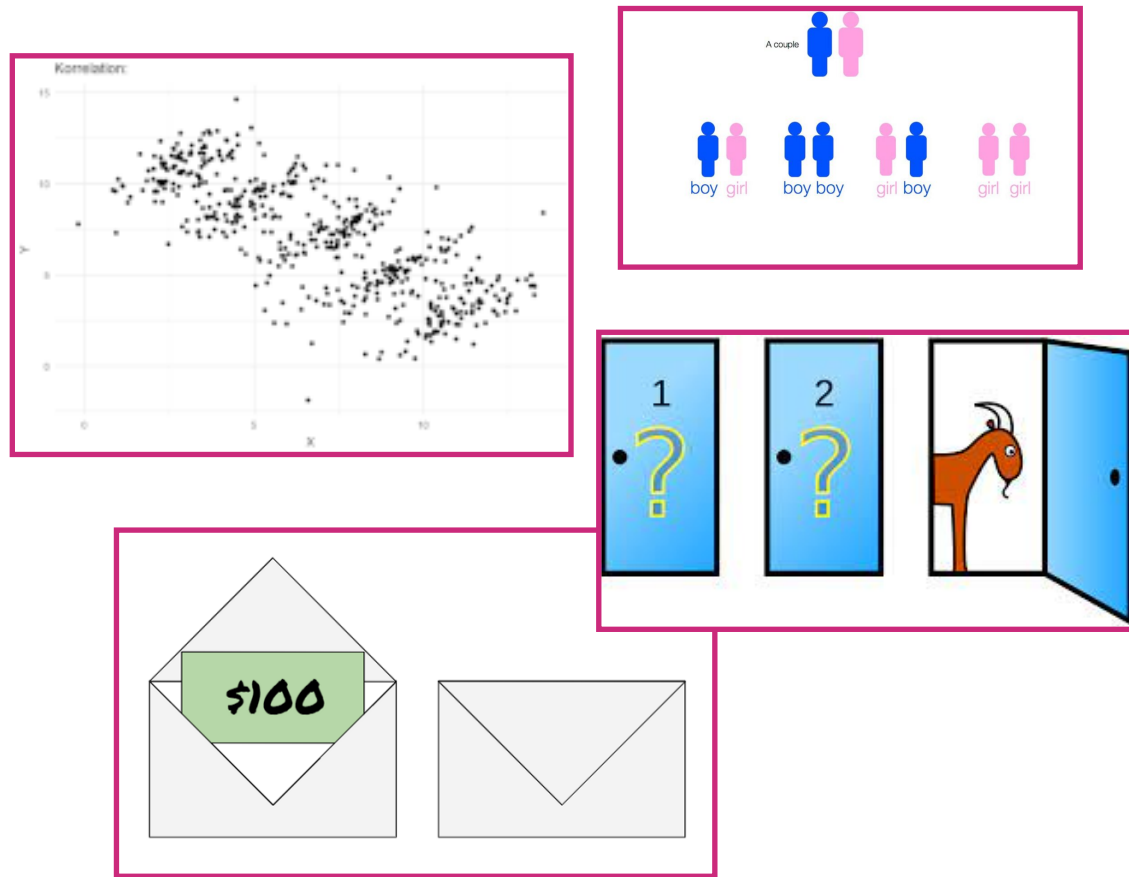
1) Our team

Who I am:

- Background: BSc + MSc Cognitive Science @Tü
- Currently: PhD student with Prof. Franz (Experimental Cognitive Science Group)
- Focus: Statistics & Methodology, especially Bayesian methods and their limitations

and who are you?

2) Goal of this project



Statistical Illusions

problems, paradoxes,
fallacies in probability
theory and statistics

in

ShinyApps

R package for interactive
applications

2) Goal of this project: Motivation

Statistical illusions often occur due to conflicting

- interpretations (of the question/setting)
- intuitions

ShinyApps allow users to explore these by

- switching between different options (interpretations)
- changing the numerical values of variables
- and directly seeing their effects

→ The final ShinyApps should later serve as didactic supplement for students in the statistics lecture (BSc Kognitionswissenschaft)

3) Plan for this team project

<print-out>

Outlook for next week

Presentation: Statistical Illusion 1

Presentation: Statistical Illusion 2

Tutorial: git and github

Tutorial: R

Your tasks for next week

- 1) install git, R (+ RStudio)
- 2) sign up to github
- 3) if you are going to present an illusion:
 - ▶ send an email to **all** team members as soon as you have decided on a topic
- 4) prepare your talk (presentation / tutorial)
 - ▶ make sure you can tick your check boxes in section 1.1 of the syllabus sheet