Agenda for today: Introduction

1) to our team

2) to the goal: Statistical illusions in ShinyApps
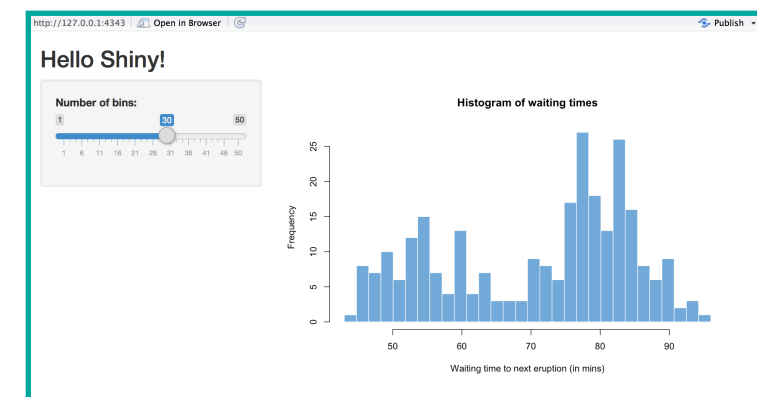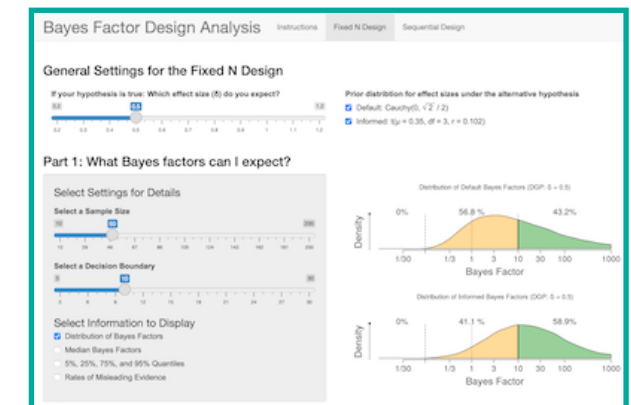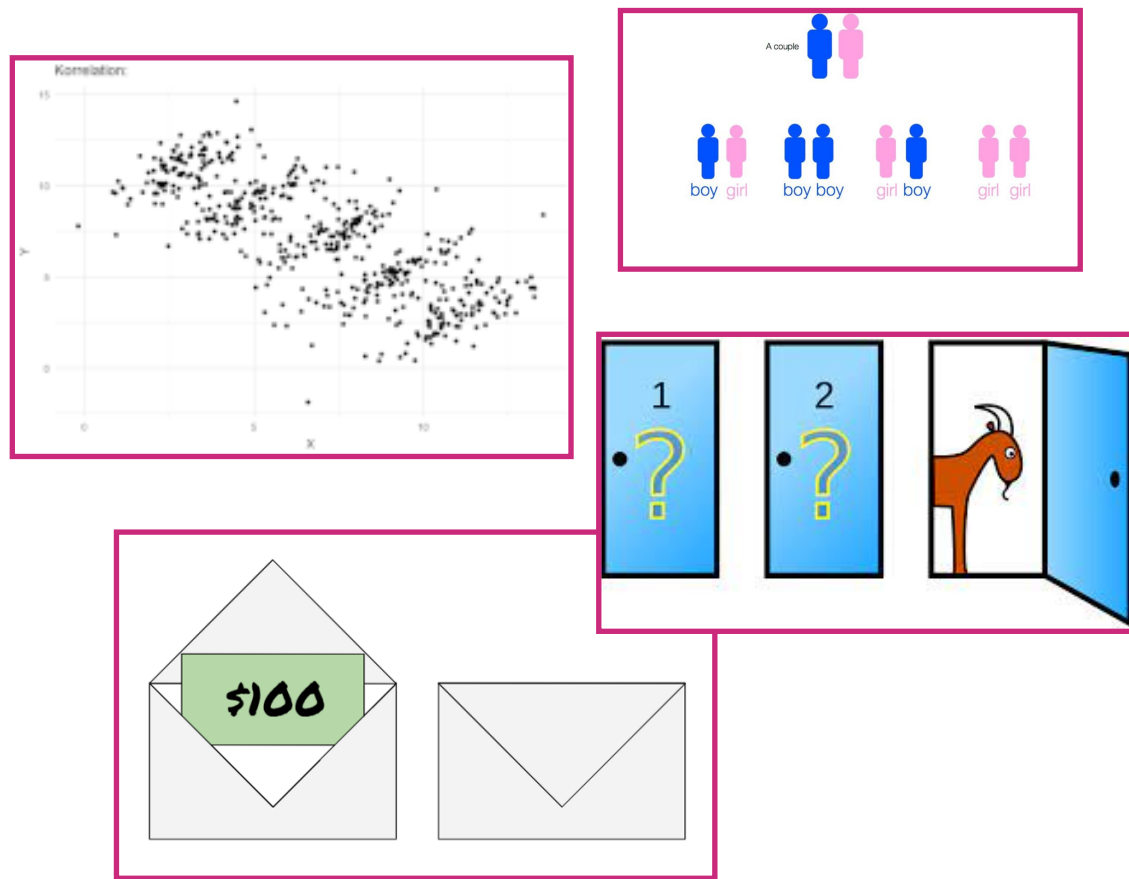
3) to the plan for this team project

1) Our team

About me:

- 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 **in** **ShinyApps**

problems, paradoxes, fallacies in probability theory and statistics

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

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 (including me) 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