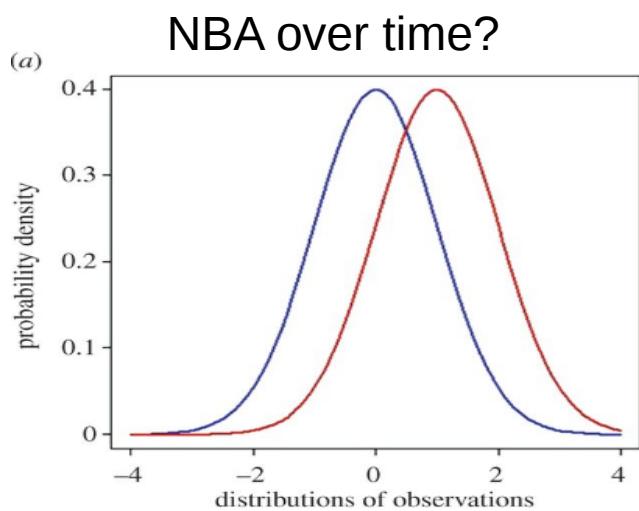
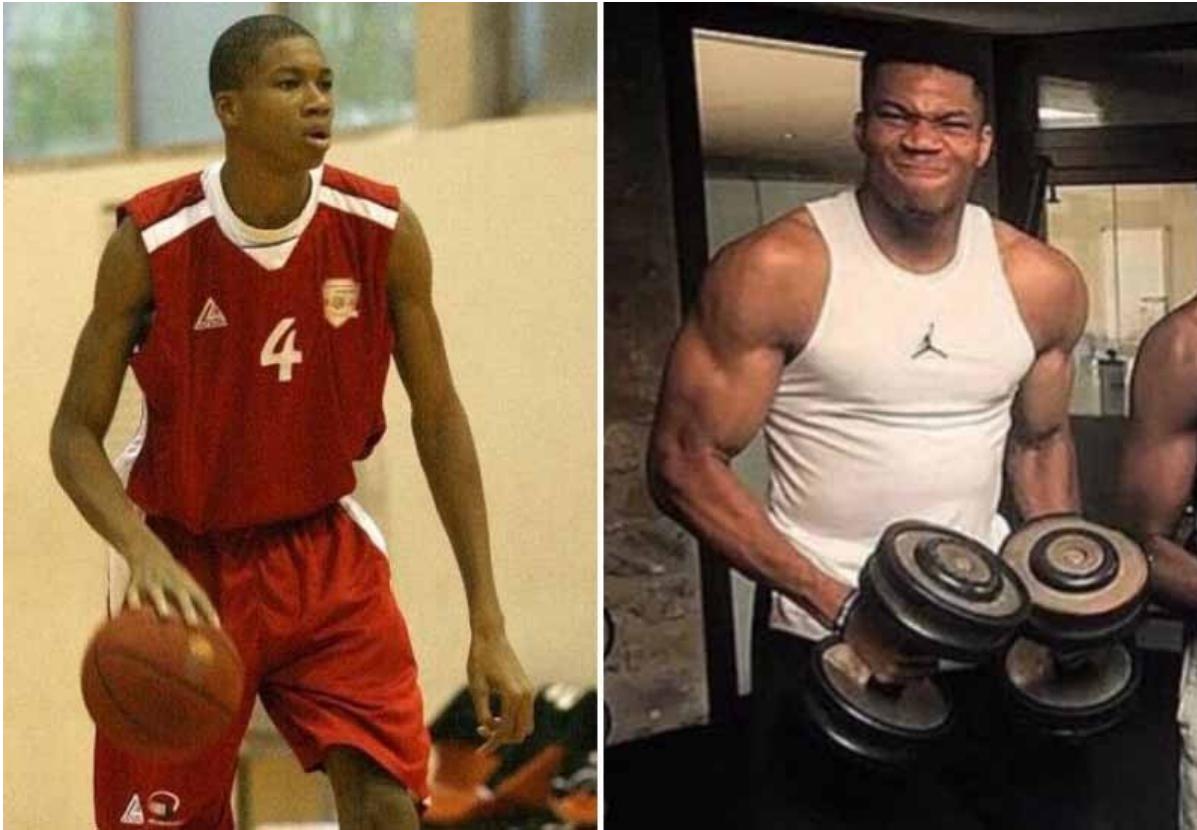


GAME OF ZONES

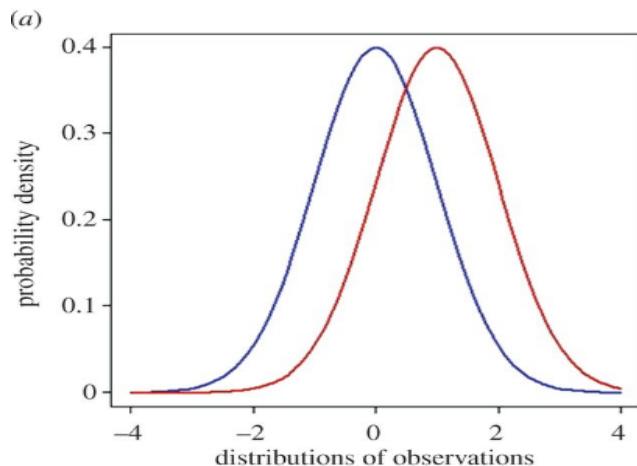


NBA players are taller and heavier than ever





US vs Foreign players?





Is bigger always better?

Design planning process

Audience: Sports lovers

- like:

- + **short** and direct story telling
- + **simple** analysis
- + **easy** to observe data and make comparison

- dislike:

- + complicated maths
- + distracting visual cues
- + irrelevant information

Design planning process

Planned content:

- Visual tools to show distributions of data
- Statistics tool to make comparisons
- Search tool



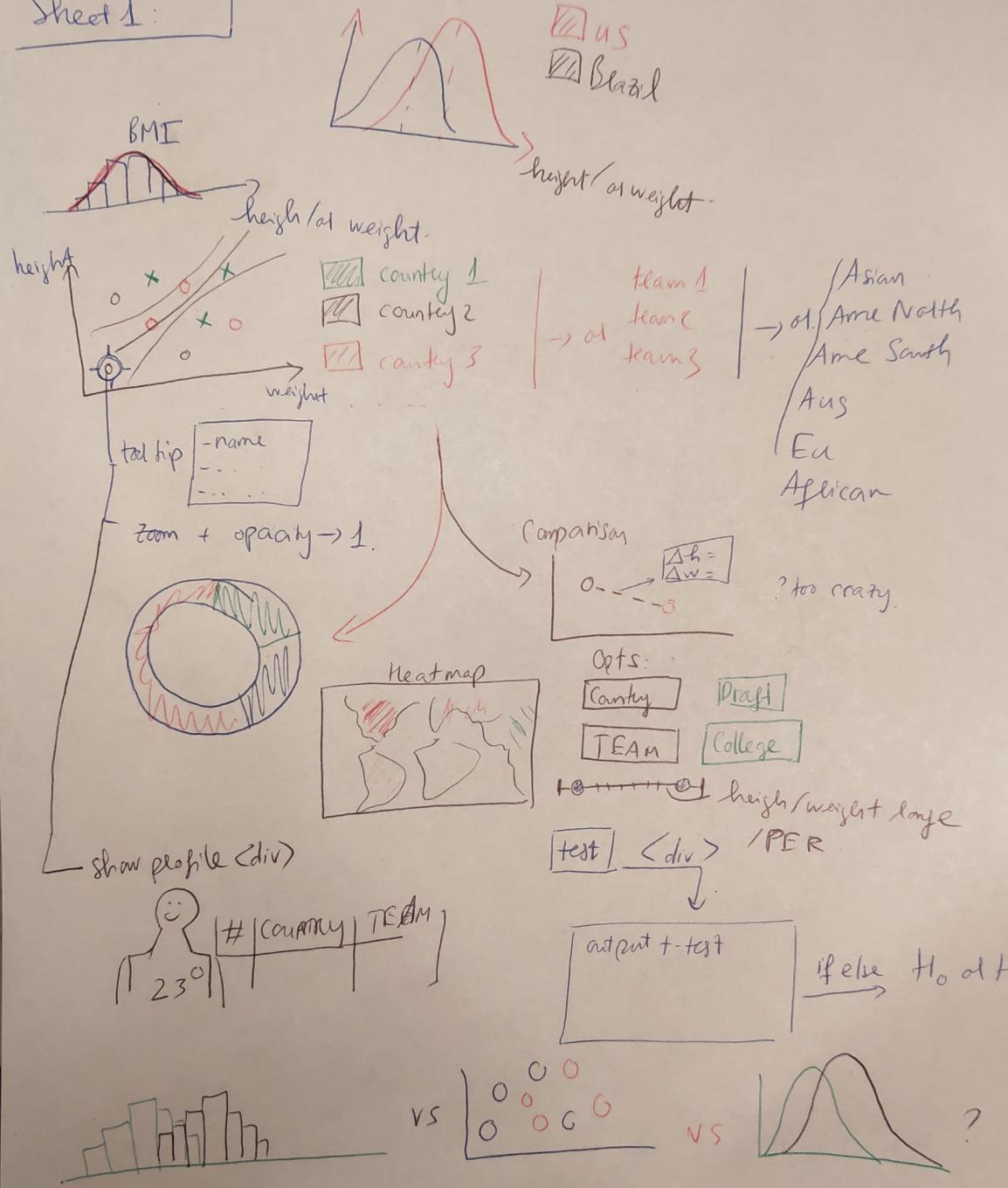
Backend:

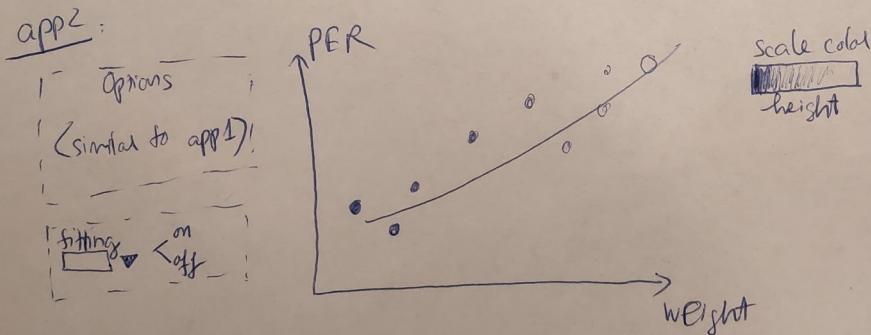
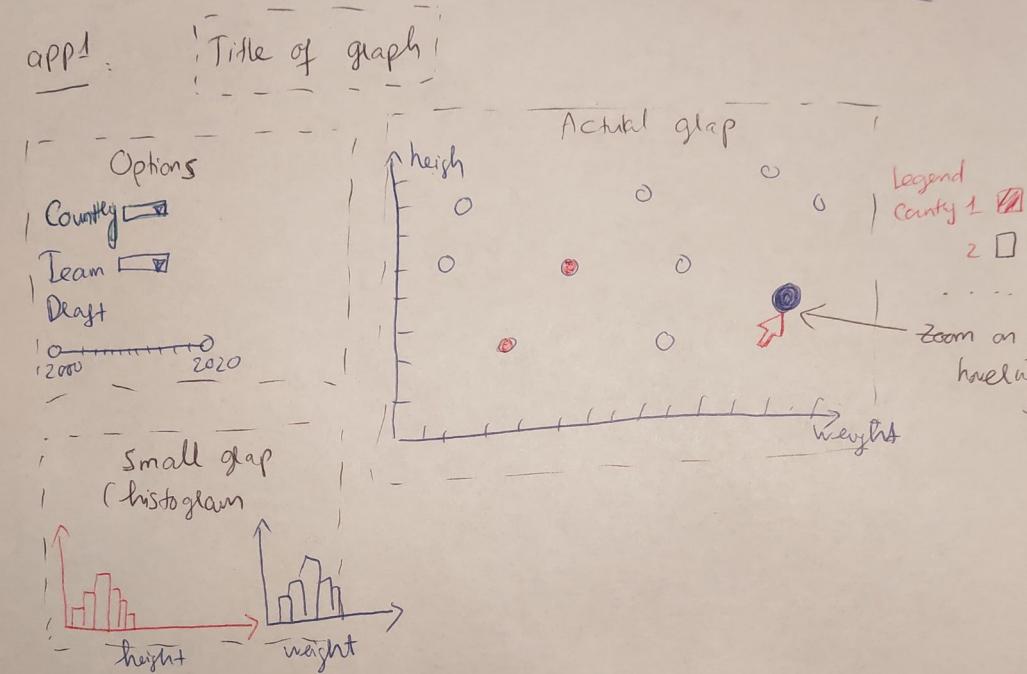
- Run simple queries in R to filter, fetch data
- Embed a t-test for two samples by user's choice

Options for charts/graphs:

- Simple charts for distribution discovery: boxplot, kernel density
- Showing trend: Scatterplot with fitting line.

Sheet 1:





- disadvantages:
 - app2: scale color for height is distracting.
 - Legend for county in app1: may not be necessary.
- advantages:
 - Solid options: Country, Team
 - hovering is cool, should be in app2 as well.

Sheet 3

title : Solution 2.

author: Thy Ng

Date: 25 May 2022

app1 | Reactive title

Country ▽

Team ▽

Draft

Collect as sample

t - test

Name

Name

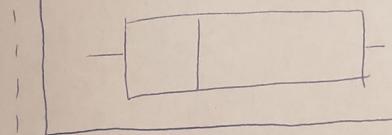
Name

no hovering

just show

name for

every one.



app2

Team ▽

PER Range

Weight Range

Height Range

~~height~~

Name

Name

Name

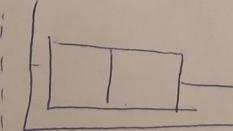
scale col for PER

~~height~~

Name

Name

weight



- disadvantages: - show names may be too overcrowded.

- use a single button for collection may prone to missing

⇒ suggestion: - messages / noti . . .

~~Improve~~

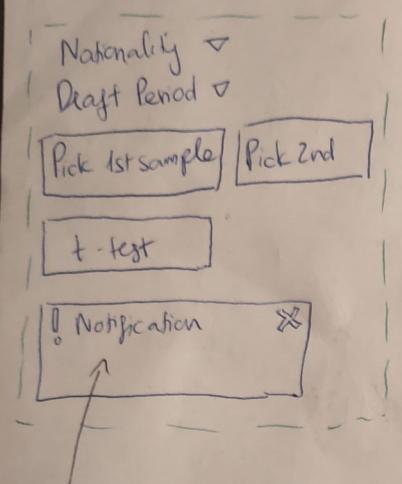
- drop height or weight for app2 because scale col is still distracting (maybe)

Sheet 4

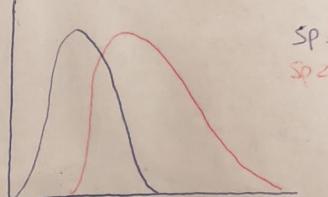
app 1

Reactive title

Title: Solution 3
Author: Ting Ng
Date 25 May 2020



key focus: point out t-test
and interpret it



app 2:

height
PER
Team ▽
Fitting line



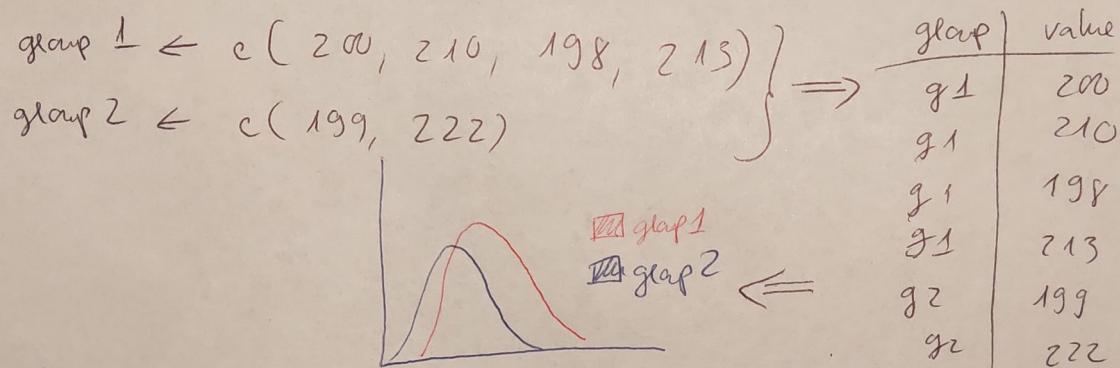
- maybe difficult to implement tooltip like this, but it looks really good!
- kernel for app1 is spot on, box plot for app2 is also a good choice.

Sheet 5

app 1: - The Layout looks like in sheet 4

- library used: scatterD3: allows zooming, dragging

- need some helper functions (available ones) to manipulate data before feeding the plotting function: the overlaid density plot requires a specific kind of data that I don't have in stock, but have to generate AT RUN TIME upon users' interaction.



app 2: - The layout looks like in sheet 4

- cannot use scatterD3 here because in this app we have more customizations (fitting line) \Rightarrow tool tip basic by shiny. Not as sleek

