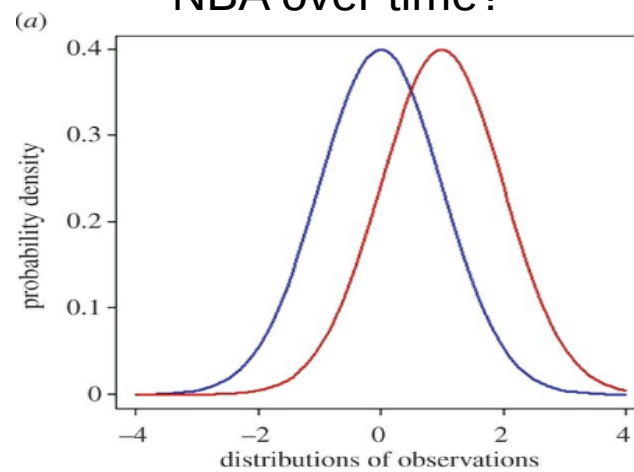




**NBA players are taller and heavier than ever**

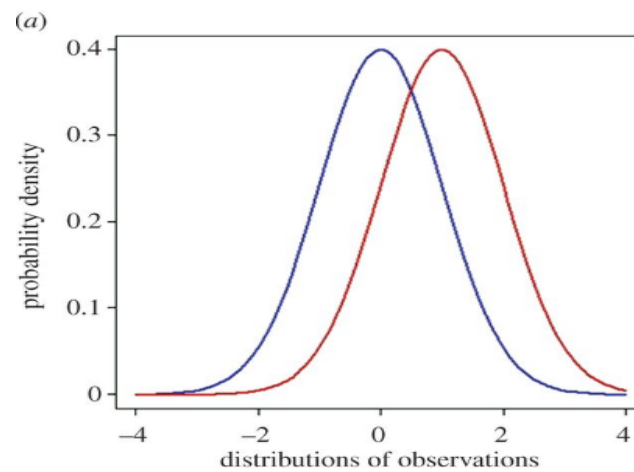


NBA over time?





US vs Foreign players?

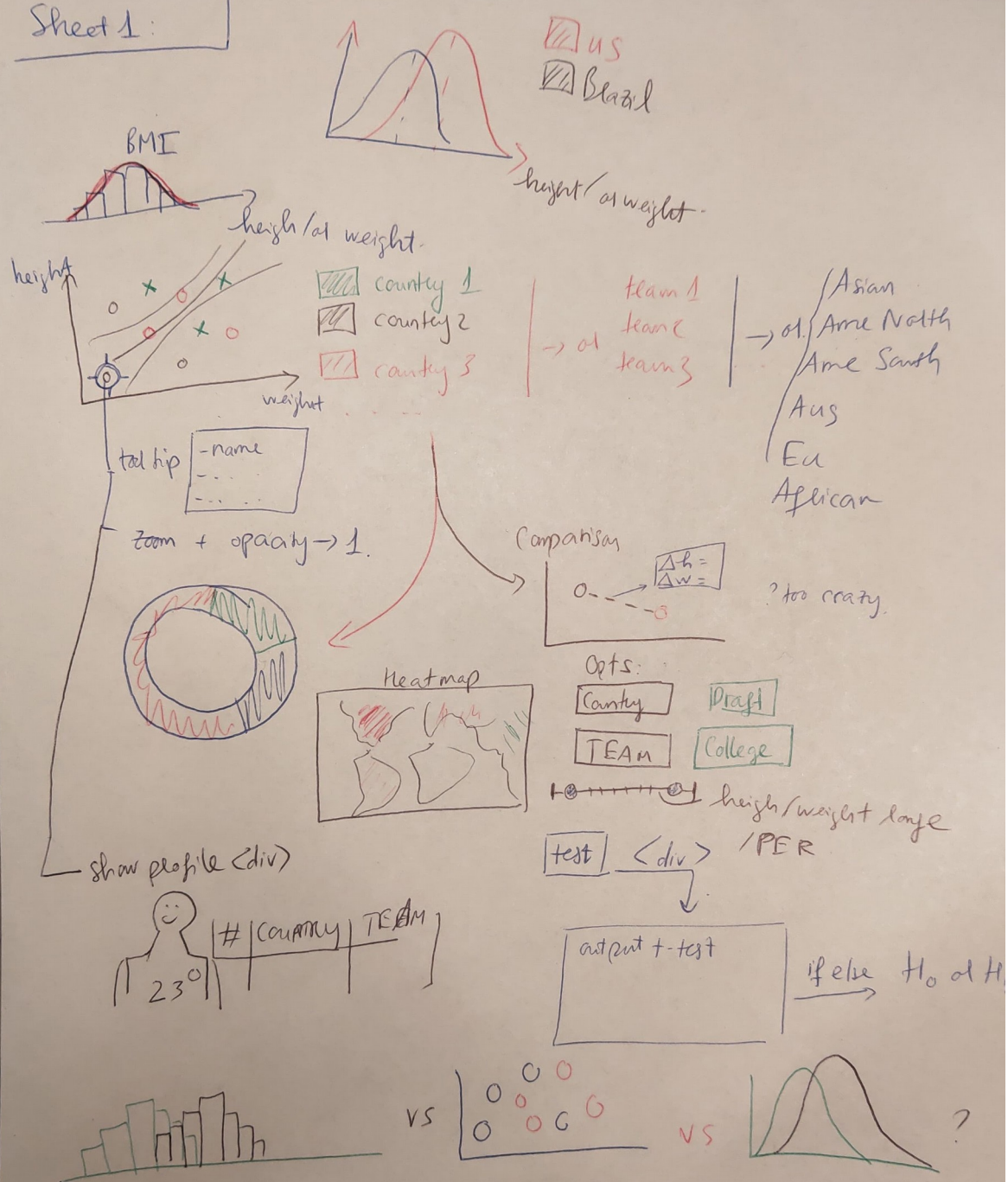






Is bigger always better?

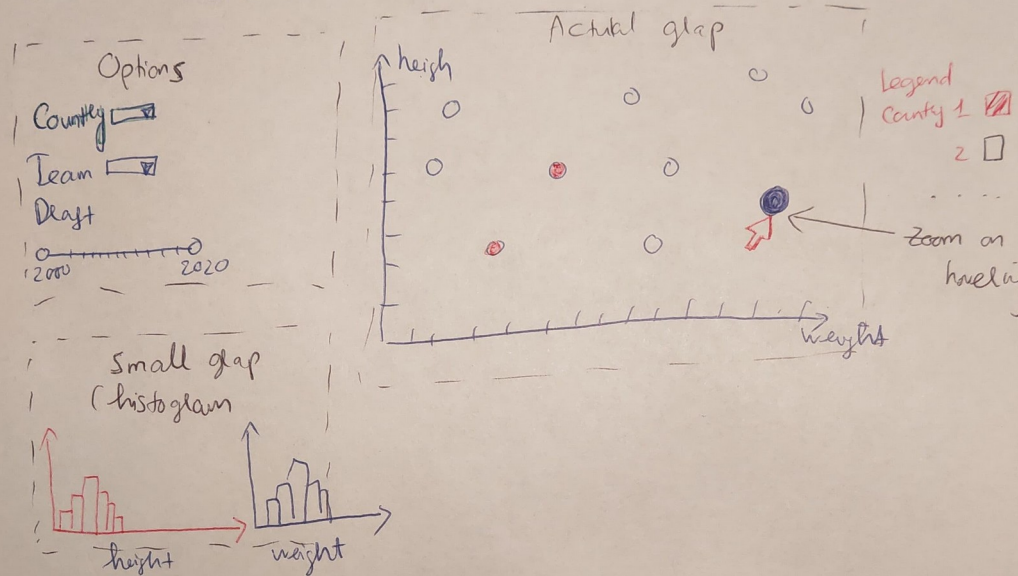
Sheet 1:



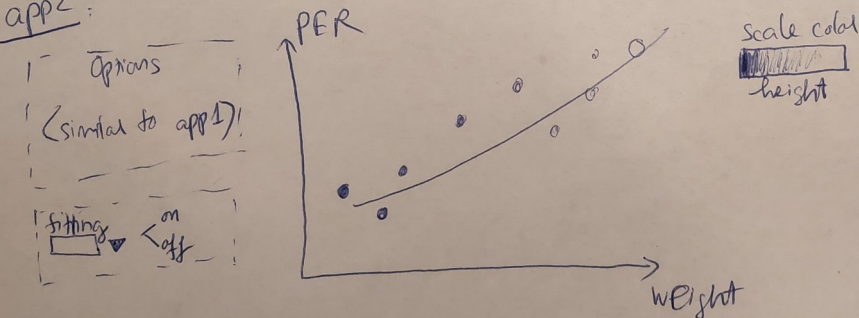


app1:

Title of graph



app2:



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

+

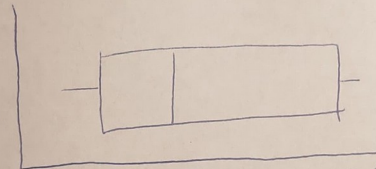
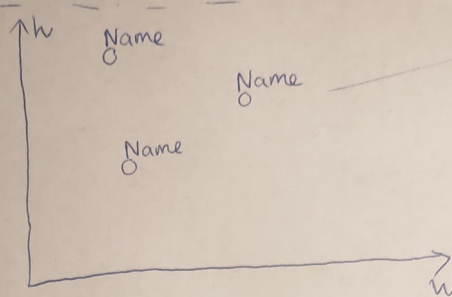
app1

Reactive title

Country ▾  
Team ▾  
Depth ○ — ○

Collect as sample

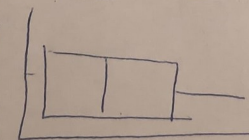
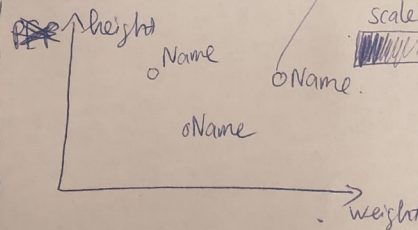
t-test



no hovering  
just show  
name for  
everyone.

app2

Team ▾  
PER Range ○ — ○  
Weight Range ○ — ○  
Height Range ○ — ○



- disadvantages:
  - show names may be too overcrowded.
  - use a single button for collection may phone do missing

⇒ suggestion: - messages / not

~~Simplify~~

- drop height at weight for app2 because scale color is still distracting (maybe)

Sheet 4

app 1

Reactive title

file: Solution 3  
author: Tugay No  
Date 25 May 2018

Nationality ▾

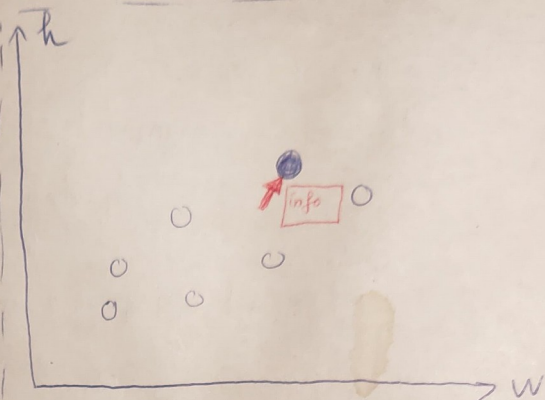
Draft Period ▾

Pick 1st sample

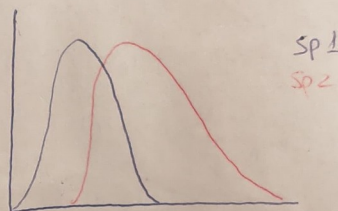
Pick 2nd

t-test

! Notification



key focus: print out t-test  
and interpret it



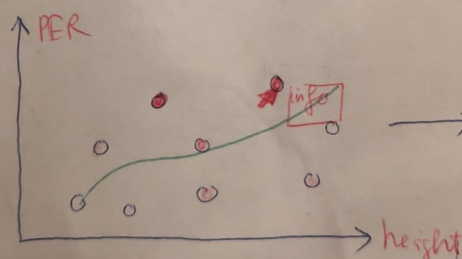
app 2:

Height

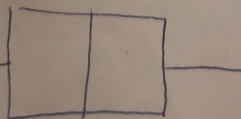
PER

Team ▾

Fitting line



color  
scale for PER only



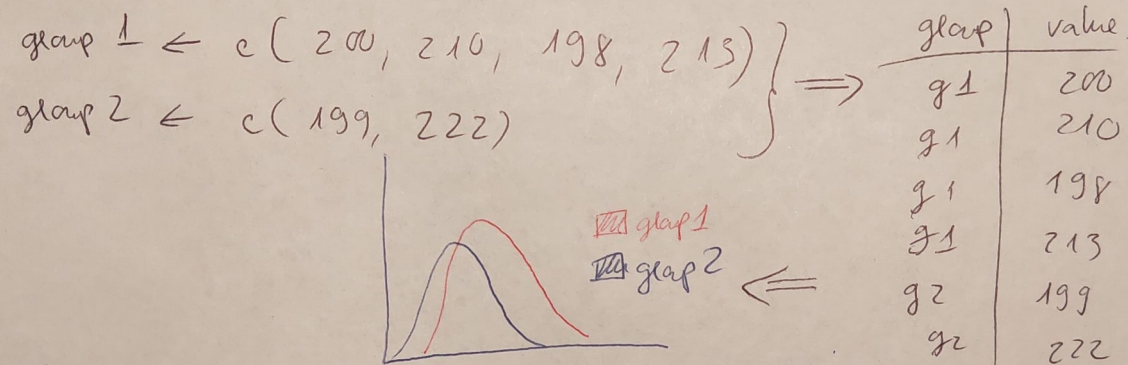
- maybe difficult to implement tooltip like this, but it looks really good!
- kernel for app 1 is spot on, box plot for app 2 is also a good choice.



## 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)  $\Rightarrow$  tooltip basic by shiny. Not as sleek.

