

Session 4: Quarto

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Notes:

- jl usually starts a Quarto doc with notes, to-dos, where i left off, etc
 - test

Data source

- Data last downloaded on XXX
- Box directory: /Box-Box/jlee/QSU_RWorkshop/data/baseball_gamelogs2023.rds

Table 1

```
### USING GTSUMMARY ###
require(gtsummary)
## note on require -- does the same as library() but will continue executing submitted code

### try using gtsummary --
reset_gtsummary_theme()
# theme_gtsummary_journal(journal = "jama")
theme_gtsummary_compact()

dput(names(tab1))

c("Name", "Team", "GS", "G", "IP", "W", "L", "QS", "SV", "HLD",
  "H", "ER", "HR", "SO", "BB", "K.9", "BB.9", "K.BB", "HR.9", "AVG",
  "WHIP", "BABIP", "LOB.", "ERA", "FIP", "ADP", "division", "POS"
)

vars_tab1 <- c("Team", "IP", "W", "L", "SV", "K.9", "BB.9", "K.BB", "ERA", "WHIP")

tab1 %>%
  dplyr::select(vars_tab1) %>%
  gtsummary::tbl_summary(by=Team,
    type = list(c("IP", "W", "L", "SV", "K.9", "BB.9", "K.BB", "ERA", "WHIP") ~ "continuous",
      # statistic = list(c("ConnectivityZscore") ~ "{median} [{p25}, {p75}]"
      #
    ),
    missing_text = "Missing",
    label = list(IP ~ "Innings Pitched",
      W ~ "Wins",
      L ~ "Losses",
      SV ~ "Saves",
      K.9 ~ "Strikeouts per 9 innings",
      BB.9 ~ "Walks per 9 innings",
      K.BB ~ "Strikeouts per walk",
      ERA ~ "Earned Run Average",
      WHIP ~ "Walks + Hits per inning pitched"
    )
  ) %>%
  add_stat_label() %>%
  modify_spanning_header(all_stat_cols() ~ "**Team**") %>%
  add_difference(everything() ~ "smd") %>%
```

```
modify_column_hide(columns=ci)
```

Characteristic	LAD, N = 12	SFG, N = 6	Difference
Innings Pitched, Median (IQR)	112 (91, 123)	86 (66, 129)	0.07
Wins, Median (IQR)	8 (6, 10)	6 (4, 7)	0.43
Losses, Median (IQR)	5 (4, 6)	4 (4, 6)	-0.13
Saves, Median (IQR)	0 (0, 1)	1 (0, 2)	-0.29
Strikeouts per 9 innings, Median (IQR)	9.29 (8.72, 10.16)	9.38 (7.84, 11.14)	0.00
Walks per 9 innings, Median (IQR)	2.90 (2.52, 3.29)	3.18 (2.28, 3.90)	-0.20
Strikeouts per walk, Median (IQR)	3.24 (2.67, 3.66)	3.09 (2.71, 3.41)	0.24
Earned Run Average, Median (IQR)	3.72 (3.57, 4.38)	3.90 (3.71, 3.97)	0.22
Walks + Hits per inning pitched, Median (IQR)	1.17 (1.15, 1.30)	1.27 (1.24, 1.33)	-0.81

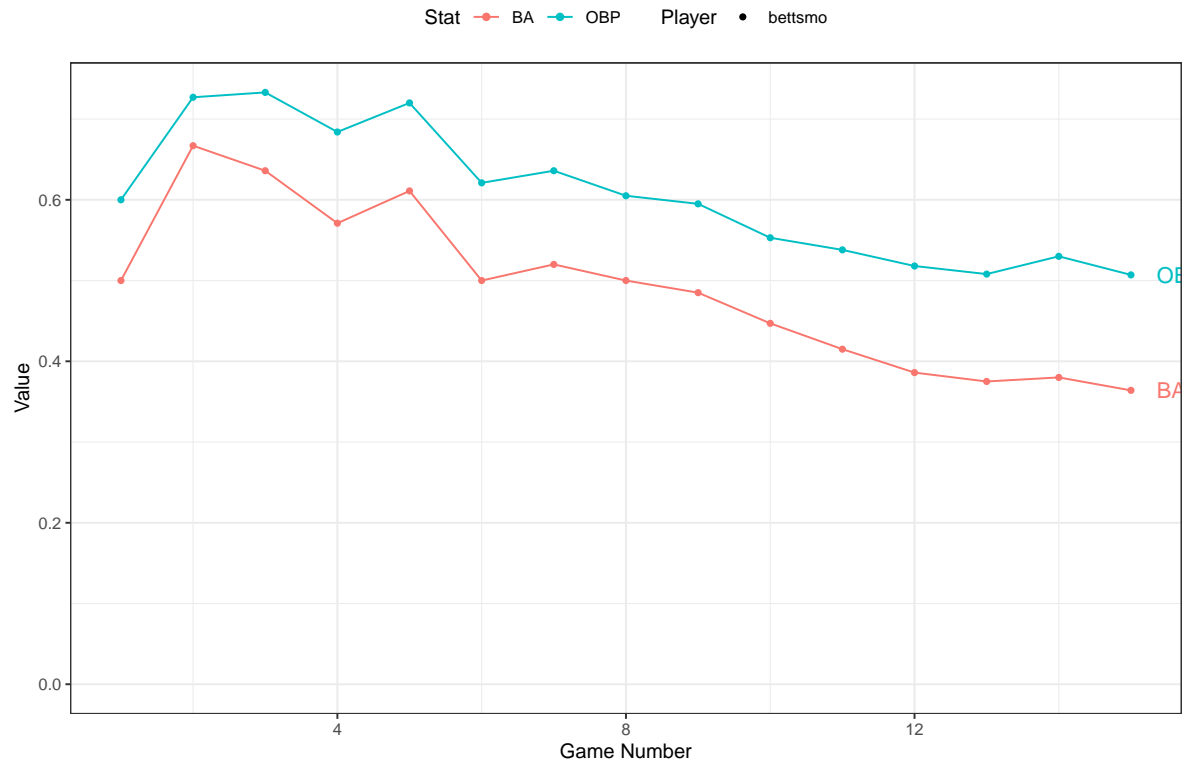
Create separate tabs for different tables/figures/text

- set up function for plots
 - jl steal what we did in session3_advancedR.qmd

Tab 1: Mookie Betts

Plot BA and OBP

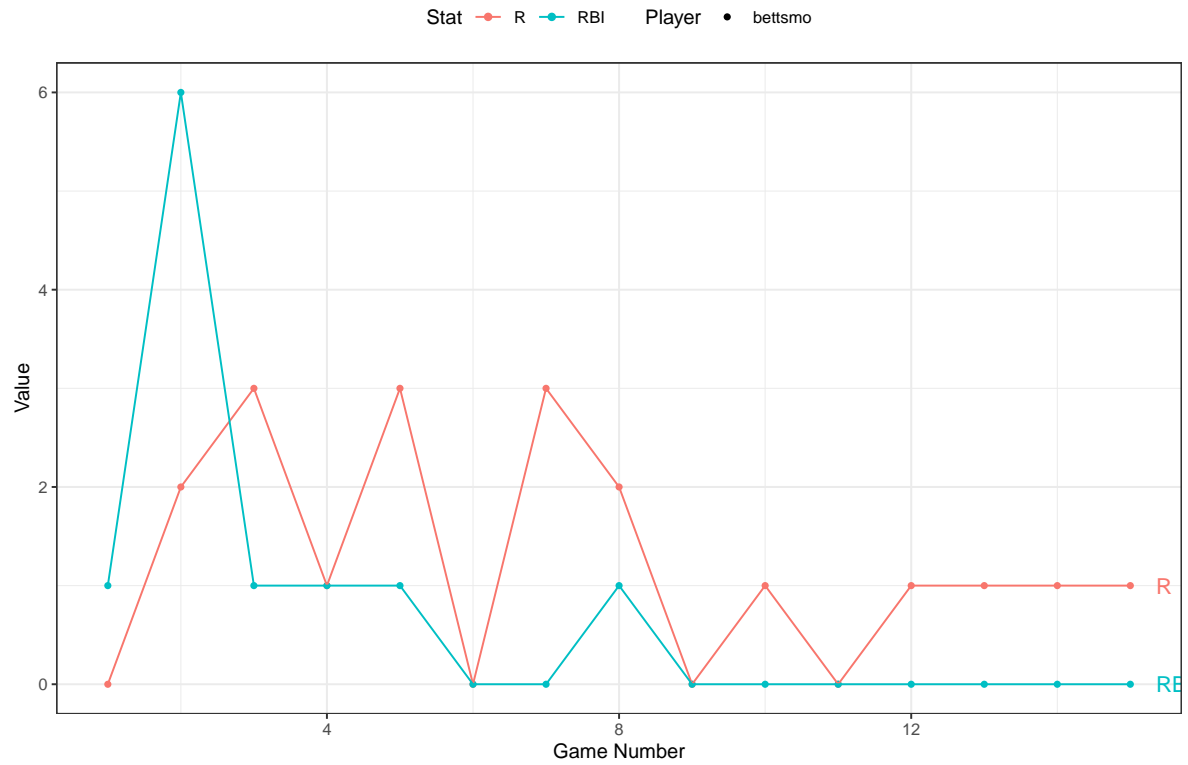
```
## now call the function with my parameters of choice:
plot.stat(data=df_gamelog_long, player_var = c("bettsmo"), stat_var = c("BA", "OBP"))
```



Plot R and RBI

- fdsajiopgwjpw

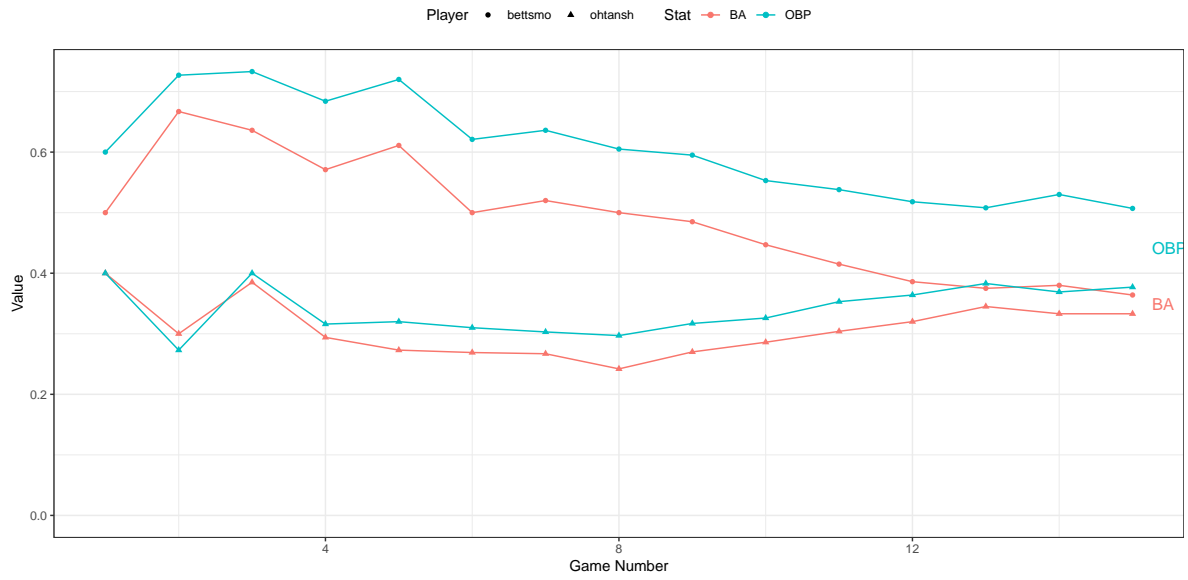
```
## now call the function with my parameters of choice:
plot.stat(data=df_gamelog_long, player_var = c("bettsmo"), stat_var = c("R", "RBI"))
```



Tab 2: Mookie Betts and Shohei Ohtani

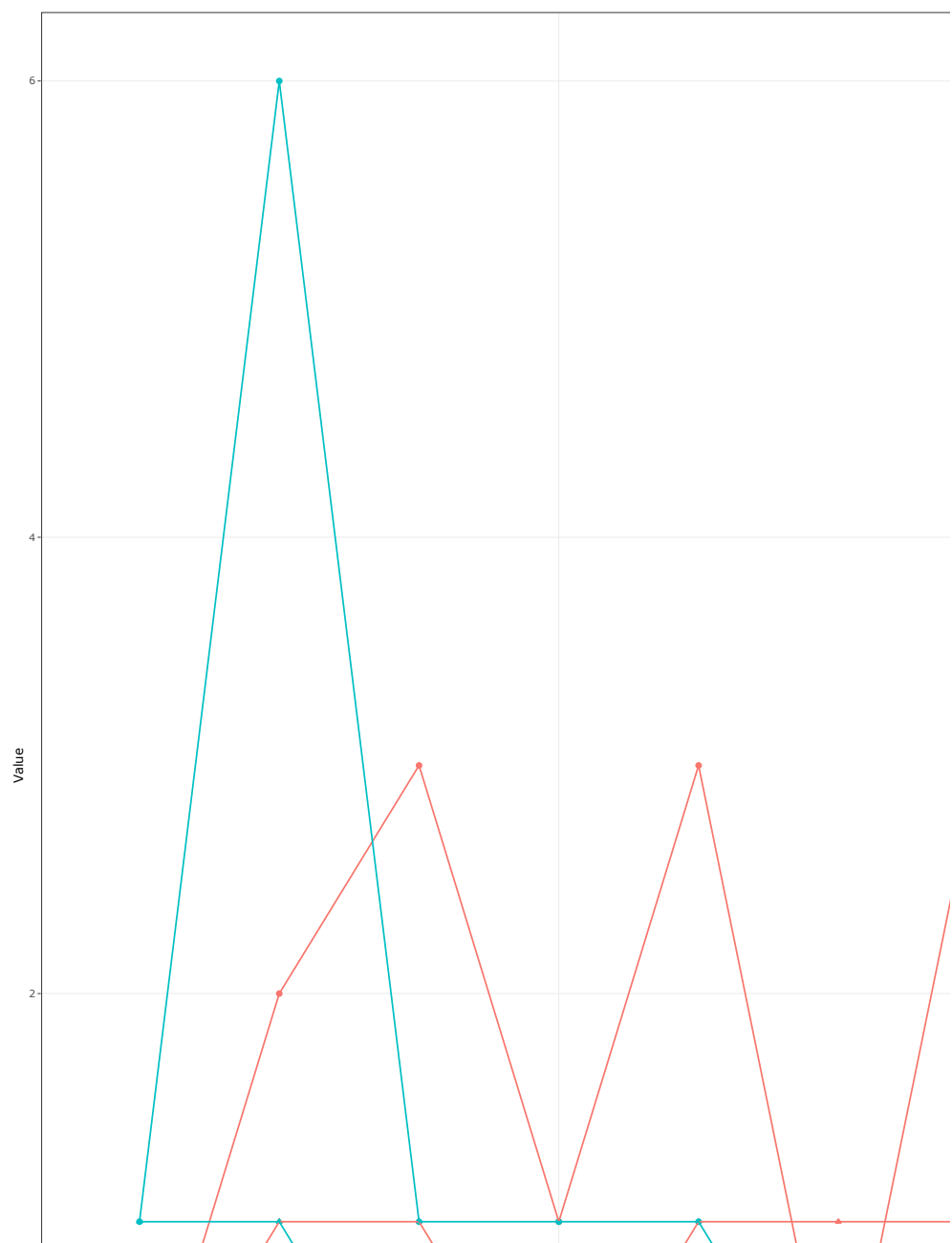
Plot BA and OBP

- jl note direct label getting cut off, up the fig-width for this code chunk



Something other than the plot.stat function

- turn this into a plotly
 - `plotly::ggplotly()`



try to get a Shiny plot to filter by any id? – in progress

- jl this works in Viewer, but Shiny code needs to be hosted somewhere so won't show up in the html output
- in YAML need to set server: shiny

jl testing iframe to sneak in Shiny app into Quarto html file?

Quarto

Quarto enables you to weave together content and executable code into a finished document. To learn more about Quarto see <https://quarto.org>.