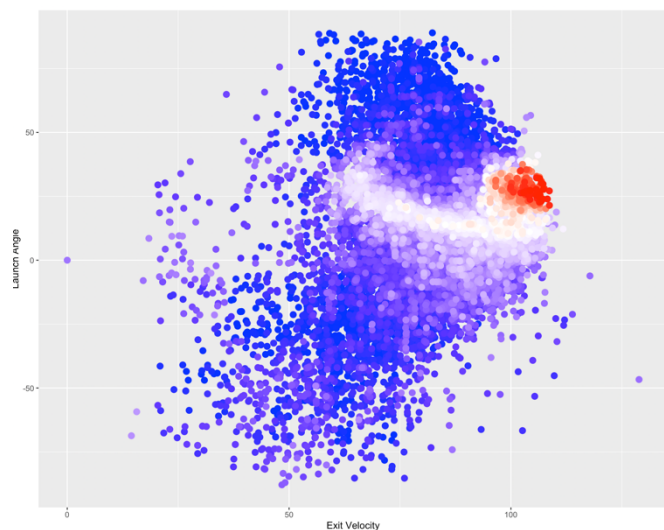
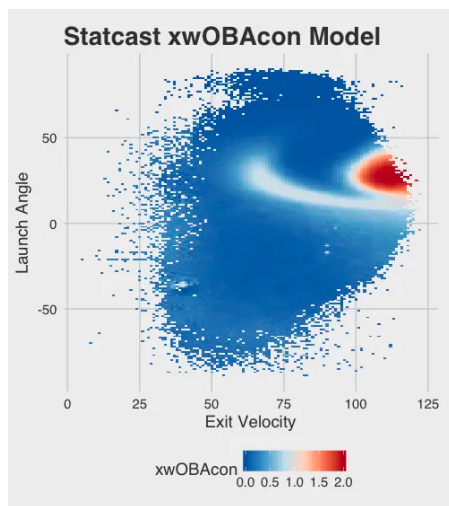


Work Sample

This is the Trackman Baseball Data Visualizer I built in summer during my intern in Brothers Professional Baseball Team. This app plays a crucial role in the pre-game meetings where coaching staffs and players discuss strategies.

One notable feature is the “Expected weighted on-base average”, or “xwoba.” This stat is an official stat in Major League Baseball but no teams in Taiwan had yet to be able to generate. I was able to create a similar model and it has helped the coaches better evaluate players. (The one on the right is my model)



The visualizer and the model can both be found on my github page:

https://github.com/byw-5/Trackman_baseball_visualizer

<https://github.com/byw-5/expected-wOBA>

Trackman Baseball Data Visualizer

Pitch-by-pitch Grpahs

Strike Zone Graphs

Spray Charts

Estimated Zone for Umpires

Select a pitcher

De Paula, Jose

Select a batter

All batters

Pitch types:

FFCHCR

Pitcher throws:

☒ Left☒ Right

Batter stand:

☒ Left☒ Right

Strikes:

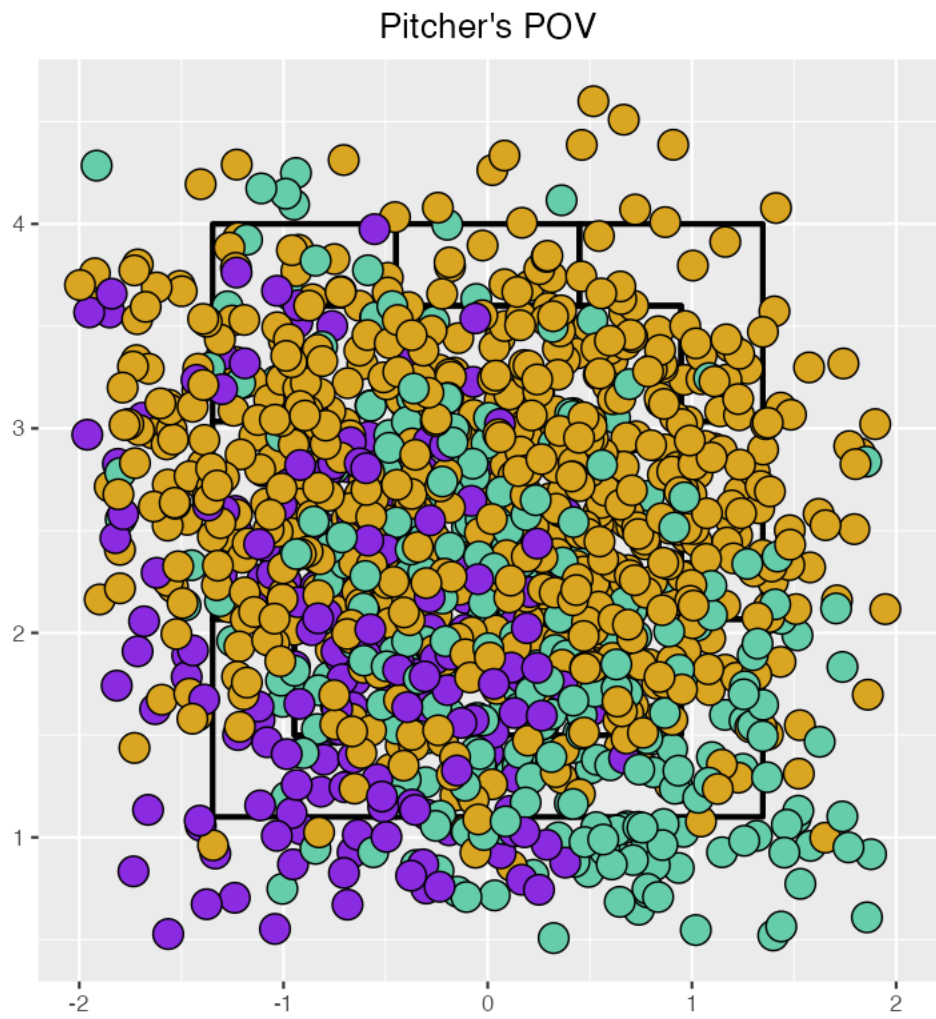
☒ 0☒ 1☒ 2

Balls:

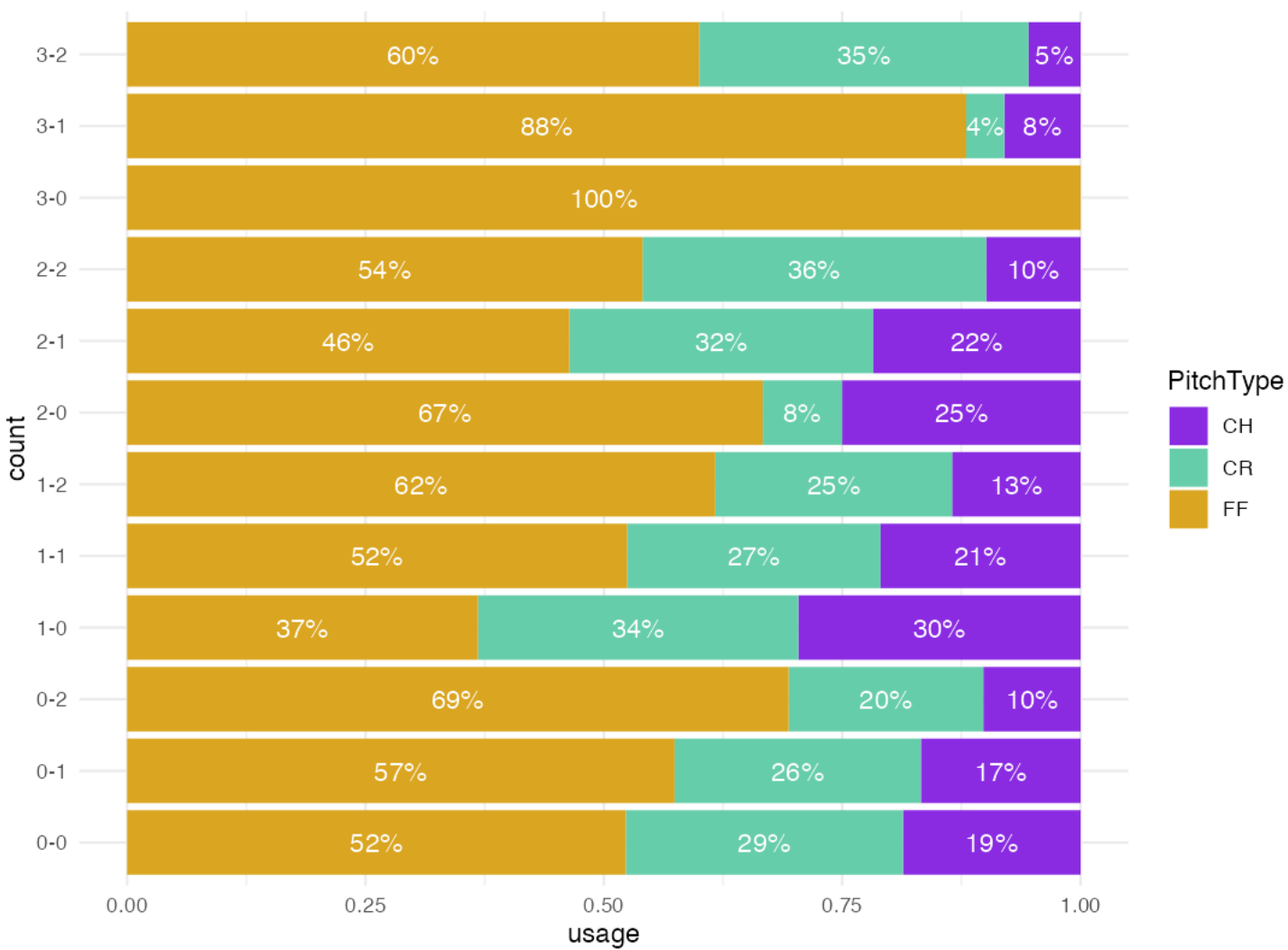
☒ 0☒ 1☒ 2☒ 3

Apply filter

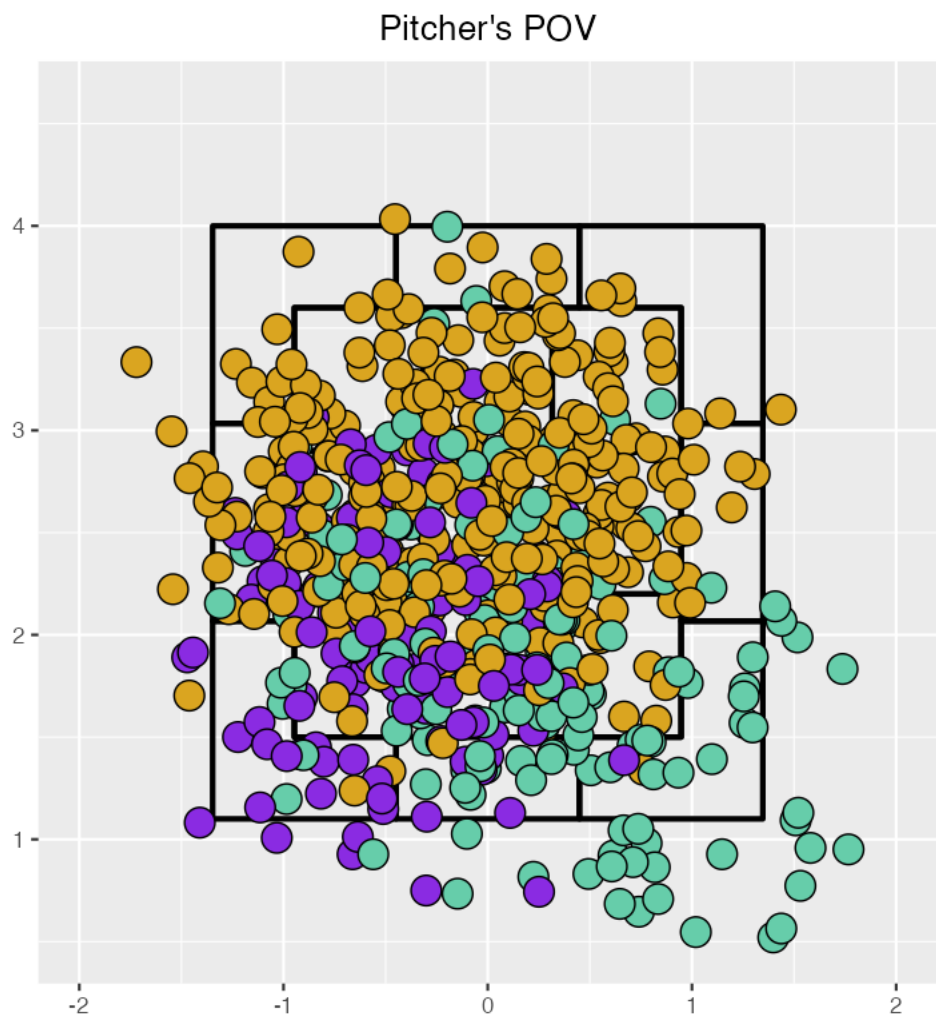
All Pitches



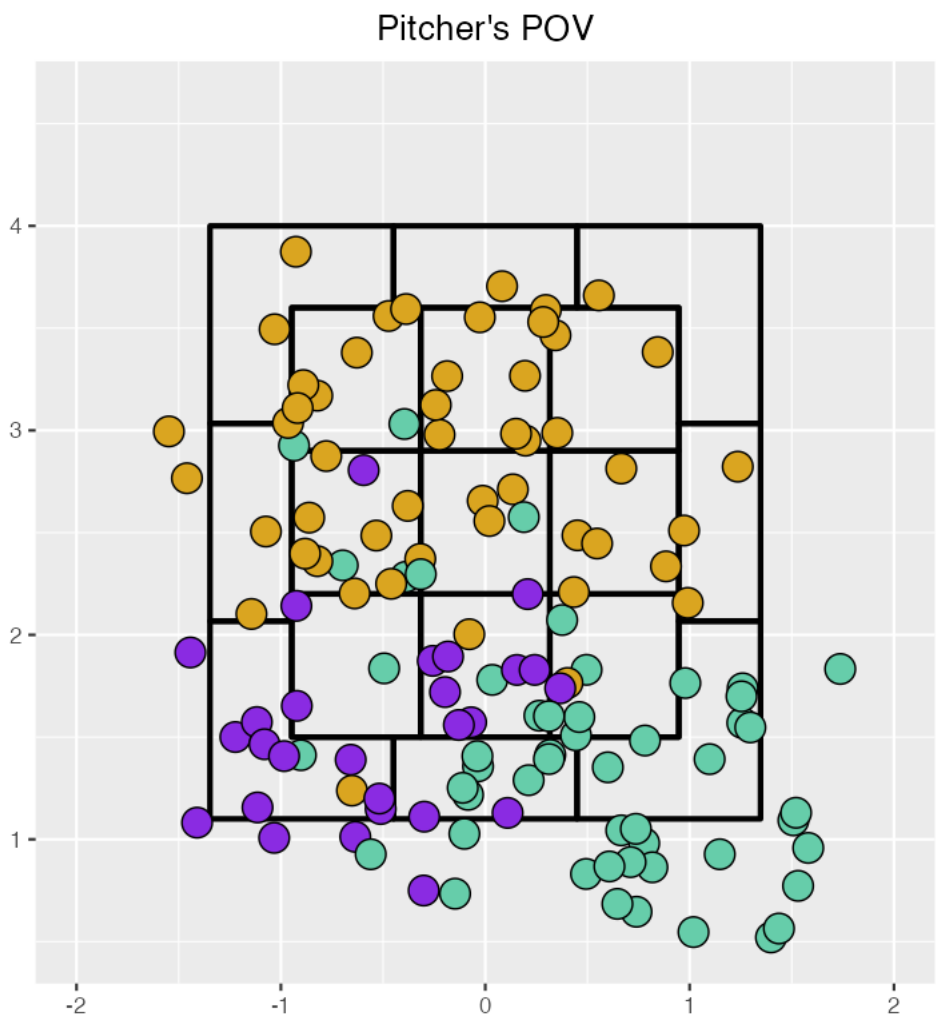
Pitch Type Percentage



All Swings



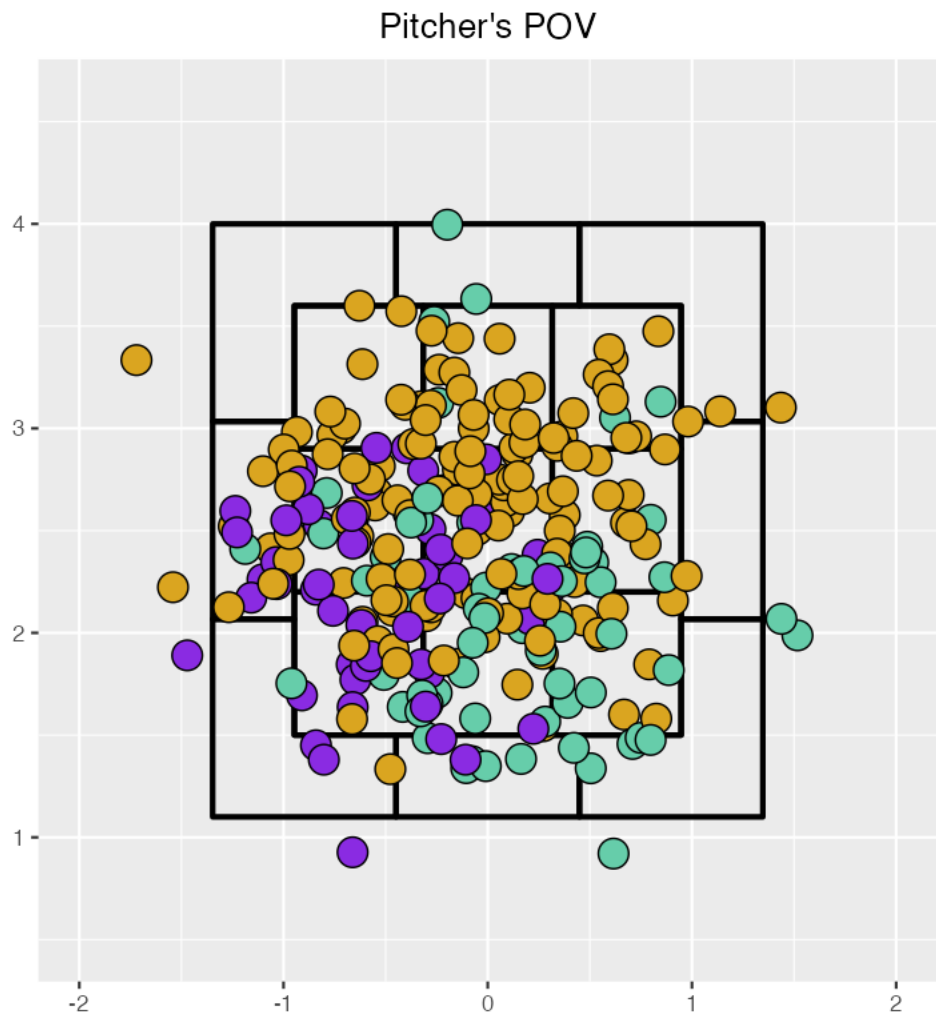
All Whiffs



Every Ball-in-play

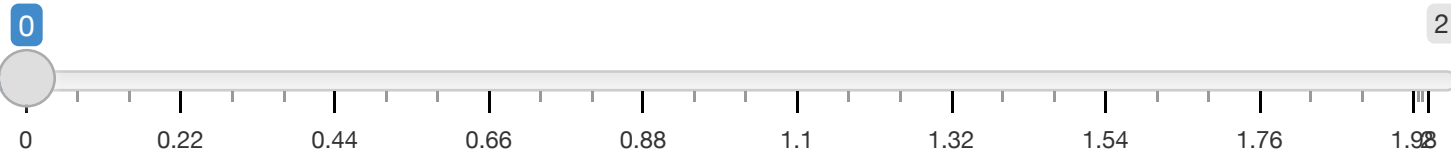
Ball-in-play outcomes:

Non-hitSingleDoubleTripleHomeRun

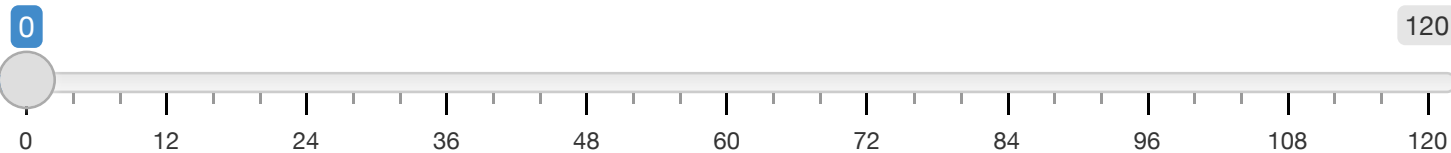


Batted Ball Profile Filters

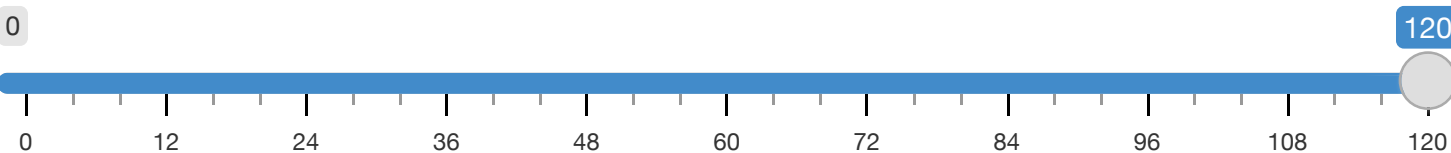
XWOBA >=



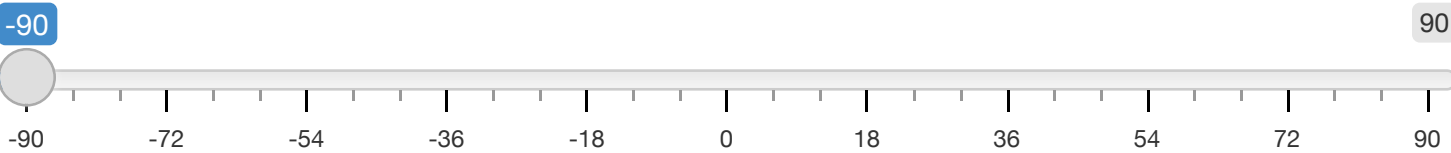
Exit velocity >=



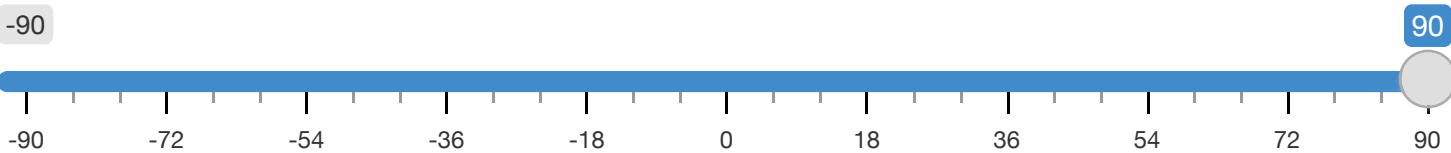
Exit velocity <



Launch angle >=



Launch angle <



Pitch-by-pitch Grpahs

Strike Zone Graphs

Spray Charts

Estimated Zone for Umpires

Select a pitcher

De Paula, Jose

▼

Select a batter

All batters

▼

Pitch types:

FFCHCR

Pitcher throws:

☒ Left☒ Right

Batter stand:

☒ Left☒ Right

Strikes:

☒ 0☒ 1☒ 2

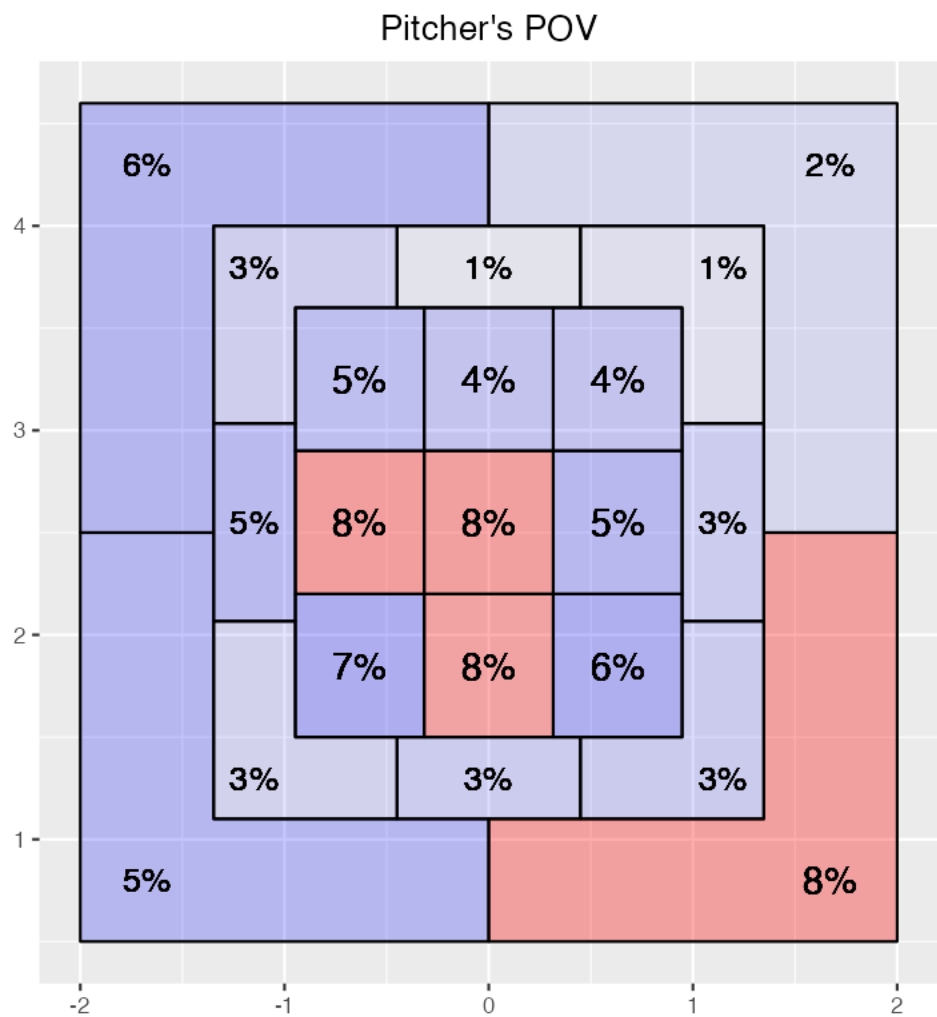
Balls:

☒ 0☒ 1☒ 2☒ 3

Apply filter

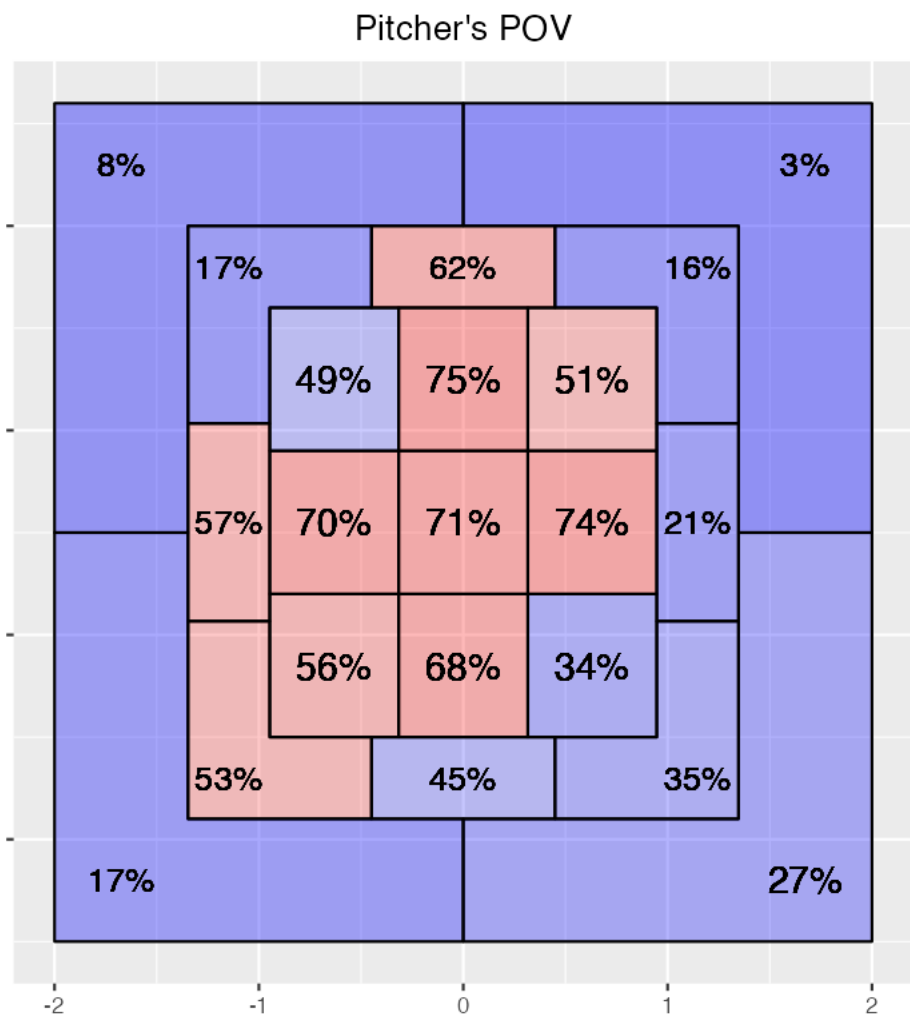
Graph type:

☒ Pitch%☐ Swing%☐ Whiff%



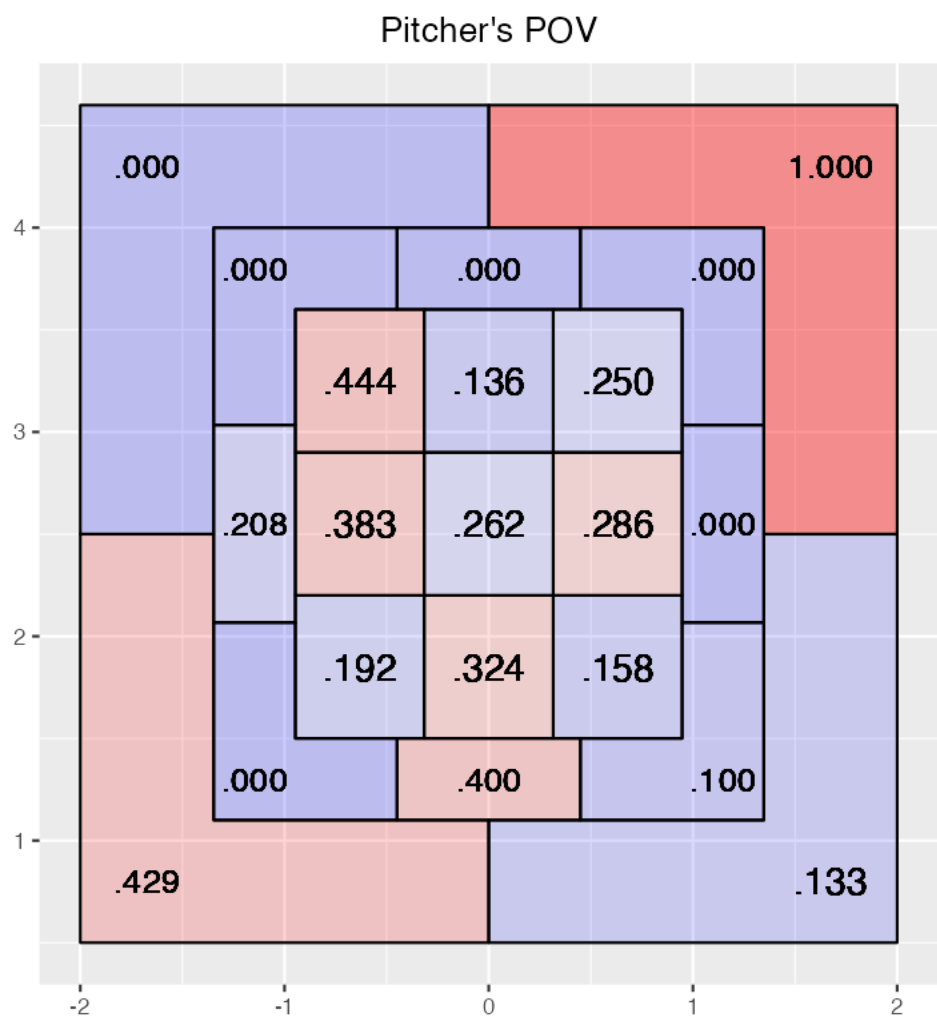
Graph type:

☐ Pitch%☒ Swing%☐ Whiff%



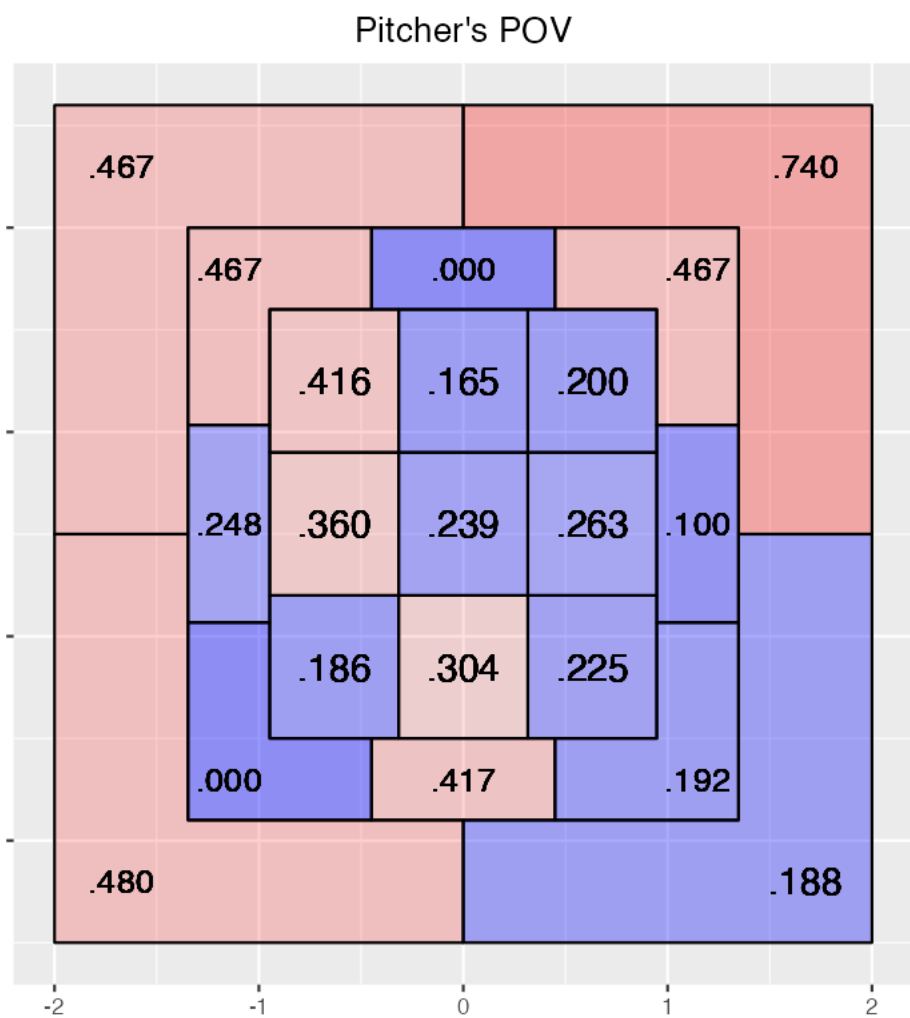
Graph type:

☒ AVG☐ OPS☐ wOBA☐ xwOBA



Graph type:

☐ AVG☐ OPS☒ wOBA☐ xwOBA



Pitch-by-pitch Grpahs

Strike Zone Graphs

Spray Charts

Estimated Zone for Umpires

Select a pitcher

De Paula, Jose ▼

Select a batter

All batters ▼

Pitch types:

FF CH CR

Pitcher throws:

☒ Left ☒ Right

Batter stand:

☒ Left ☒ Right

Strikes:

☒ 0 ☒ 1 ☒ 2

Balls:

☒ 0 ☒ 1 ☒ 2 ☒ 3

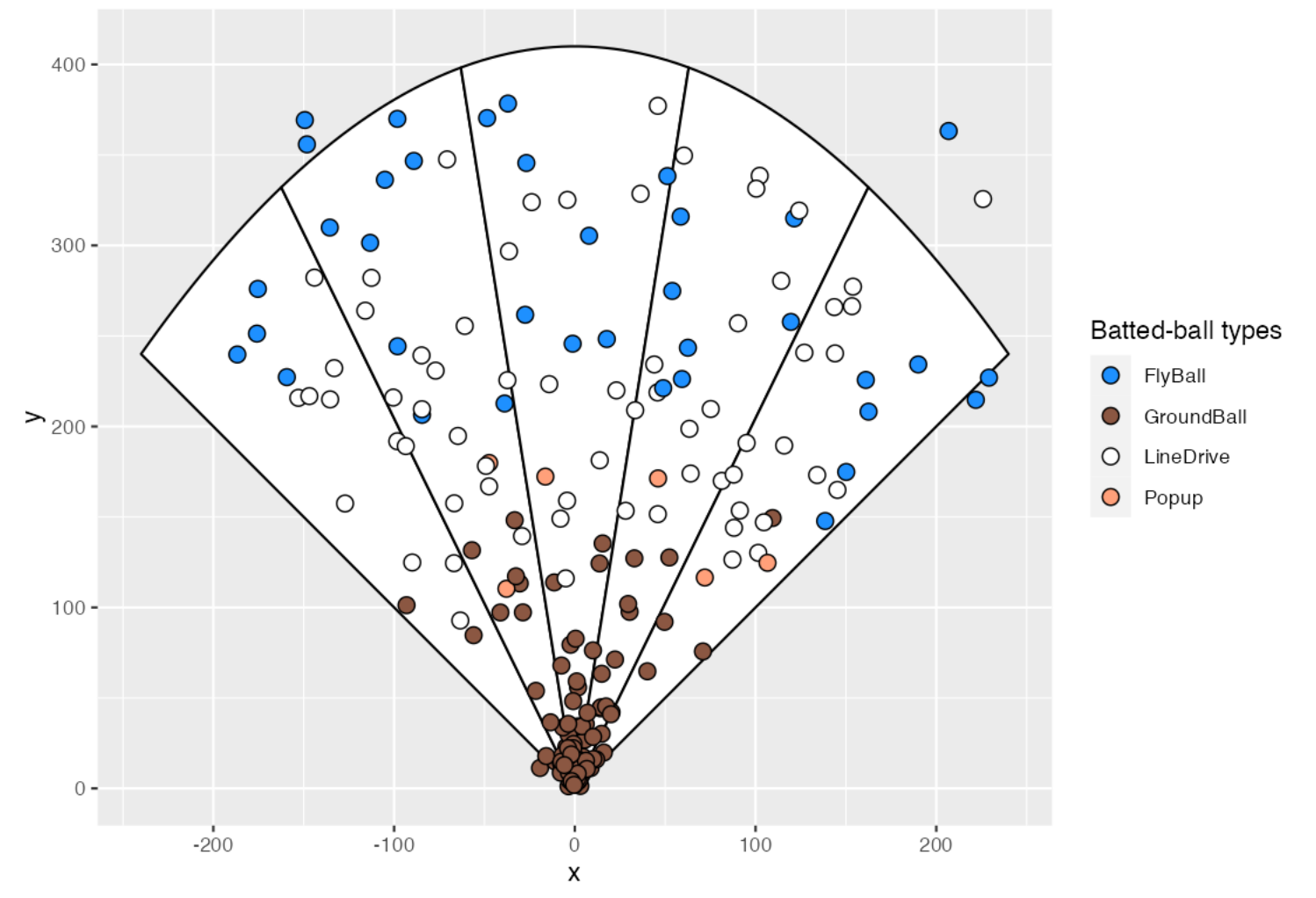
Apply filter

Ball-in-play outcomes:

Non-hit Single Double Triple HomeRun

Part of the plate:

☒ Inside ☒ Outside

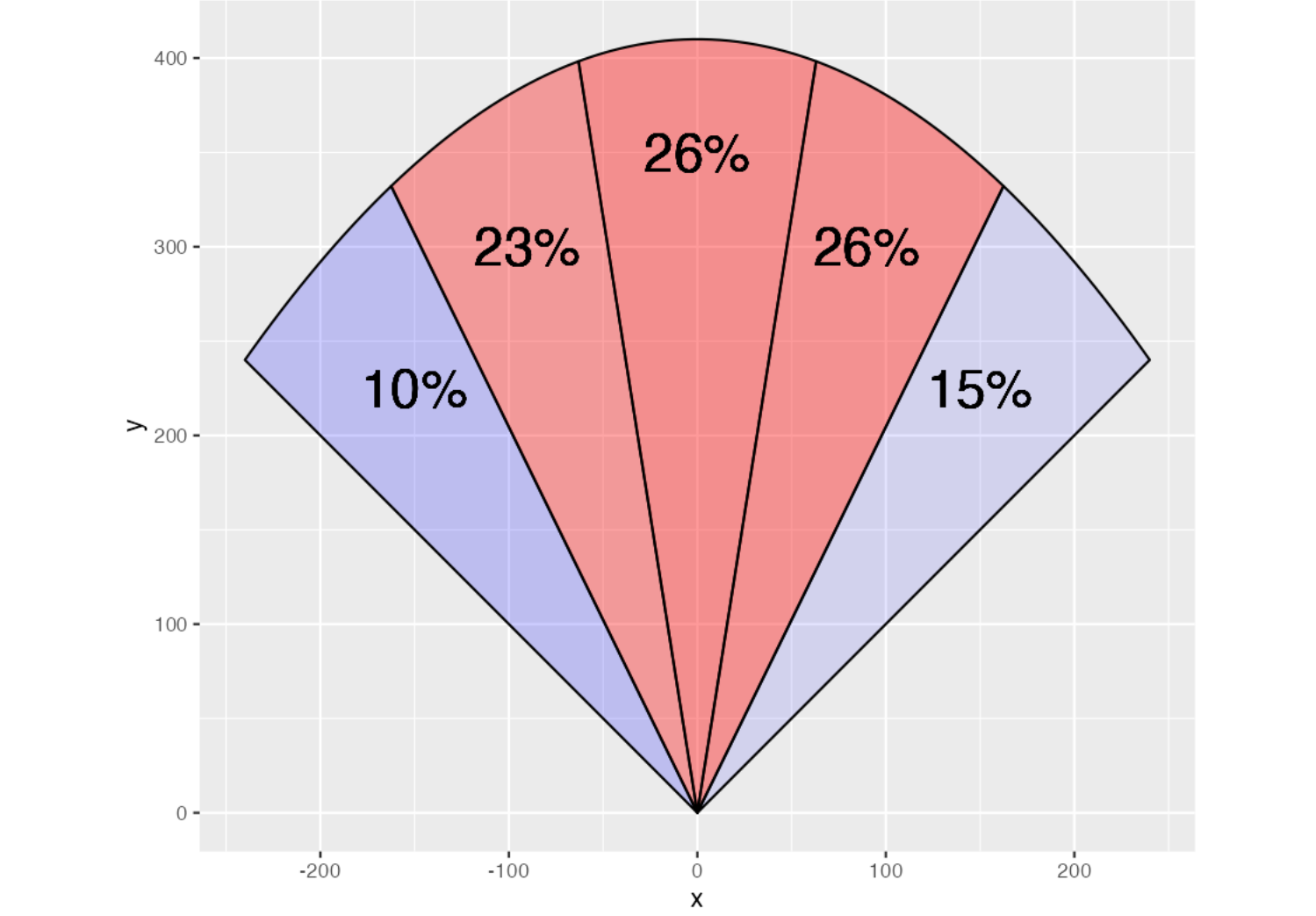


Batted-ball types:

GroundBall LineDrive FlyBall Popup

Part of the plate:

☒ Inside ☒ Outside



Pitch-by-pitch Grpahs

Strike Zone Graphs

Spray Charts

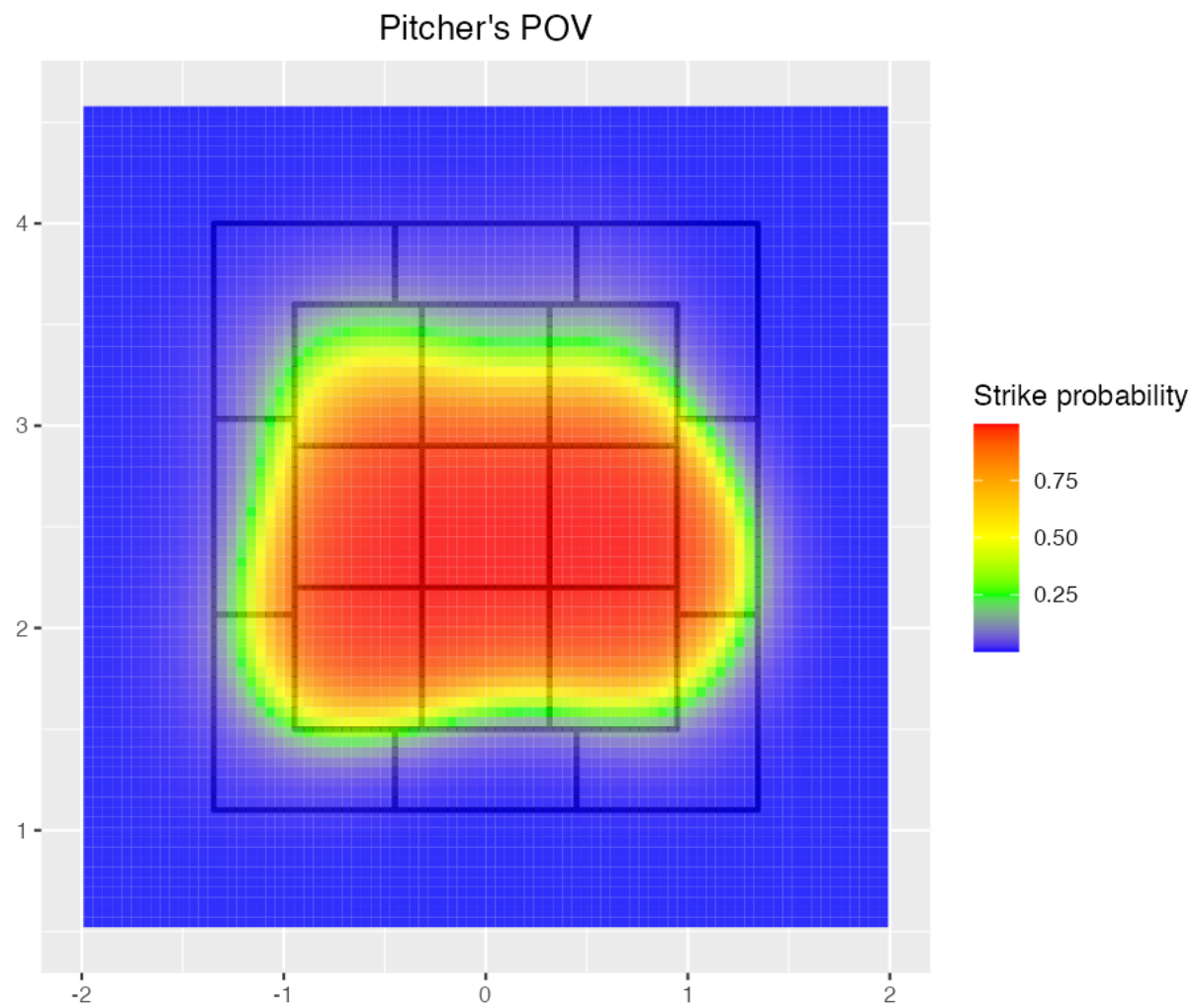
Estimated Zone for Umpires

Select an umpire

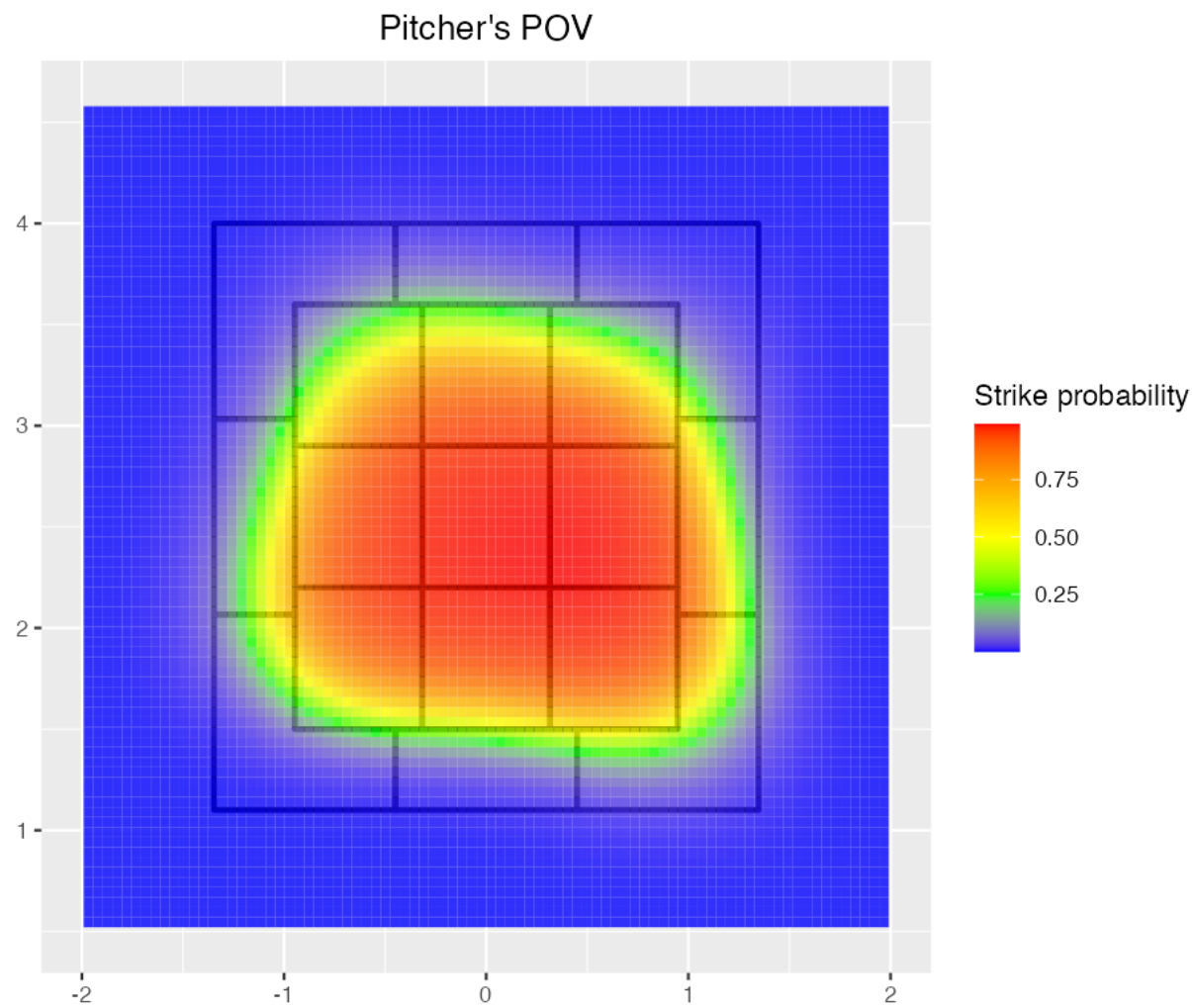
尤志欽

▼

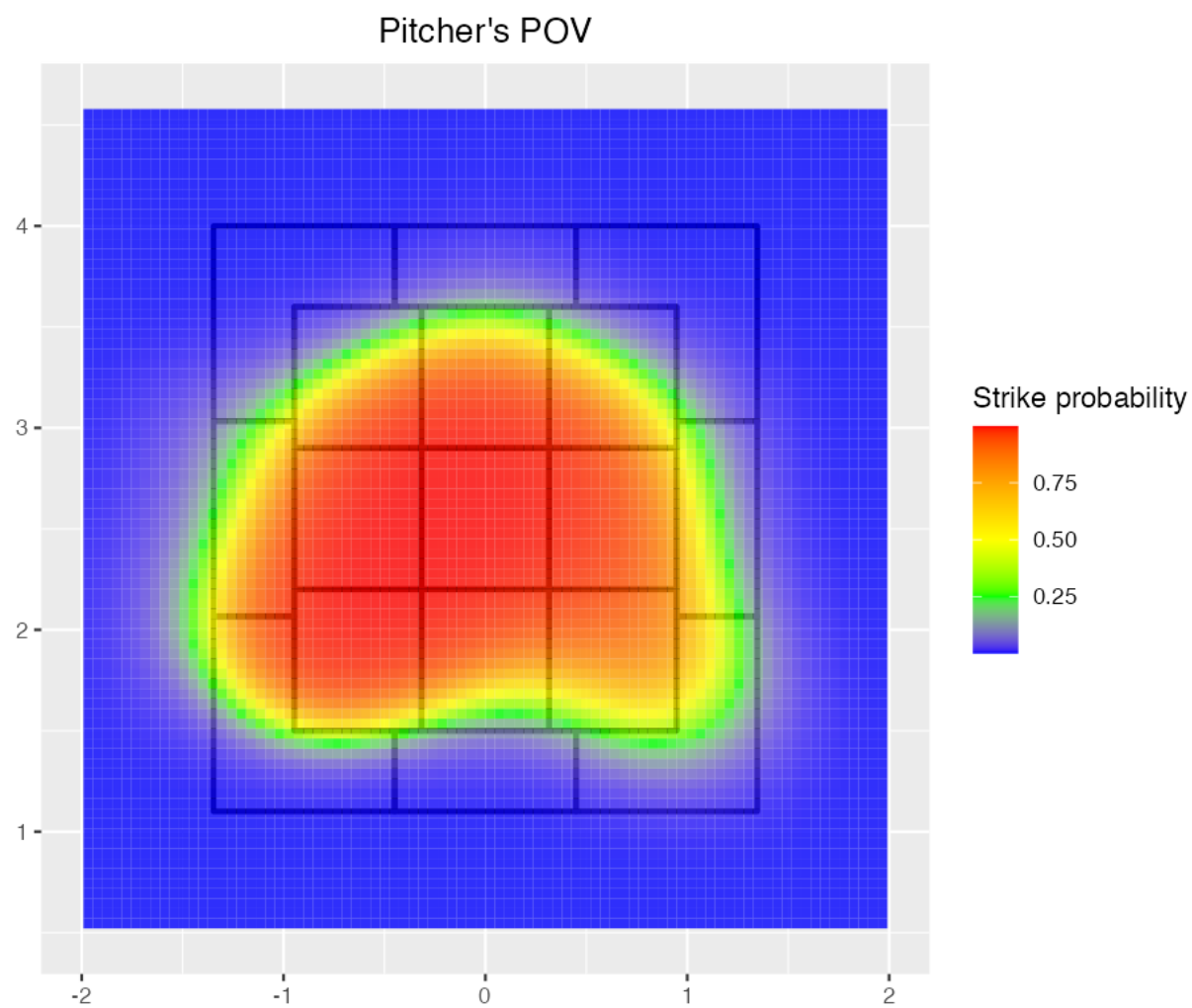
LH Batter, Fastball



LH Batter, Non-fastball



RH Batter, Fastball



RH Batter, Non-fastball

