

# Rafael Devers & Gerrit Cole Career Stats

Rafael Devers, 2017-

1012 Hits

195 HR

.281 AVG/.346 OBP/.516 SLG

.862 OPS, 127 OPS +

2x All Star ('21, '22)

WS Champion ('18)

Silver Slugger ('21)

Gerrit Cole, 2013-

146W - 76L

3.19 ERA

1888 IP/2186 SO

1.09 WHIP

6x All Star

Cy Young Award Winner ('23)

3x MLB All First Team ('19, '21, '23)

## Rafael Devers vs. Gerrit Cole

**Base Stats (Career)** 

15 G, 48 PAs, 43 AB

14 H, 9 XBH

.341 AVG/.438 OBP./.951 SLG/1.389 OPS

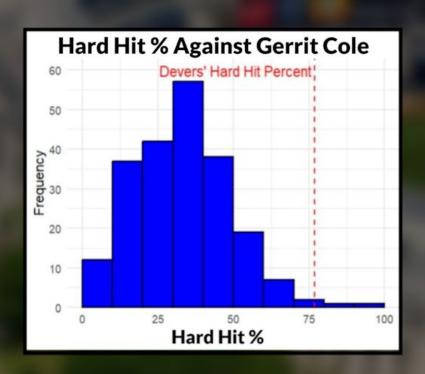
8 HR, 19 RBI

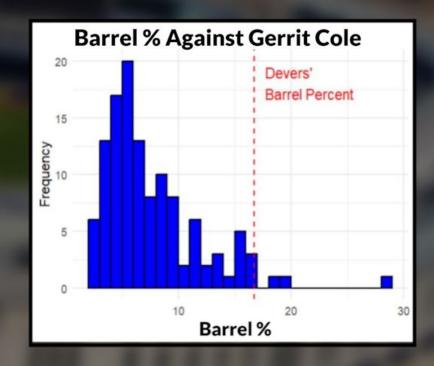
5 BB/15 SO

Note: Reg. Season OPS = 1.370, Postseason OPS = 1.300

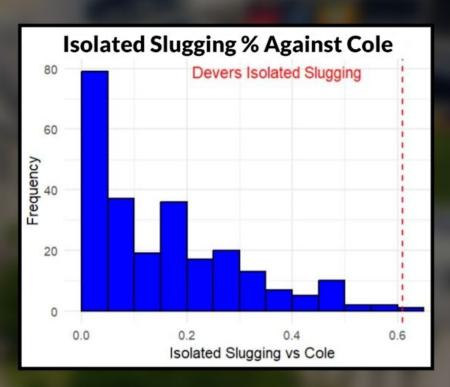
Simpson's Paradox!

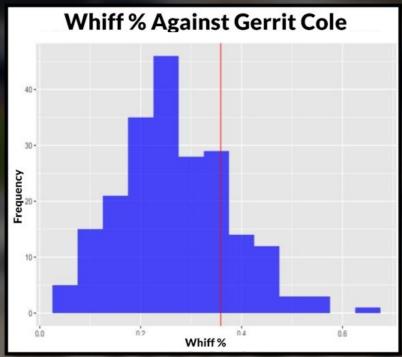
# **Advanced Stats**





# **Advanced Stats**







# **Null Hypothesis:**

Devers' success against Cole is unsustainable, and largely due to luck.

# **Alternative Hypothesis:**

Devers' Success Against Cole is grounded in skill, and is sustainable.

# Permutation Test: Set Up

**Players in Sample must:** 

Hit left-handed

Have 502 PA vs. Righties Since 2013

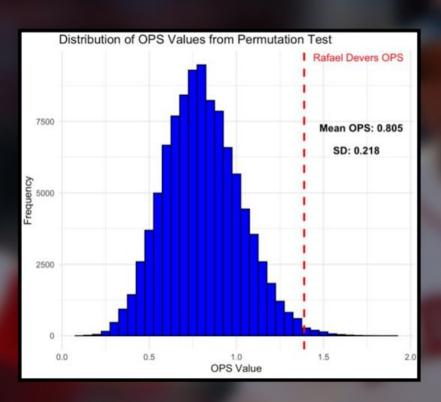
Be in the 95th percentile of OPS against righties (.857)

Have 5 PAs against Gerrit Cole

Note: Devers OPS against righies of .908 falls into the

97.8th percentile

# Permutation Test: Results (48 PA)



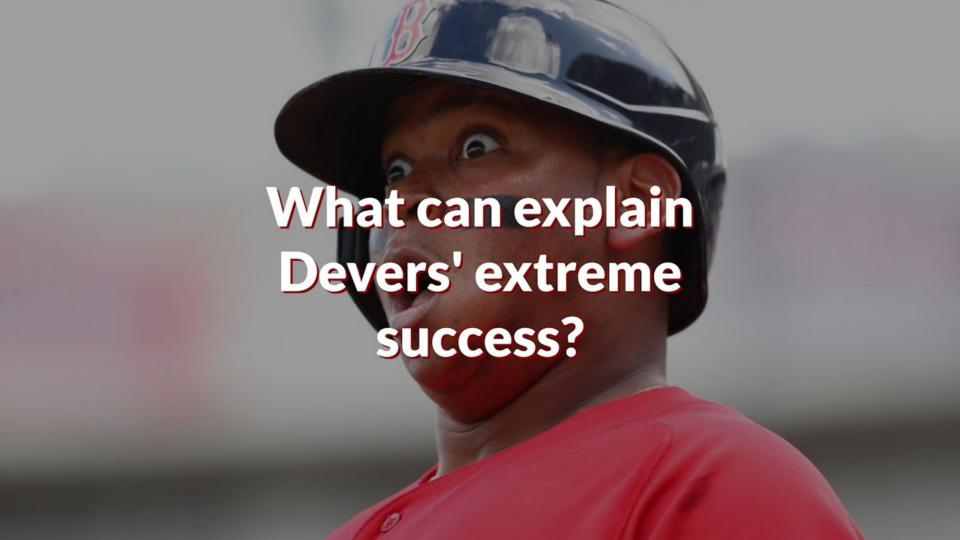
Mean OPS: .805

SD: 0.218

**Devers' OPS: 1.389** 

Devers' Z Score: 2.679

P Value: 0.0075 or 0.75%



### Devers vs. Cole's Fastball

50.2% usage

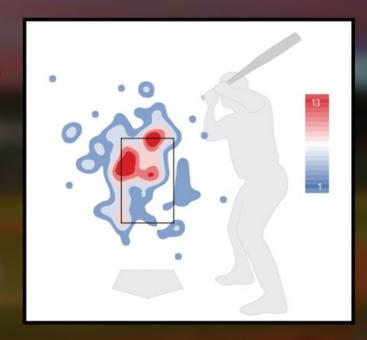
.316 AVG/.409 OBP /.947 SLG /1.356 OPS

6 hits against the fastball

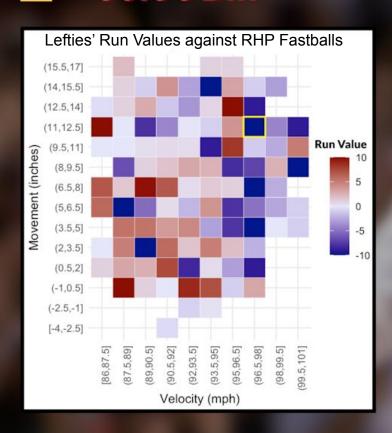
**AVG Exit Velocity: 103.4mph** 

Hard hit percent of 88.9%

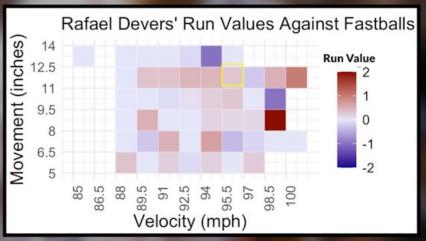
4 homers vs fastball



#### = Cole's Bin



# Devers Punishes Cole's Fastball



# Devers vs. Cole's Changeup

**17.1%** usage

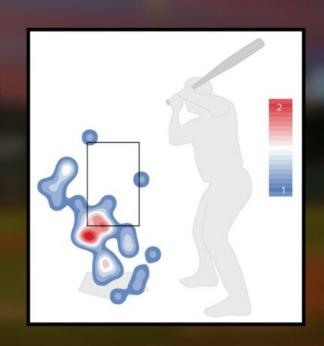
.556 AVG/.600 OBP /1.667 SLG /2.267 OPS

5 hits against the changeup

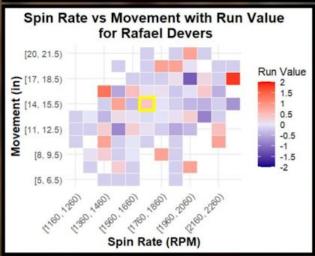
**AVG Exit Velocity: 97.3mph** 

Hard hit percent of 66.7%

3 homers vs changeup



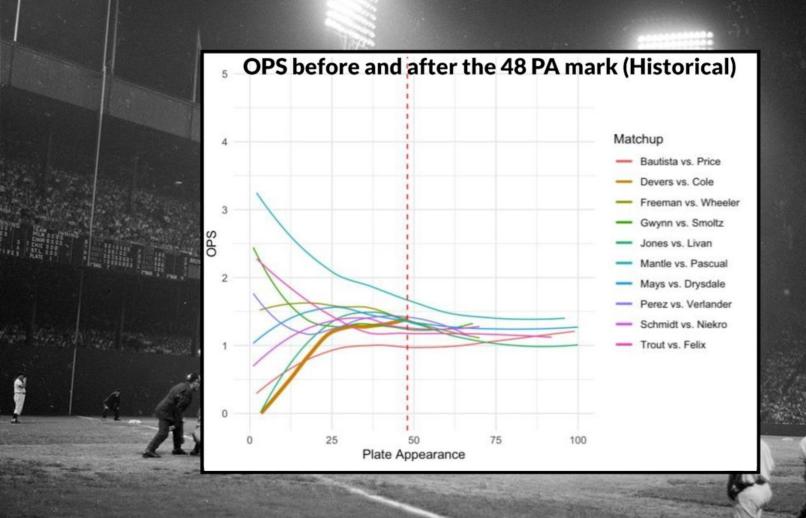
# Spin Rate vs Movement with Run Value for Lefties League Wide [23, 24.5) [17, 18.5) [14, 15.5) [14, 15.5) [8, 9.5) [5, 6.5) [5, 6.5] [7, 125] [8, 1



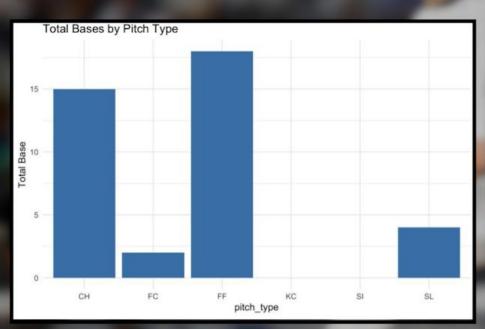
## Devers vs. Cole's Changeup

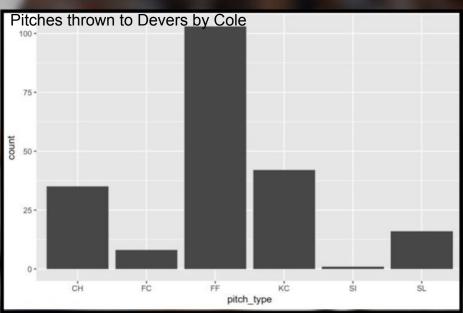
#### **Note:**

- Cole's Changeup Run Value (isolated from bin-mates): -6
- Devers Run Value against Cole's changeup (isolated from bin-mates): 6



# What Should Cole Do?





# Conclusion

Low p-value

Devers excels against Cole's fastball and changeup

Cole should look to attack Devers with his knuckle-curve

Historically, in similar examples, the hitters' OPS's have

not regressed

