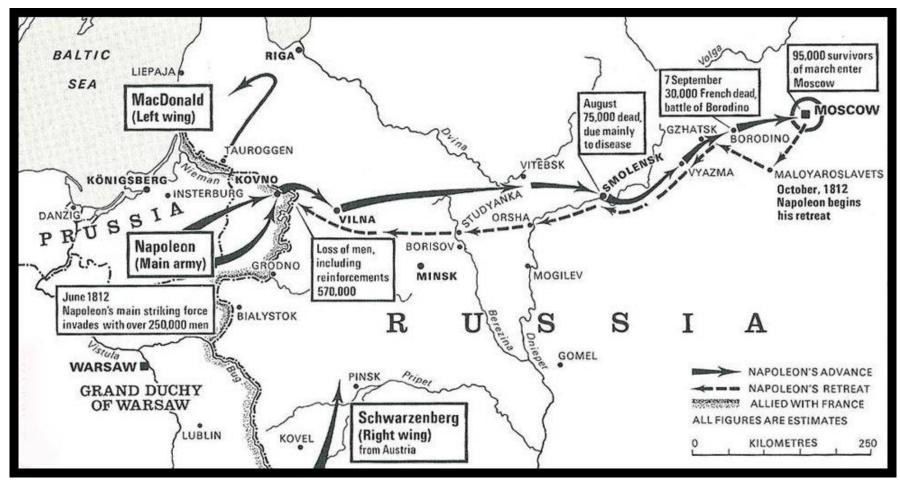
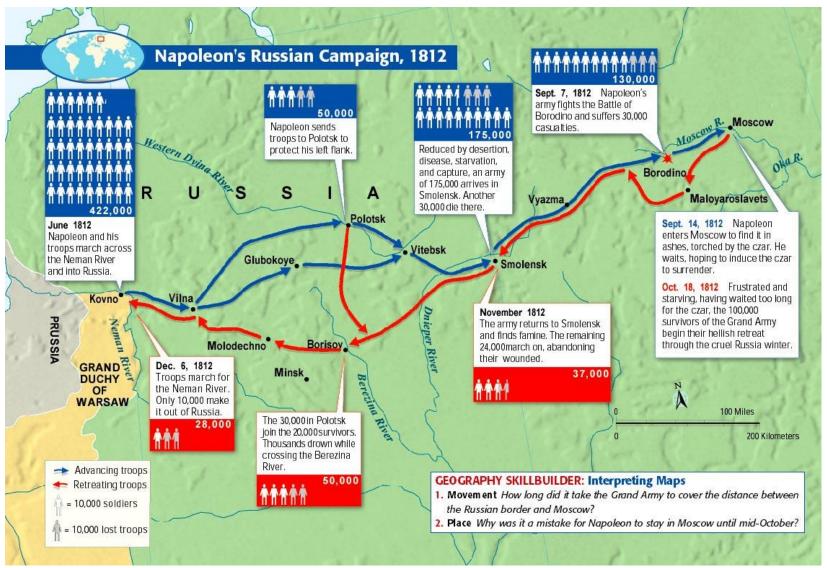
### 1.4 통계 자료를 이용한 예시

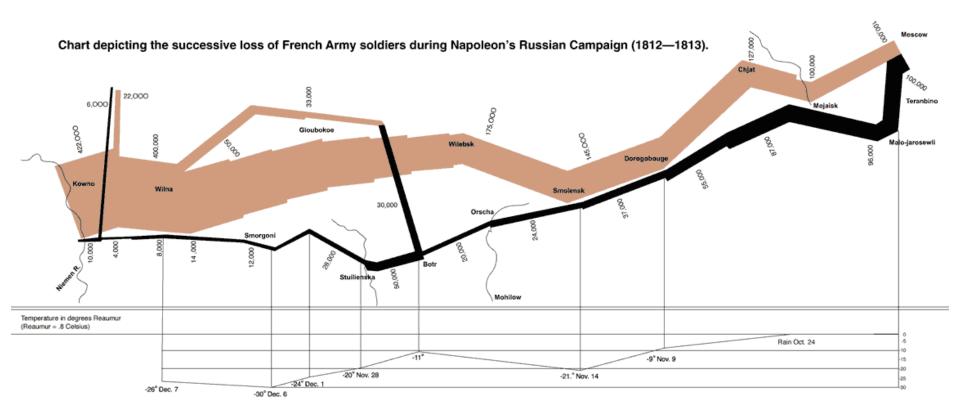
- 1) Napoleon Army's Russian Invasion in 1812
- 2) 야구통계: MLB 심판진의 인종편견
- 3) 실시간 선거개표: 2012년 한국 대통령 선거



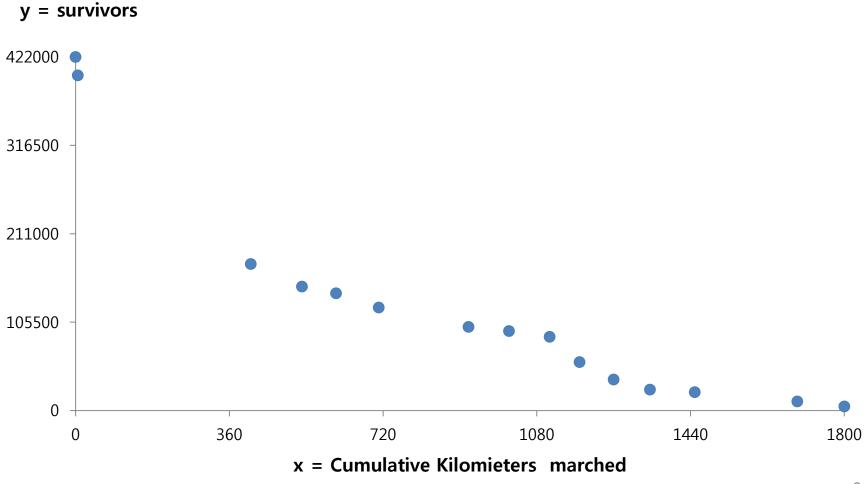


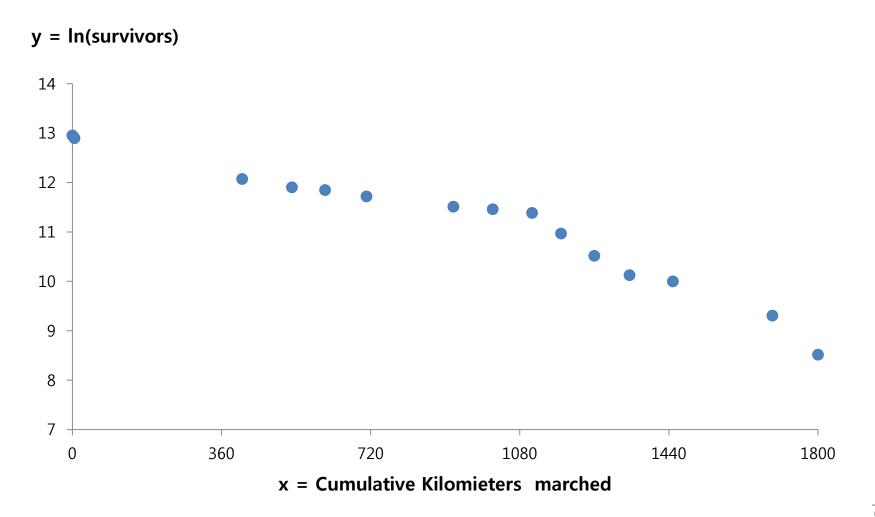
The armies of Napoleon Bonaparte concentrated where it is http://mathiassimon1829.blogspot.kr/2013/03/simon-nas-americas.html

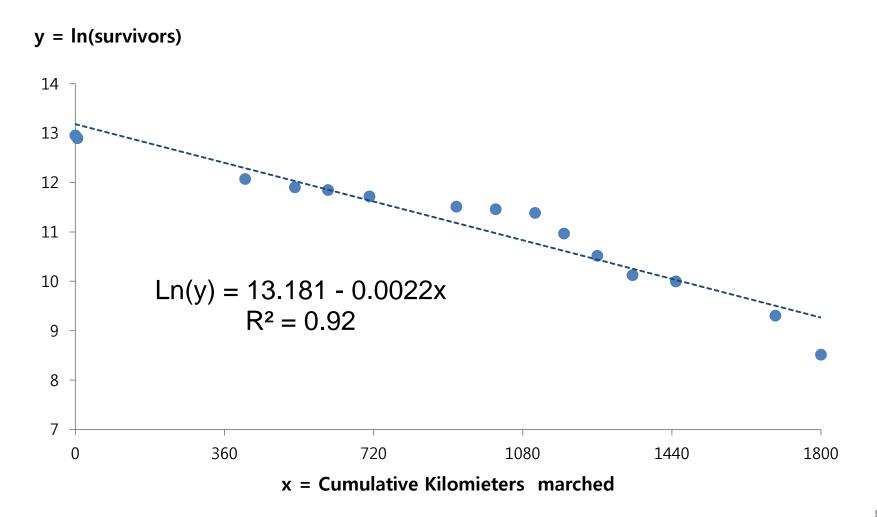


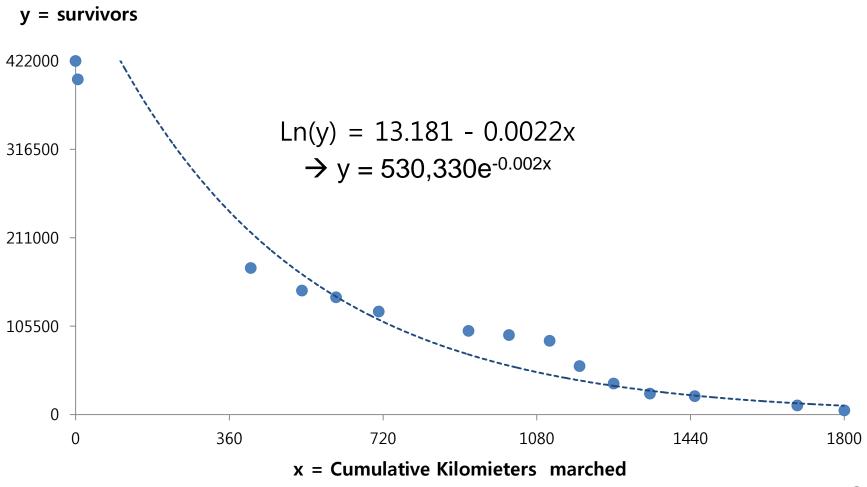


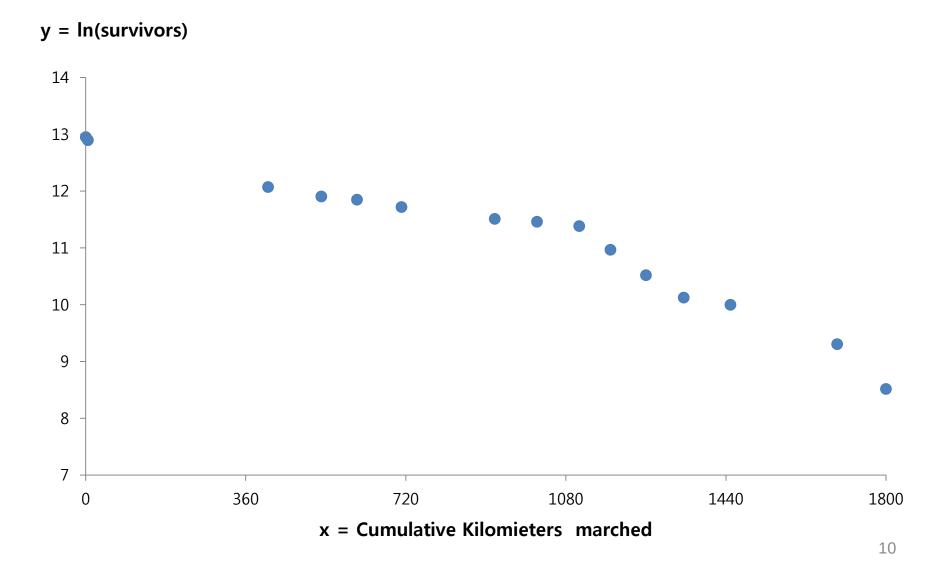
Russian Winter(Napoleon Army's Russian Invasion in 1812). https://en.wikipedia.org/wiki/Russian\_Winter

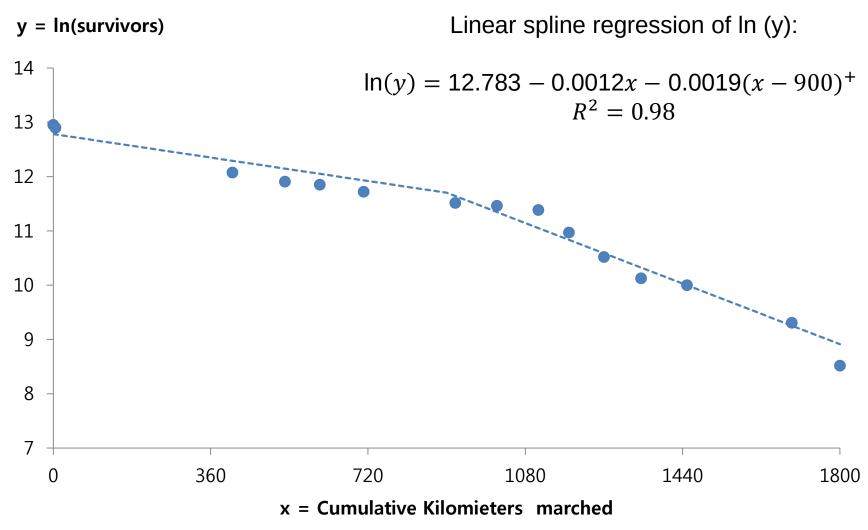


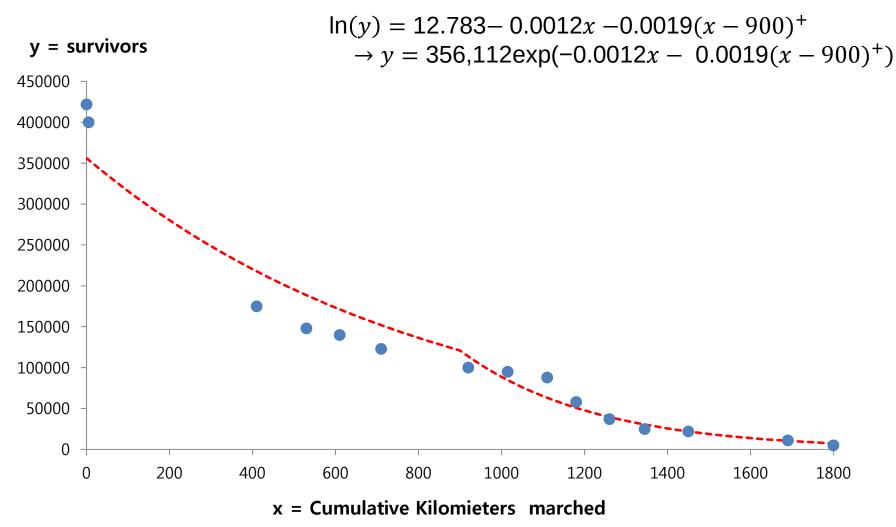












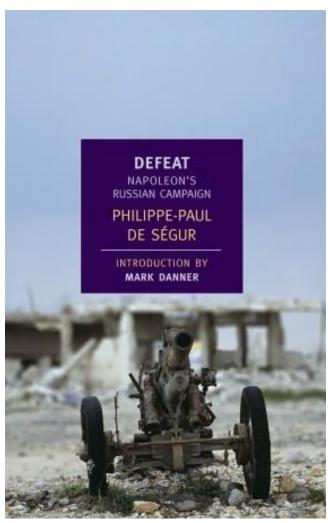


트렌턴 전투, 1975년 작, 찰스 맥배런 https://ko.wikipedia.org/wiki/%ED%8A%B8%EB%A0%8C%ED%84%B4\_%EC%A0%84%ED%88%AC

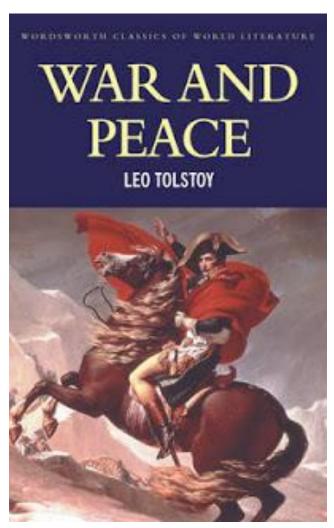


Retreat from Russia scene iii https://napoleon1812.wordpress.com/





Defeat http://www.nyrb.com/products/defeat?variant=1094929449

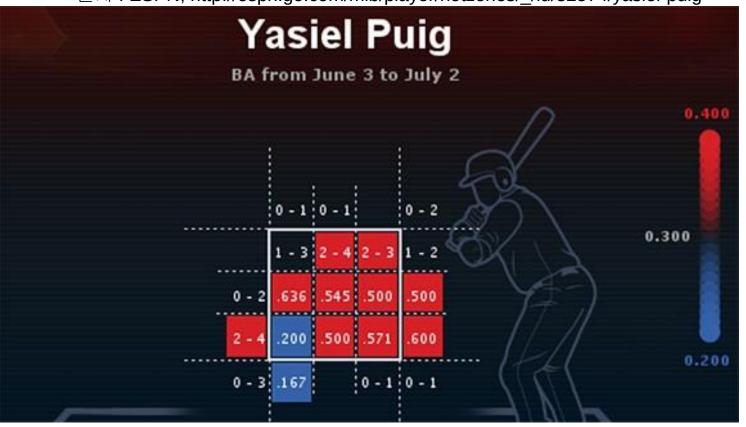


WAR AND PEACE http://www.abebooks.co.uk/9781840225556/Peace-Wordsworth-Classics-World-Literature-1840225556/plp

# 5. 야구 통계: Y. Puig 2013, LA Dodgers

The Explosive Start: June 3-July 2 (27 경기: 타율=.443, 출루율=.473)

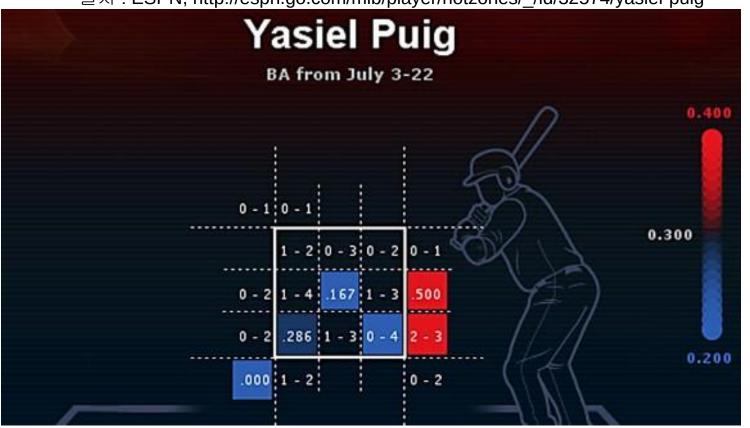
출처: ESPN, http://espn.go.com/mlb/player/hotzones/\_/id/32574/yasiel-puig



# 5. 야구 통계: Y. Puig 2013, LA Dodgers

The Slump: July 3-July 22 (15 경기: 타율=.220, 출루율=.266)

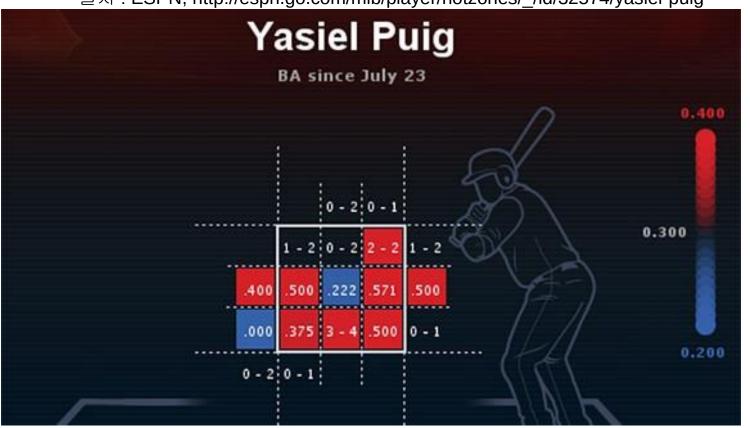
출처: ESPN, http://espn.go.com/mlb/player/hotzones/\_/id/32574/yasiel-puig



# 5. 야구 통계: Y. Puig 2013, LA Dodgers

The Adjustments: July 23~Aug. 18 (21 경기: 타율=.377, 출루율=.490)

출처: ESPN, http://espn.go.com/mlb/player/hotzones/\_/id/32574/yasiel-puig



## 2) 야구통계: MLB 심판진의 인종편견

#### Discrimination in Baseball: MLB Umpires, Racial Bias and Calling Strikes

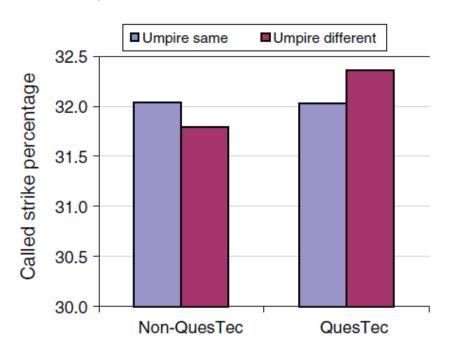
 C. Parsons, J. Sulaeman, M.Yates, and D. Hamermesh (2011), "Strike Three: Discrimination, Incentives, and Evaluation," *American Economic Review*, 101, 1410–1435

#### Monitoring:

- QuesTec, a computerized monitoring system intended to evaluate the accuracy and consistency of home-plate umpires' judgments. From 2004–2008, QuesTec had been installed in 11 of MLB's 30 ballparks (see Fig 1 A, B)
- 2. Attendance (see Fig 2 A, B)

## 2) 야구통계: MLB 심판진의 인종편견

#### A. White pitchers



#### B. Minority pitchers

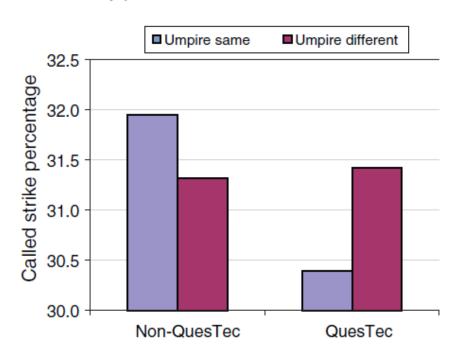


FIGURE 1. RACE AND CALLED STRIKE PERCENTAGES IN QUESTEC AND NON-QUESTEC BALLPARKS

출처 : C. Parsons, J. Sulaeman, M.Yates, and D. Hamermesh(2011), "Strike Three: Discrimination, Incentives, and Evaluation," American Economic Review, 101, 1410–1435

## 2) 야구통계: MLB 심판진의 인종편견

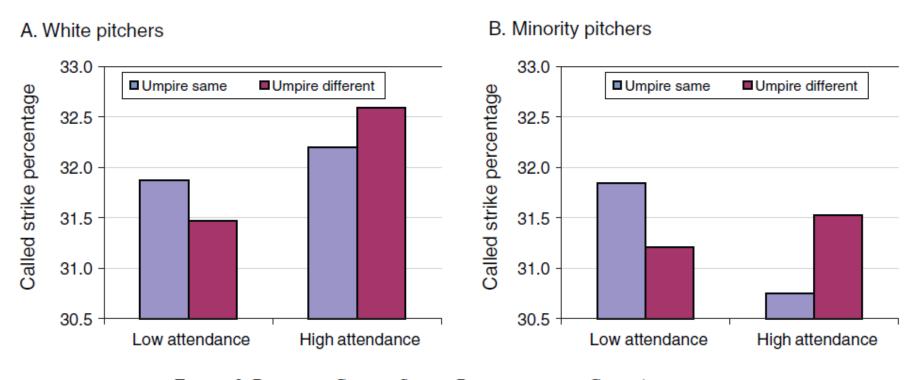
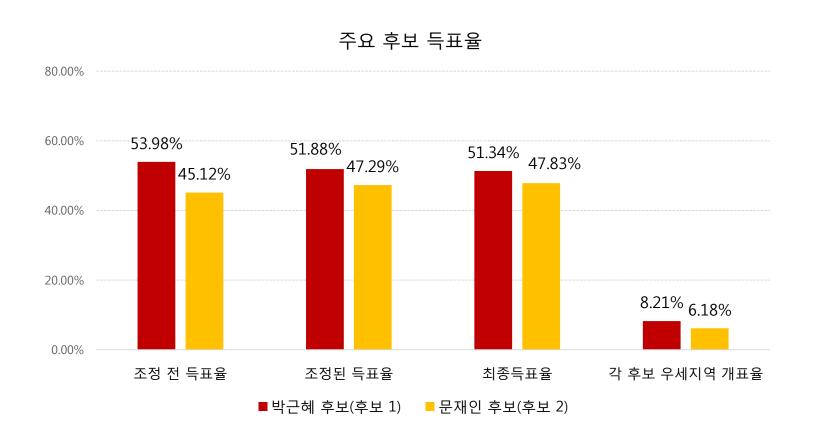


FIGURE 2. RACE AND CALLED STRIKE PERCENTAGES BY GAME ATTENDANCE

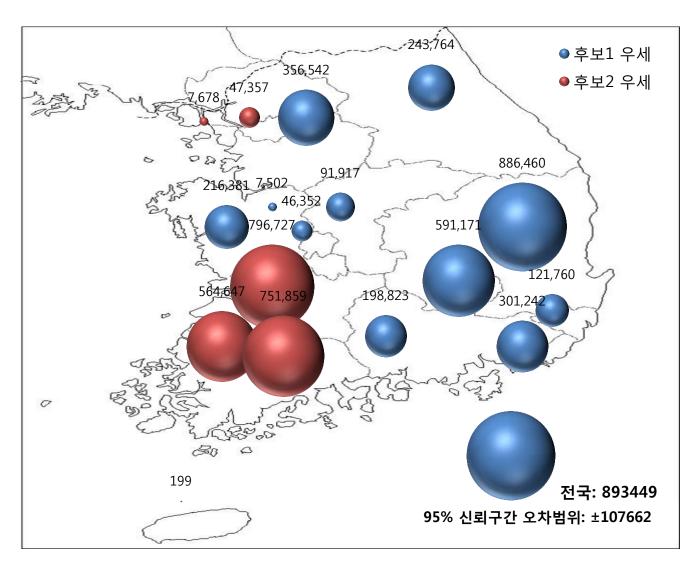
*Note:* Low (high) attendance games are those with percentage attendance below (above) the median.

출처 : C. Parsons, J. Sulaeman, M.Yates, and D. Hamermesh(2011), "Strike Three: Discrimination, Incentives, and Evaluation," American Economic Review, 101, 1410–1435

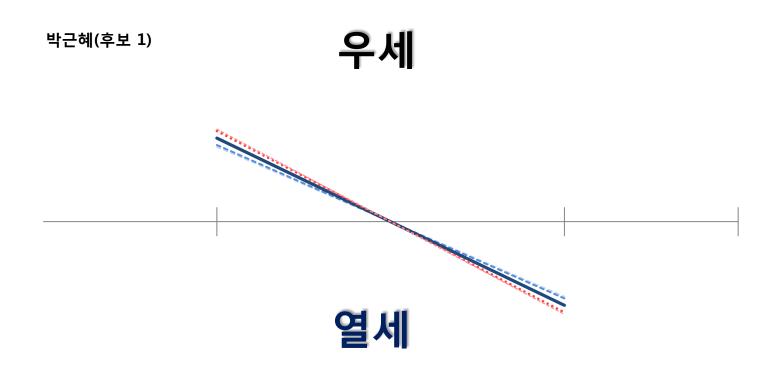
## 3) 선거개표: 2012년 한국 대선 오후 7:50



# 3) 선거개표: 2012년 한국 대선 오후 7:50



## 3) 선거개표: 2012년 한국 대선 오후 7:50



문재인(후보 2)