ProjectCBBStep2

2023-11-06

## R Markdown

This is an R Markdown document. Markdown is a simple formatting syntax for authoring HTML, PDF, and MS Word documents. For more details on using R Markdown see <http://rmarkdown.rstudio.com>.

When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

#Reading and seeing the CSV file we used.  
CBB <- read.csv('PSTAT126ProjectCBB.csv')  
cor(CBB$Win.PCT, y=CBB$EFG\_O)

## [1] 0.5938282

cor(CBB$Win.PCT, y=CBB$EFG\_D)

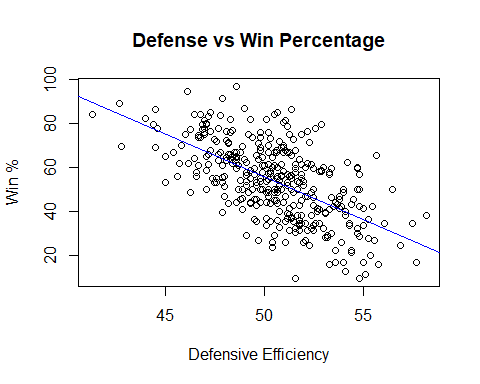
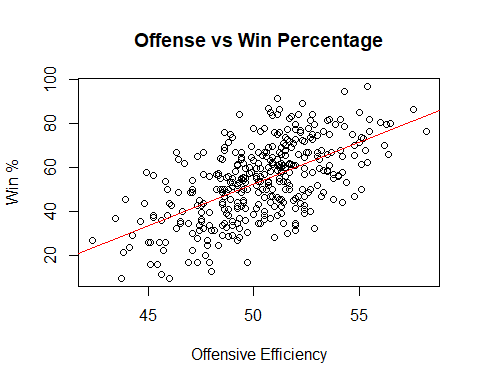
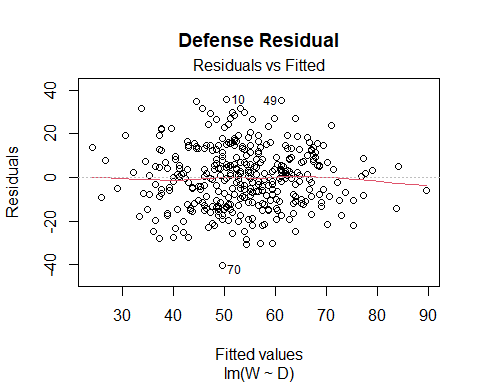
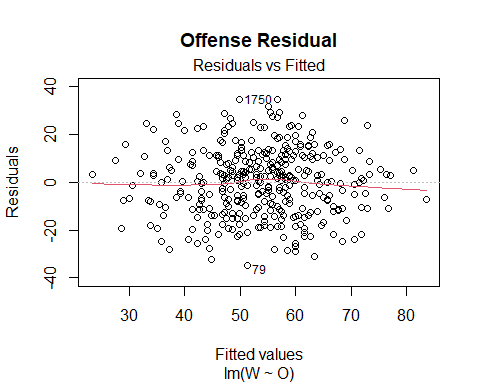
## [1] -0.605415

CBB

## TEAM CONF G W EFG\_O EFG\_D TOR TORD ORB DRB FTR FTRD  
## 1 Kansas B12 36 28 52.6 47.0 17.5 20.2 28.7 28.7 29.8 31.1  
## 2 Purdue B10 35 29 51.8 47.2 17.2 15.4 38.4 23.5 37.2 19.2  
## 3 Alabama SEC 37 31 52.1 41.3 18.7 15.8 34.2 27.9 36.6 32.6  
## 4 Houston Amer 37 33 52.3 42.7 15.4 21.1 37.1 27.7 28.9 35.7  
## 5 Texas B12 38 29 53.3 48.1 16.3 22.1 28.3 29.0 30.5 33.7  
## 6 Marquette BE 36 29 56.0 51.0 15.3 22.5 26.2 31.7 27.0 29.1  
## 7 Arizona P12 35 28 56.5 47.1 18.4 16.9 30.7 26.1 35.8 25.5  
## 8 UCLA P12 37 31 51.1 46.8 14.9 23.3 33.0 28.2 27.4 27.5  
## 9 Kansas St. B12 36 26 52.3 48.1 19.3 21.0 29.9 30.3 36.1 36.3  
## 10 Gonzaga WCC 36 31 57.6 51.4 14.8 17.8 31.2 25.6 34.1 26.0  
## 11 Baylor B12 34 23 53.2 51.6 17.9 19.9 34.4 30.9 36.8 31.3  
## 12 Xavier BE 37 27 55.2 50.3 17.2 16.2 30.8 25.0 31.4 27.0  
## 13 Connecticut BE 39 31 53.9 44.4 18.9 18.5 38.5 26.1 30.8 37.8  
## 14 Indiana B10 35 23 53.5 47.2 16.8 16.3 28.1 29.0 29.5 29.8  
## 15 Virginia ACC 33 25 51.2 48.3 13.6 19.5 25.6 24.9 34.7 26.3  
## 16 Tennessee SEC 36 25 49.9 42.8 18.1 22.2 36.4 26.9 30.7 33.8  
## 17 San Diego St. MWC 38 32 49.3 46.5 17.3 19.1 31.6 26.1 33.2 30.2  
## 18 Miami FL ACC 37 29 54.3 51.2 16.1 18.1 31.8 28.8 30.7 24.0  
## 19 Saint Mary's WCC 34 27 52.0 47.1 16.4 19.2 32.6 21.9 32.0 29.9  
## 20 Duke ACC 36 27 51.1 46.0 18.3 16.5 35.9 26.1 29.9 23.7  
## 21 Creighton BE 37 24 54.2 47.1 16.6 13.9 25.3 23.5 28.4 19.7  
## 22 Kentucky SEC 34 22 50.6 48.6 17.4 16.6 39.2 25.0 31.9 29.9  
## 23 TCU B12 35 22 50.0 48.1 16.7 21.6 32.2 30.5 34.1 30.1  
## 24 Iowa St. B12 33 19 49.9 49.9 19.6 25.0 33.9 26.5 27.9 40.8  
## 25 Northwestern B10 34 22 47.3 48.4 14.7 21.3 28.6 27.7 29.7 31.6  
## 26 Missouri SEC 35 25 55.0 52.3 15.8 24.0 26.3 37.2 29.1 34.2  
## 27 Texas A&M SEC 35 25 48.8 48.2 18.3 20.9 36.7 30.4 45.1 34.7  
## 28 Michigan St. B10 34 21 51.7 48.6 16.4 14.8 27.6 25.2 27.2 28.0  
## 29 Maryland B10 35 22 50.8 47.7 16.5 18.4 30.0 28.1 34.3 28.4  
## 30 Iowa B10 33 19 51.7 53.3 14.0 18.2 32.1 27.4 32.3 23.8  
## 31 Memphis Amer 35 26 53.0 46.7 18.3 20.8 31.2 32.7 35.4 34.4  
## 32 Arkansas SEC 36 22 50.9 47.2 18.1 20.5 30.8 27.9 39.3 39.5  
## 33 Florida Atlantic CUSA 37 35 54.3 46.1 16.9 17.7 31.4 25.4 29.6 26.3  
## 34 Auburn SEC 34 21 49.5 45.7 17.7 18.9 32.8 32.4 36.3 38.9  
## 35 West Virginia B12 34 19 51.5 50.9 18.5 20.9 34.0 29.3 39.4 38.7  
## 36 Illinois B10 33 20 51.4 46.7 18.4 18.5 31.6 26.7 34.3 30.1  
## 37 Penn St. B10 37 23 55.4 49.1 13.7 13.1 19.2 25.6 21.3 25.5  
## 38 USC P12 33 22 51.2 45.4 18.1 17.9 28.8 32.7 33.2 30.2  
## 39 Boise St. MWC 33 24 51.6 47.5 16.6 17.5 27.2 24.0 30.3 27.6  
## 40 Utah St. MWC 34 26 55.5 48.1 17.6 15.8 27.4 24.5 34.9 30.3  
## 41 Pittsburgh ACC 36 24 52.5 48.5 16.3 16.6 29.5 28.6 32.9 30.4  
## 42 Providence BE 33 21 51.1 49.7 16.8 16.9 34.7 27.3 36.3 25.4  
## 43 North Carolina St. ACC 34 23 51.5 49.8 13.5 18.8 30.4 26.2 25.3 34.0  
## 44 Arizona St. P12 36 23 48.4 46.5 16.8 20.1 29.2 31.5 31.2 33.5  
## 45 Mississippi St. SEC 34 21 46.7 46.2 19.4 21.7 35.5 28.6 33.8 27.6  
## 46 Nevada MWC 32 22 50.7 49.8 15.3 18.5 22.8 24.9 39.1 31.8  
## 47 Drake MVC 34 27 52.9 46.9 15.5 17.5 23.8 22.4 28.4 27.4  
## 48 VCU A10 35 27 52.0 46.9 19.6 23.9 28.9 30.0 41.6 31.1  
## 49 Oral Roberts Sum 31 30 55.4 48.6 13.3 17.4 24.5 27.7 24.2 21.7  
## 50 College of Charleston CAA 34 31 51.1 47.9 16.7 19.3 34.6 25.4 32.7 24.9  
## 51 Furman SC 33 28 55.0 50.7 15.7 18.2 28.9 27.3 34.8 31.9  
## 52 Louisiana Lafayette SB 31 26 52.8 50.5 17.7 18.4 33.3 26.3 37.0 34.2  
## 53 Iona MAAC 35 27 51.6 46.3 15.1 20.7 31.6 30.8 29.0 30.9  
## 54 Kent St. MAC 33 28 50.8 47.3 16.3 22.3 31.3 30.2 31.5 38.1  
## 55 Grand Canyon WAC 33 24 52.8 47.5 18.1 15.1 30.2 30.4 36.9 33.2  
## 56 Montana St. BSky 33 25 51.0 49.8 17.8 20.1 25.7 25.4 44.0 35.1  
## 57 Kennesaw St. ASun 32 26 52.7 51.1 17.8 19.5 27.3 25.4 35.9 36.8  
## 58 UC Santa Barbara BW 33 27 54.1 50.1 17.0 18.5 26.3 26.1 34.4 29.2  
## 59 Vermont AE 33 23 54.8 51.0 14.3 16.6 19.2 22.3 28.1 26.9  
## 60 Colgate Pat 34 26 58.2 52.2 15.0 17.6 25.0 24.5 27.3 20.2  
## 61 UNC Asheville BSth 33 27 53.6 48.3 20.1 17.8 25.7 29.1 40.9 26.8  
## 62 Princeton Ivy 30 23 52.2 48.4 16.5 14.7 28.1 22.6 30.4 28.1  
## 63 Fairleigh Dickinson NEC 35 21 51.3 54.7 16.3 21.1 30.9 29.3 28.0 33.9  
## 64 Northern Kentucky Horz 33 22 49.1 51.3 17.3 23.3 31.6 33.0 26.9 30.5  
## 65 Howard MEAC 32 22 51.8 50.9 22.8 20.6 33.7 31.9 32.2 33.9  
## 66 Texas A&M Corpus Chris Slnd 31 24 50.5 52.6 17.7 20.4 32.8 27.8 34.8 38.2  
## 67 Texas Southern SWAC 33 14 46.1 49.6 20.3 18.5 29.2 27.5 34.3 38.8  
## 68 Southeast Missouri St. OVC 34 19 50.1 51.3 17.3 19.0 25.0 28.3 38.2 44.1  
## 69 LIU Brooklyn NEC 27 3 45.6 55.1 22.7 16.7 24.7 30.3 31.7 32.1  
## 70 California P12 32 3 43.7 51.6 20.1 16.0 25.3 30.4 31.5 32.6  
## 71 Green Bay Horz 32 3 46.0 54.8 21.1 16.1 21.7 32.4 31.5 31.6  
## 72 Louisville ACC 32 4 48.0 54.1 22.3 15.2 28.2 30.1 32.9 30.6  
## 73 Hartford ind 25 5 47.7 55.4 22.7 17.6 25.2 33.5 24.1 27.7  
## 74 Tulsa Amer 30 5 47.9 53.6 19.1 17.0 24.9 33.0 26.7 27.8  
## 75 South Carolina St. MEAC 30 5 46.9 57.7 20.9 21.0 34.2 34.5 29.2 43.5  
## 76 Presbyterian BSth 30 5 47.3 54.0 20.8 18.4 29.9 29.5 36.5 39.1  
## 77 Evansville MVC 32 5 45.1 55.8 17.6 18.9 20.7 25.5 29.4 30.1  
## 78 Mississippi Valley St. SWAC 32 5 45.4 53.3 23.4 19.5 28.7 32.4 38.0 39.8  
## 79 IUPUI Horz 30 5 49.7 55.0 23.2 16.7 29.0 31.9 32.2 36.0  
## 80 Delaware St. MEAC 27 6 45.7 54.4 23.5 19.0 30.1 29.4 29.3 37.0  
## 81 Columbia Ivy 27 7 45.5 52.0 19.9 17.6 25.3 30.9 28.1 28.8  
## 82 Florida A&M SWAC 27 7 45.0 51.1 24.0 18.0 27.6 33.6 31.4 44.6  
## 83 NJIT AE 29 7 48.3 52.3 16.0 14.9 23.4 29.1 28.2 27.9  
## 84 Georgetown BE 32 7 47.1 53.6 17.5 15.9 28.9 30.0 29.1 24.5  
## 85 Cal St. Northridge BW 30 7 44.1 50.4 19.6 18.0 27.3 30.5 36.6 39.0  
## 86 VMI SC 29 7 47.8 56.9 19.3 14.6 28.9 27.3 21.0 28.1  
## 87 Monmouth CAA 33 7 43.8 54.4 21.1 21.0 30.3 32.9 33.1 38.8  
## 88 Eastern Michigan MAC 30 8 49.2 55.6 16.9 17.1 25.1 32.8 32.2 35.0  
## 89 Western Michigan MAC 28 8 48.8 54.8 19.1 14.4 33.0 27.6 27.8 33.1  
## 90 Albany AE 29 8 47.3 55.3 19.2 16.6 27.8 26.7 31.0 36.8  
## 91 Alabama St. SWAC 30 8 42.3 49.7 18.7 17.7 31.7 34.4 31.2 34.6  
## 92 Elon CAA 30 8 47.8 52.1 18.4 17.1 24.9 30.6 27.5 29.0  
## 93 Hampton CAA 31 8 45.1 53.9 16.0 15.7 26.5 30.3 32.1 35.3  
## 94 Cal Poly BW 31 8 45.8 50.4 20.9 18.6 24.5 24.5 31.0 42.3  
## 95 New Mexico St. WAC 21 9 50.2 53.7 18.3 19.1 27.0 26.5 34.7 37.0  
## 96 Wyoming MWC 30 9 51.6 53.4 18.2 16.4 24.2 25.3 33.4 28.9  
## 97 Pepperdine WCC 29 9 52.0 52.5 18.3 16.6 25.9 30.5 26.8 32.6  
## 98 Minnesota B10 31 9 49.0 50.5 19.6 14.8 25.0 30.8 30.8 24.8  
## 99 Rhode Island A10 31 9 44.2 49.1 20.4 17.2 31.6 29.5 37.0 31.7  
## 100 Central Arkansas ASun 30 9 47.1 54.7 18.1 16.7 27.9 30.5 24.3 28.9  
## 101 Austin Peay ASun 28 9 46.3 54.7 17.4 19.5 26.0 31.9 26.1 37.0  
## 102 Eastern Illinois OVC 29 9 48.0 52.2 19.2 19.7 25.3 32.2 32.4 32.5  
## 103 Lamar Slnd 28 9 47.6 53.0 21.2 17.1 31.9 33.5 32.2 30.8  
## 104 Florida St. ACC 32 9 49.3 53.1 17.6 17.1 25.9 31.5 30.4 30.9  
## 105 Nebraska Omaha Sum 31 9 48.5 53.2 18.5 15.8 24.2 28.9 29.6 33.4  
## 106 Coppin St. MEAC 32 9 51.0 53.2 20.1 18.5 18.6 35.7 37.2 34.2  
## 107 Dartmouth Ivy 26 10 50.0 51.3 20.2 16.5 23.5 26.2 29.1 31.7  
## 108 UC San Diego BW 28 10 49.6 51.8 17.9 16.5 23.2 29.3 26.1 27.9  
## 109 Canisius MAAC 29 10 48.6 52.8 17.5 18.7 28.4 29.9 24.9 27.7  
## 110 Northeastern CAA 30 10 47.9 50.1 21.3 14.5 31.7 26.9 27.7 31.7  
## 111 Loyola Chicago A10 31 10 52.9 51.6 22.1 17.9 24.5 28.5 31.1 37.5  
## 112 Georgia St. SB 28 10 45.6 50.7 19.5 17.5 30.1 29.5 33.5 35.4  
## 113 Charleston Southern BSth 29 10 50.3 54.3 18.1 16.7 32.2 31.0 27.4 36.6  
## 114 Arkansas Pine Bluff SWAC 27 10 45.2 51.4 21.6 21.4 26.6 29.0 33.8 43.2  
## 115 Little Rock OVC 29 10 49.2 56.1 18.0 19.2 29.3 30.4 31.9 37.0  
## 116 Central Michigan MAC 29 10 46.5 51.9 22.9 19.2 30.5 32.5 36.9 41.0  
## 117 SMU Amer 32 10 47.4 51.8 18.0 18.7 28.1 30.5 33.0 32.8  
## 118 UTSA CUSA 30 10 47.4 52.5 19.5 15.4 28.5 31.2 37.4 30.6  
## 119 Idaho BSky 30 10 52.0 54.3 17.2 16.1 19.6 27.8 35.8 31.6  
## 120 The Citadel SC 31 10 49.3 52.4 18.2 16.9 20.8 31.7 28.9 33.9  
## 121 Holy Cross Pat 30 10 48.5 51.8 17.5 17.4 21.5 30.1 25.5 27.8  
## 122 Central Connecticut NEC 32 10 48.1 51.3 17.9 16.4 28.5 28.2 23.3 26.5  
## 123 Houston Christian Slnd 29 10 51.4 57.5 21.1 16.7 28.0 31.6 40.6 33.3  
## 124 DePaul BE 33 10 49.7 51.6 18.2 17.7 25.8 34.1 27.6 35.7  
## 125 Fresno St. MWC 30 11 49.3 51.2 18.1 19.7 24.9 28.2 24.3 32.1  
## 126 San Diego WCC 29 11 51.1 58.2 16.0 17.3 27.9 29.7 30.9 33.4  
## 127 Bowling Green MAC 29 11 50.5 54.1 17.5 16.3 29.8 28.0 32.5 33.6  
## 128 Coastal Carolina SB 28 11 47.5 53.1 17.8 15.5 30.3 30.7 28.9 29.3  
## 129 Chicago St. ind 27 11 48.8 53.3 21.3 16.7 33.5 33.2 31.9 35.9  
## 130 Notre Dame ACC 32 11 52.0 52.1 13.4 13.6 19.6 26.5 23.3 26.5  
## 131 South Carolina SEC 32 11 46.9 52.6 19.9 15.9 32.7 32.5 26.8 29.4  
## 132 Oregon St. P12 31 11 46.5 49.6 20.8 18.2 25.3 30.6 33.9 33.9  
## 133 UT Arlington WAC 29 11 45.9 51.9 21.1 20.1 32.7 30.8 29.7 39.5  
## 134 Idaho St. BSky 30 11 50.8 51.4 17.2 17.8 24.6 27.2 28.9 35.5  
## 135 Louisiana Monroe SB 29 11 45.2 51.7 18.7 17.6 27.3 29.9 30.0 28.6  
## 136 Valparaiso MVC 31 11 49.0 51.5 18.1 15.6 22.5 24.5 27.9 31.8  
## 137 Illinois St. MVC 32 11 50.2 51.8 21.8 16.7 28.2 26.7 31.3 34.0  
## 138 UMKC Sum 30 11 43.4 50.1 19.9 17.3 35.9 29.4 33.3 39.4  
## 139 Lindenwood OVC 29 11 48.8 52.4 19.5 17.8 23.0 31.0 28.3 31.1  
## 140 Cal St. Bakersfield BW 31 11 44.6 51.1 19.8 20.5 27.2 28.4 29.4 43.6  
## 141 Stony Brook CAA 31 11 47.5 50.3 19.6 14.0 21.9 27.4 29.4 26.2  
## 142 Lafayette Pat 34 11 48.7 50.8 17.9 18.2 23.8 25.3 24.5 29.4  
## 143 McNeese St. Slnd 33 11 49.0 55.0 21.6 18.4 33.3 30.9 29.2 34.9  
## 144 Manhattan MAAC 29 12 49.2 51.3 19.8 20.5 26.6 34.2 31.5 30.5  
## 145 Portland St. BSky 29 12 49.6 55.0 16.8 21.3 24.0 31.4 34.8 46.6  
## 146 South Dakota Sum 29 12 50.1 52.7 17.3 14.4 24.9 27.1 28.1 31.8  
## 147 Incarnate Word Slnd 28 12 48.5 54.4 20.0 20.5 26.3 33.2 33.3 32.7  
## 148 Northern Colorado BSky 31 12 52.4 53.1 17.5 14.0 24.3 27.0 31.4 31.7  
## 149 East Tennessee St. SC 30 12 50.5 50.8 19.5 17.5 29.9 28.9 31.2 26.9  
## 150 Miami OH MAC 29 12 52.0 53.8 19.6 17.8 26.6 32.6 32.1 37.1  
## 151 Illinois Chicago MVC 31 12 48.7 51.2 18.3 19.6 22.7 30.3 34.1 33.0  
## 152 Bucknell Pat 31 12 51.3 51.2 20.2 15.4 25.4 25.0 26.9 27.7  
## 153 New Orleans Slnd 30 12 52.7 54.1 23.6 20.2 29.8 32.7 36.5 39.9  
## 154 Bethune Cookman SWAC 30 12 46.6 52.7 18.3 19.3 26.9 34.7 32.1 35.2  
## 155 Mississippi SEC 33 12 47.5 49.5 18.3 18.0 33.3 29.9 29.2 30.3  
## 156 Northern Arizona BSky 33 12 50.5 55.3 15.9 17.2 26.9 25.7 27.4 38.7  
## 157 Jacksonville ASun 26 13 50.6 49.8 19.1 14.3 23.9 25.7 22.8 27.0  
## 158 Abilene Christian WAC 26 13 49.2 56.5 17.3 23.3 25.5 28.6 32.3 45.6  
## 159 Maine AE 28 13 51.1 53.4 18.7 20.3 22.9 30.0 23.0 28.7  
## 160 Jacksonville St. ASun 28 13 50.5 52.5 20.2 16.5 29.4 24.1 31.8 29.5  
## 161 Fairfield MAAC 30 13 46.0 49.3 18.2 17.8 28.6 29.5 37.9 28.1  
## 162 Binghamton AE 29 13 49.5 50.5 19.4 15.1 28.7 27.3 28.2 35.4  
## 163 St. Francis PA NEC 29 13 51.9 51.9 18.3 14.7 25.3 28.9 32.8 29.9  
## 164 Northern Illinois MAC 30 13 52.2 50.7 20.3 18.6 25.0 32.8 34.3 35.8  
## 165 Prairie View A&M SWAC 30 13 44.8 48.2 19.6 21.2 31.7 28.7 33.0 41.8  
## 166 Oakland Horz 31 13 49.2 54.8 15.1 18.7 24.2 32.7 31.6 22.5  
## 167 North Carolina A&T CAA 29 13 47.4 50.6 17.5 15.7 24.6 30.2 30.0 28.5  
## 168 Mount St. Mary's MAAC 32 13 48.6 48.9 20.8 17.9 27.8 29.9 26.0 29.2  
## 169 North Dakota Sum 31 13 51.0 53.5 16.7 15.5 25.7 27.4 27.3 28.0  
## 170 Marist MAAC 33 13 47.9 47.9 18.1 16.8 25.9 28.9 28.9 28.4  
## 171 Arkansas St. SB 30 13 47.6 50.3 18.1 16.6 28.8 28.0 35.1 34.8  
## 172 William & Mary CAA 31 13 49.4 53.9 18.8 17.0 27.4 29.9 29.2 27.4  
## 173 Texas A&M Commerce Slnd 32 13 52.4 52.8 18.9 17.7 26.5 29.9 28.3 37.9  
## 174 Loyola MD Pat 31 13 51.3 55.5 20.4 20.2 26.6 28.7 28.2 29.8  
## 175 Brown Ivy 27 14 50.7 51.2 19.0 19.7 23.4 23.7 29.8 26.9  
## 176 Harvard Ivy 26 14 49.5 48.8 19.8 18.4 30.3 24.3 31.2 25.0  
## 177 Morgan St. MEAC 26 14 47.1 50.8 22.0 23.8 30.2 37.3 30.9 42.9  
## 178 St. Francis NY NEC 28 14 45.9 50.5 21.1 19.6 30.9 31.8 31.1 31.6  
## 179 North Florida ASun 29 14 53.3 52.4 17.3 14.0 26.2 32.9 28.4 23.5  
## 180 High Point BSth 29 14 50.2 50.7 19.6 16.3 30.8 32.0 38.7 35.3  
## 181 Stonehill NEC 30 14 50.9 50.2 19.7 19.8 19.1 31.4 32.2 27.3  
## 182 Butler BE 32 14 49.5 50.1 17.6 18.6 20.0 30.3 25.9 22.6  
## 183 Air Force MWC 32 14 54.2 49.3 19.0 17.1 22.3 28.6 31.2 35.2  
## 184 South Florida Amer 32 14 50.8 49.8 19.6 18.7 33.0 27.8 30.7 37.1  
## 185 UTEP CUSA 30 14 48.6 51.1 22.9 22.9 33.3 29.7 38.8 37.3  
## 186 St. Bonaventure A10 32 14 49.2 48.6 18.8 19.4 27.5 29.2 29.5 40.9  
## 187 FIU CUSA 30 14 52.1 52.1 20.6 22.8 25.5 36.7 28.7 30.6  
## 188 Northern Iowa MVC 31 14 51.3 53.8 17.7 18.2 22.6 22.4 31.1 26.5  
## 189 Sacramento St. BSky 30 14 50.8 52.2 20.8 14.5 32.9 24.0 27.5 25.8  
## 190 Saint Peter's MAAC 31 14 43.9 49.5 19.5 19.7 36.4 30.6 28.4 51.4  
## 191 Mercer SC 31 14 48.9 48.8 18.2 17.4 30.4 27.6 28.6 35.9  
## 192 Stanford P12 33 14 52.4 51.5 18.9 18.3 31.2 26.4 29.4 28.6  
## 193 Utah Tech WAC 30 14 53.2 53.8 21.4 20.0 28.7 26.8 44.8 35.0  
## 194 LSU SEC 33 14 47.3 51.8 18.4 17.5 31.7 28.8 33.7 30.3  
## 195 Portland WCC 31 14 53.8 54.5 18.0 16.9 24.1 30.2 43.3 27.7  
## 196 Detroit Horz 32 14 51.4 53.6 17.6 17.1 35.8 29.7 27.2 28.9  
## 197 Jackson St. SWAC 33 14 47.5 52.5 22.0 19.1 32.9 29.1 32.9 34.0  
## 198 Wagner NEC 26 15 44.9 49.1 19.1 20.9 34.4 24.8 25.2 47.0  
## 199 New Hampshire AE 28 15 45.8 49.1 15.0 16.2 26.0 27.4 29.6 30.2  
## 200 Gardner Webb BSth 29 15 50.7 49.1 19.5 20.3 28.5 25.1 34.8 39.6  
## 201 Massachusetts A10 31 15 46.4 50.2 20.2 19.2 34.5 27.9 32.2 32.4  
## 202 Oklahoma B12 32 15 52.4 48.0 20.0 15.5 23.7 27.2 30.1 30.1  
## 203 Buffalo MAC 30 15 49.5 52.5 19.2 18.3 32.2 29.1 32.1 36.4  
## 204 Winthrop BSth 30 15 55.1 54.8 20.6 17.4 25.9 34.2 41.6 31.0  
## 205 UT Rio Grande Valley WAC 28 15 51.2 52.0 22.2 16.9 29.0 29.5 45.9 38.9  
## 206 Denver Sum 30 15 52.3 51.7 21.4 15.6 29.8 27.4 39.4 27.7  
## 207 Boston University Pat 31 15 47.0 50.5 17.8 18.3 28.7 24.6 29.0 36.5  
## 208 Southern SWAC 30 15 48.5 51.4 20.5 23.0 24.4 28.6 34.5 42.9  
## 209 Colorado St. MWC 32 15 54.8 52.2 16.7 17.9 19.6 27.1 29.8 29.6  
## 210 Georgia Tech ACC 31 15 48.5 50.1 15.6 15.9 27.5 29.9 23.5 30.8  
## 211 Richmond A10 33 15 51.2 49.6 17.1 17.1 21.0 25.4 33.0 26.2  
## 212 Pacific WCC 31 15 52.6 54.0 16.2 17.9 22.9 31.2 33.1 36.4  
## 213 Louisiana Tech CUSA 30 15 50.9 54.0 19.9 21.3 30.1 28.1 28.4 38.5  
## 214 Bellarmine ASun 30 15 51.7 54.7 18.2 17.7 20.6 28.1 25.4 31.8  
## 215 Alabama A&M SWAC 30 15 48.6 49.4 21.4 21.4 29.5 33.9 35.9 41.8  
## 216 La Salle A10 34 15 48.5 51.0 18.1 17.9 30.5 30.5 28.3 31.6  
## 217 Rider MAAC 29 16 49.5 50.3 17.8 16.5 33.8 28.3 29.3 38.6  
## 218 Lehigh Pat 28 16 49.8 50.3 17.4 16.6 18.8 26.7 31.1 28.5  
## 219 Western Illinois Sum 27 16 50.1 53.4 15.1 16.4 26.9 26.7 31.4 27.4  
## 220 Niagara MAAC 30 16 50.3 49.8 18.5 16.9 26.5 28.6 30.0 33.5  
## 221 Nicholls St. Slnd 27 16 50.3 52.5 18.5 23.7 29.3 33.7 27.6 47.6  
## 222 Texas Tech B12 32 16 52.3 48.9 19.9 19.9 32.1 30.1 34.8 28.4  
## 223 Nebraska B10 32 16 51.7 49.9 18.6 17.7 24.7 28.3 28.2 21.9  
## 224 Temple Amer 32 16 49.7 48.7 19.8 16.5 28.7 29.0 34.6 31.5  
## 225 Washington P12 32 16 48.8 47.1 19.9 18.4 26.4 34.6 31.7 25.4  
## 226 Davidson A10 31 16 50.1 50.8 16.2 17.3 24.9 27.8 32.8 26.7  
## 227 Appalachian St. SB 29 16 48.7 47.9 16.3 17.1 24.5 28.8 29.3 24.8  
## 228 Georgia SEC 32 16 47.1 49.8 19.3 16.8 30.5 30.5 40.5 28.9  
## 229 George Washington A10 31 16 53.0 52.0 17.6 15.5 26.5 29.7 34.5 27.7  
## 230 USC Upstate BSth 30 16 50.7 50.1 19.2 20.5 24.6 32.2 31.4 42.8  
## 231 Florida SEC 33 16 49.4 46.3 16.1 17.8 23.8 30.7 34.5 29.2  
## 232 Boston College ACC 33 16 48.7 51.5 18.3 18.3 27.6 28.3 27.3 27.6  
## 233 Saint Joseph's A10 33 16 50.2 50.5 18.2 18.9 28.9 30.7 34.2 32.8  
## 234 East Carolina Amer 33 16 47.1 49.2 19.2 17.4 33.0 28.9 37.1 33.1  
## 235 North Dakota St. Sum 31 16 51.7 50.8 16.9 12.4 24.4 22.6 32.2 27.1  
## 236 Robert Morris Horz 31 16 49.2 49.6 19.5 19.1 29.7 28.5 26.9 31.1  
## 237 Tennessee Tech OVC 30 16 51.4 51.7 17.8 18.0 23.8 30.2 29.9 25.8  
## 238 Southern Indiana OVC 30 16 50.2 51.7 18.2 16.6 32.1 25.9 33.5 39.8  
## 239 Sacred Heart NEC 32 16 48.4 50.2 18.8 19.4 28.8 30.8 27.6 26.5  
## 240 Campbell BSth 32 16 52.7 52.5 18.1 18.4 24.4 27.8 38.0 32.1  
## 241 Ohio St. B10 35 16 52.0 48.9 16.1 15.9 31.5 28.6 26.6 28.1  
## 242 Texas St. SB 32 16 48.2 50.9 17.9 18.6 31.6 28.5 32.5 41.7  
## 243 Cornell Ivy 26 17 54.8 55.7 16.7 21.9 28.8 29.0 28.5 30.9  
## 244 Penn Ivy 29 17 53.3 49.3 18.9 14.9 30.1 27.9 29.5 31.2  
## 245 Bryant AE 28 17 52.0 50.0 18.7 15.8 29.0 25.2 32.9 31.9  
## 246 Montana BSky 30 17 53.8 51.2 17.3 15.9 24.4 25.1 29.1 37.9  
## 247 Stetson ASun 29 17 53.5 52.9 15.9 14.3 29.4 28.1 25.8 30.0  
## 248 Utah P12 32 17 48.9 45.0 18.0 15.2 31.3 27.4 29.2 24.4  
## 249 Wichita St. Amer 32 17 50.7 47.5 18.2 16.9 29.1 28.2 30.8 25.9  
## 250 Syracuse ACC 32 17 51.6 51.2 17.0 18.7 30.0 33.6 30.7 21.7  
## 251 Missouri St. MVC 31 17 50.1 49.3 19.1 18.6 33.2 26.9 27.2 30.4  
## 252 Drexel CAA 31 17 49.4 47.4 17.9 18.0 29.4 27.4 30.1 24.2  
## 253 Florida Gulf Coast ASun 31 17 51.2 50.7 17.1 17.3 26.6 28.8 28.2 28.1  
## 254 Siena MAAC 32 17 49.3 49.6 19.5 18.5 30.5 26.8 34.5 33.0  
## 255 Murray St. MVC 31 17 49.0 51.9 16.2 15.6 27.4 27.3 33.2 24.4  
## 256 Fort Wayne Horz 30 17 50.5 51.9 18.9 17.7 27.1 26.1 28.7 23.0  
## 257 American Pat 32 17 54.4 51.8 22.0 19.2 28.3 27.9 27.9 32.1  
## 258 Seton Hall BE 32 17 49.0 47.6 20.1 21.1 30.5 30.0 40.1 30.9  
## 259 Long Beach St. BW 31 17 48.4 49.8 18.7 18.2 34.6 28.0 34.4 30.0  
## 260 Cal Baptist WAC 31 17 49.0 47.6 18.1 16.0 28.9 26.1 31.6 29.3  
## 261 Western Kentucky CUSA 31 17 49.6 50.7 17.1 18.0 25.9 31.0 32.3 25.6  
## 262 Georgia Southern SB 30 17 48.2 49.5 16.3 18.3 25.8 27.3 27.9 34.6  
## 263 Delaware CAA 32 17 49.6 51.8 16.5 18.6 25.0 29.8 33.0 29.4  
## 264 Wofford SC 30 17 52.4 54.8 16.3 16.6 28.6 28.7 30.0 26.4  
## 265 Army Pat 31 17 53.8 51.4 19.1 15.6 25.4 24.2 31.3 28.5  
## 266 Washington St. P12 34 17 50.4 49.8 18.5 16.6 31.5 26.1 28.2 28.4  
## 267 Villanova BE 34 17 51.5 50.7 15.5 17.3 22.6 25.2 30.0 27.7  
## 268 Tarleton St. WAC 30 17 47.6 53.3 18.3 24.2 26.0 30.0 47.6 46.2  
## 269 North Carolina Central MEAC 26 18 50.9 48.9 22.6 21.6 32.3 29.6 34.2 35.5  
## 270 Navy Pat 30 18 51.5 50.4 17.3 19.5 29.9 28.0 23.7 30.0  
## 271 Maryland Eastern Shore MEAC 27 18 47.6 50.6 21.1 24.9 27.1 31.7 31.4 34.4  
## 272 UC Davis BW 30 18 49.8 50.7 20.6 20.8 32.2 28.6 42.8 31.5  
## 273 UMBC AE 31 18 51.3 52.9 14.8 16.9 26.4 26.8 27.0 25.6  
## 274 Alcorn St. SWAC 32 18 45.2 51.4 18.3 21.0 33.7 31.4 35.3 39.3  
## 275 Southeastern Louisiana Slnd 29 18 50.9 54.2 16.9 19.8 27.6 29.9 32.1 33.4  
## 276 Tennessee St. OVC 28 18 50.9 49.9 17.3 18.5 26.9 28.2 35.1 42.4  
## 277 St. John's BE 33 18 49.4 50.2 18.7 19.7 34.0 27.6 27.7 29.6  
## 278 Wright St. Horz 31 18 53.5 50.3 17.3 17.2 26.2 26.6 24.0 27.6  
## 279 Weber St. BSky 31 18 50.8 52.8 19.2 19.3 21.0 22.4 33.7 31.7  
## 280 Queens ASun 30 18 51.2 53.0 17.6 15.7 29.7 26.1 35.9 25.4  
## 281 North Alabama ASun 30 18 50.7 52.1 15.8 15.1 23.1 27.9 30.1 31.8  
## 282 Michigan B10 34 18 51.6 47.9 15.2 14.4 25.7 25.8 30.8 25.8  
## 283 Western Carolina SC 31 18 49.1 51.0 15.7 15.6 25.5 25.2 33.8 34.1  
## 284 Merrimack NEC 32 18 48.3 49.1 20.7 26.0 20.5 35.6 34.6 26.9  
## 285 Colorado P12 35 18 49.0 48.0 19.0 19.3 30.8 25.1 29.9 31.4  
## 286 Chattanooga SC 32 18 54.0 50.9 17.5 15.3 27.3 26.7 32.0 30.2  
## 287 Loyola Marymount WCC 30 19 53.1 51.8 18.3 16.2 30.2 24.6 31.6 34.9  
## 288 Old Dominion SB 30 19 46.4 48.3 17.1 17.7 32.8 29.0 36.2 34.7  
## 289 UNLV MWC 31 19 49.2 52.4 17.5 24.7 27.9 31.0 35.5 31.0  
## 290 Stephen F. Austin WAC 29 19 51.5 51.4 21.3 23.8 31.6 32.2 38.9 41.8  
## 291 South Dakota St. Sum 31 19 51.7 50.9 17.1 17.3 21.5 26.0 28.1 23.1  
## 292 Wake Forest ACC 33 19 54.2 51.6 17.1 17.3 24.8 26.6 32.1 26.7  
## 293 Middle Tennessee CUSA 31 19 51.2 51.6 19.3 21.8 31.9 29.2 29.4 34.6  
## 294 Ohio MAC 32 19 52.4 51.6 16.2 17.6 32.8 28.9 27.5 33.9  
## 295 St. Thomas Sum 31 19 51.8 51.9 15.1 17.3 24.0 28.8 30.7 31.0  
## 296 SIU Edwardsville OVC 30 19 48.5 49.0 18.5 19.2 30.6 29.4 40.3 34.6  
## 297 Tennessee Martin OVC 29 19 50.4 49.6 16.8 16.8 27.0 29.0 36.1 34.0  
## 298 Rutgers B10 34 19 47.9 46.6 17.1 21.7 32.1 27.9 28.2 27.4  
## 299 UCF Amer 34 19 50.3 48.0 19.6 21.9 33.6 30.7 28.9 33.4  
## 300 Virginia Tech ACC 34 19 54.0 50.7 14.7 16.3 25.9 27.7 25.9 25.2  
## 301 BYU WCC 32 19 51.5 49.5 20.2 18.5 31.8 24.1 32.5 37.8  
## 302 South Alabama SB 33 19 52.8 46.6 14.6 16.1 20.9 28.4 22.3 28.3  
## 303 Rice CUSA 32 19 53.1 54.7 18.0 16.1 24.1 26.6 32.5 25.7  
## 304 Tulane Amer 31 20 52.4 50.4 15.1 19.3 19.3 30.5 35.4 29.6  
## 305 Quinnipiac MAAC 31 20 49.9 48.1 18.1 16.5 32.2 27.6 33.0 27.1  
## 306 UNC Greensboro SC 30 20 50.6 47.8 17.8 19.3 29.2 26.5 32.4 31.4  
## 307 Seattle WAC 30 20 46.3 48.8 16.9 17.8 29.9 26.6 32.4 33.3  
## 308 Longwood BSth 30 20 50.2 51.2 17.8 21.5 32.1 26.9 33.6 33.5  
## 309 Ball St. MAC 30 20 53.0 51.0 17.8 16.7 30.5 28.4 42.3 31.3  
## 310 North Carolina ACC 33 20 49.2 48.7 15.2 14.9 30.4 23.3 37.0 26.3  
## 311 Cal St. Fullerton BW 31 20 49.4 48.6 17.4 20.5 25.9 29.4 38.7 33.4  
## 312 Duquesne A10 33 20 51.1 50.5 17.3 20.8 33.4 33.1 26.4 35.1  
## 313 Troy SB 30 20 49.4 48.6 18.7 21.1 30.3 30.1 32.5 34.6  
## 314 George Mason A10 33 20 51.9 47.9 20.2 16.9 27.9 24.8 37.1 33.0  
## 315 Lipscomb ASun 30 20 53.7 50.2 17.3 15.6 25.0 24.6 23.6 23.3  
## 316 San Francisco WCC 33 20 53.6 49.9 19.6 17.6 28.5 26.5 32.2 38.1  
## 317 Wisconsin B10 35 20 48.3 50.2 13.4 18.3 22.6 24.9 25.0 27.5  
## 318 Oklahoma St. B12 36 20 48.8 45.6 20.6 18.9 32.6 28.2 32.5 30.4  
## 319 Belmont MVC 31 21 55.3 51.1 16.8 17.7 25.4 30.0 24.3 29.3  
## 320 Samford SC 28 21 53.6 51.9 17.9 19.8 28.2 27.0 41.0 37.6  
## 321 Saint Louis A10 32 21 52.1 48.3 17.3 15.3 29.7 26.5 29.1 32.7  
## 322 Towson CAA 33 21 51.1 48.6 18.4 17.7 35.7 26.7 29.8 29.5  
## 323 San Jose St. MWC 34 21 50.2 48.4 18.7 13.2 34.7 24.6 27.2 28.6  
## 324 Cleveland St. Horz 33 21 49.4 48.4 17.2 20.4 34.9 35.5 29.7 30.3  
## 325 Oregon P12 36 21 51.1 47.1 18.3 16.4 32.5 26.4 32.0 23.9  
## 326 Radford BSth 34 21 51.3 52.2 18.3 20.2 30.9 27.9 27.4 32.3  
## 327 Yale Ivy 28 21 52.8 47.0 16.5 18.4 28.0 23.2 30.6 33.9  
## 328 Akron MAC 31 22 51.9 49.7 16.6 17.8 29.8 26.5 33.7 28.0  
## 329 James Madison SB 30 22 51.5 49.4 18.6 21.4 31.3 27.6 38.9 31.8  
## 330 Hawaii BW 32 22 48.6 44.5 18.6 16.4 29.6 26.5 33.6 27.2  
## 331 Norfolk St. MEAC 29 22 52.2 50.2 19.8 19.0 33.4 30.6 39.5 36.3  
## 332 Northwestern St. Slnd 32 22 51.3 51.0 17.3 21.0 33.3 33.6 27.2 38.7  
## 333 New Mexico MWC 33 22 52.6 50.5 15.6 17.5 27.9 27.3 39.1 28.5  
## 334 Dayton A10 34 22 53.0 45.0 18.8 16.1 30.7 27.0 35.5 23.9  
## 335 UC Riverside BW 33 22 50.5 51.3 18.0 17.2 31.8 22.9 26.2 38.0  
## 336 Morehead St. OVC 30 22 49.0 49.8 18.3 15.4 26.6 24.7 34.7 27.5  
## 337 Milwaukee Horz 31 22 51.4 48.2 21.3 17.6 32.5 32.8 31.9 29.3  
## 338 Charlotte CUSA 36 22 55.1 50.2 17.0 17.8 22.3 24.4 24.9 24.0  
## 339 Vanderbilt SEC 37 22 49.6 48.6 16.0 15.3 30.8 31.9 31.6 31.2  
## 340 Santa Clara WCC 32 23 52.4 50.8 17.4 16.7 30.2 24.4 30.6 25.4  
## 341 Southern Illinois MVC 32 23 51.7 47.6 19.3 19.6 22.8 27.3 30.6 29.8  
## 342 Clemson ACC 34 23 54.1 47.3 16.1 16.4 23.4 24.3 30.5 30.7  
## 343 Eastern Washington BSky 33 23 56.2 50.2 19.9 16.2 28.0 25.8 31.5 29.4  
## 344 UC Irvine BW 33 23 51.5 45.8 17.5 17.5 27.4 27.0 29.3 36.9  
## 345 Cincinnati Amer 35 23 51.3 47.7 15.2 16.9 30.8 27.4 25.7 29.1  
## 346 Indiana St. MVC 35 23 56.4 48.2 17.0 17.2 21.4 22.8 31.5 30.4  
## 347 Eastern Kentucky ASun 34 23 48.6 50.6 16.7 18.6 33.4 29.3 24.3 25.4  
## 348 Youngstown St. Horz 32 24 54.7 51.3 15.6 17.9 30.6 29.2 29.4 26.2  
## 349 UNC Wilmington CAA 32 24 48.9 49.2 18.6 20.7 27.8 28.0 39.7 37.6  
## 350 Southern Utah WAC 33 24 52.0 51.5 18.6 17.5 27.9 26.1 39.5 31.4  
## 351 Marshall SB 31 24 52.6 47.7 15.5 20.1 31.7 32.6 26.2 28.0  
## 352 Grambling St. SWAC 31 24 50.0 44.6 21.2 21.0 31.5 31.6 41.5 41.1  
## 353 Hofstra CAA 34 25 55.1 46.8 15.9 18.5 23.6 31.7 20.9 25.3  
## 354 Bradley MVC 34 25 52.7 46.7 17.9 18.9 29.2 23.8 26.8 32.1  
## 355 Southern Miss SB 30 25 50.9 47.8 18.0 19.9 30.8 29.4 32.2 30.2  
## 356 Fordham A10 33 25 48.6 47.0 19.1 19.3 29.9 25.2 37.6 37.4  
## 357 Sam Houston St. WAC 30 26 50.7 49.0 19.9 23.1 30.5 24.9 32.3 37.6  
## 358 UMass Lowell AE 32 26 53.5 47.0 20.0 19.7 35.7 27.0 33.8 33.9  
## 359 Toledo MAC 34 27 56.3 52.9 13.6 18.3 29.8 30.9 34.4 27.5  
## 360 Liberty ASun 33 27 55.5 49.3 16.0 18.9 25.3 20.2 26.2 27.8  
## 361 Utah Valley WAC 34 28 51.7 44.0 19.3 16.3 28.9 29.1 35.6 28.7  
## 362 UAB CUSA 38 29 50.3 47.3 17.3 19.3 35.8 29.3 35.7 28.9  
## 363 North Texas CUSA 36 31 51.2 44.5 19.8 19.9 33.4 28.6 31.0 40.2  
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## 347 N/A N/A 67.64706  
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## 353 N/A N/A 73.52941  
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## 355 N/A N/A 83.33333  
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## 357 N/A N/A 86.66667  
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## 360 N/A N/A 81.81818  
## 361 N/A N/A 82.35294  
## 362 N/A N/A 76.31579  
## 363 N/A N/A 86.11111

## Including Plots

You can also embed plots, for example:



## D   
## -3.88157

## (Intercept)   
## 249.8856

## O   
## 3.789051

## (Intercept)   
## -136.9827

## [1] 0.3526319

## [1] 0.3665274

## [1] 0.5228542 0.6566254  
## attr(,"conf.level")  
## [1] 0.95

## [1] -0.6667954 -0.5358761  
## attr(,"conf.level")  
## [1] 0.95

Note that the echo = FALSE parameter was added to the code chunk to prevent printing of the R code that generated the plot.