

World University Ranking 2022

修改部分

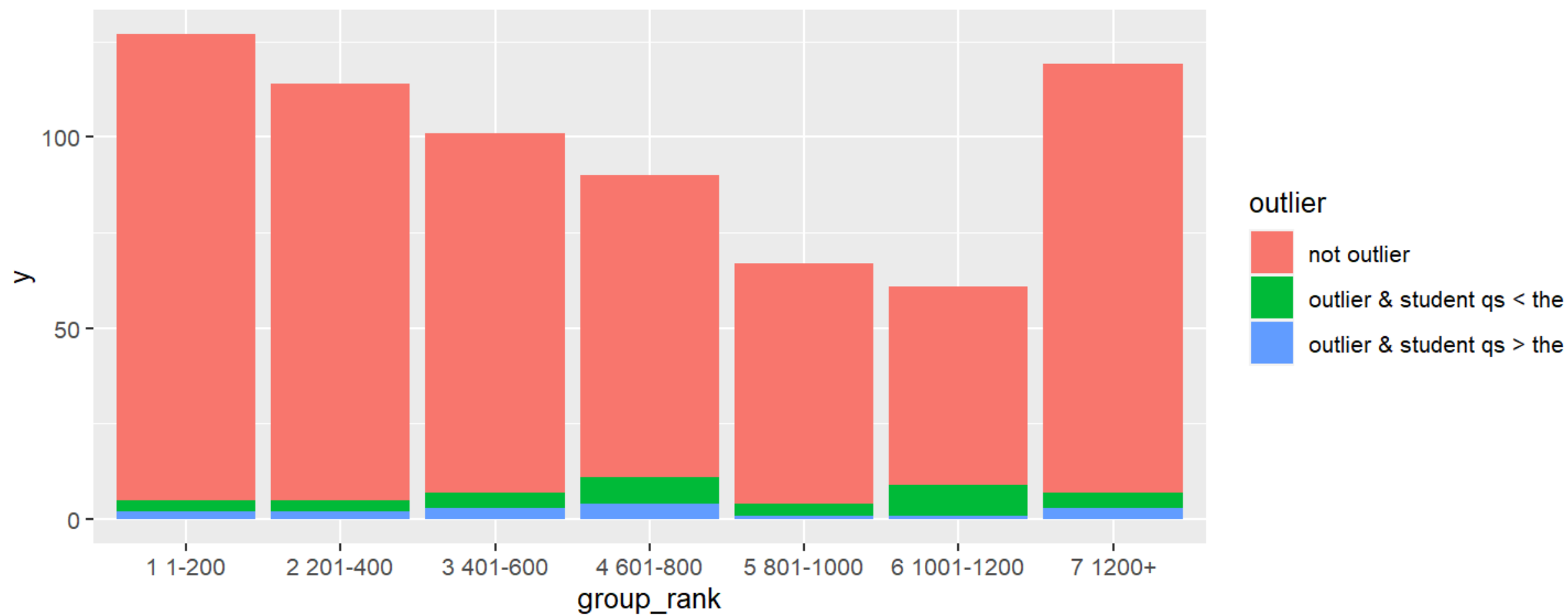
- 抓全部資料
- 以排名區間、排名上升下降、洲分組
- transform

判斷方式

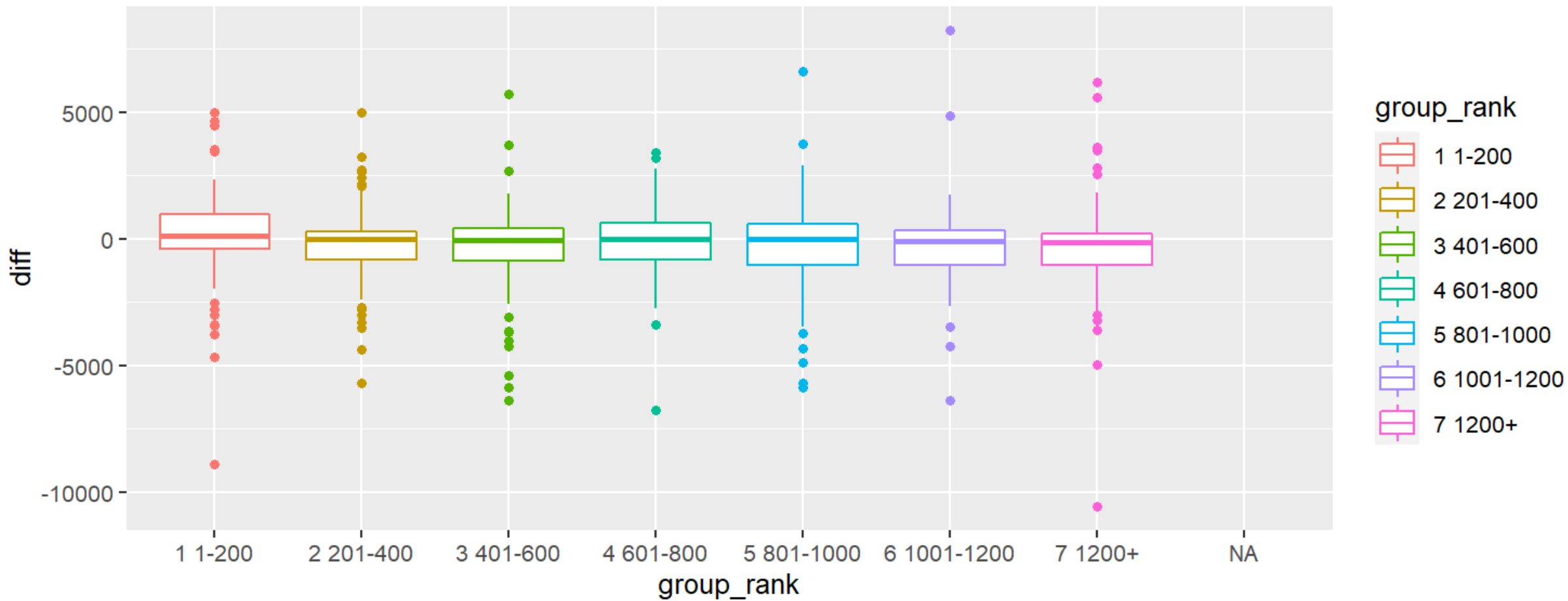
- **diff** = No. of Students for QS - No. of Students for THE
- **pdiff** = $\text{diff} / \text{average}(\text{No. of Students for QS} + \text{No. of Students for THE})$
- 篩離群值、判斷有沒有作弊

排名區間

- 1-200
- 201-400
- 401-600
- 601-800
- 801-1000
- 1001-1200
- 1200+



without outlier



with outlier

	Df	Sum Sq	Mean Sq	F value	Pr(>F)	
group_rank	6	9.144e+08	152402884	2.251	0.0369	*
Residuals	672	4.549e+10	67694789			

without outlier

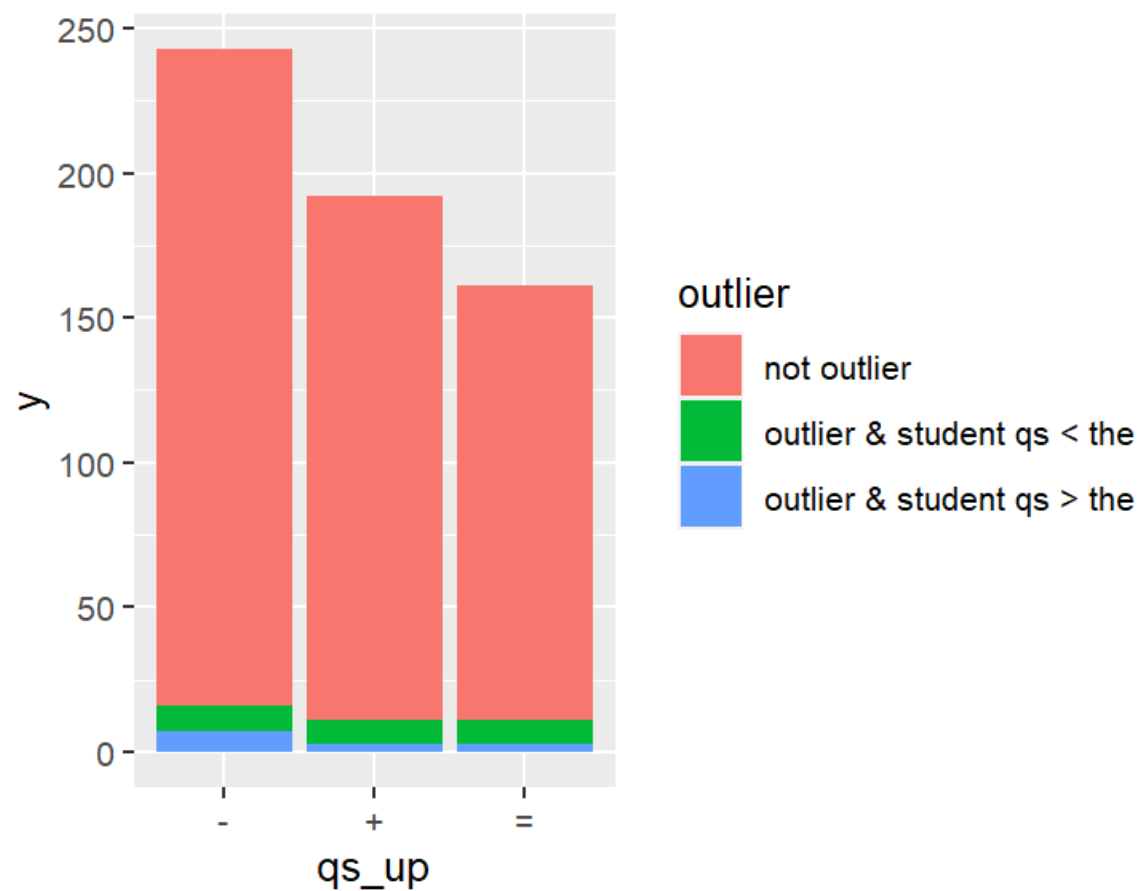
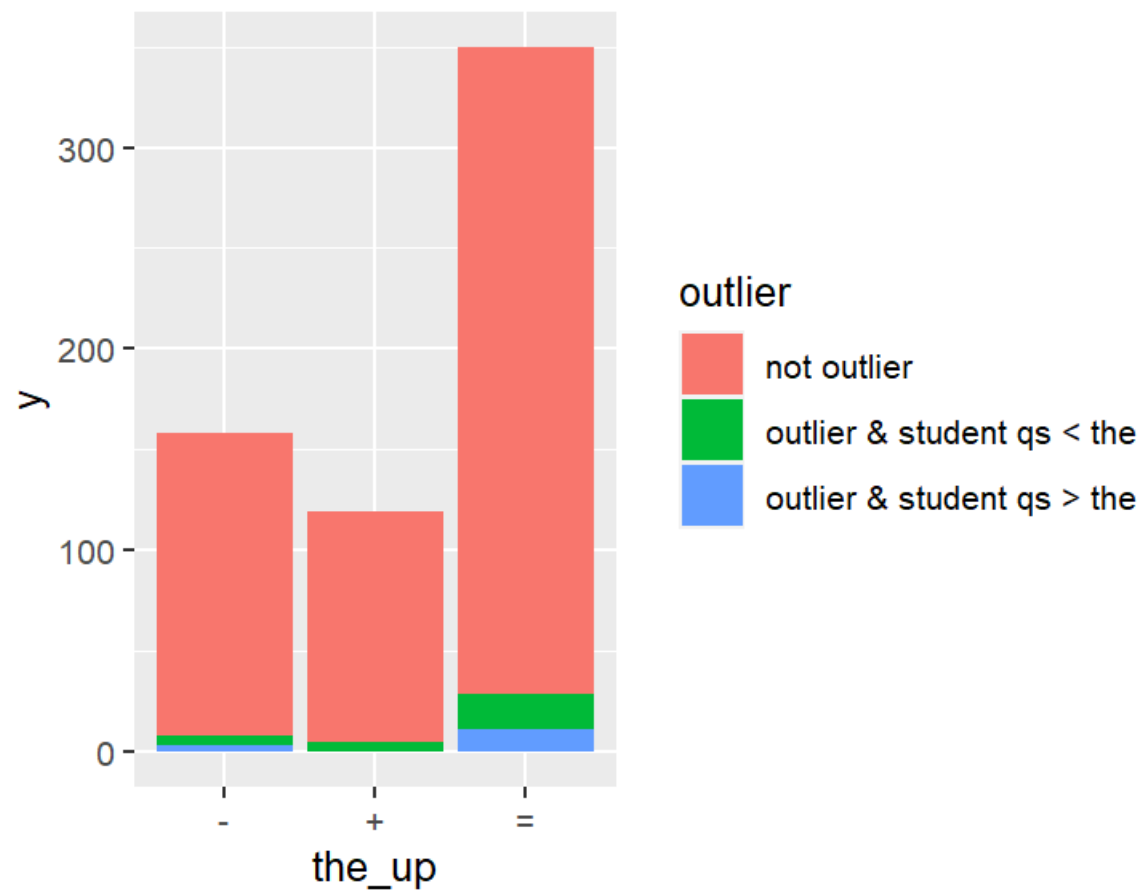
	Df	Sum Sq	Mean Sq	F	value	Pr(>F)
group_rank	6	2.111e+07	3517978		1.132	0.342
Residuals	624	1.939e+09	3107757			

- --- 1 1-200 ---
- Number of university: 127
- Mean of "diff": 116.378
- Number of students of qs > the
- se of "diff": 207.2454
- p-value of t test if diff of "1 1-200" = 0: 0.3414
- p-value of t test if pdiff of "1 1-200" = 0: 0.2787
- --- 2 201-400 ---
- Number of university: 114
- Mean of "diff": -190.7281
- Number of students of qs < the
- se of "diff": 203.7091
- p-value of t test if diff of "2 201-400" = 0: 0.1428
- p-value of t test if pdiff of "2 201-400" = 0: 0.1697
- --- 3 401-600 ---
- Number of university: 101
- Mean of "diff": -141.4752
- Number of students of qs < the
- se of "diff": 314.7755
- p-value of t test if diff of "3 401-600" = 0: 0.0515*
- p-value of t test if pdiff of "3 401-600" = 0: 0.1905

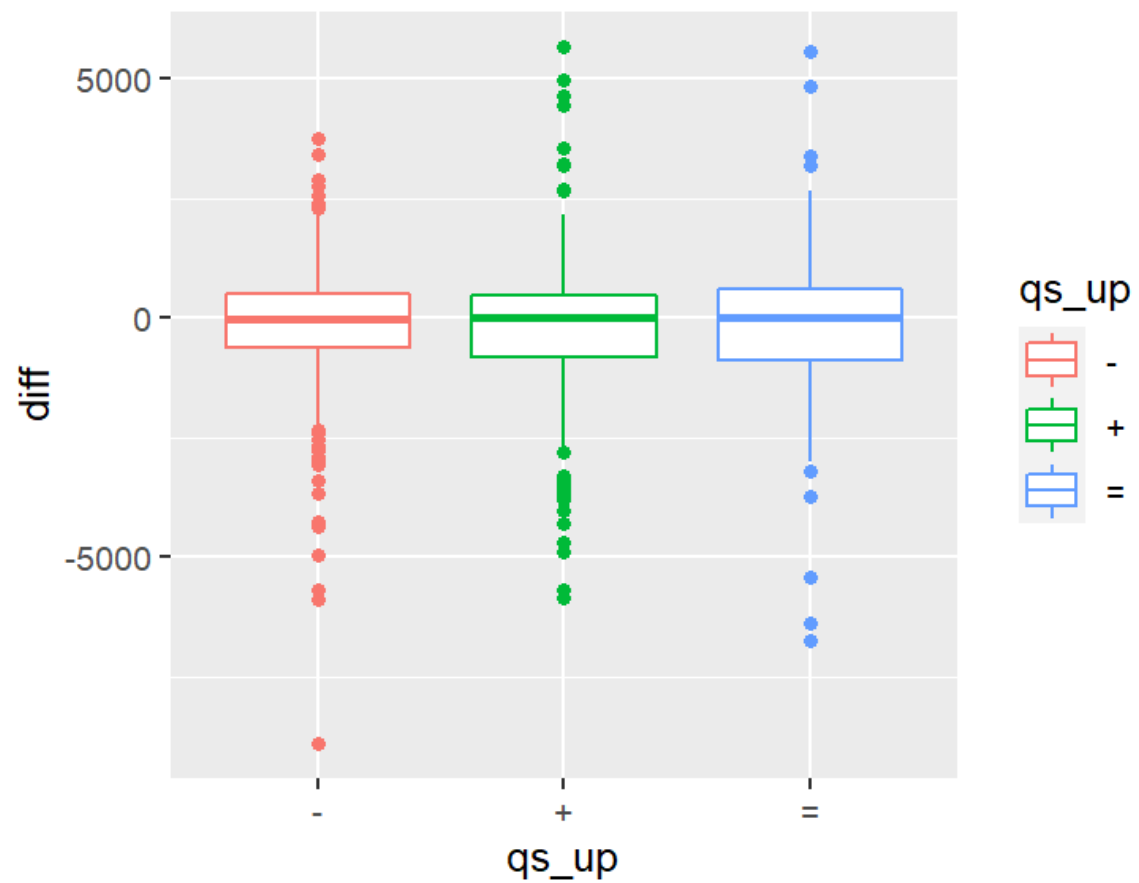
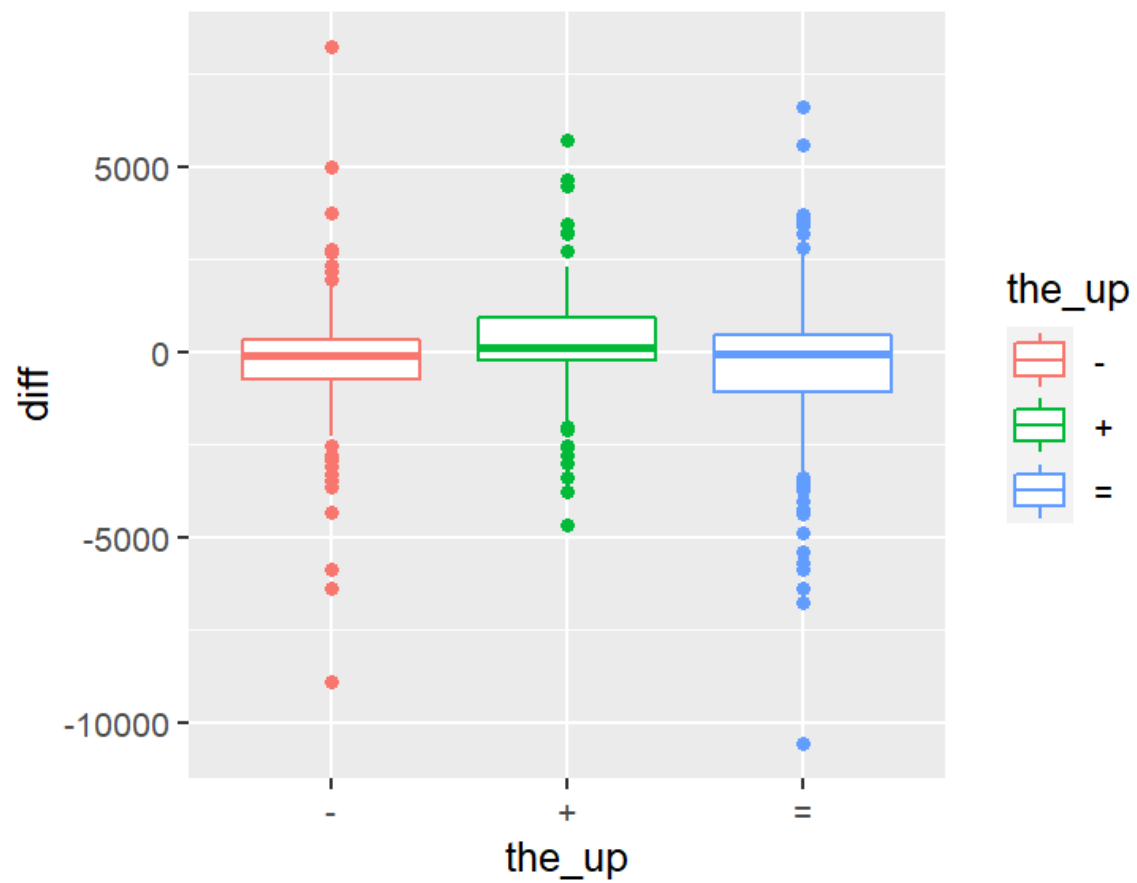
- --- 4 601-800 ---
- Number of university: 90
- Mean of "diff": -892.7556
- Number of students of qs < the
- se of "diff": 638.2833
- p-value of t test if diff of "4 601-800" = 0: 0.6783
- p-value of t test if pdiff of "4 601-800" = 0: 0.8994
- --- 5 801-1000 ---
- Number of university: 67
- Mean of "diff": -3100.597
- Number of students of qs < the
- se of "diff": 2605.947
- p-value of t test if diff of "5 801-1000" = 0: 0.2576
- p-value of t test if pdiff of "5 801-1000" = 0: 0.1428
- --- 6 1001-1200 ---
- Number of university: 61
- Mean of "diff": -2953.279
- Number of students of qs < the
- se of "diff": 1509.533
- p-value of t test if diff of "6 1001-1200" = 0: 0.2869
- p-value of t test if pdiff of "6 1001-1200" = 0: 0.1132

- --- 7 1200+ ---
- Number of university: 119
- Mean of "diff": 64.7395
- Number of students of qs > the
- se of "diff": 341.2634
- p-value of t test if diff of "7 1200+" = 0: 0.0663*
- p-value of t test if pdiff of "7 1200+" = 0: 0.0102*

排名上升或下降



without outlier



with outlier

	Df	Sum Sq	Mean Sq	F	value	Pr(>F)
the_up	2	1.073e+08	53647919	0.779	0.460	
qs_up	2	1.516e+08	75801862	1.100	0.334	
Residuals	549	3.783e+10	68908608			

without outlier

	Df	Sum Sq	Mean Sq	F value	Pr(>F)	
the_up	2	3.036e+07	15179098	5.551	0.00412	**
qs_up	2	1.671e+06	835718	0.306	0.73681	
Residuals	514	1.406e+09	2734586			

- --- + ---

- Number of university: 192

- Mean of "diff": - 294.8229

- Number of students of qs < the

- se of "diff": 200.3048

- p-value of t test if diff of "+" = 0: 0.143

- p-value of t test if pdiff of "+" = 0: 0.0458*

- --- - ---

- Number of university: 243

- Mean of "diff": - 507.5597

- Number of students of qs < the

- se of "diff": 265.1523

- p-value of t test if diff of "-" = 0: 0.0329*

- p-value of t test if pdiff of "-" = 0: 0.1865

- --- = ---

- Number of university: 161

- Mean of "diff": - 1589.876

- Number of students of qs < the

- se of "diff": 1124.421

- p-value of t test if diff of "=" = 0: 0.204

- p-value of t test if pdiff of "=" = 0: 0.2025