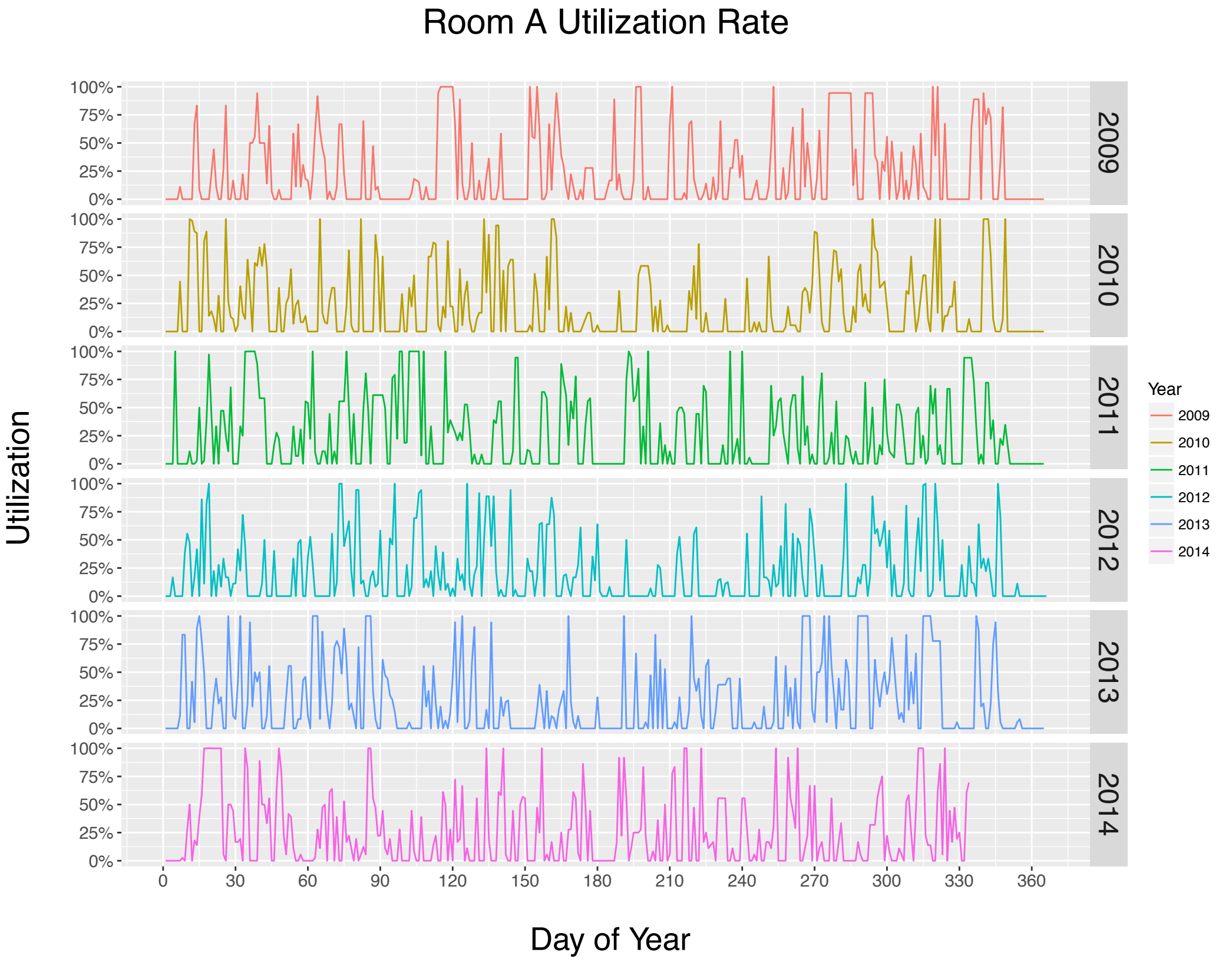
Room A Utilization Rate
Utilization
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100%
75%
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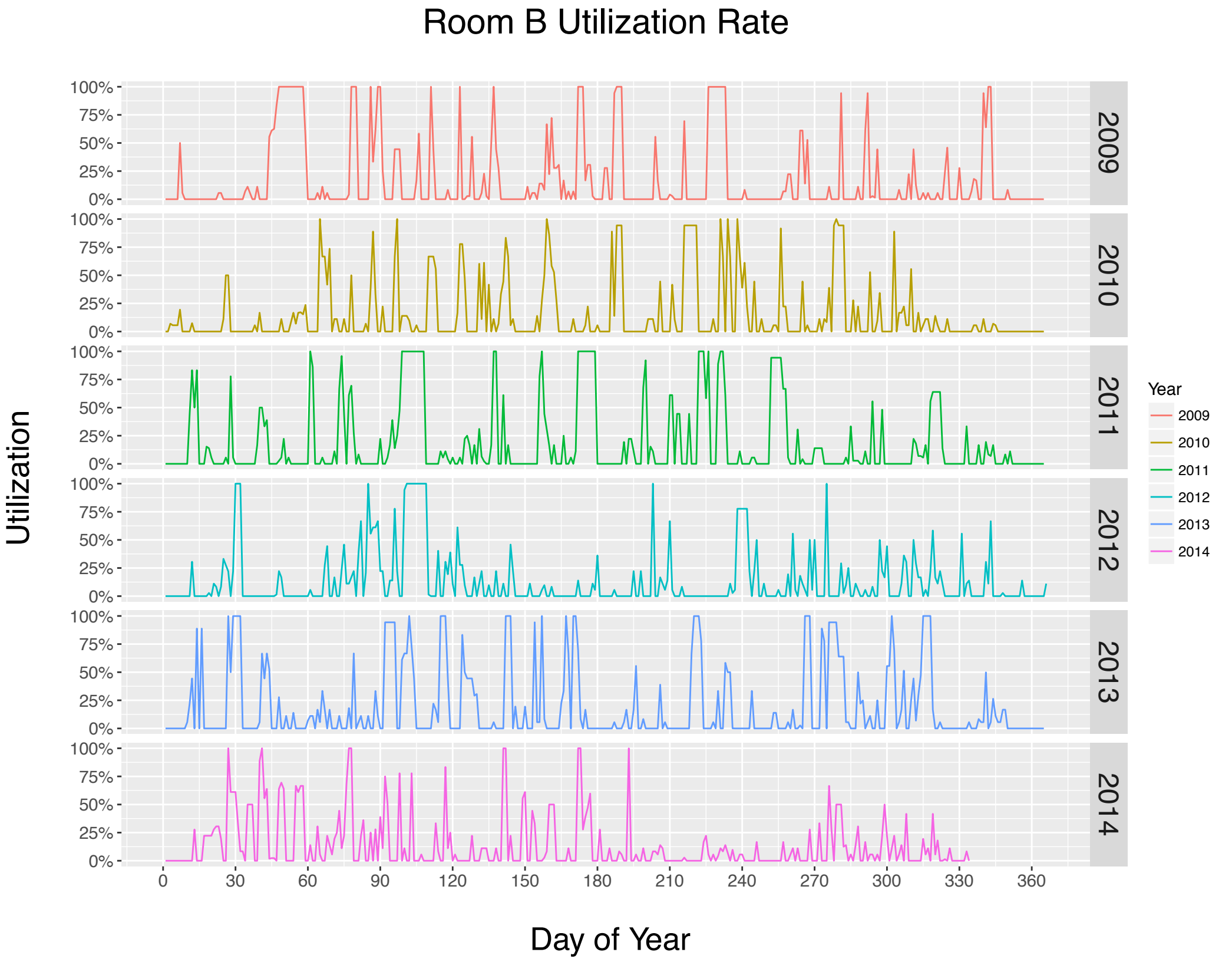
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Utilization
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Day of Year
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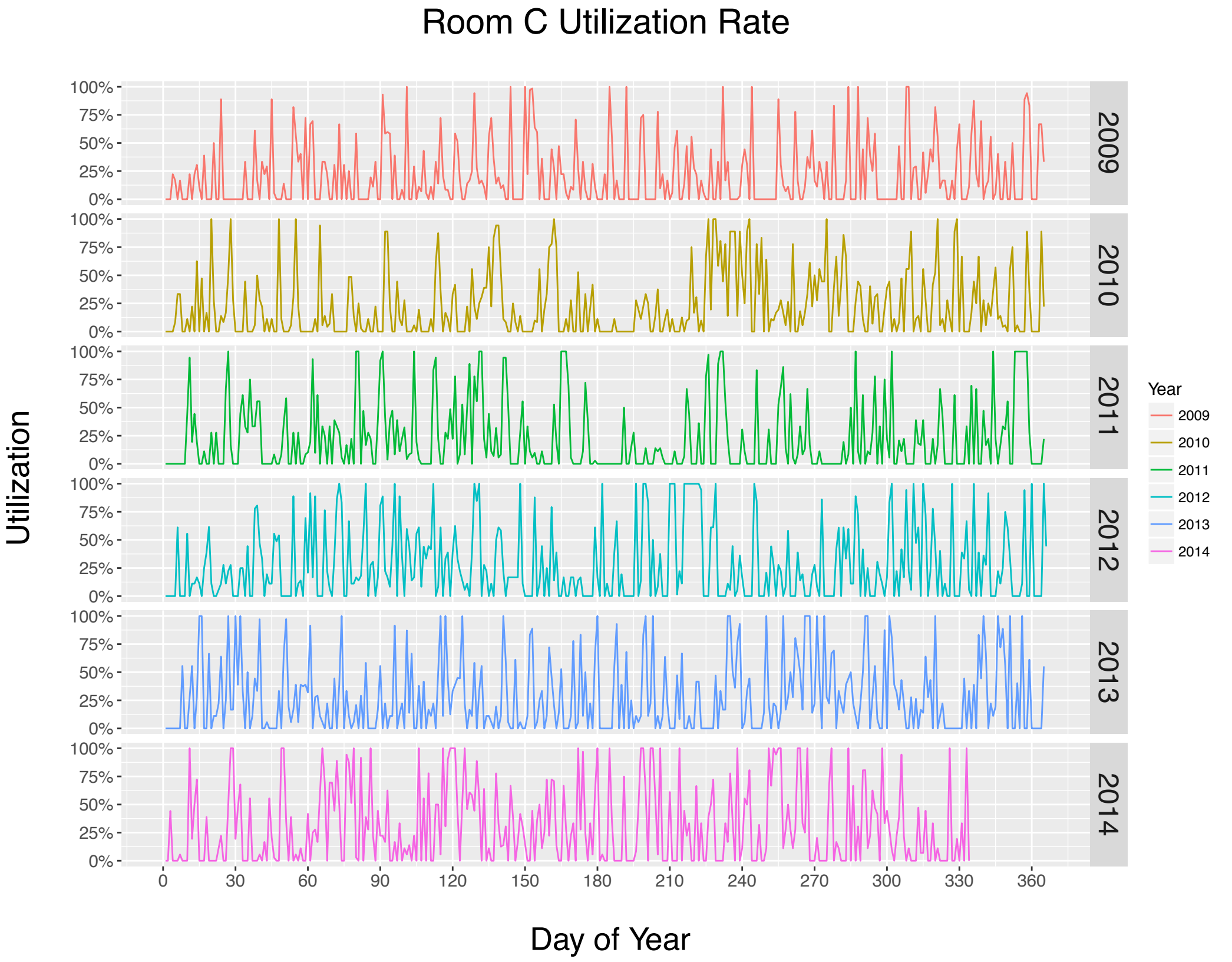
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Day of Year
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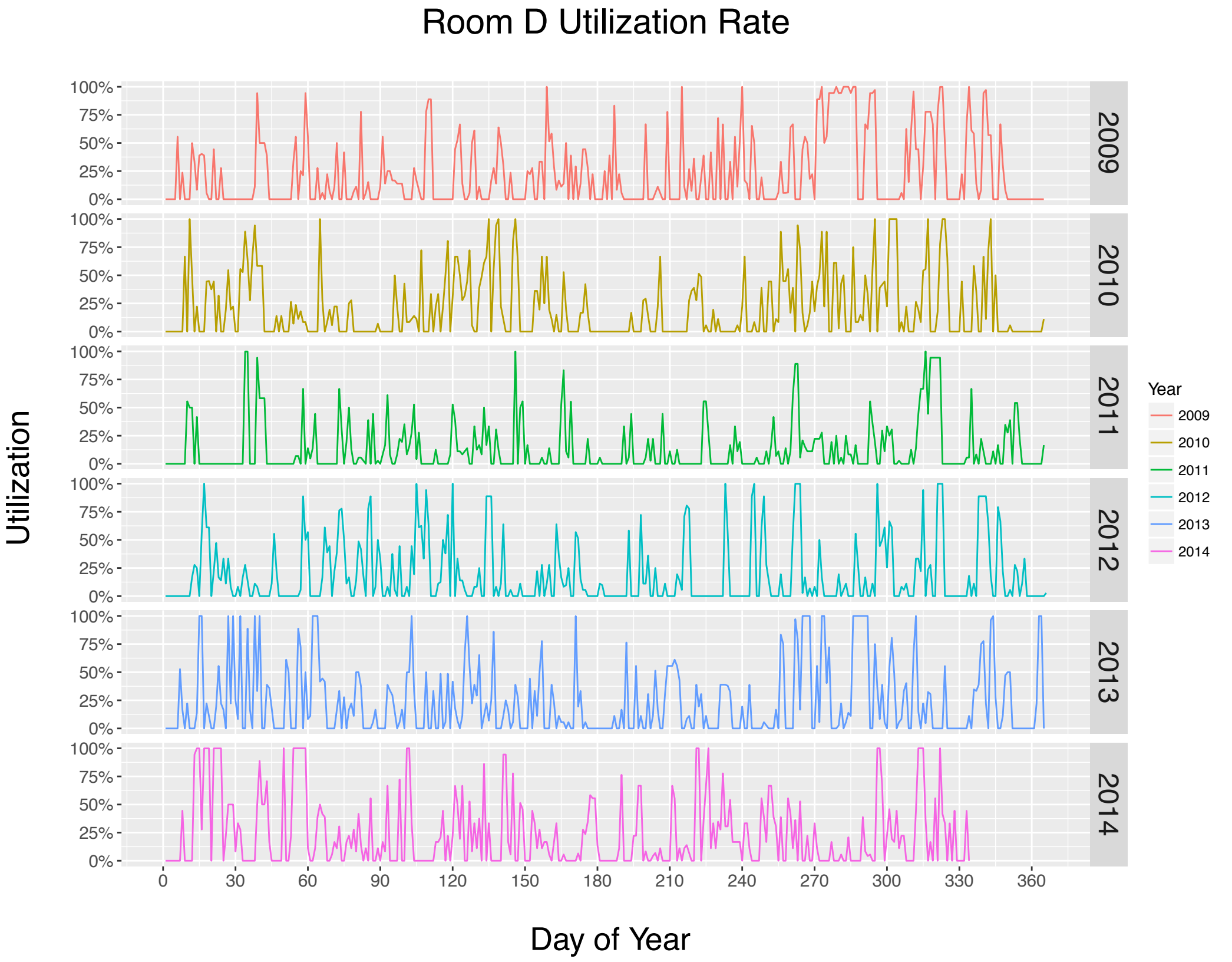
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Day of Year
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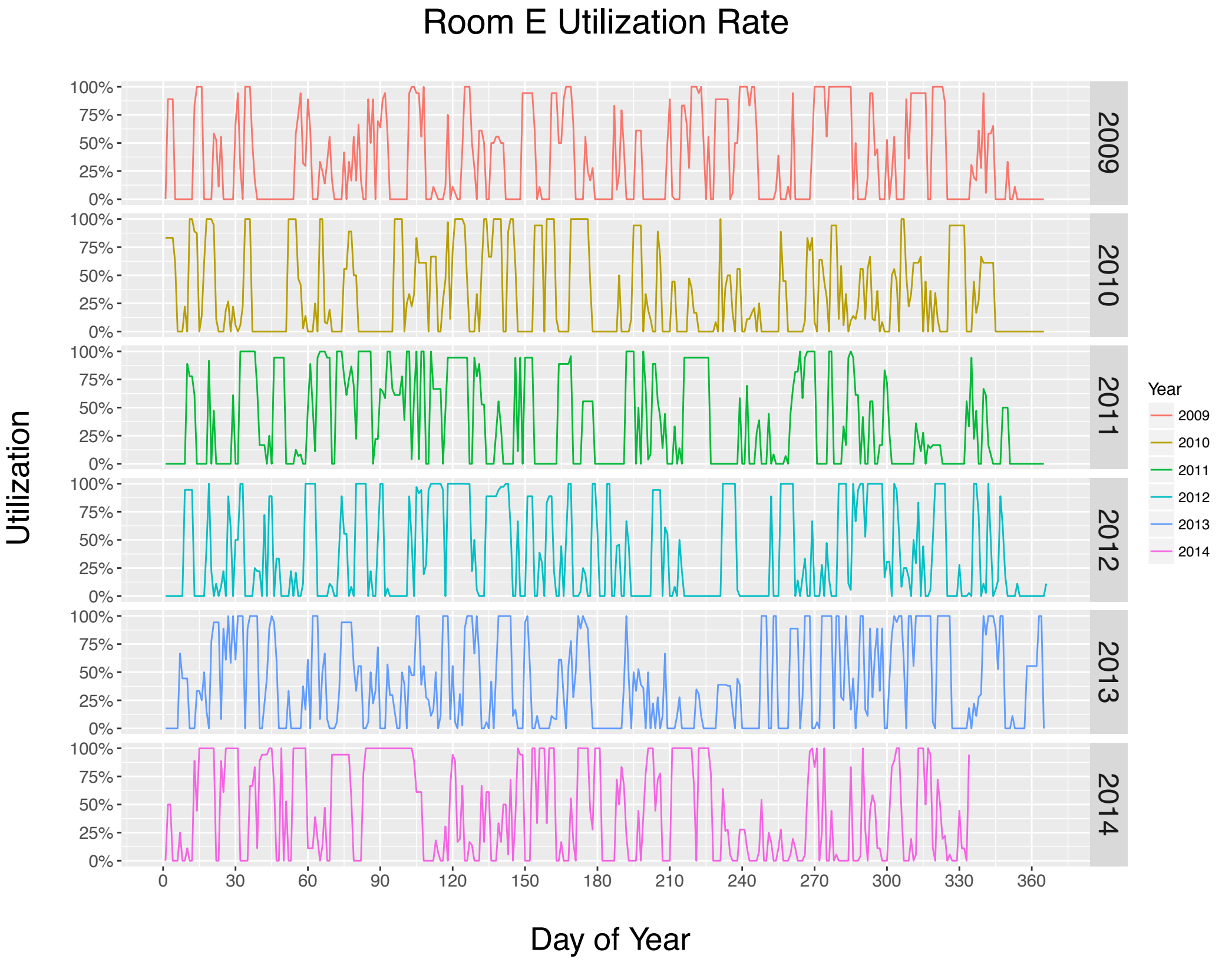
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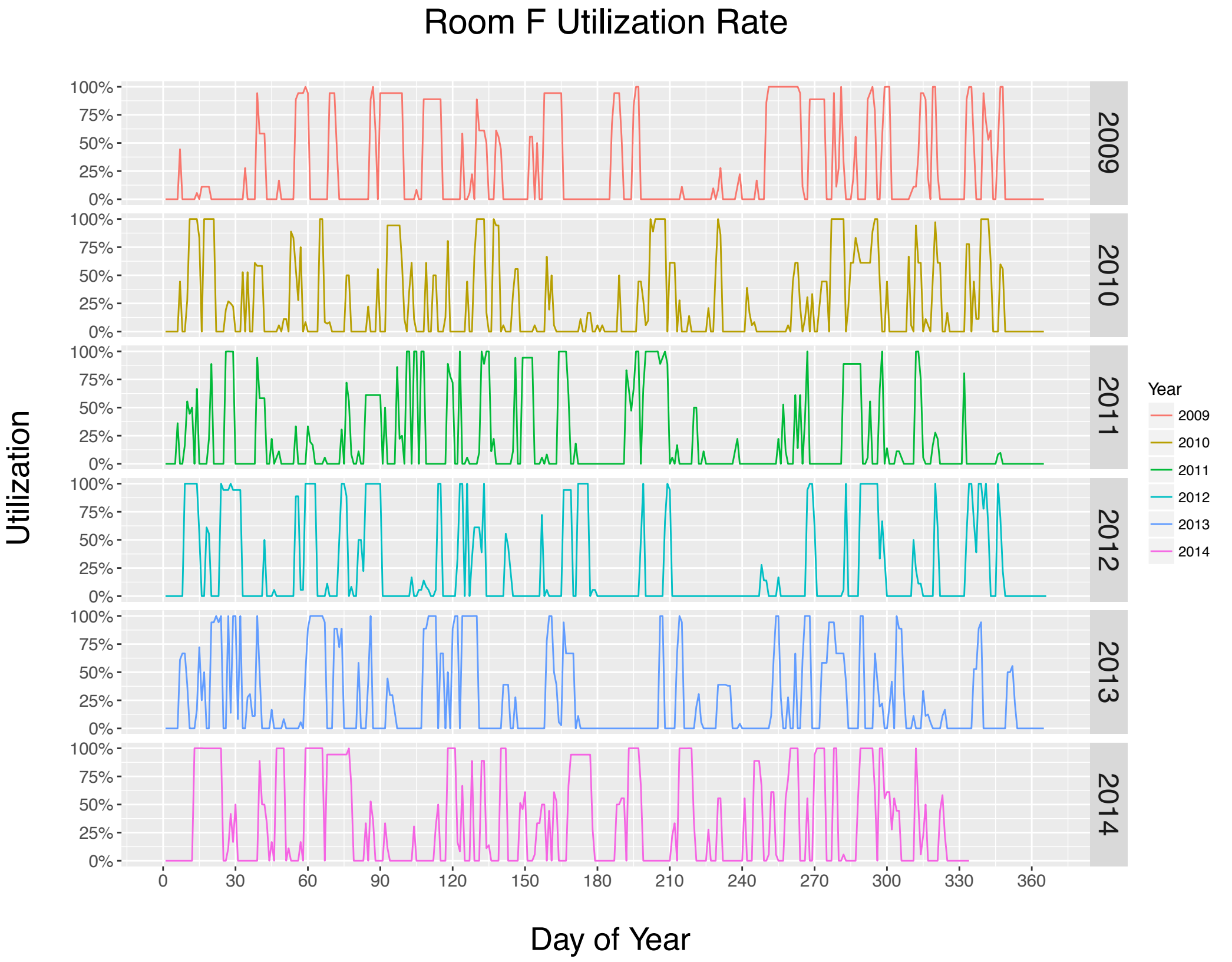
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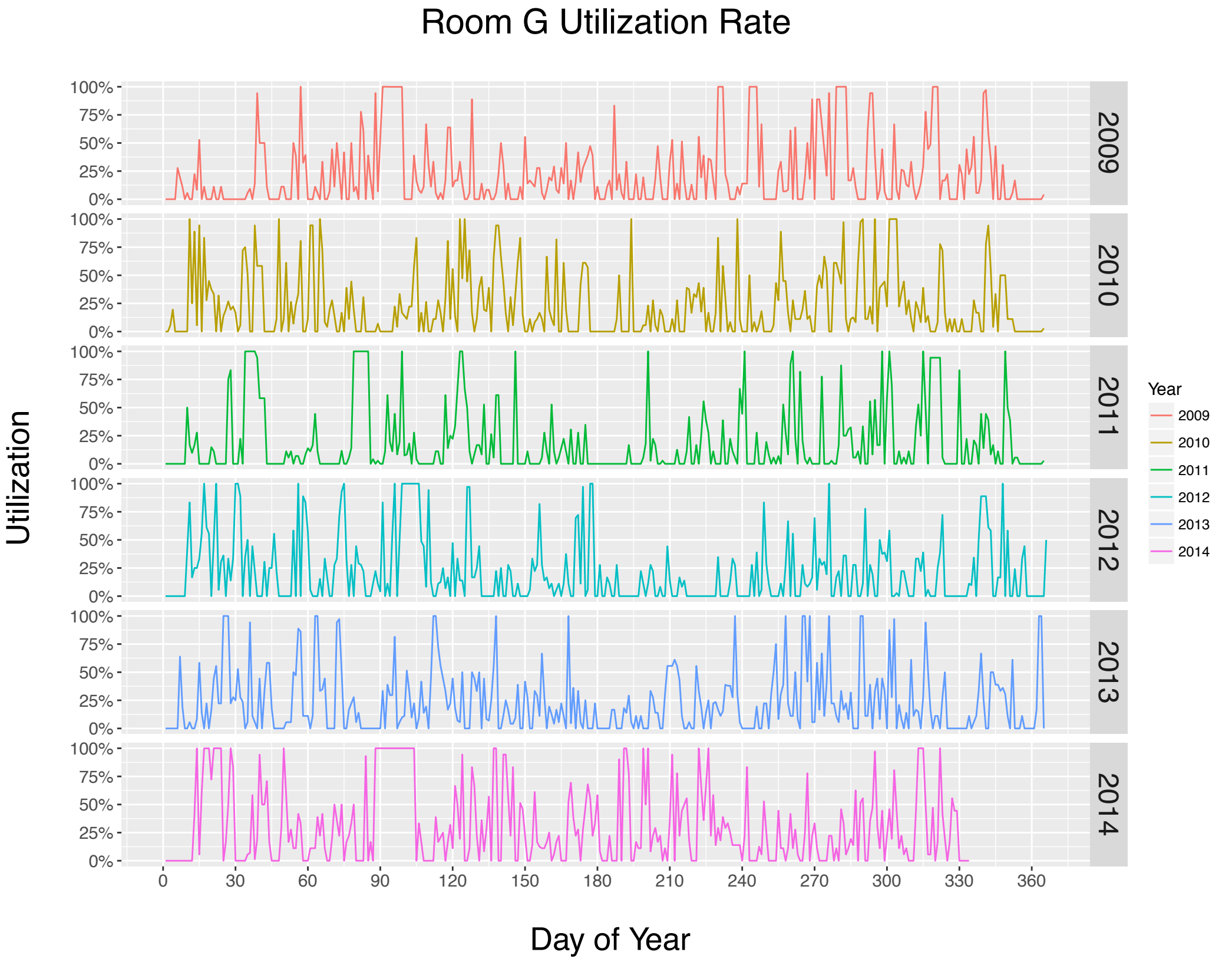
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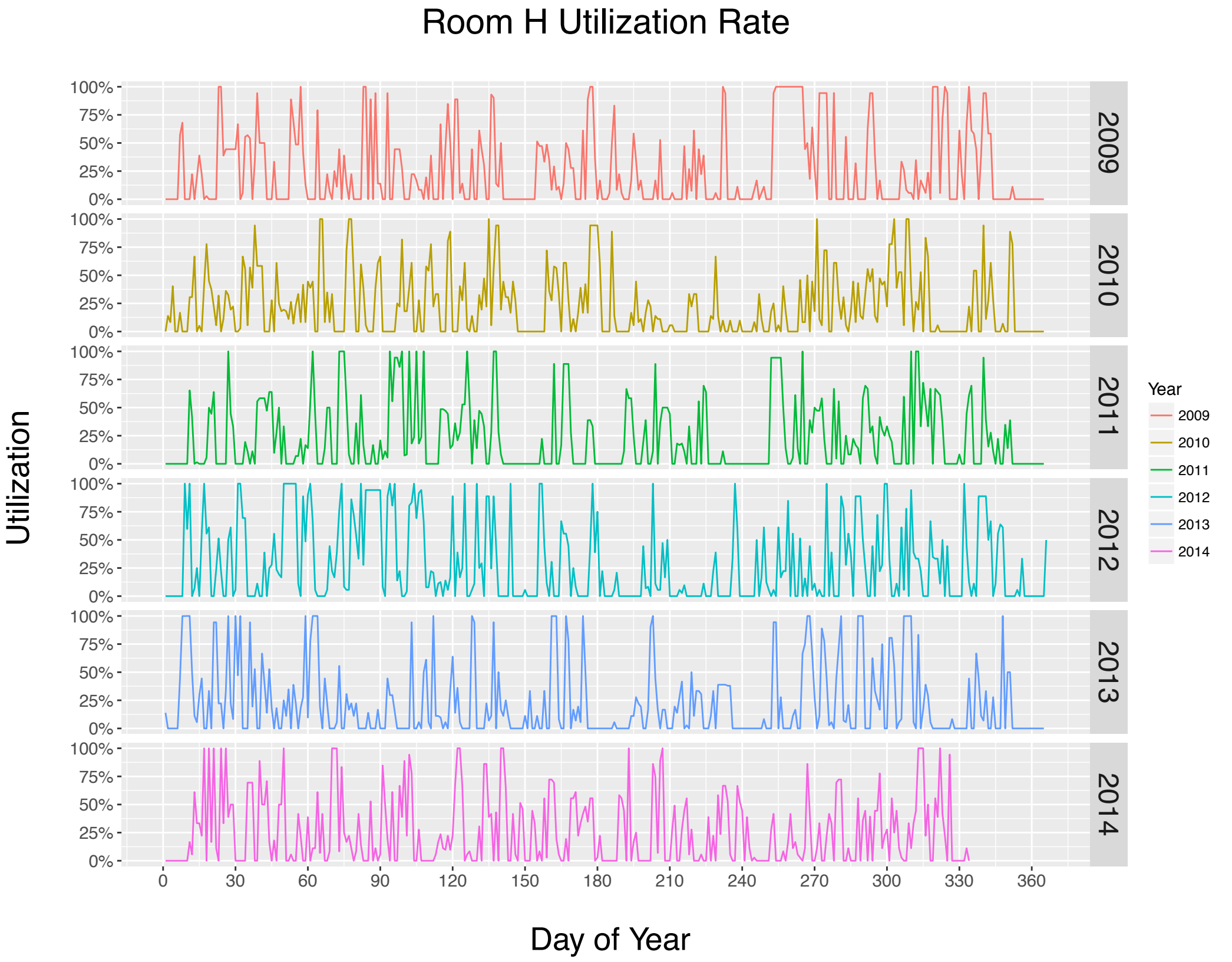
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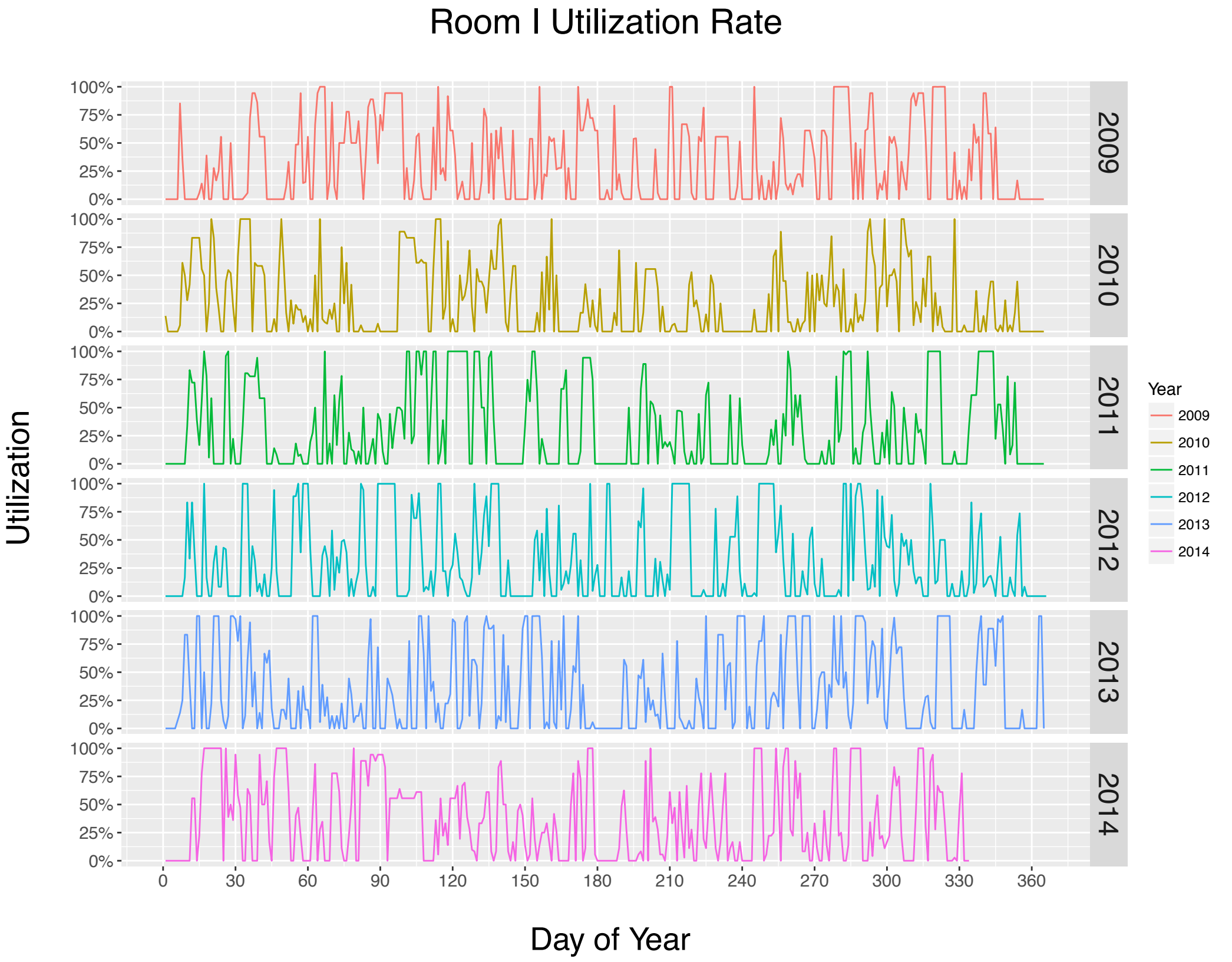
Room I Utilization Rate
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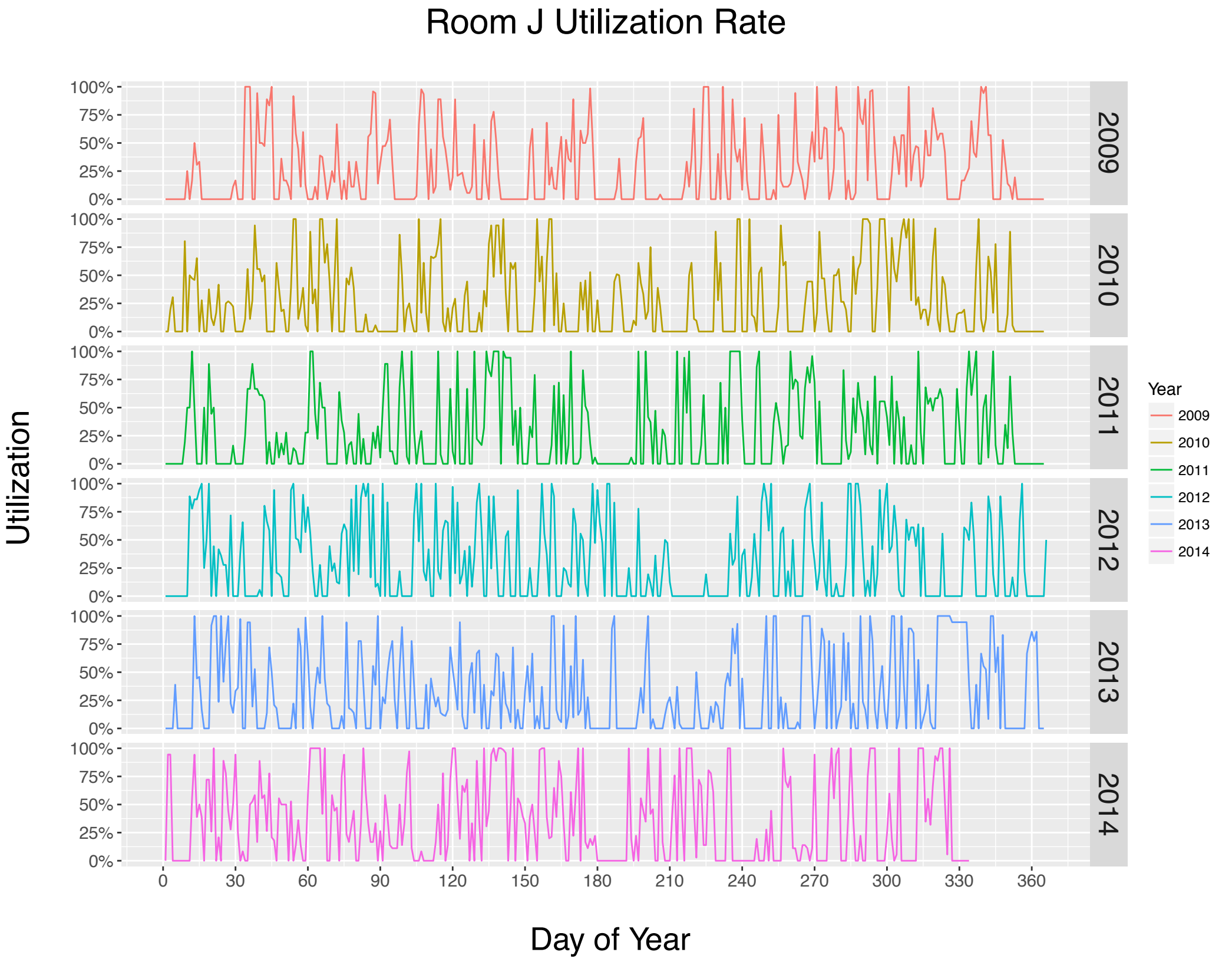
Room J Utilization Rate
Utilization
Day of Year
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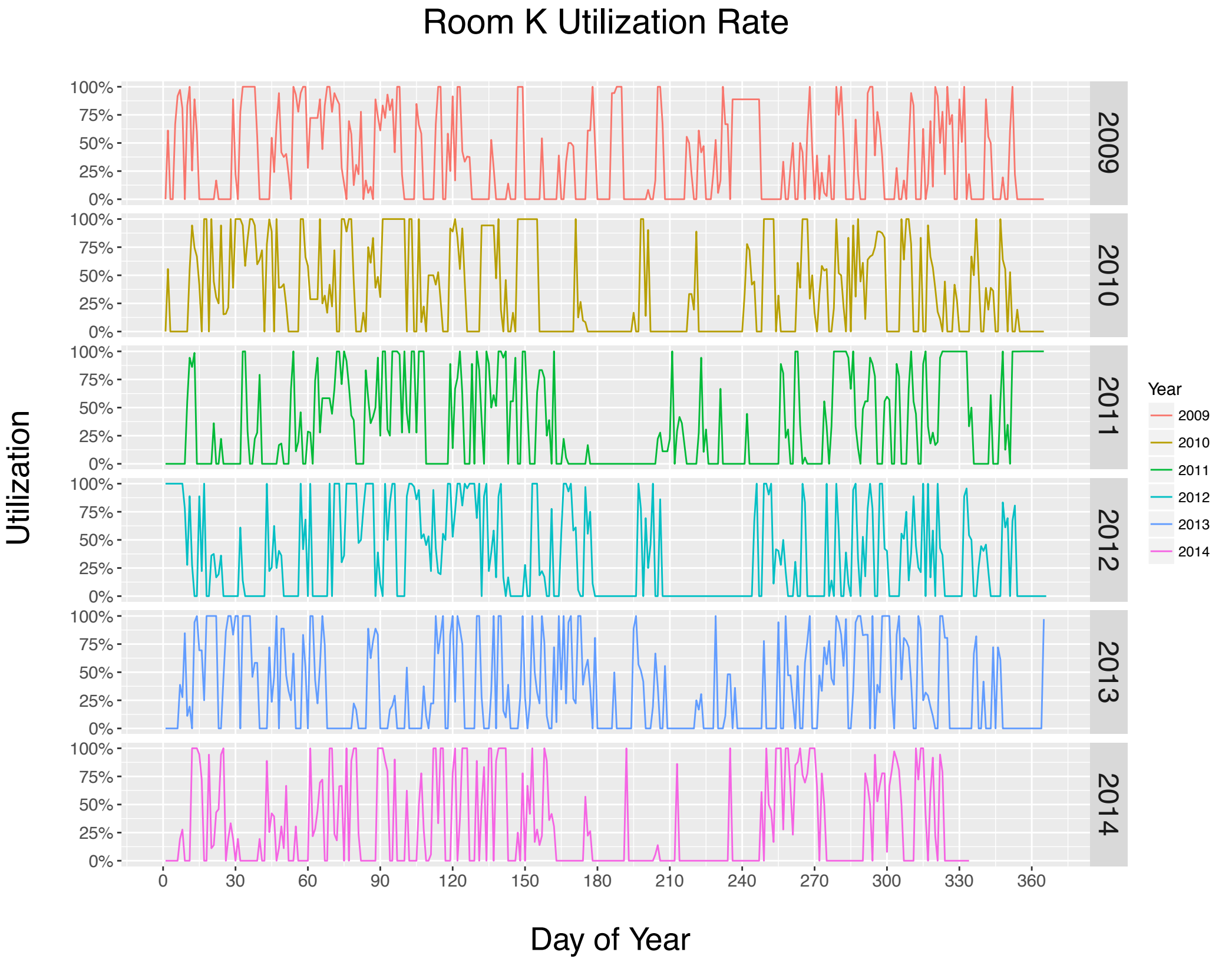
Room K Utilization Rate
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Day of Year
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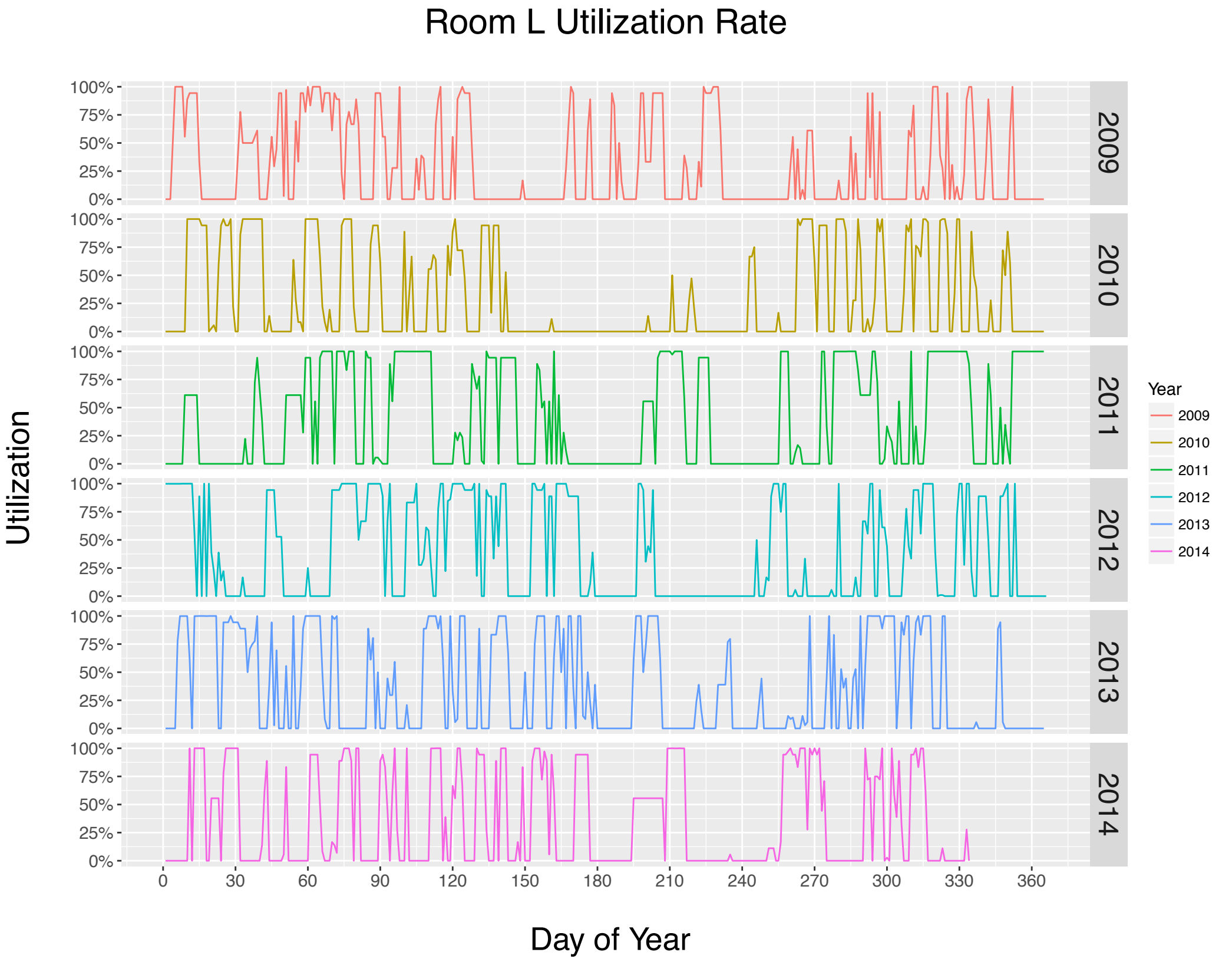
Room L Utilization Rate
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Day of Year
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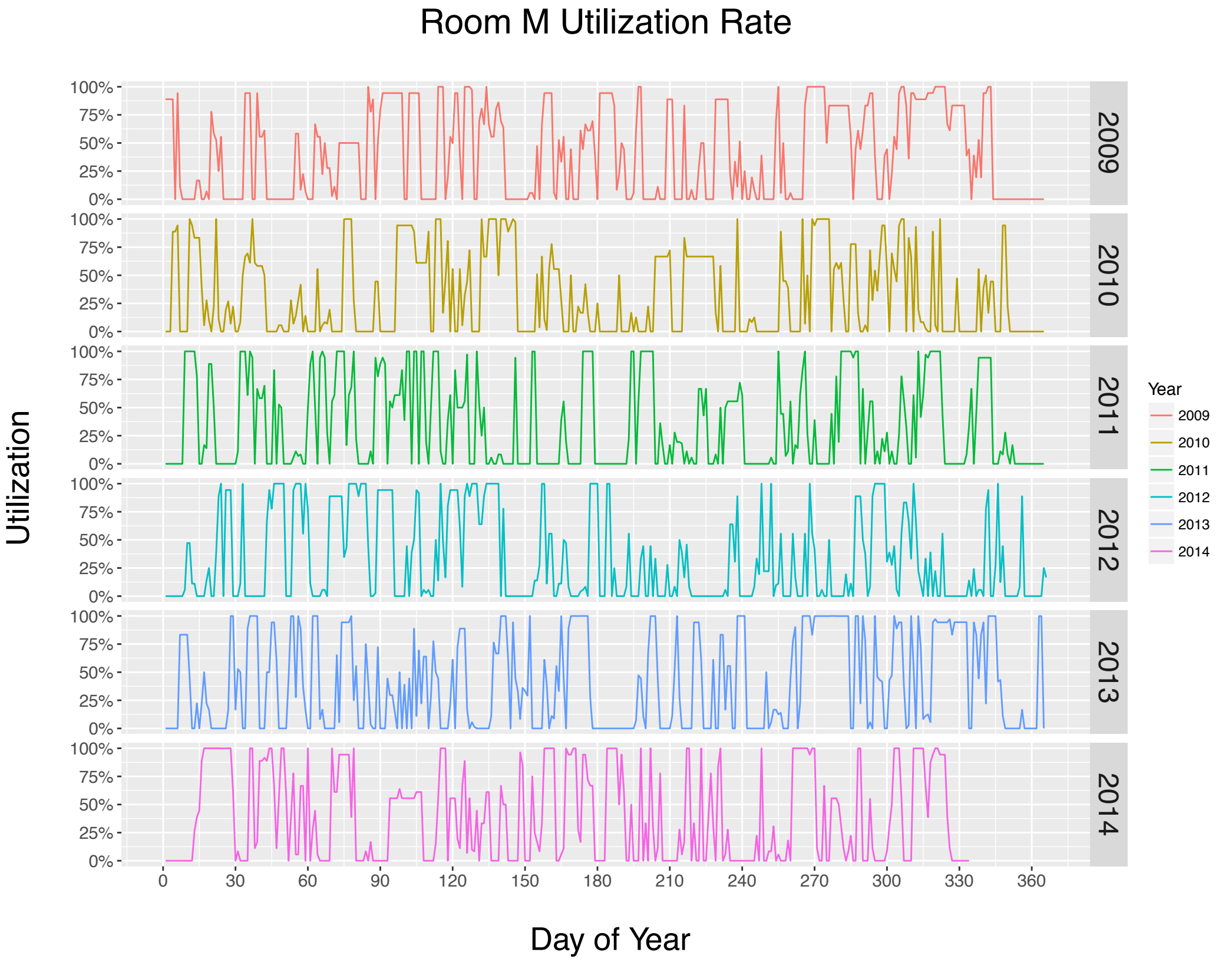
Room M Utilization Rate
Utilization
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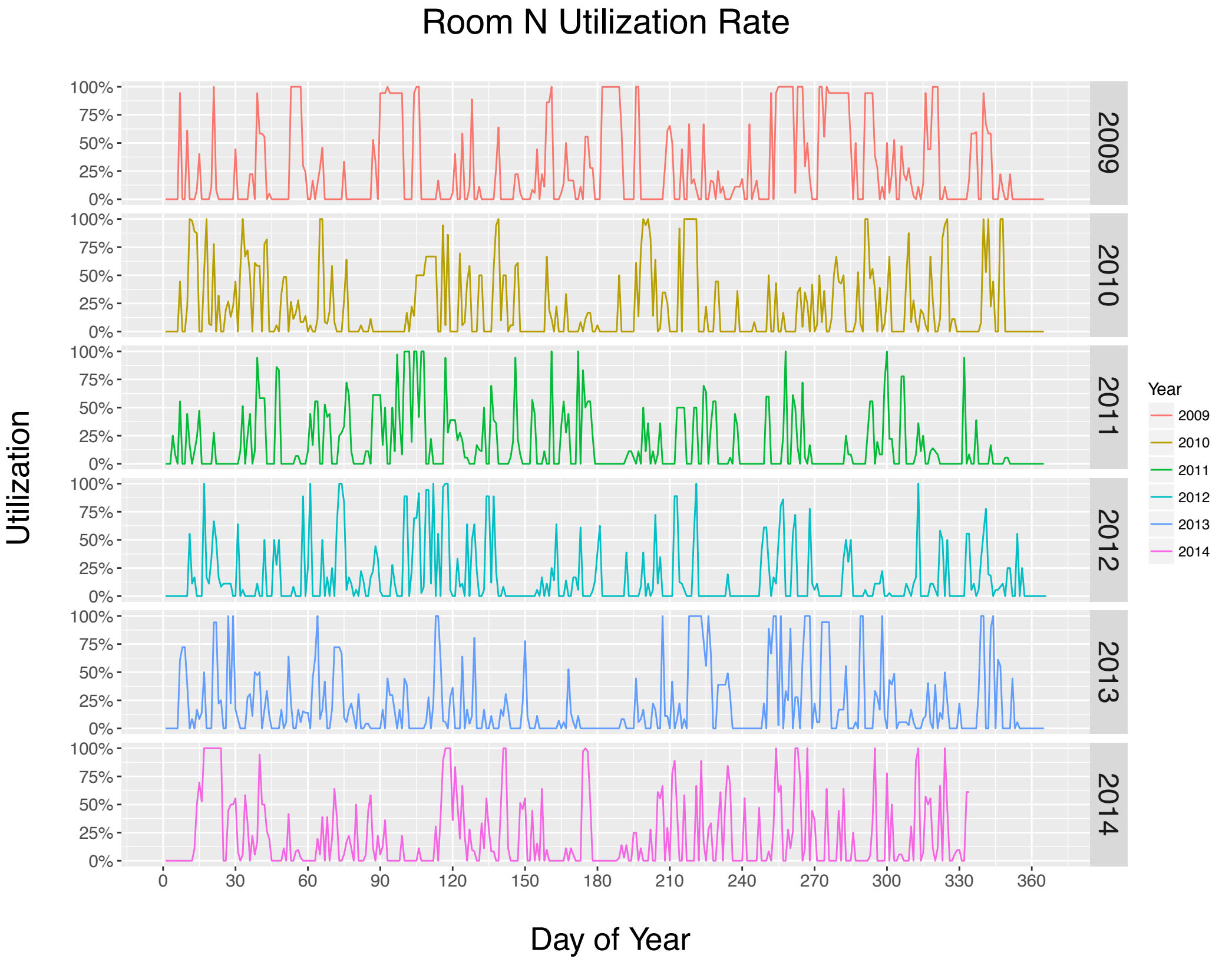
Room N Utilization Rate
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Day of Year
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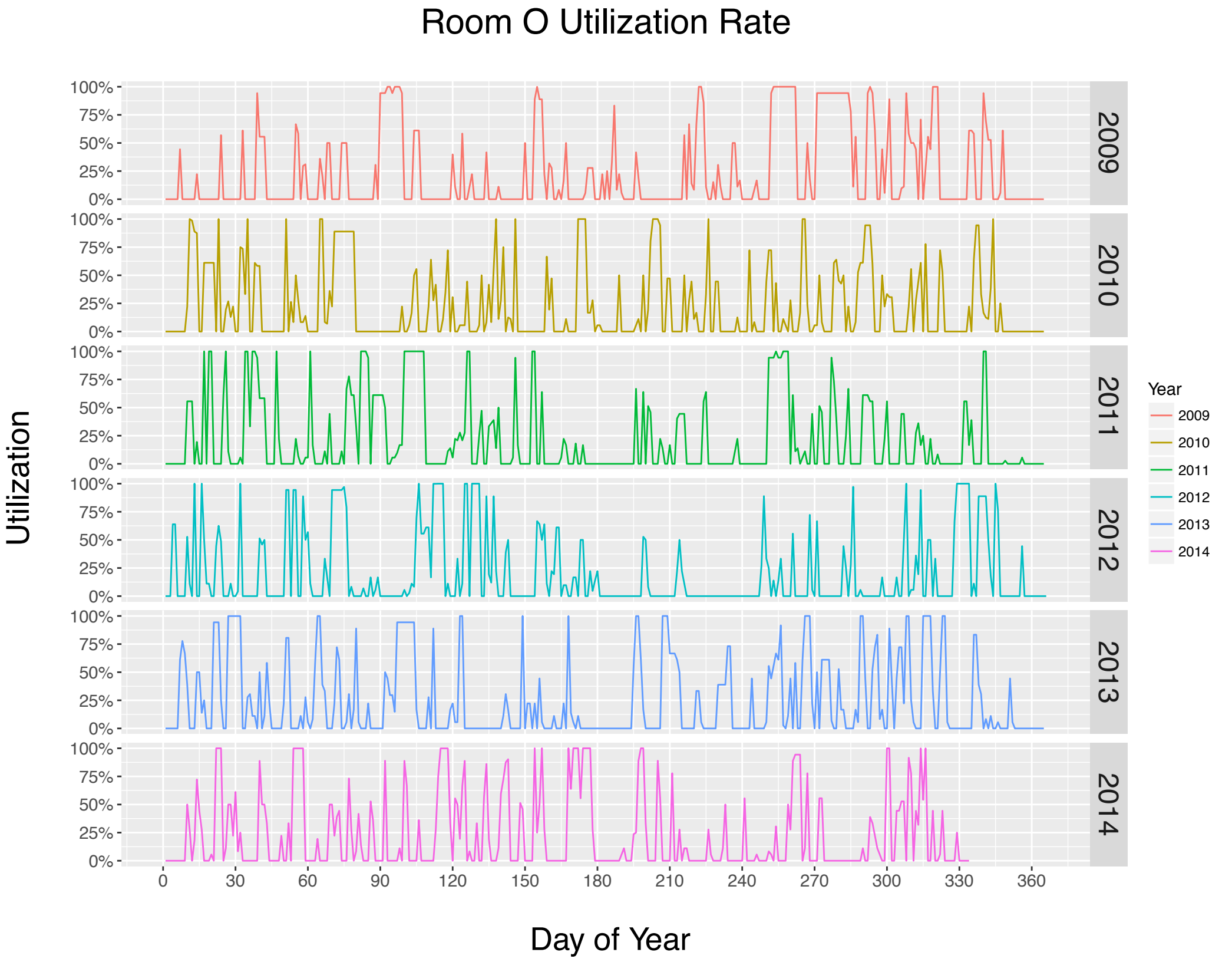
Room O Utilization Rate
Utilization
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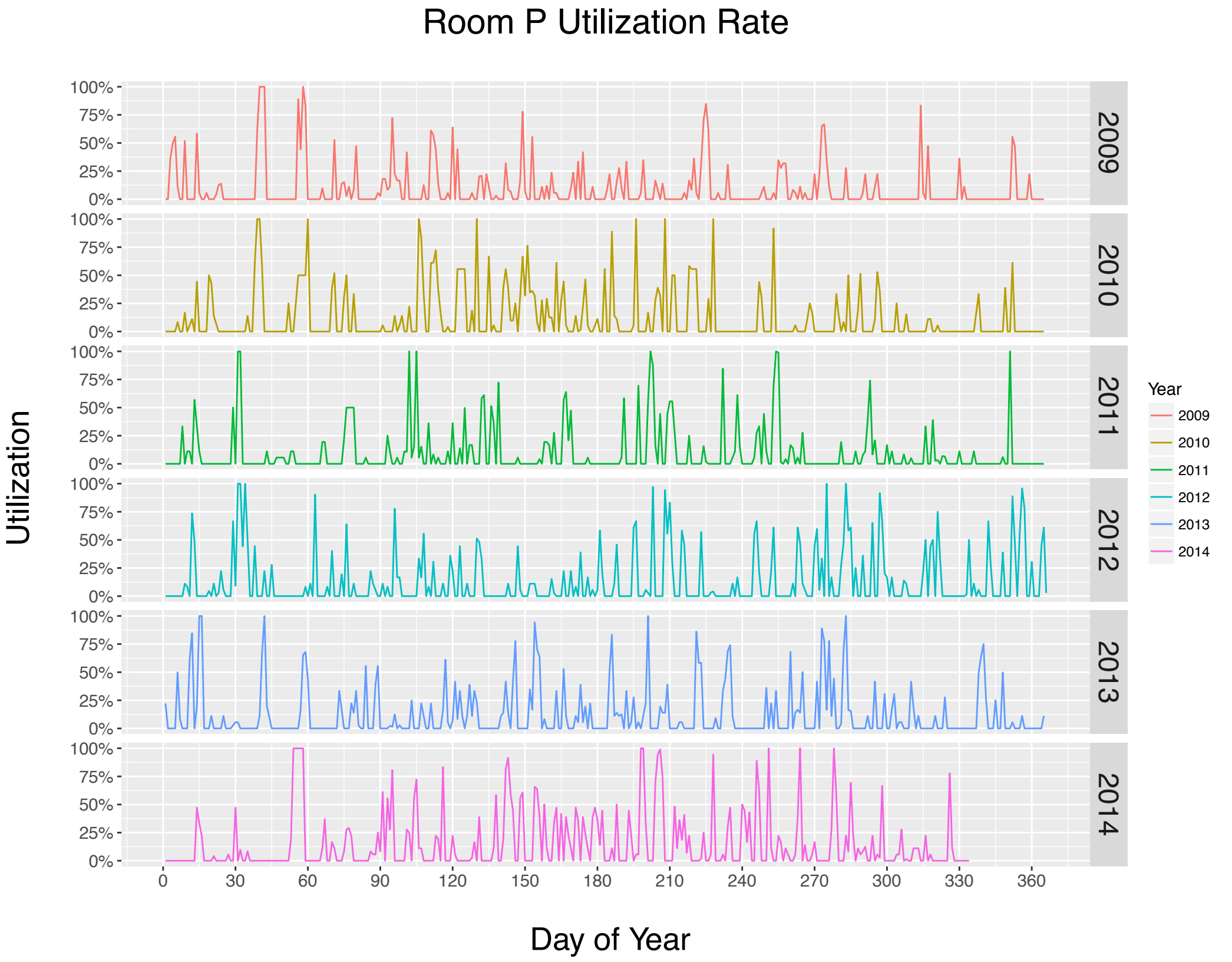
Day of Year


Room P Utilization Rate
Utilization
Day of Year
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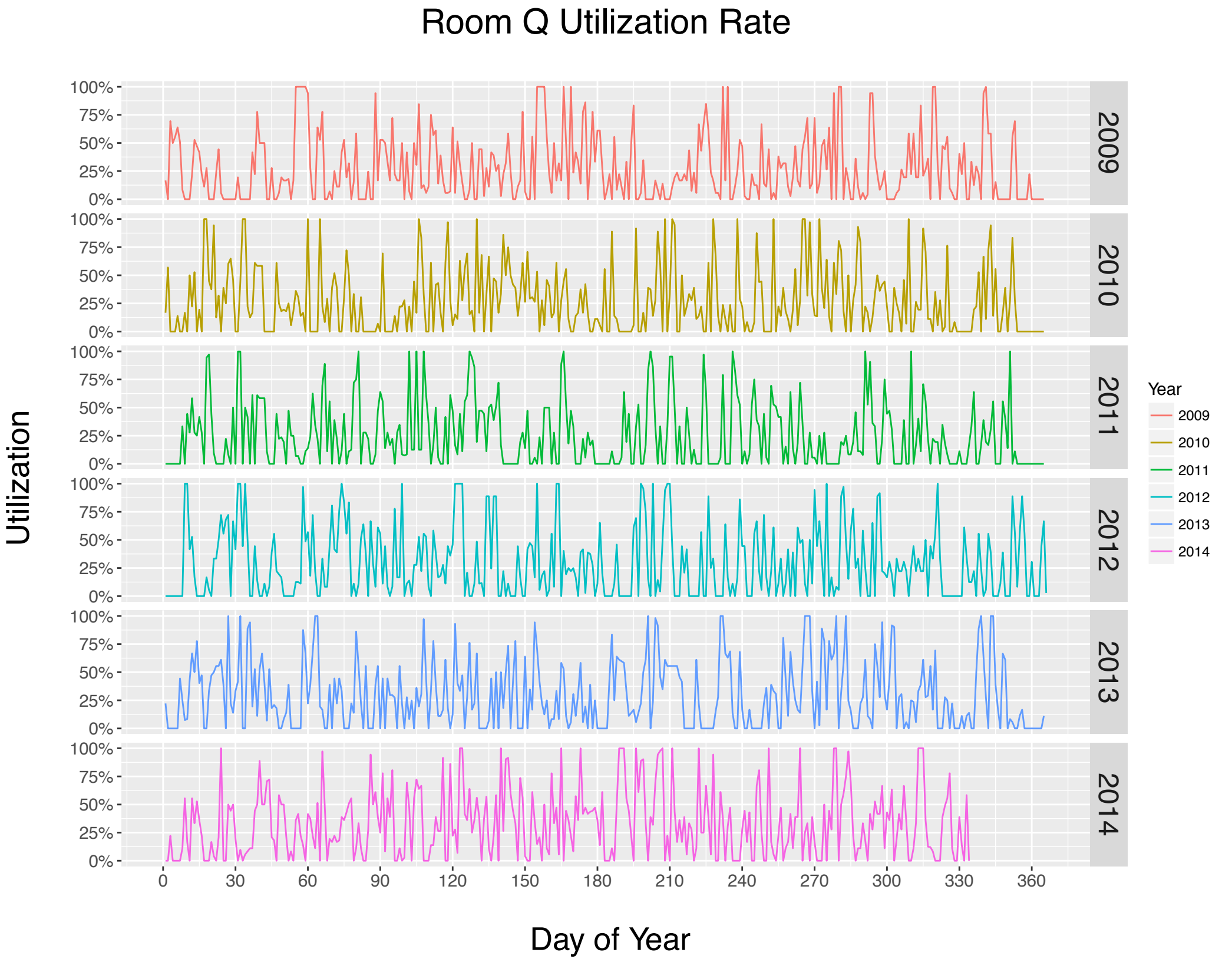
Room Q Utilization Rate
Utilization
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Day of Year
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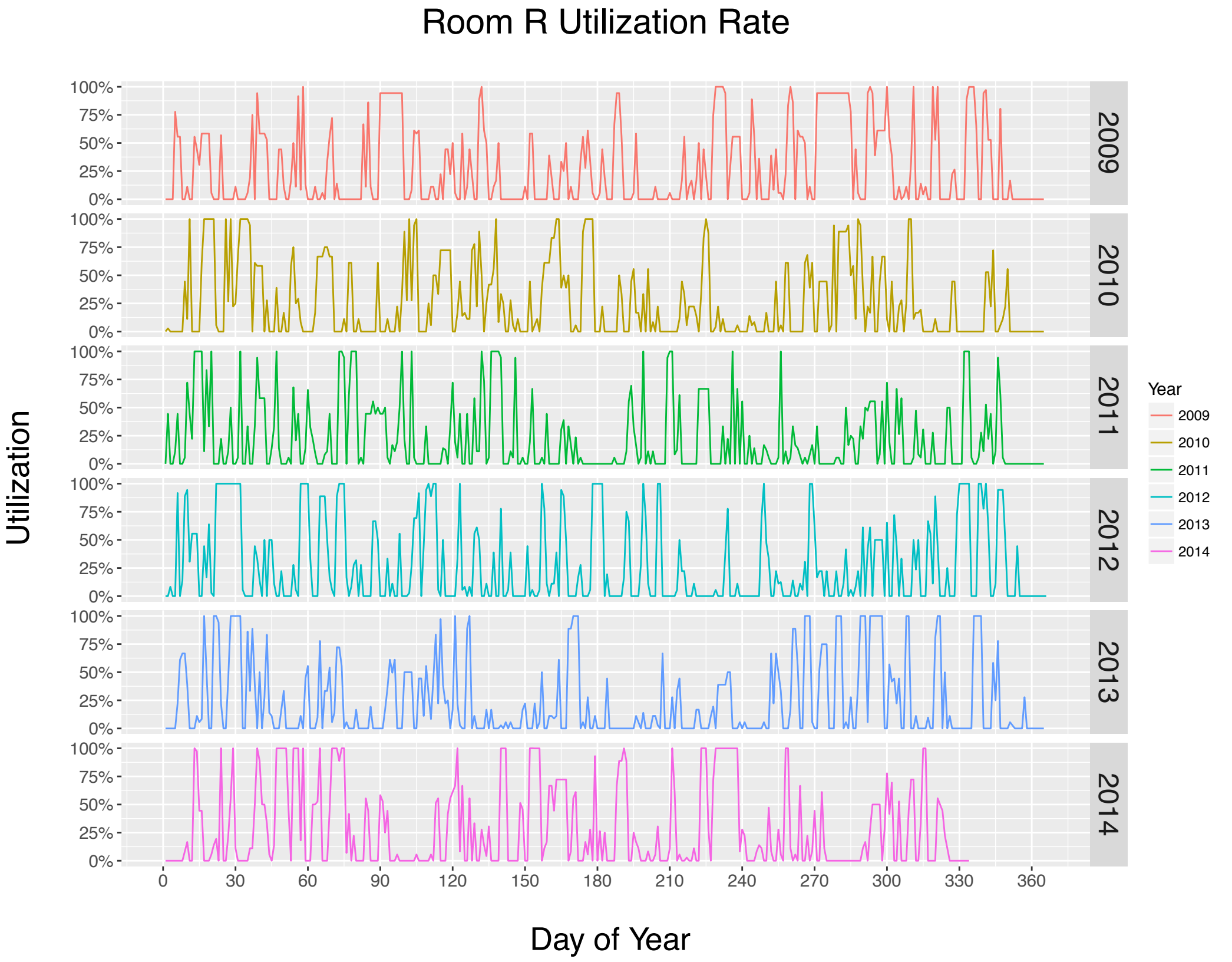
Room R Utilization Rate
Utilization
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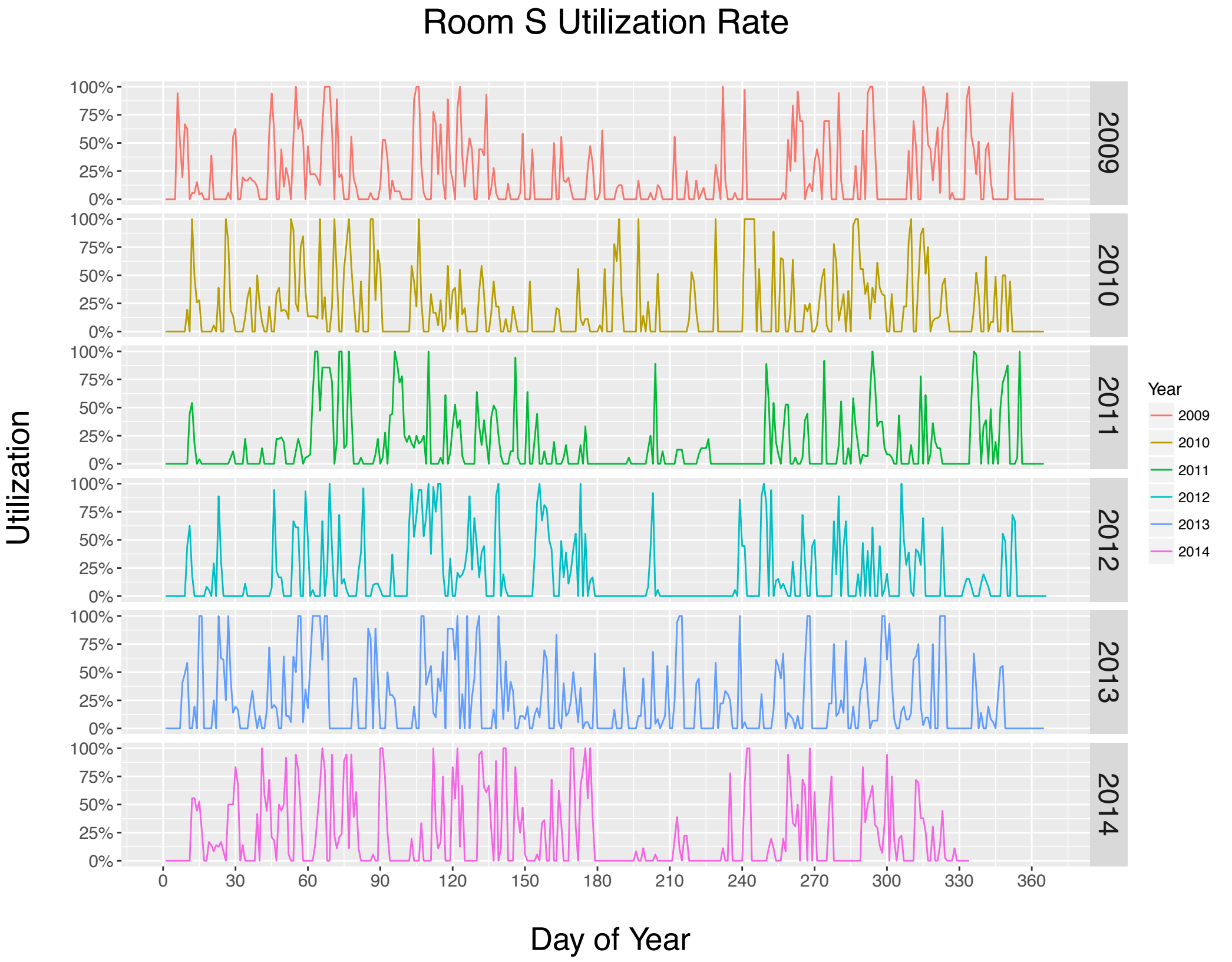
Day of Year


Room S Utilization Rate
Utilization
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Day of Year
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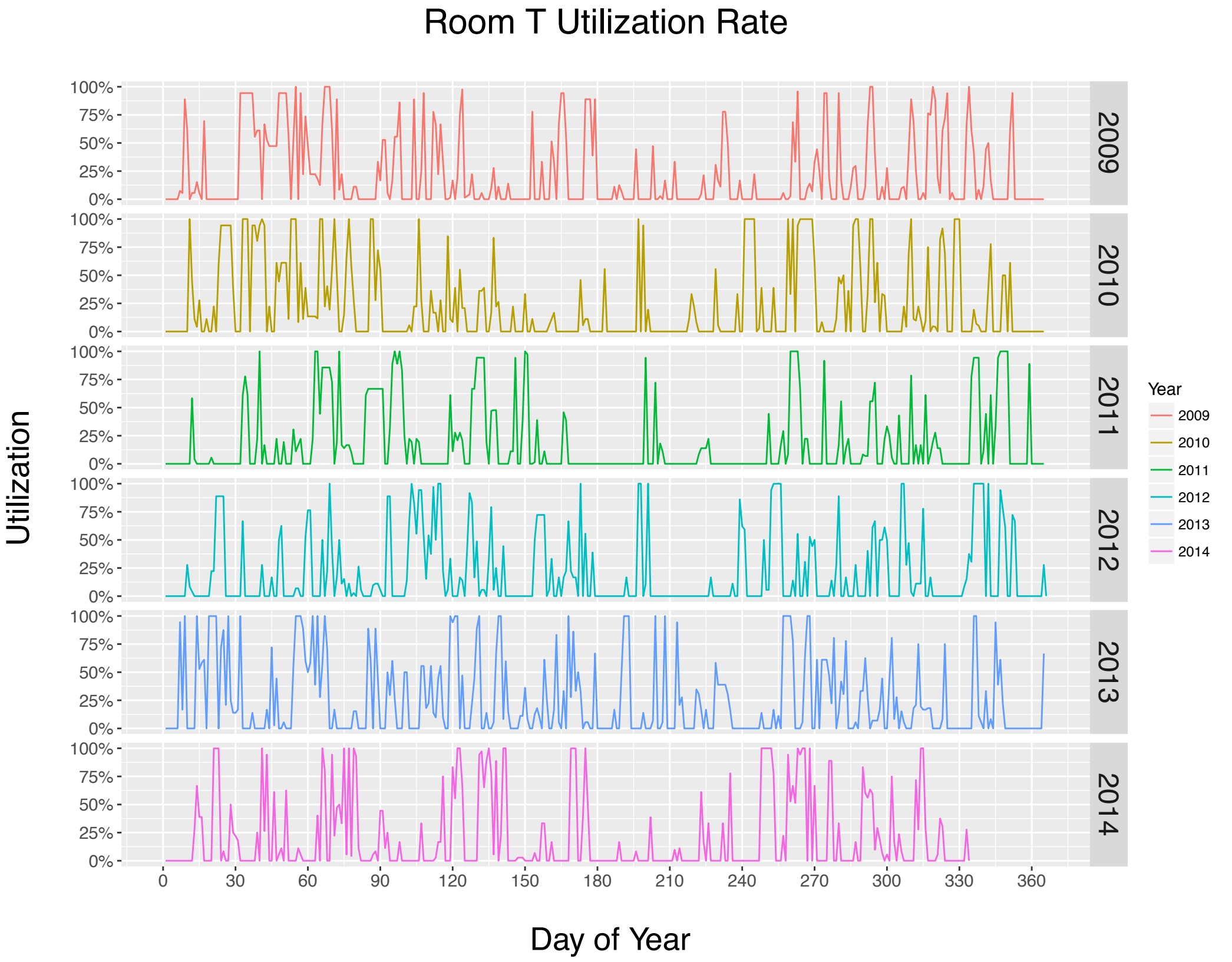
Room T Utilization Rate
Utilization
Day of Year
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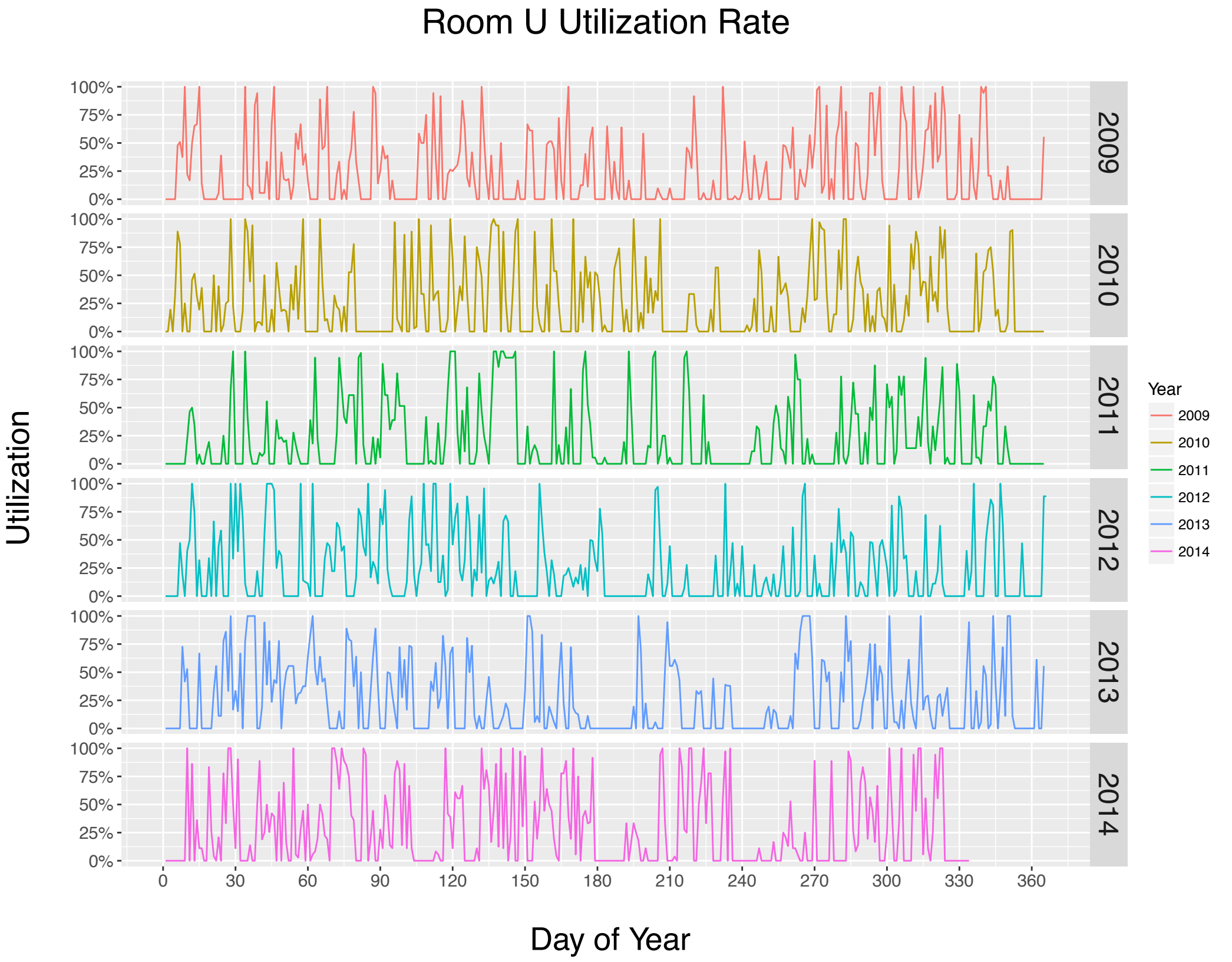
Room U Utilization Rate
Utilization
Day of Year
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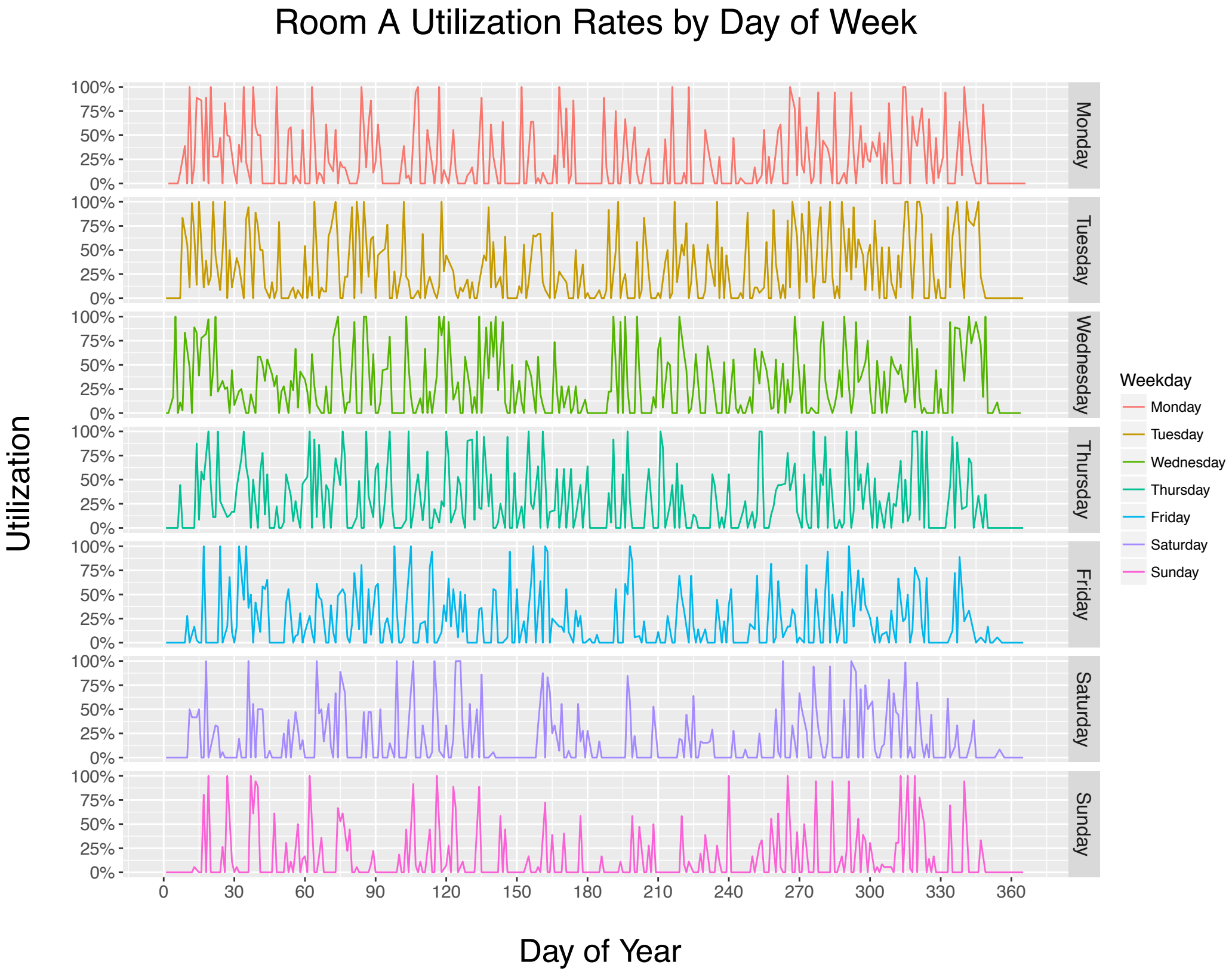
Room A Utilization Rates by Day of Week
Utilization
100%
75%
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Day of Year
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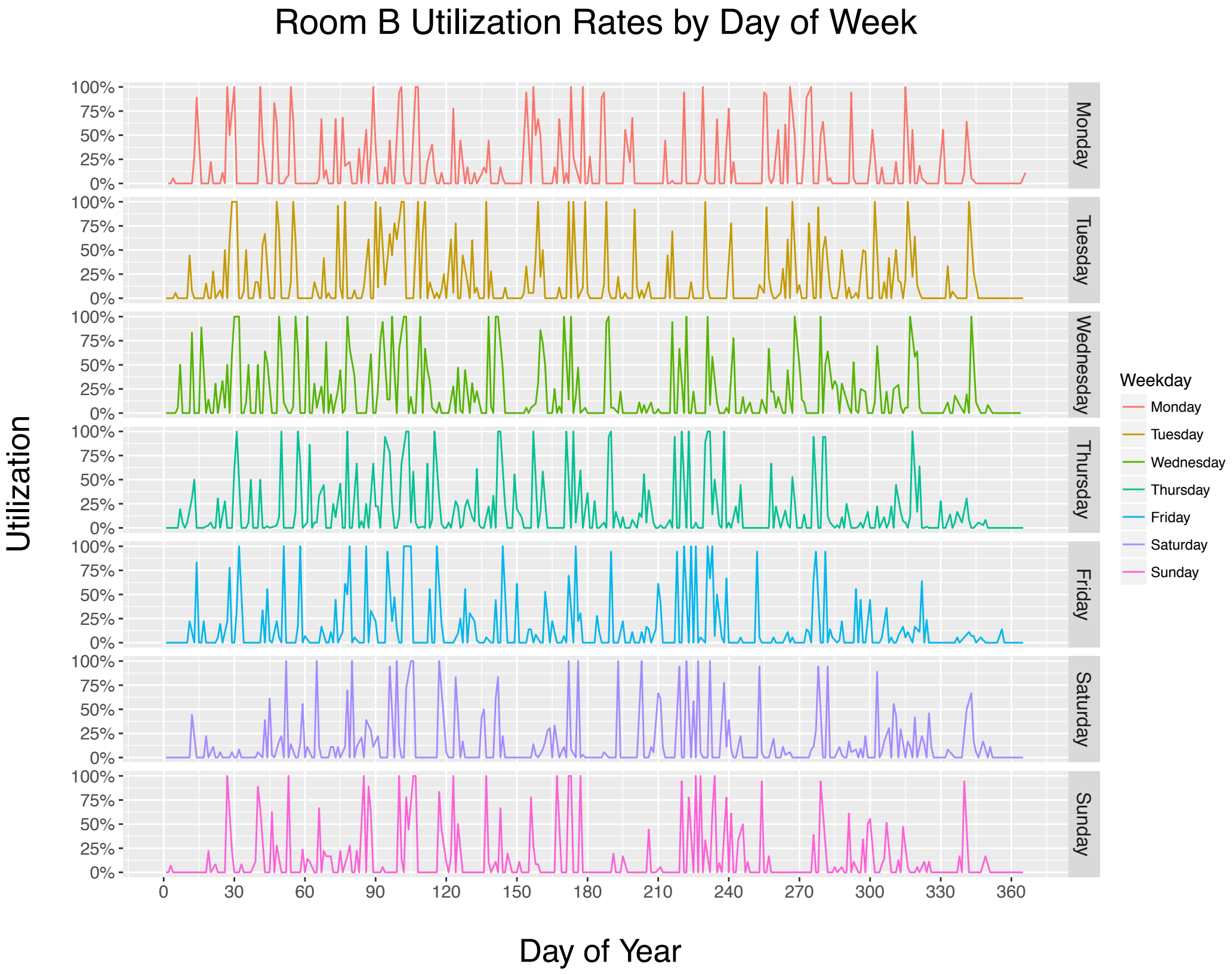
Room B Utilization Rates by Day of Week
Utilization
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Day of Year
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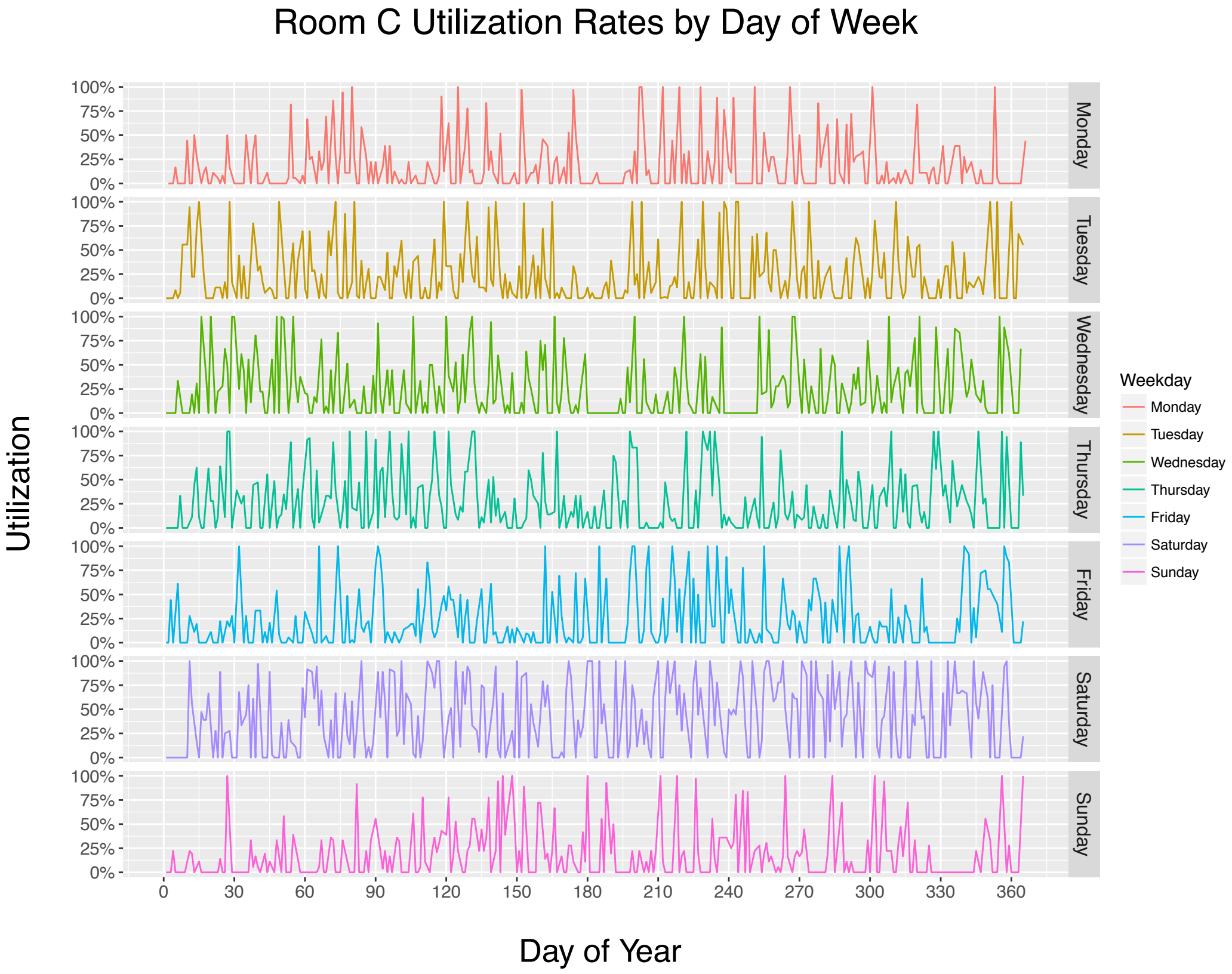
Room C Utilization Rates by Day of Week
Utilization
100%
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Day of Year
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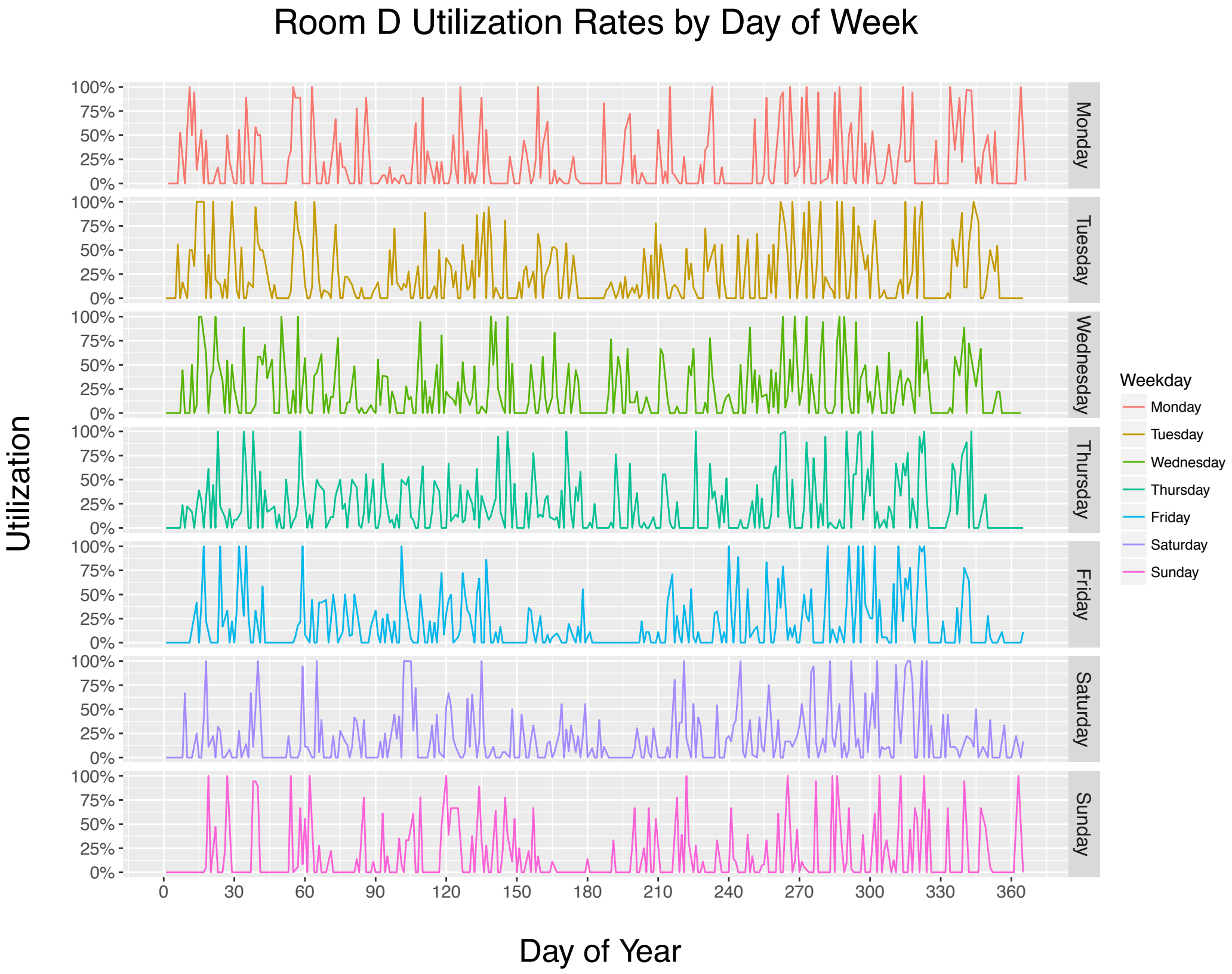
Room D Utilization Rates by Day of Week
Utilization
100%
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Day of Year
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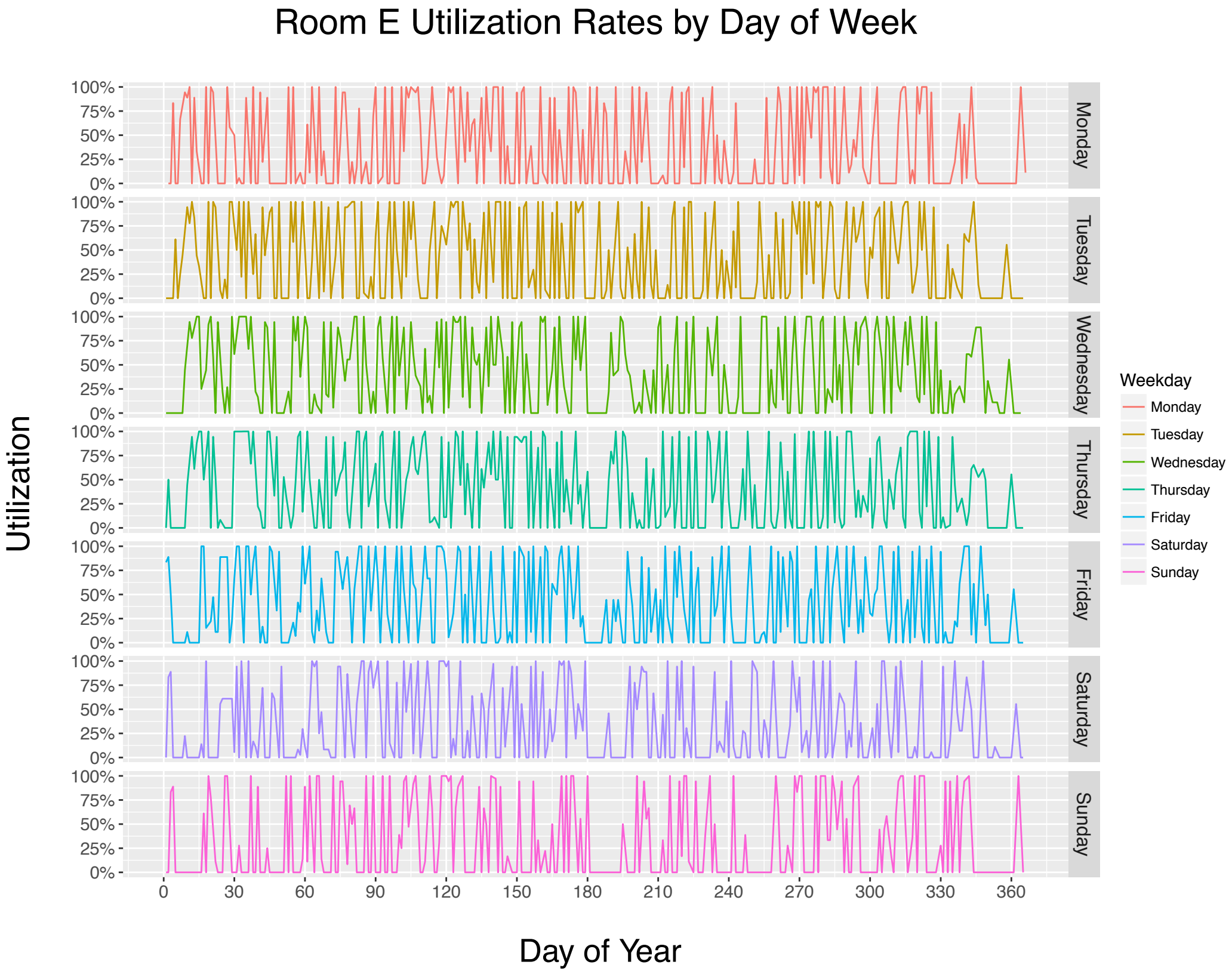
Room E Utilization Rates by Day of Week
Utilization
100%
75%
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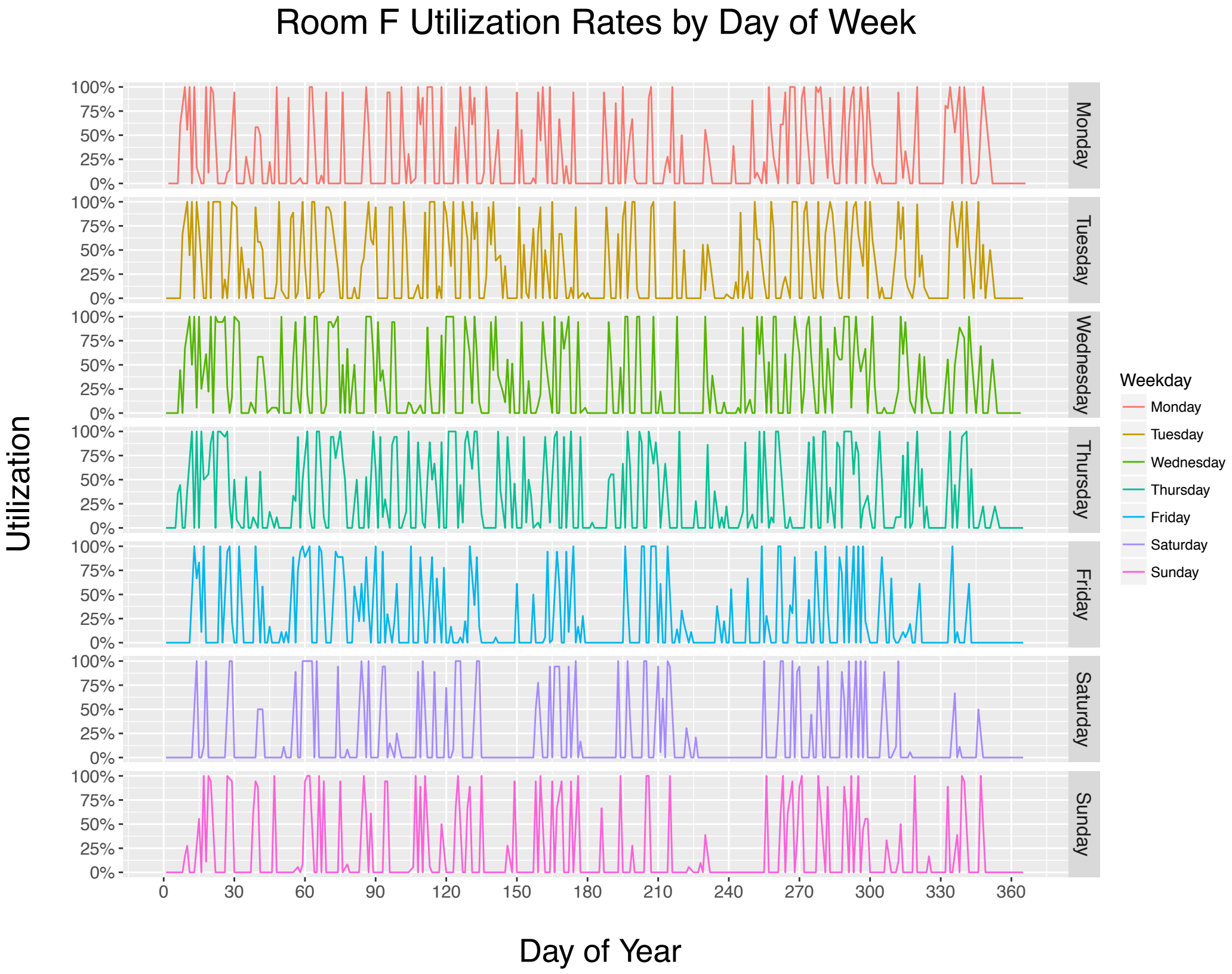
Room F Utilization Rates by Day of Week
Utilization
100%
75%
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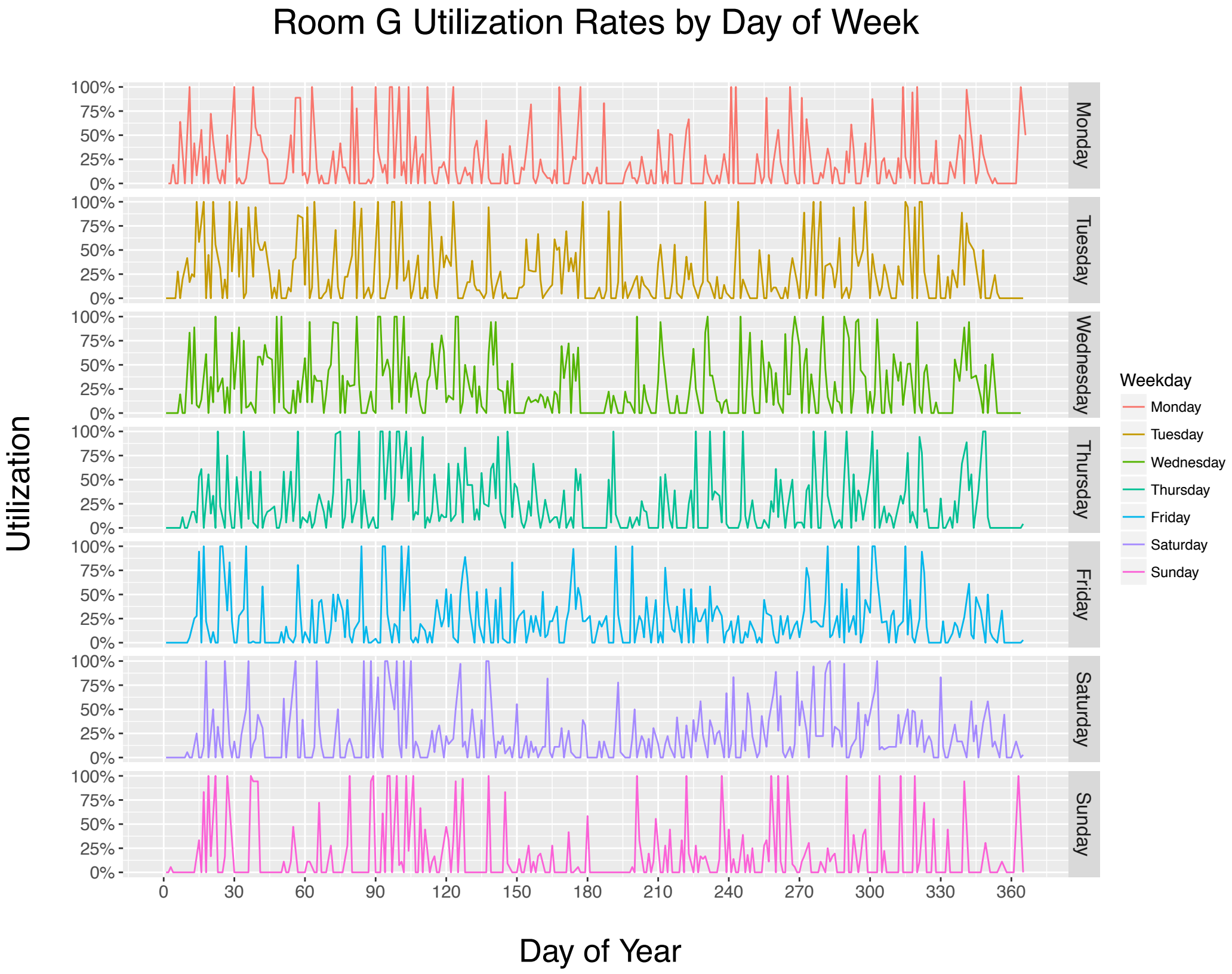
Room G Utilization Rates by Day of Week
Utilization
100%
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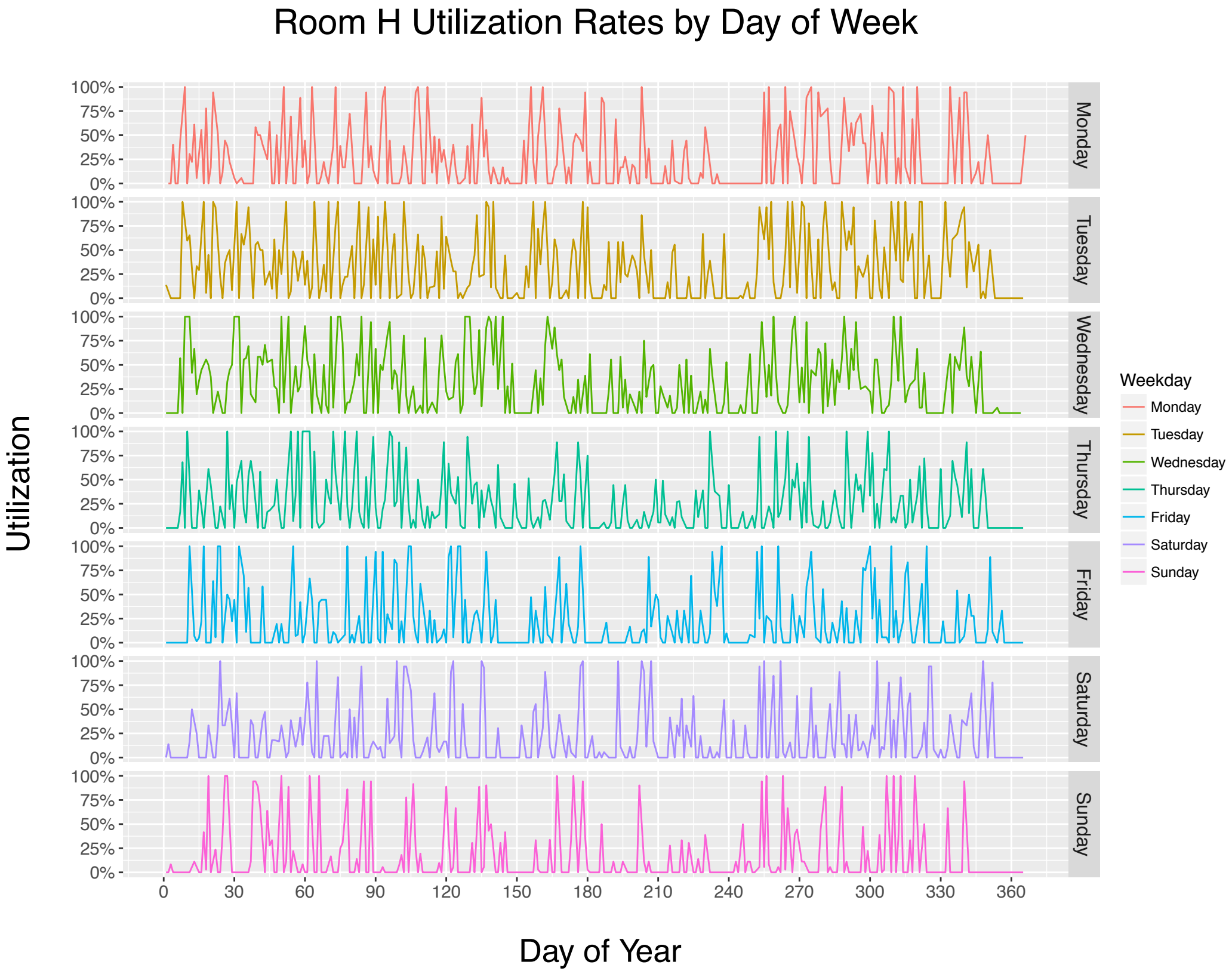
Room H Utilization Rates by Day of Week
Utilization
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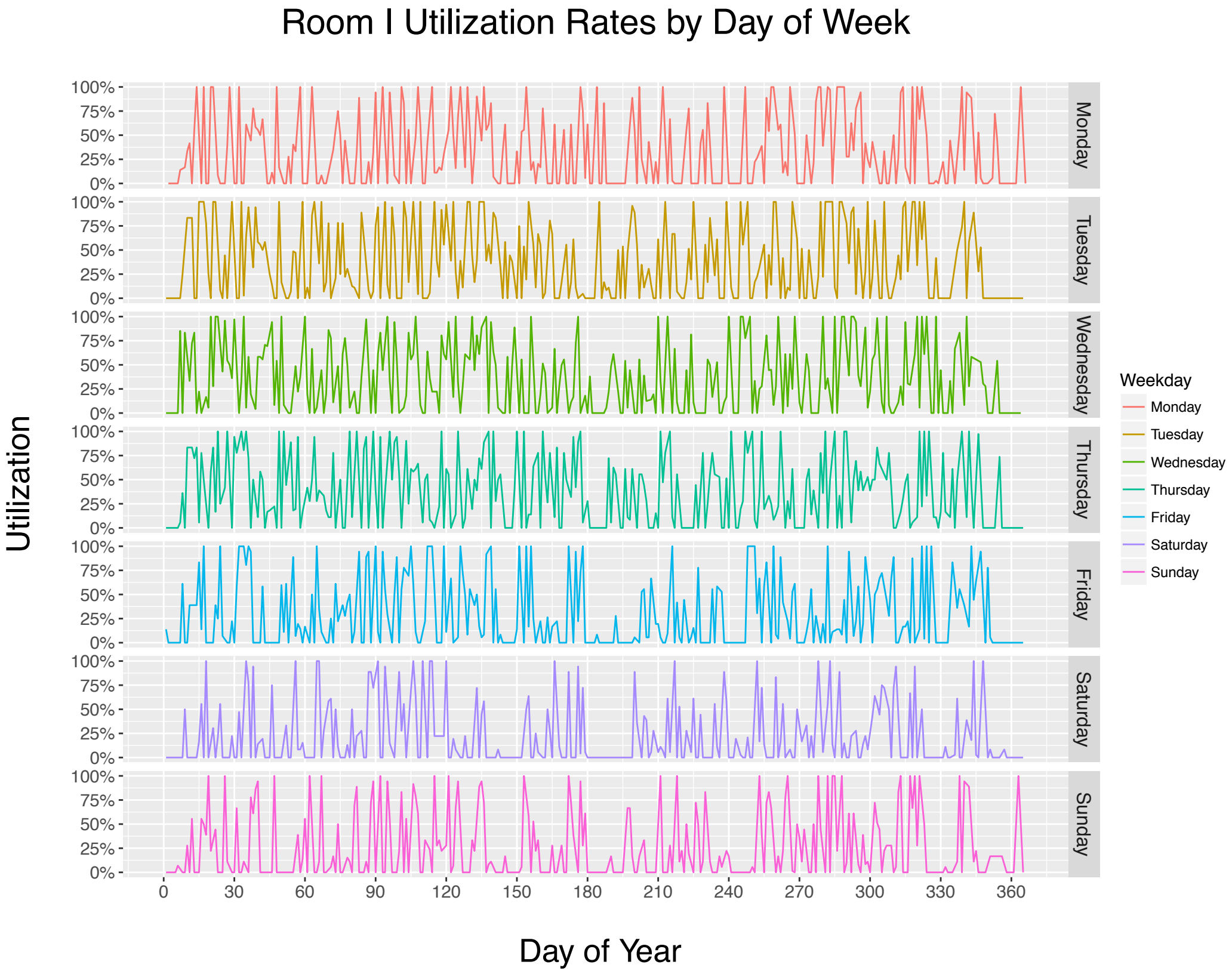
Room I Utilization Rates by Day of Week
Utilization
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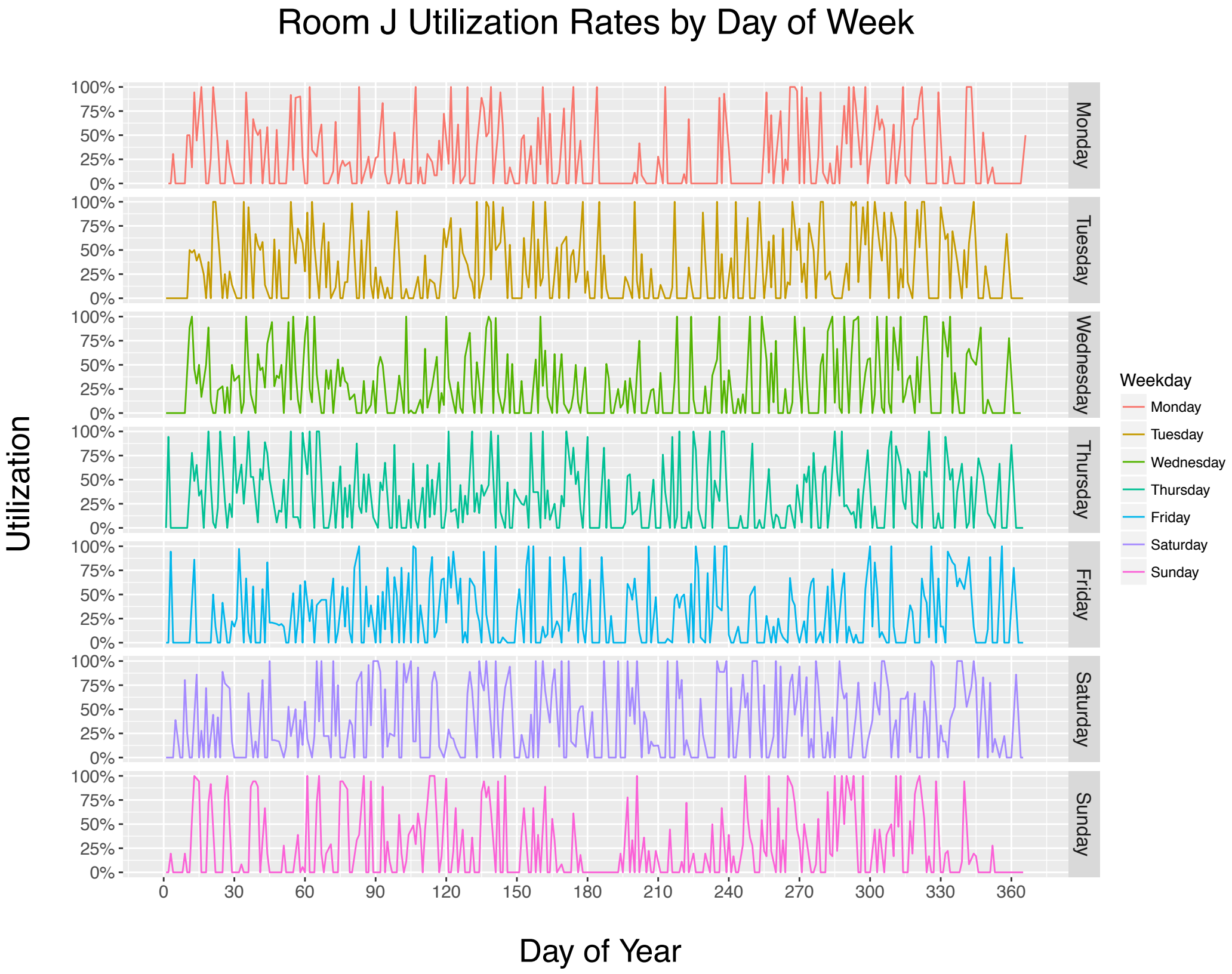
Room J Utilization Rates by Day of Week
Utilization
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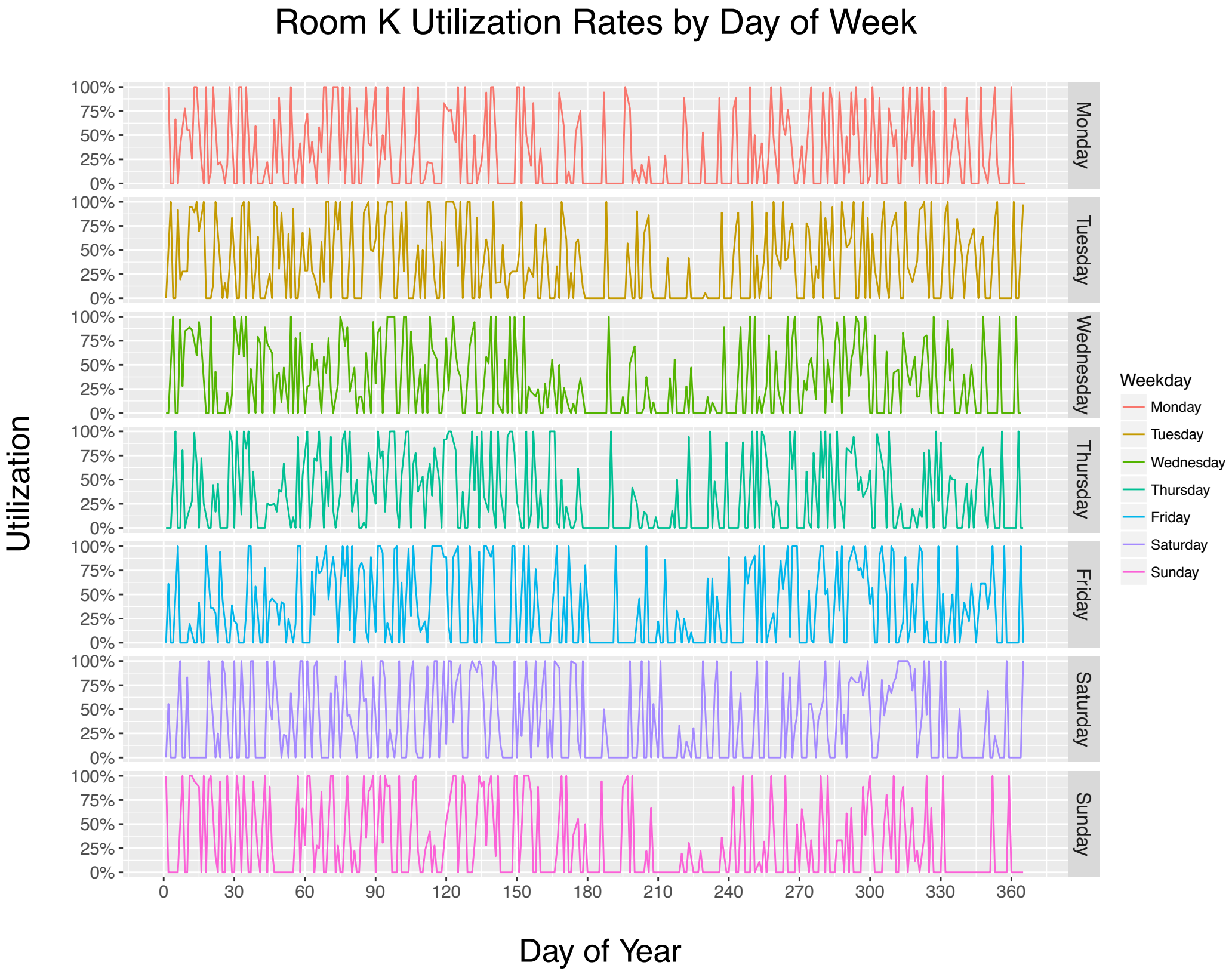
Room K Utilization Rates by Day of Week
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Day of Year
Weekday
Monday
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Saturday
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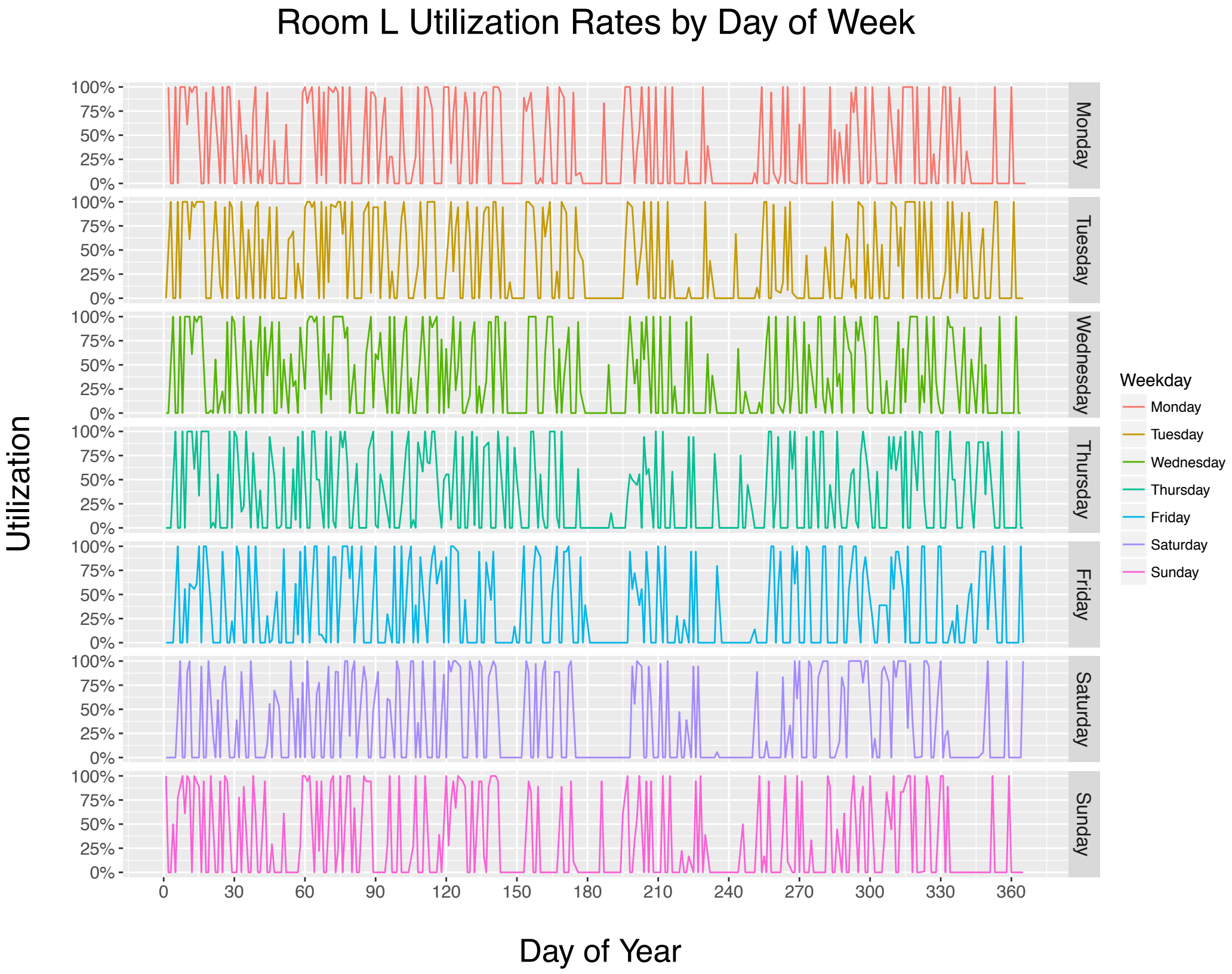
Room L Utilization Rates by Day of Week
Utilization
100%
75%
50%
25%
0%
Monday
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Day of Year
Weekday
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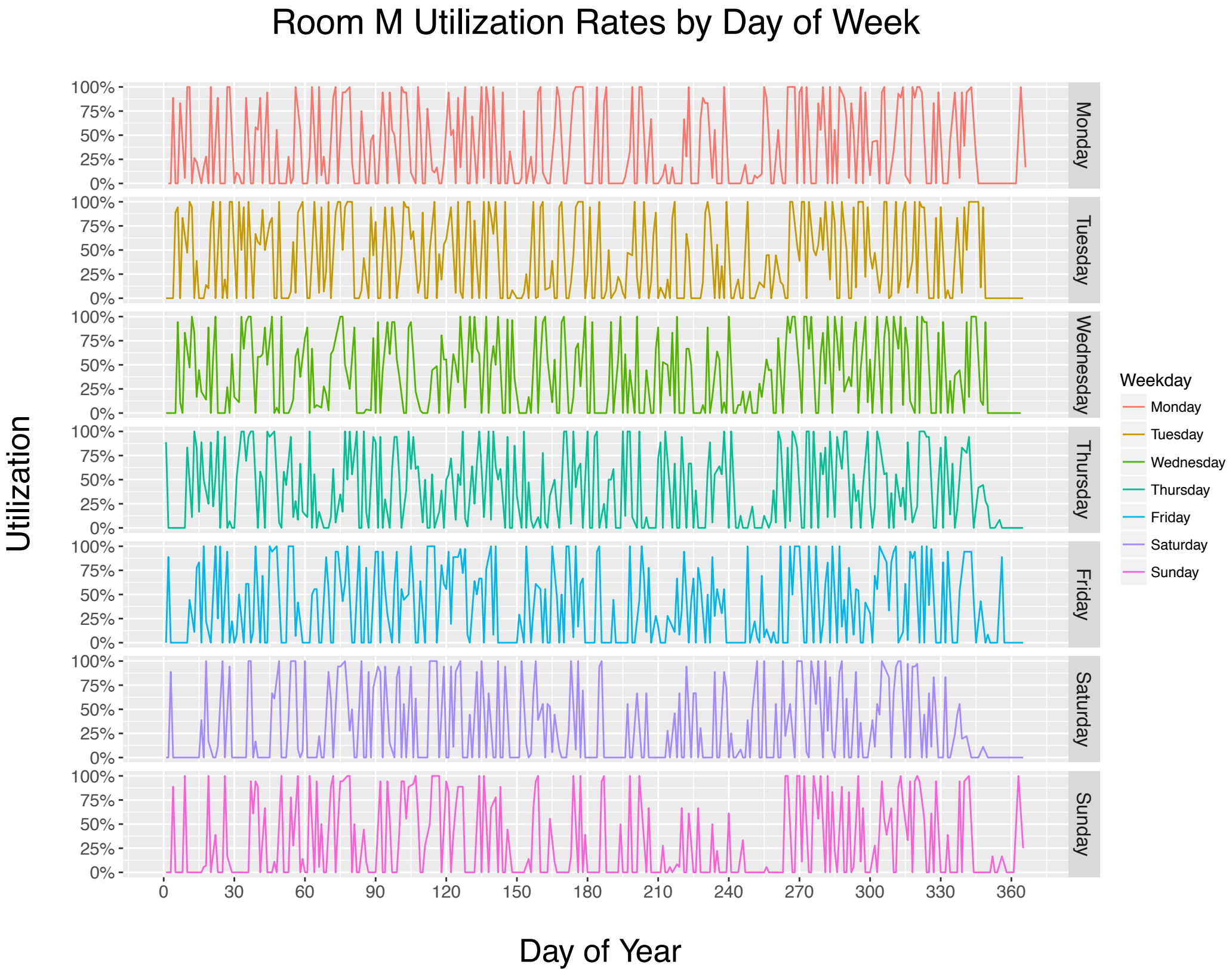
Thursday
Friday
Saturday
Sunday


Room M Utilization Rates by Day of Week
Utilization
100%
75%
50%
25%
0%
Monday
Tuesday
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Day of Year
Weekday
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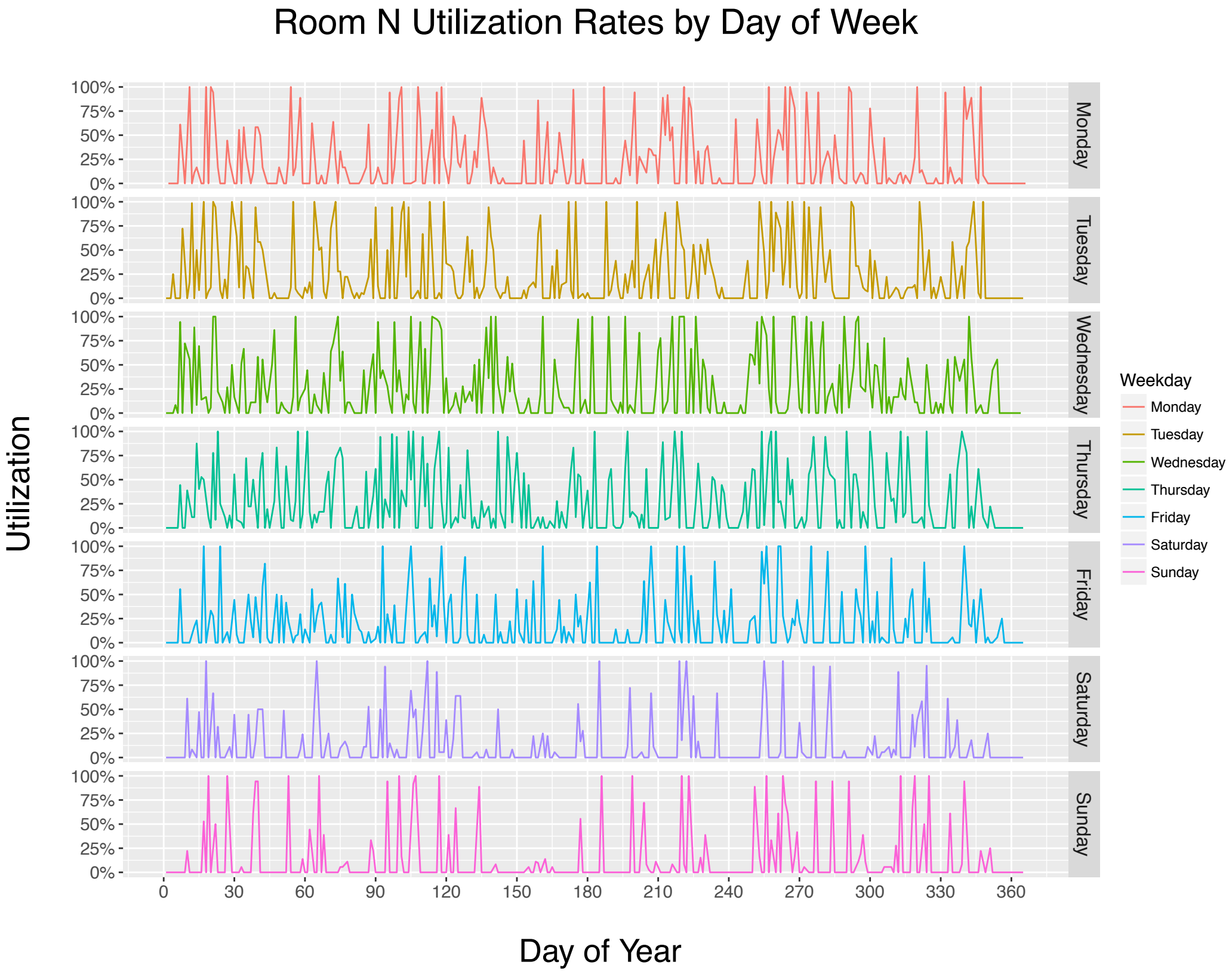
Friday
Saturday
Sunday


Room N Utilization Rates by Day of Week
Utilization
100%
75%
50%
25%
0%
Monday
Tuesday
Wednesday
Thursday
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Saturday
Sunday
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Day of Year
Weekday
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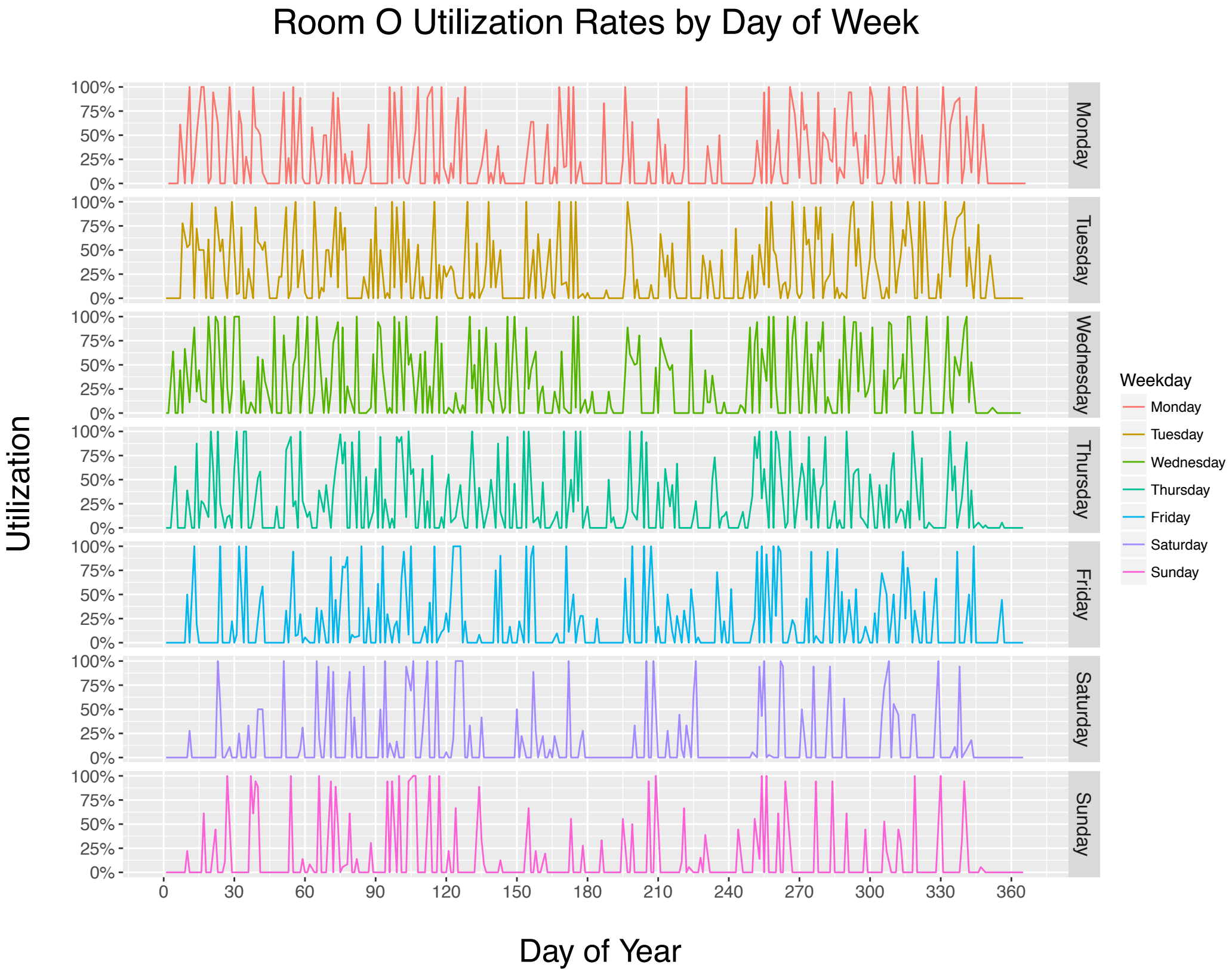
Friday
Saturday
Sunday


Room O Utilization Rates by Day of Week
Utilization
100%
75%
50%
25%
0%
Monday
Tuesday
Wednesday
Thursday
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Sunday
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Day of Year
Weekday
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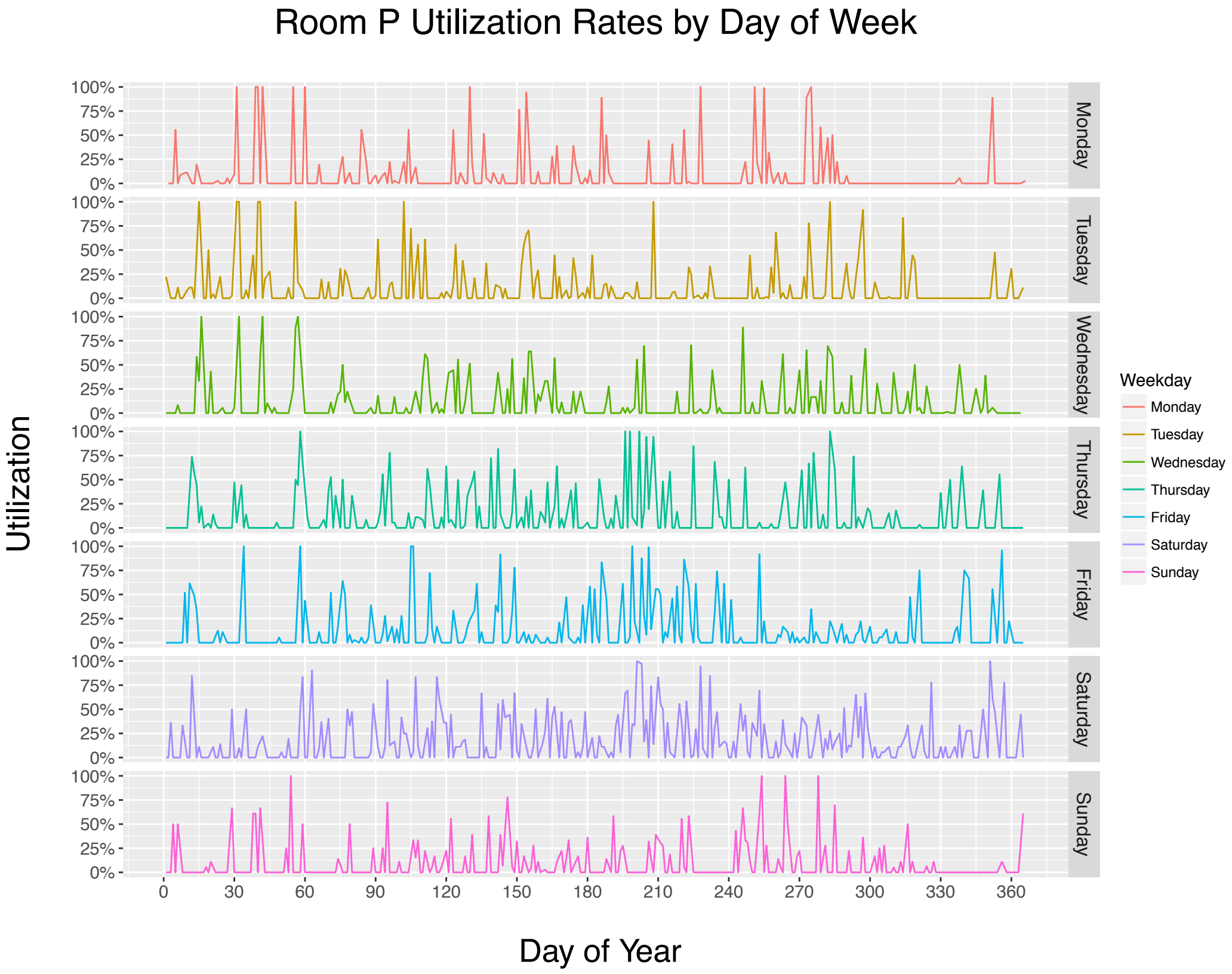
Saturday
Sunday


Room P Utilization Rates by Day of Week
Utilization
100%
75%
50%
25%
0%
Monday
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Thursday
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Saturday
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Day of Year
Weekday
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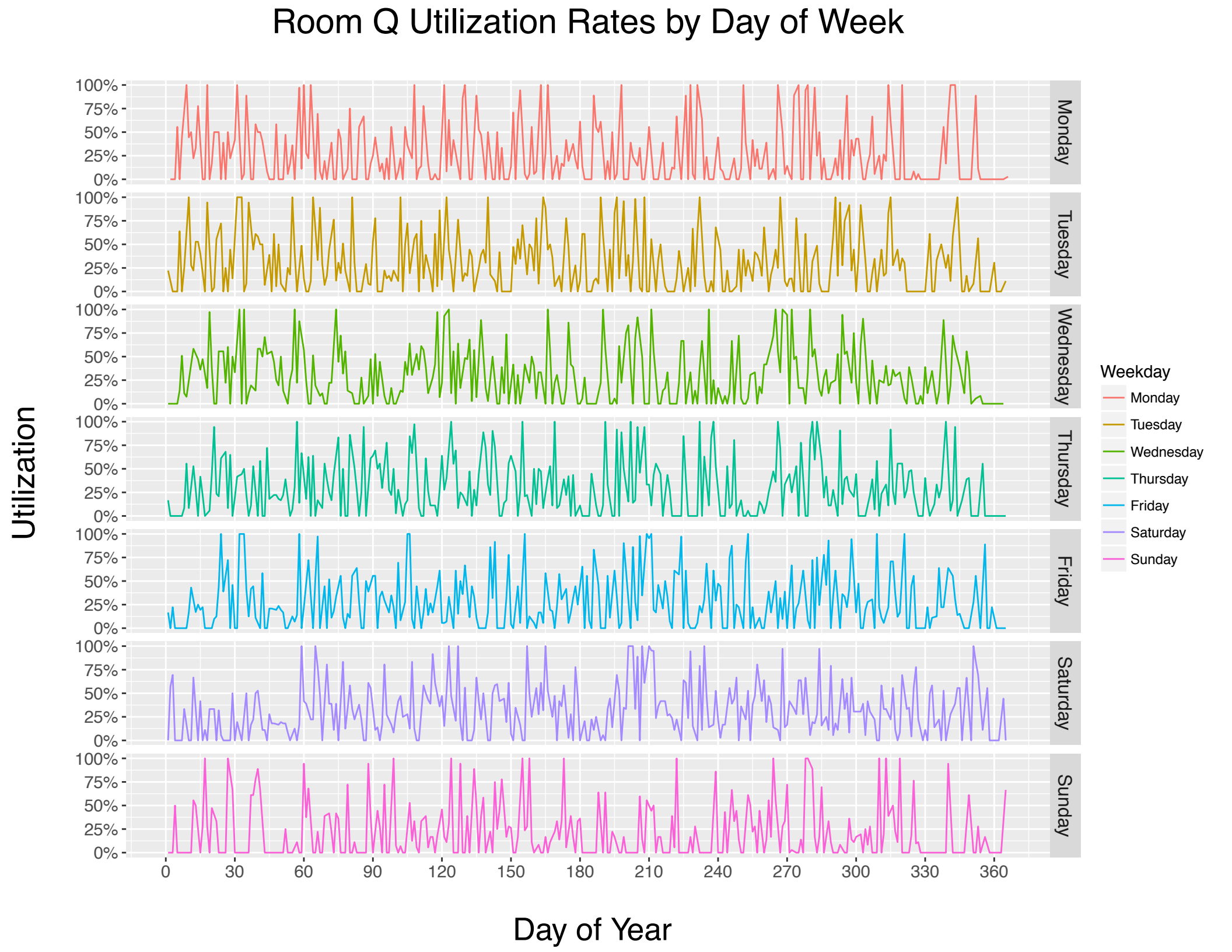
Saturday
Sunday


Room Q Utilization Rates by Day of Week
Utilization
100%
75%
50%
25%
0%
Monday
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Day of Year
Weekday
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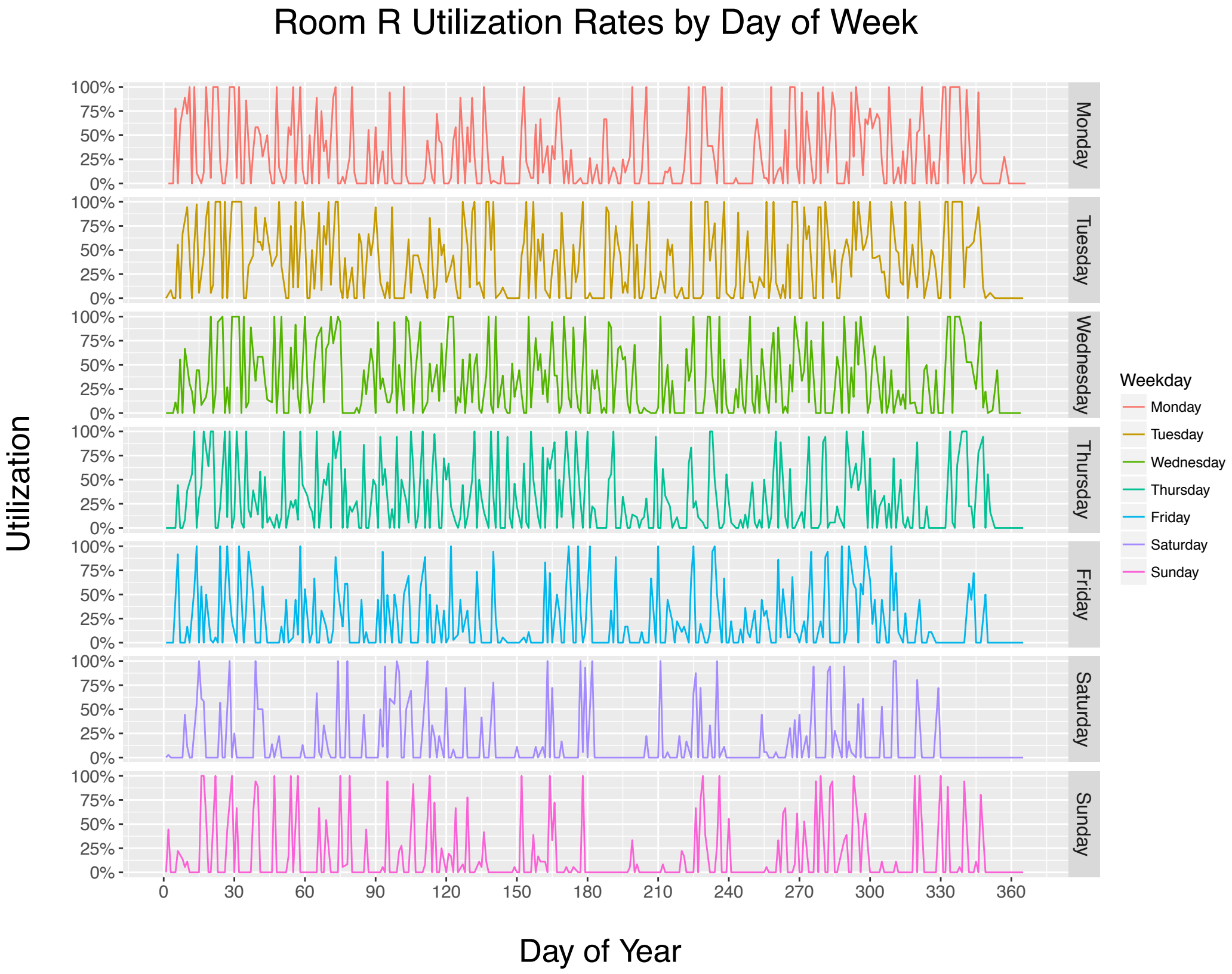
Saturday
Sunday


Room R Utilization Rates by Day of Week
Utilization
100%
75%
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25%
0%
Monday
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Day of Year
Weekday
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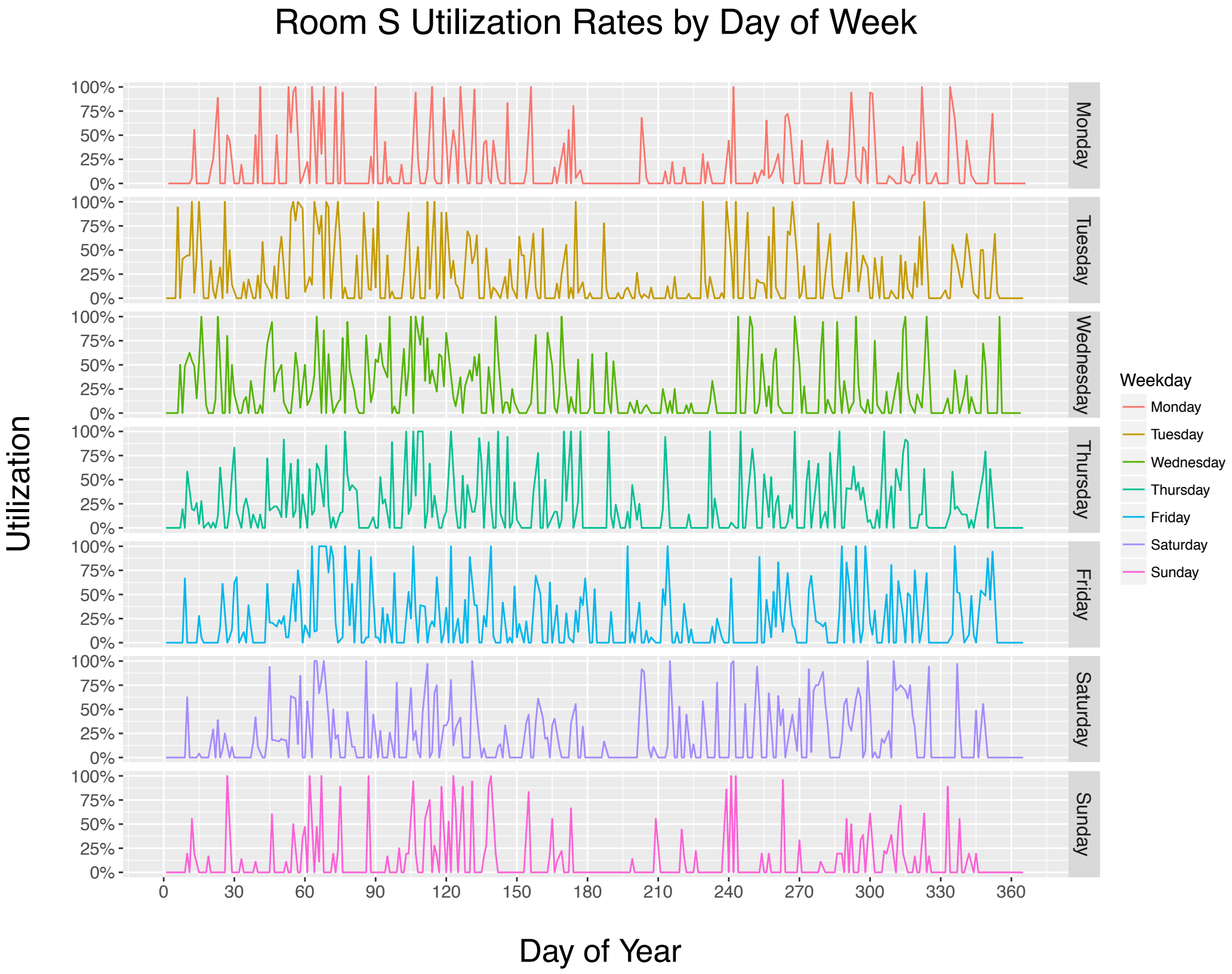
Saturday
Sunday


Room S Utilization Rates by Day of Week
Utilization
100%
75%
50%
25%
0%
Monday
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Day of Year
Weekday
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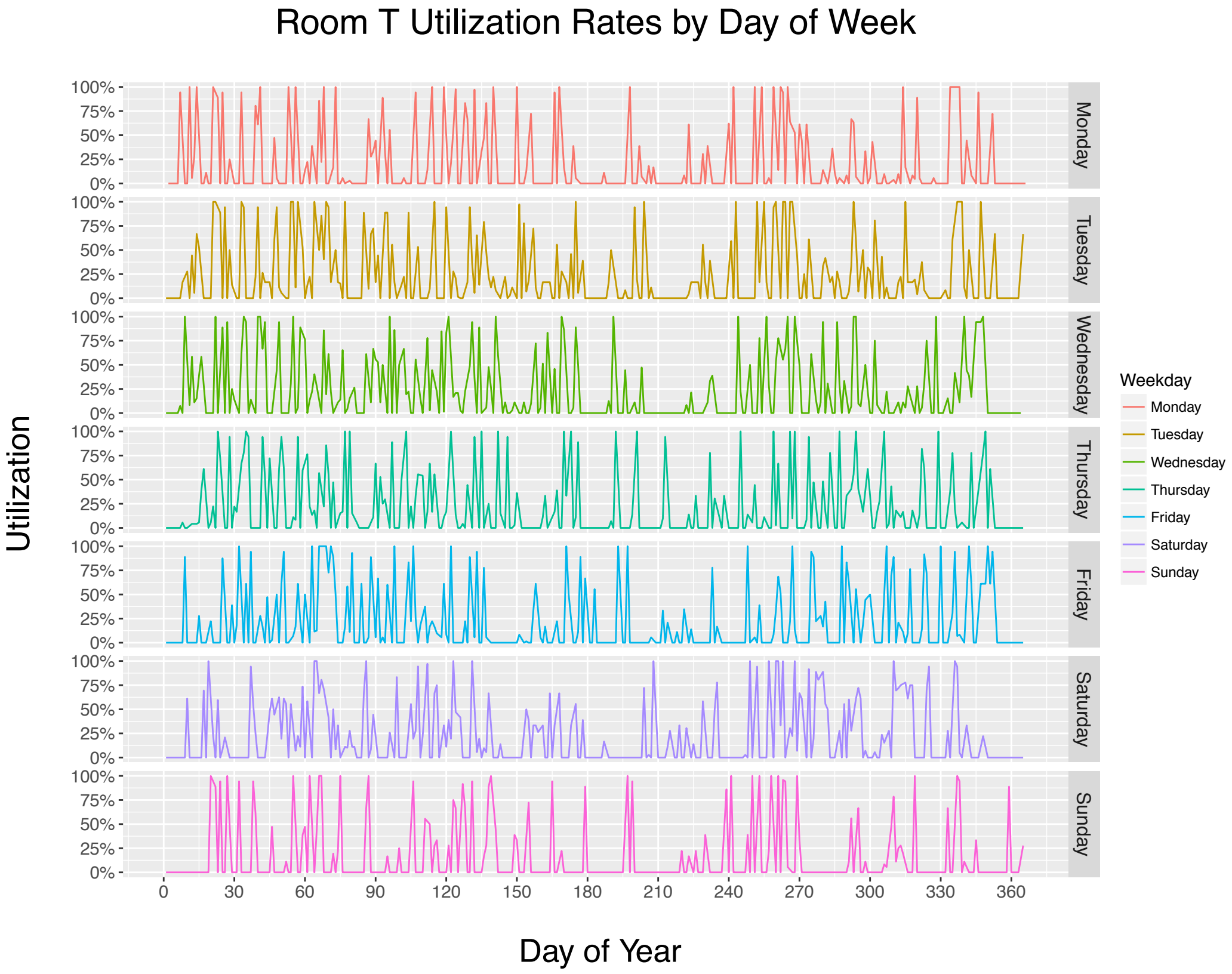
Room T Utilization Rates by Day of Week
Utilization
100%
75%
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Monday
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Day of Year
Weekday
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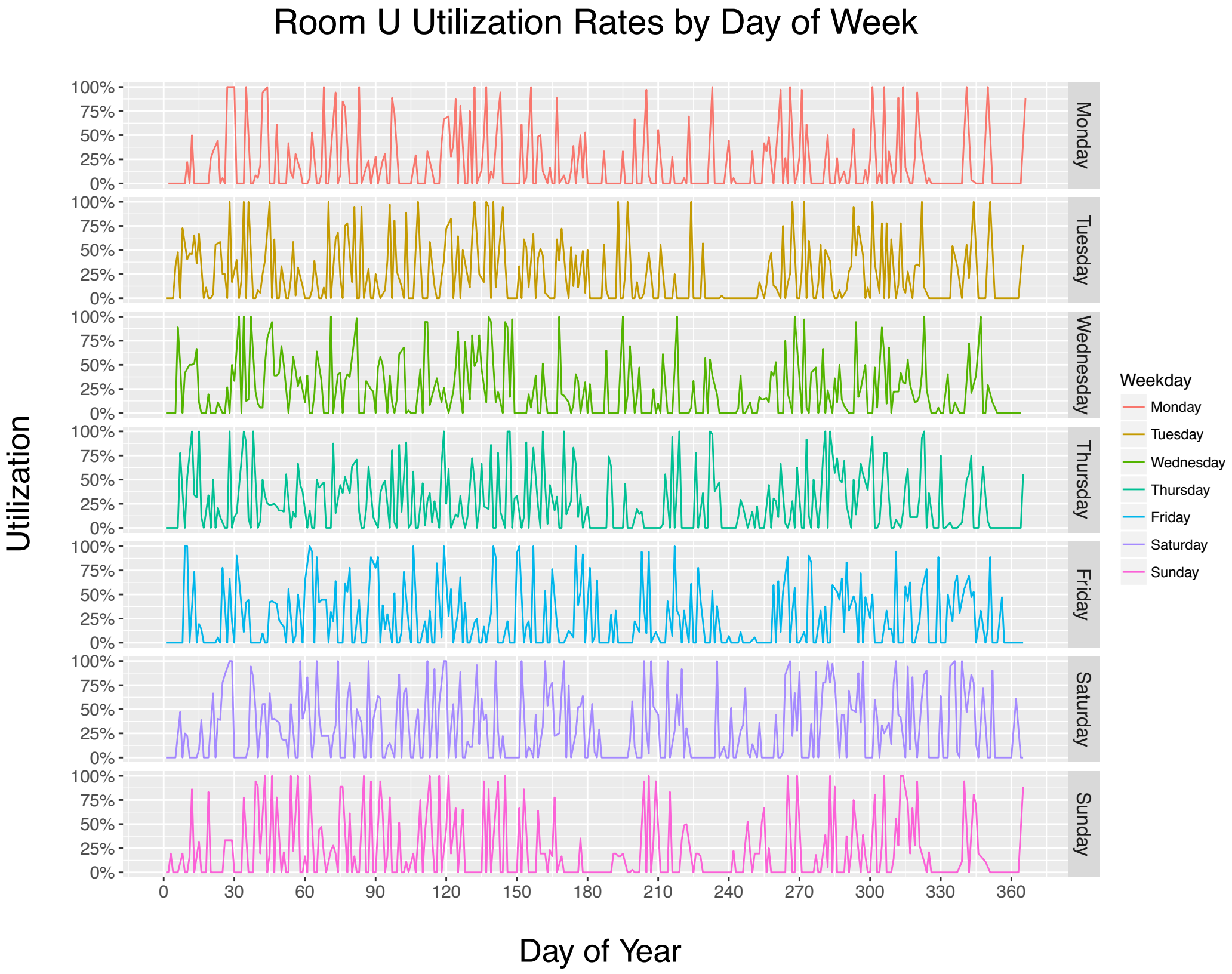
Sunday


Room U Utilization Rates by Day of Week
Utilization
100%
75%
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Monday
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Day of Year
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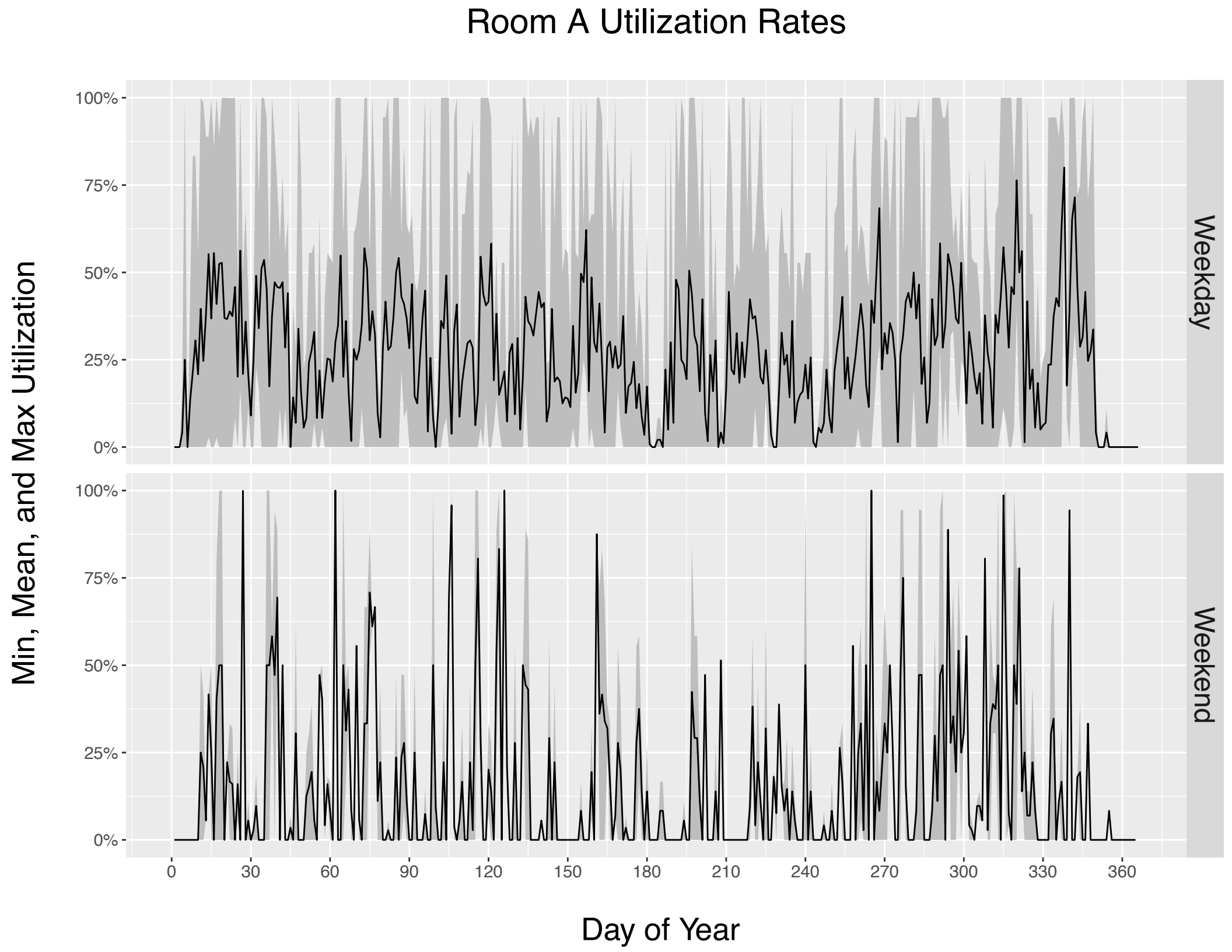
Room A Utilization Rates
Min, Mean, and Max Utilization
100%
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Weekday
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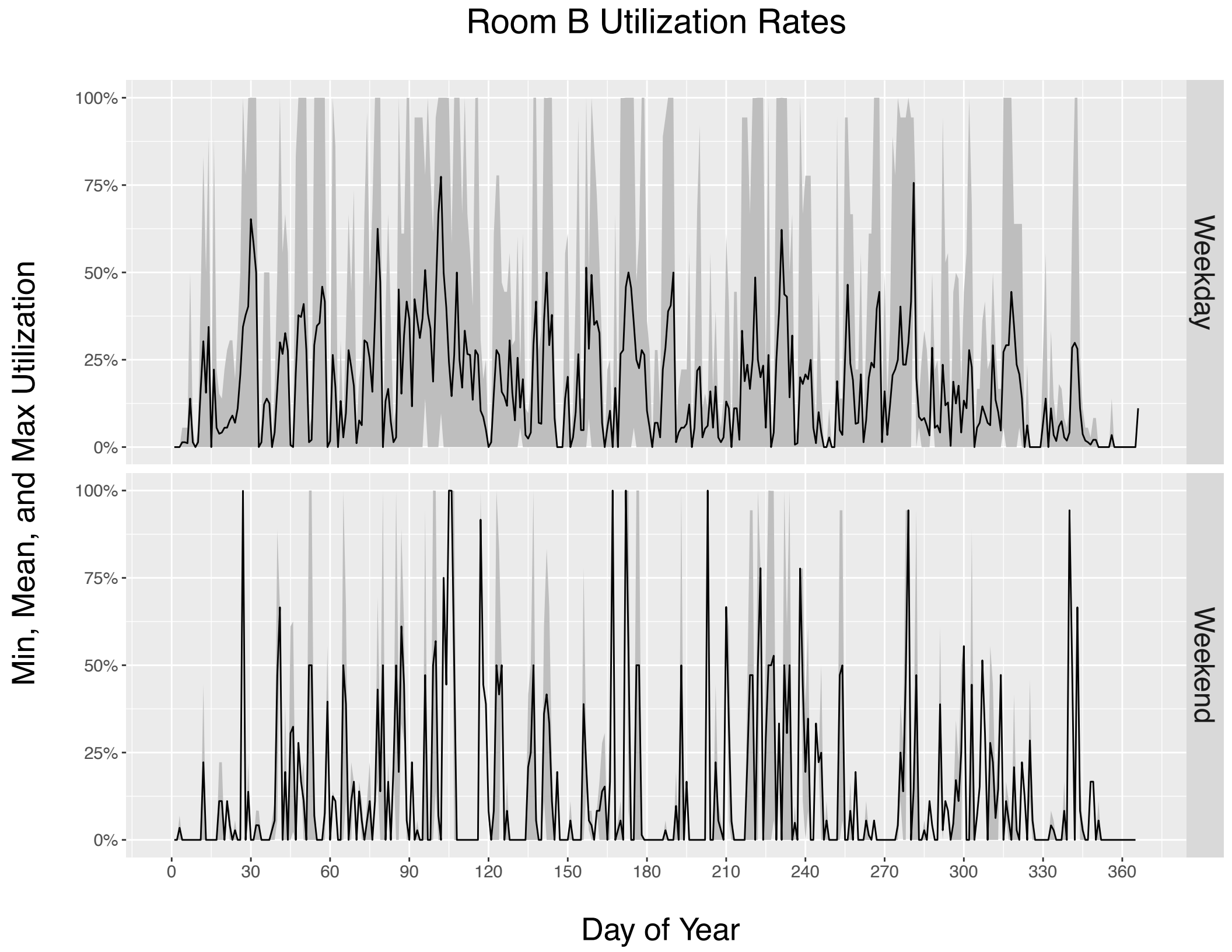
Day of Year


Room B Utilization Rates
Min, Mean, and Max Utilization
100%
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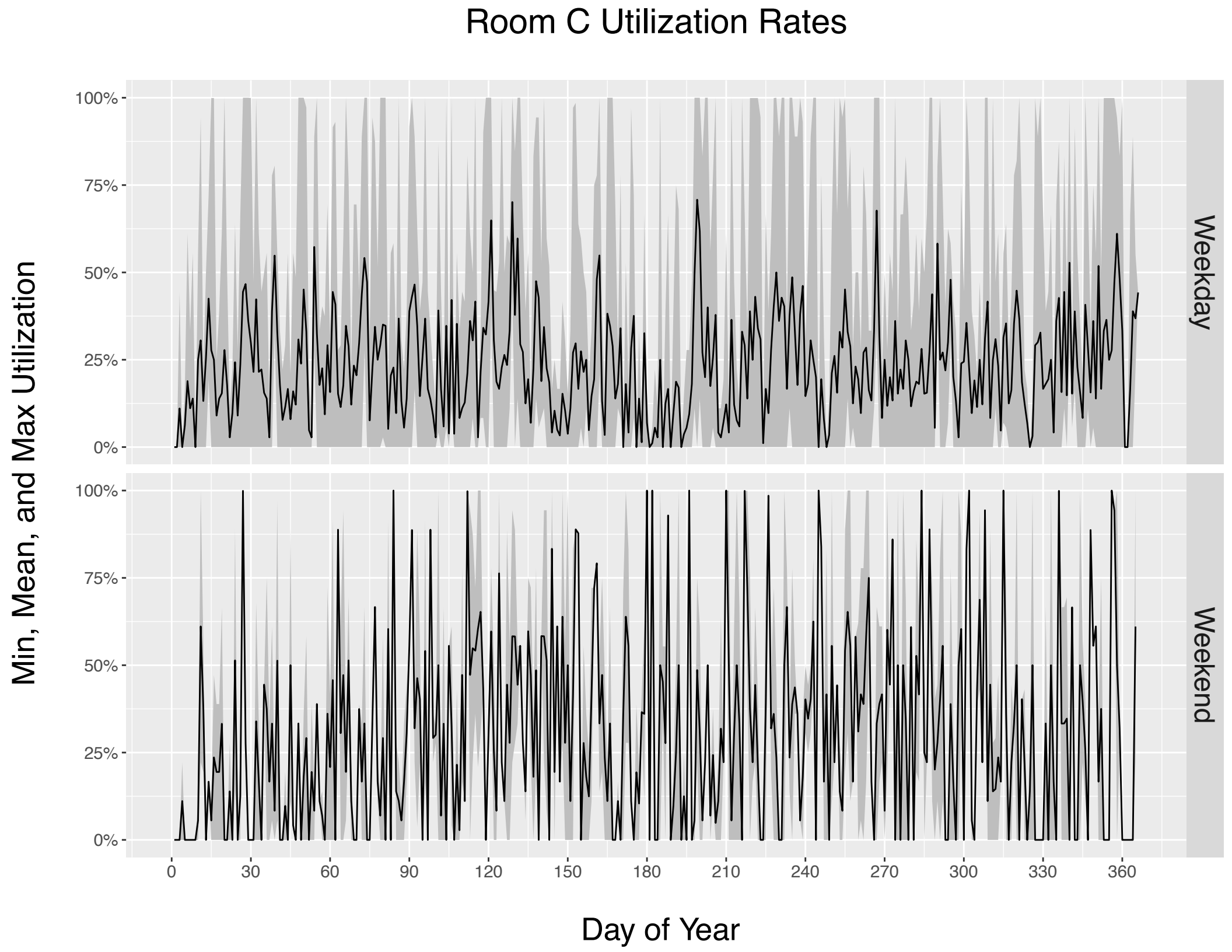
Day of Year


Room C Utilization Rates
Min, Mean, and Max Utilization
100%
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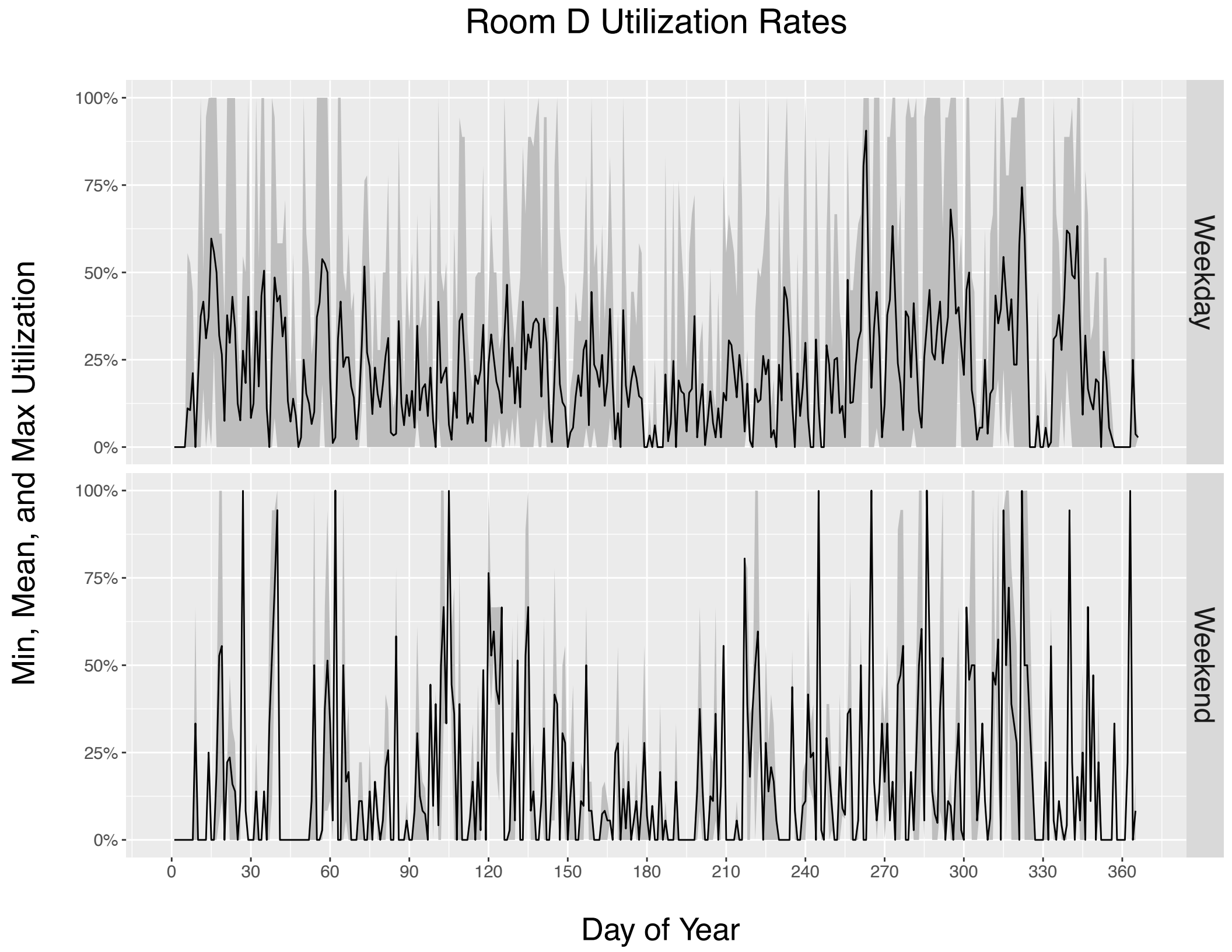
Day of Year


Room D Utilization Rates
Min, Mean, and Max Utilization
100%
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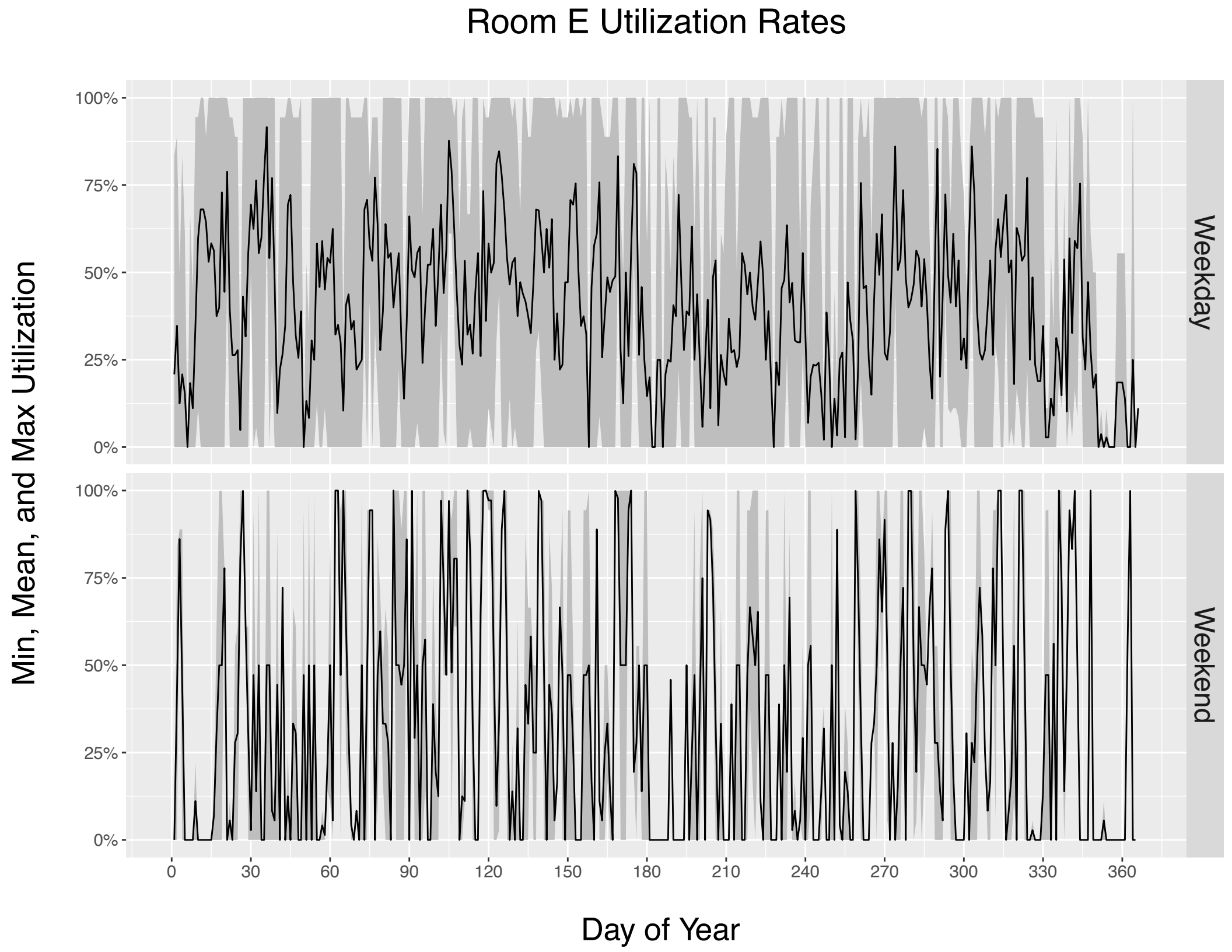
Day of Year


Room E Utilization Rates
Min, Mean, and Max Utilization
100%
75%
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Weekday
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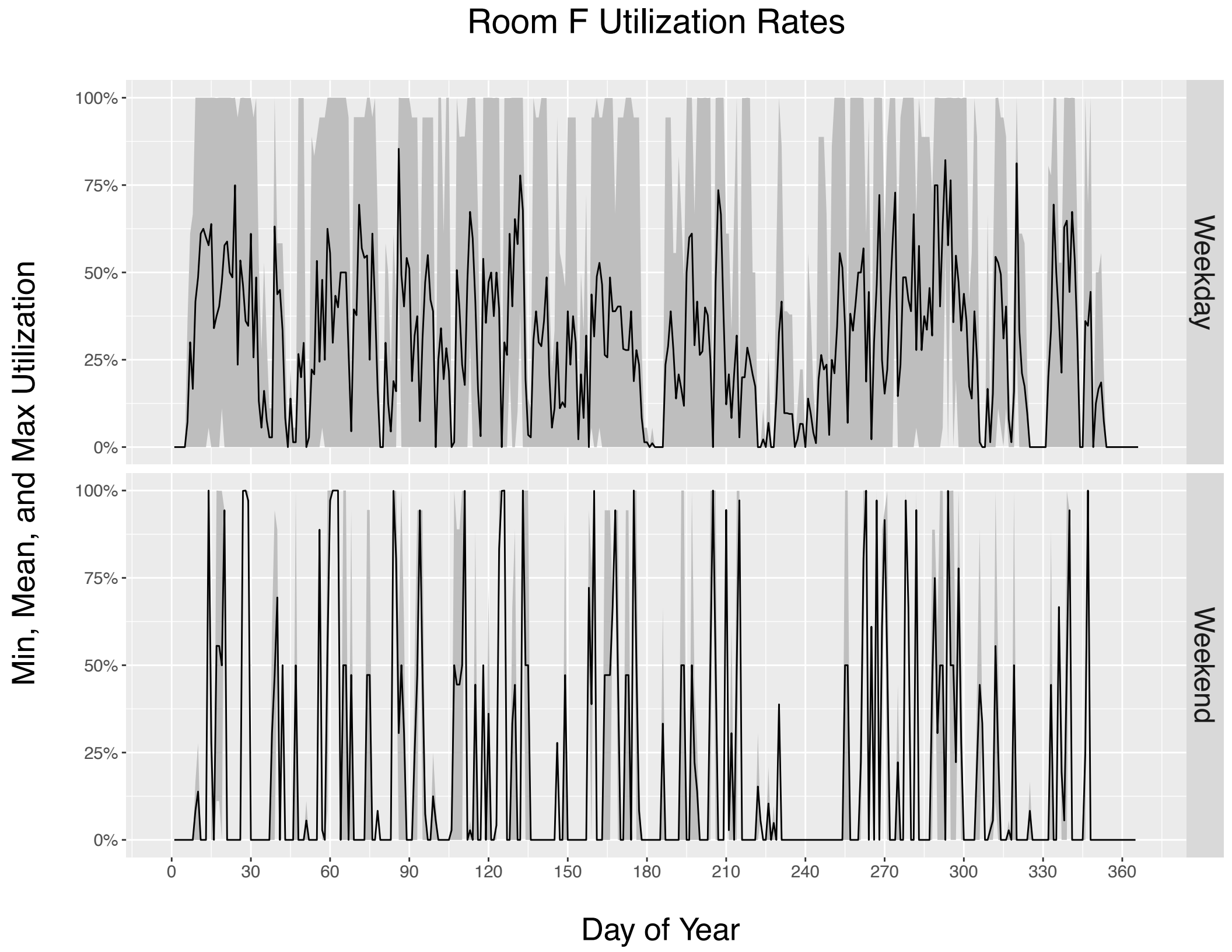
Day of Year


Room F Utilization Rates
Min, Mean, and Max Utilization
100%
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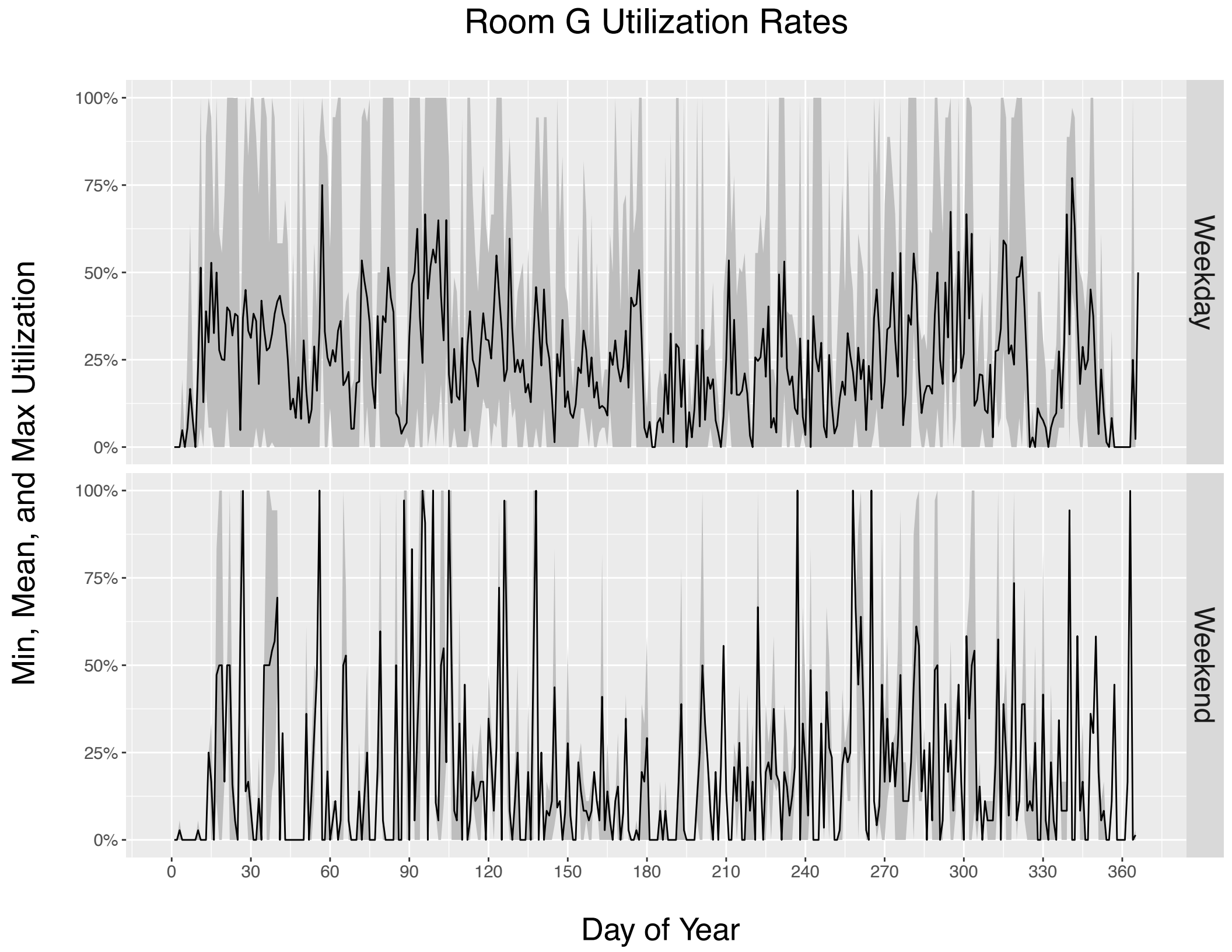
Day of Year


Room G Utilization Rates
Min, Mean, and Max Utilization
100%
75%
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Weekday
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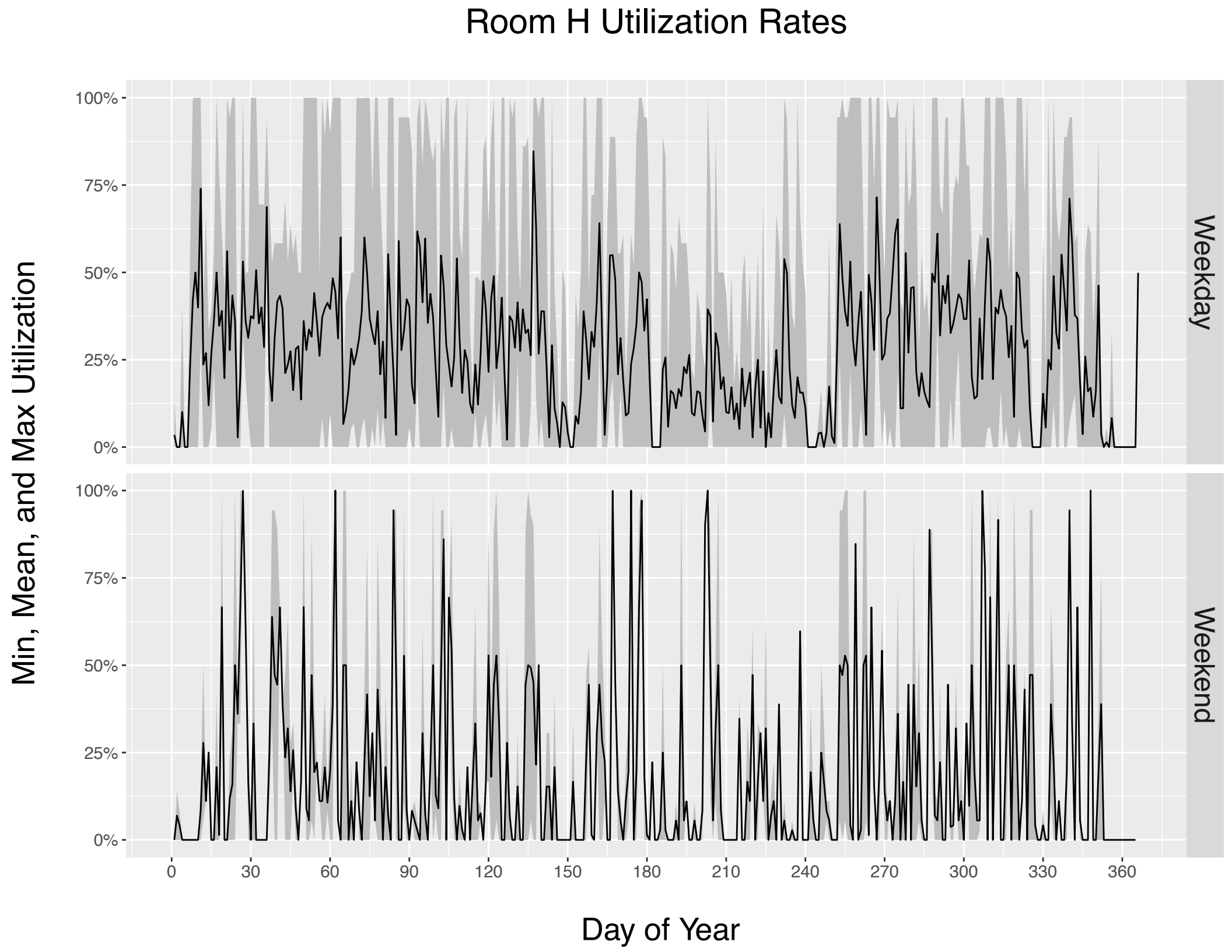
Day of Year


Room H Utilization Rates
Min, Mean, and Max Utilization
100%
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Weekday
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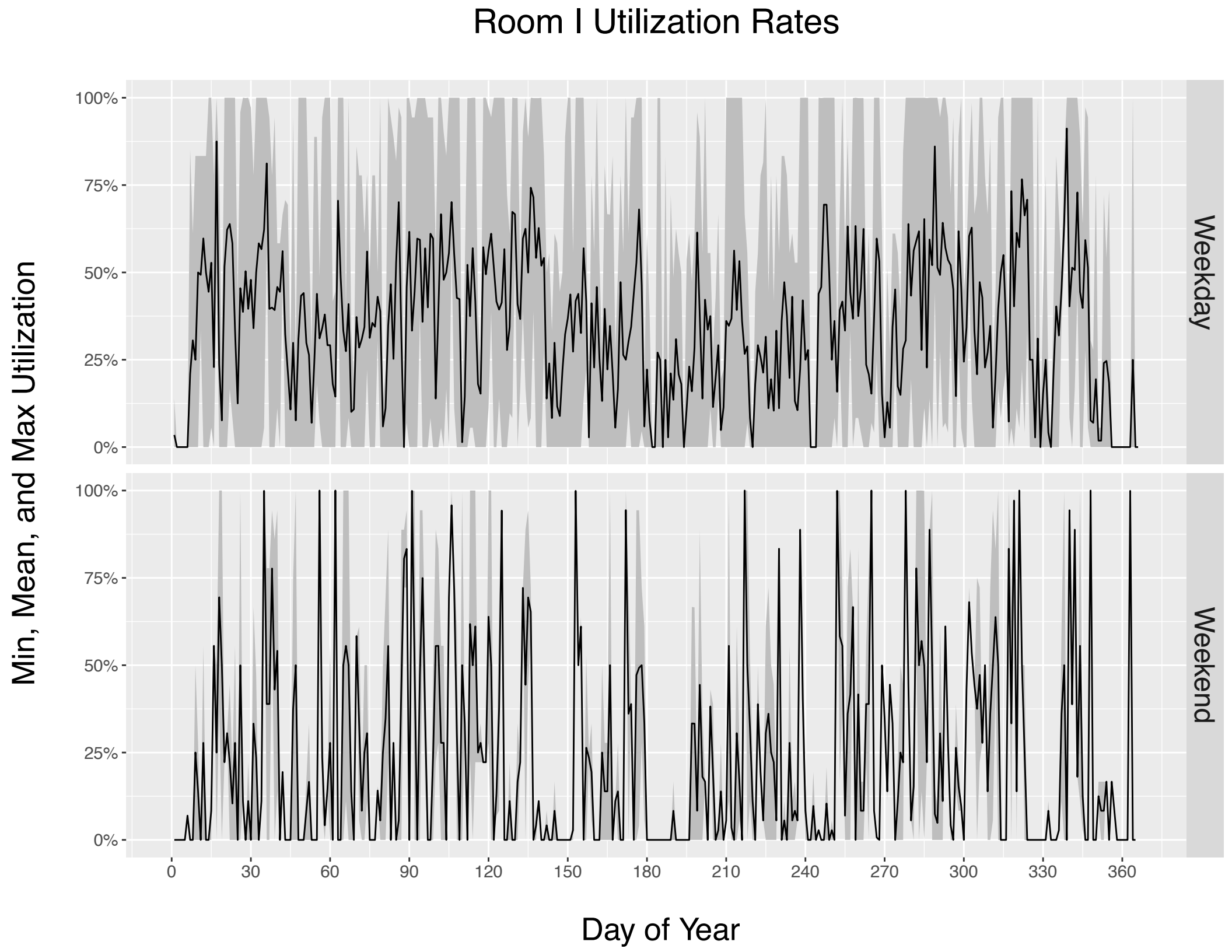
Day of Year


Room I Utilization Rates
Min, Mean, and Max Utilization
100%
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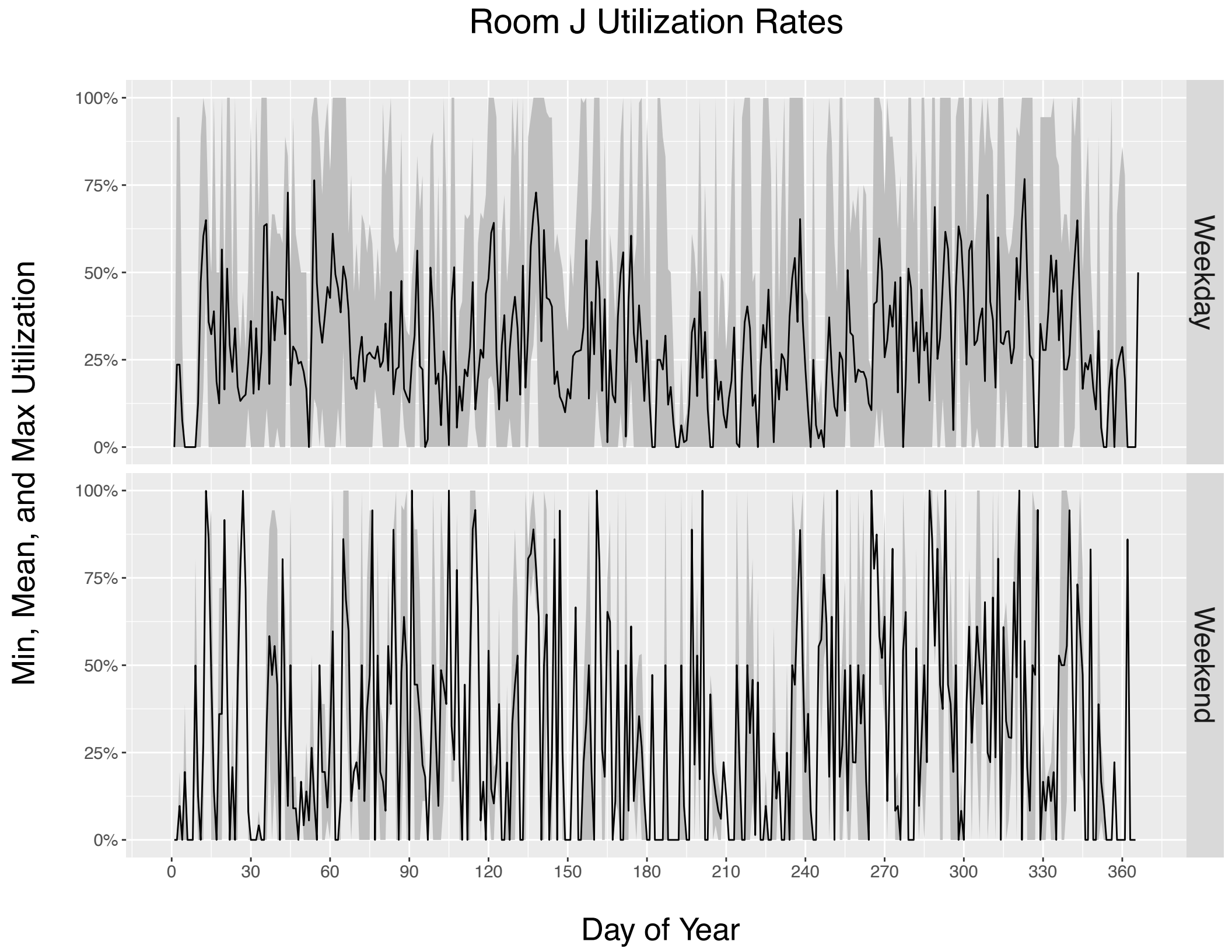
Day of Year


Room J Utilization Rates
Min, Mean, and Max Utilization
100%
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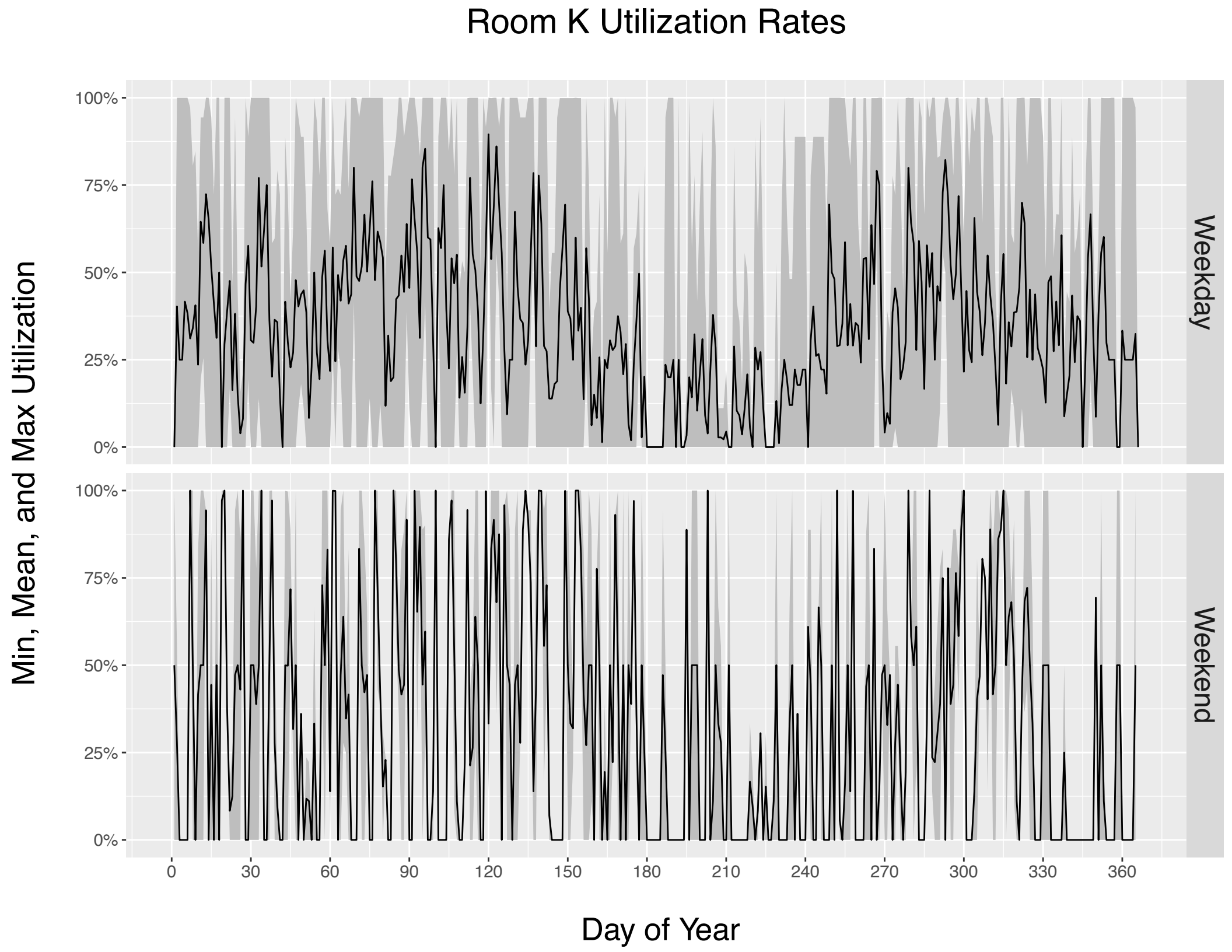
Day of Year


Room K Utilization Rates
Min, Mean, and Max Utilization
100%
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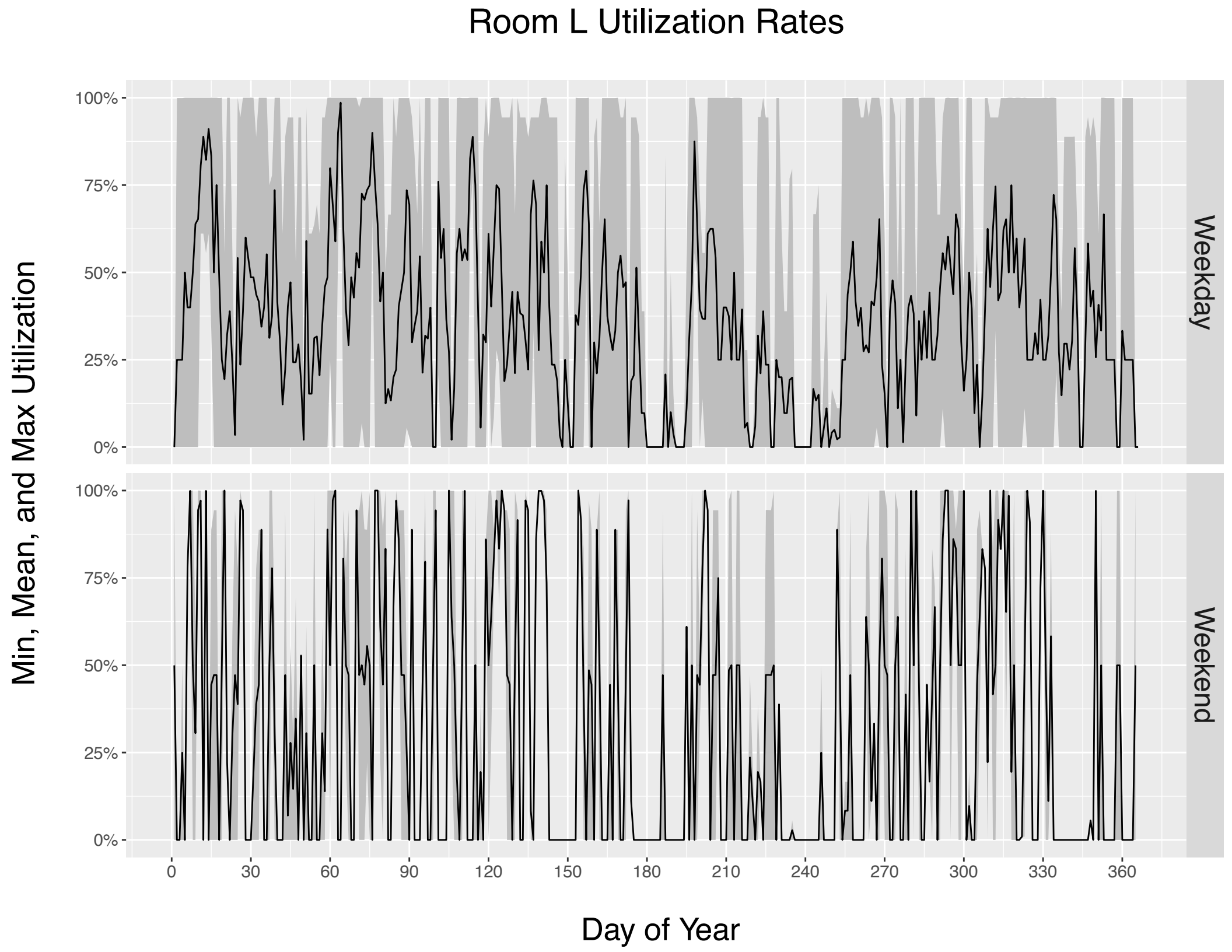
Day of Year


Room L Utilization Rates
Min, Mean, and Max Utilization
100%
75%
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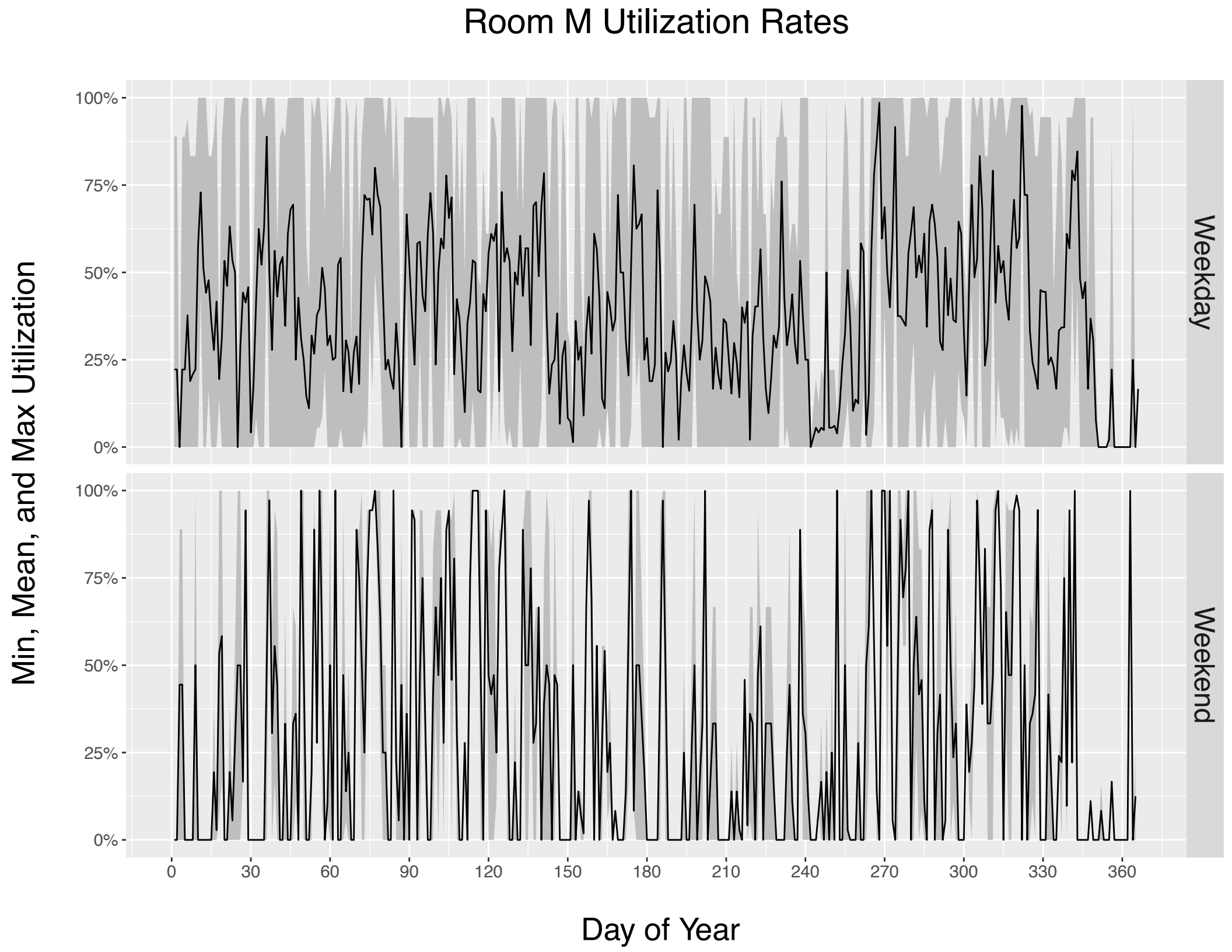
Day of Year


Room M Utilization Rates
Min, Mean, and Max Utilization
100%
75%
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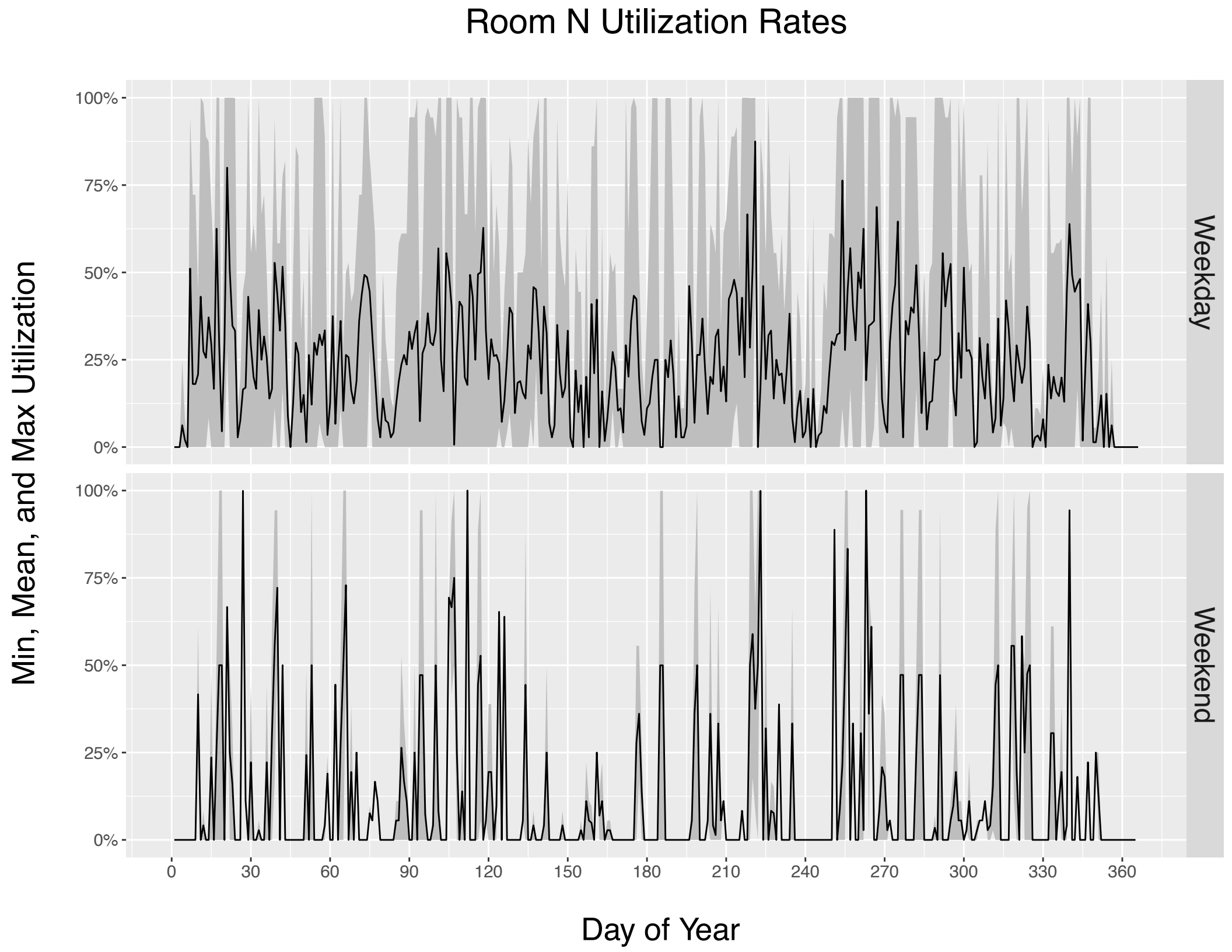
Day of Year


Room N Utilization Rates
Min, Mean, and Max Utilization
100%
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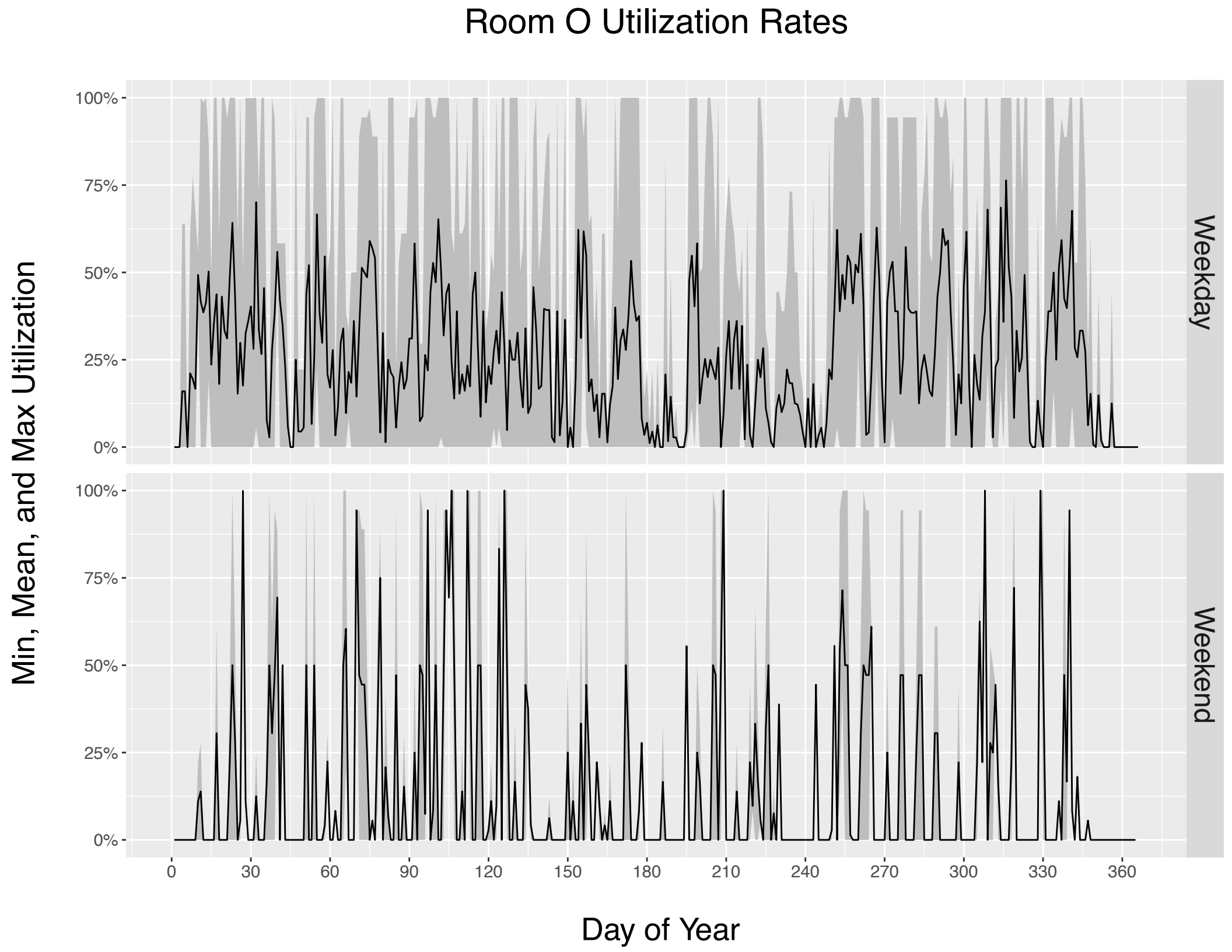
Day of Year


Room O Utilization Rates
Min, Mean, and Max Utilization
100%
75%
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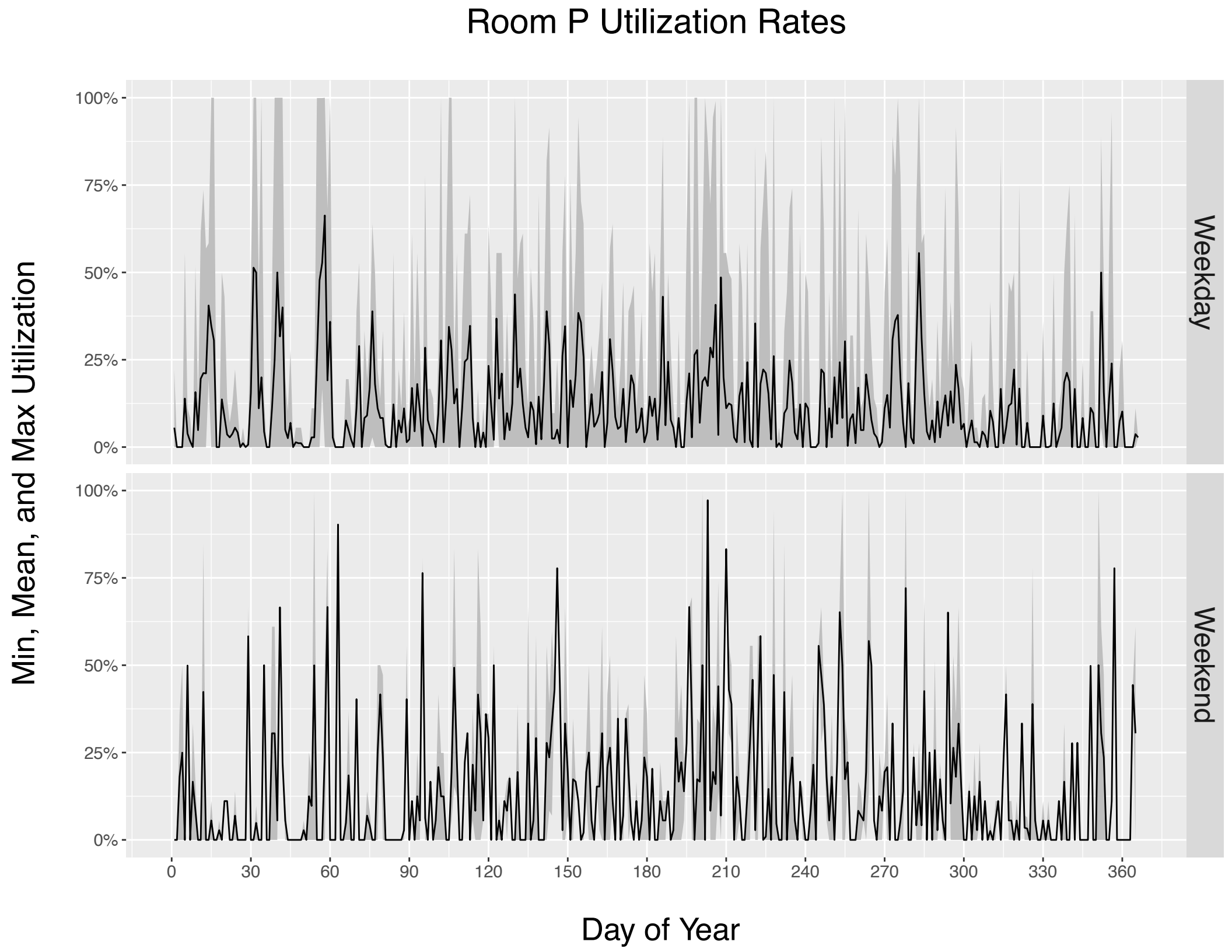
Day of Year


Room P Utilization Rates
Min, Mean, and Max Utilization
100%
75%
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Weekday
Weekend
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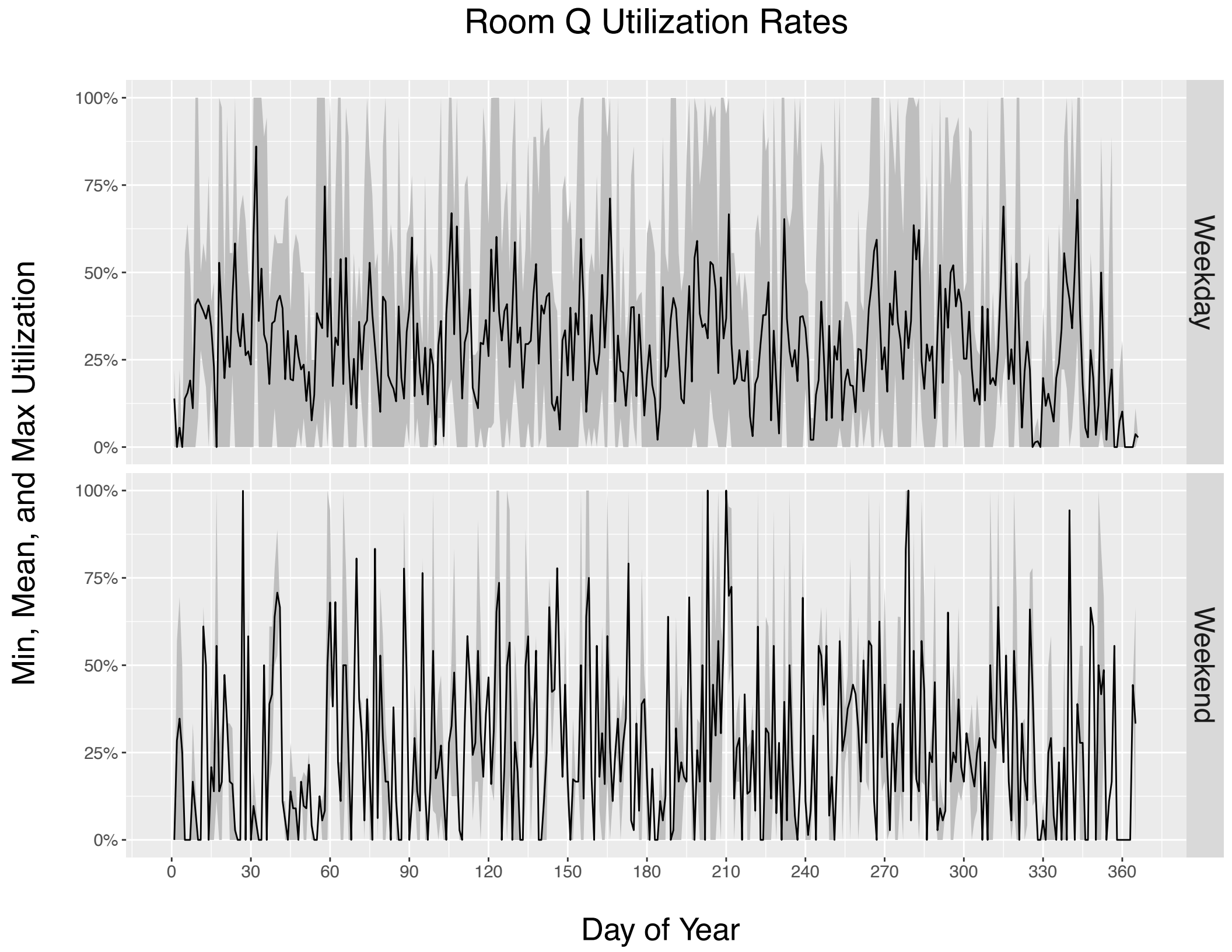
Day of Year


Room Q Utilization Rates
Min, Mean, and Max Utilization
100%
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Weekday
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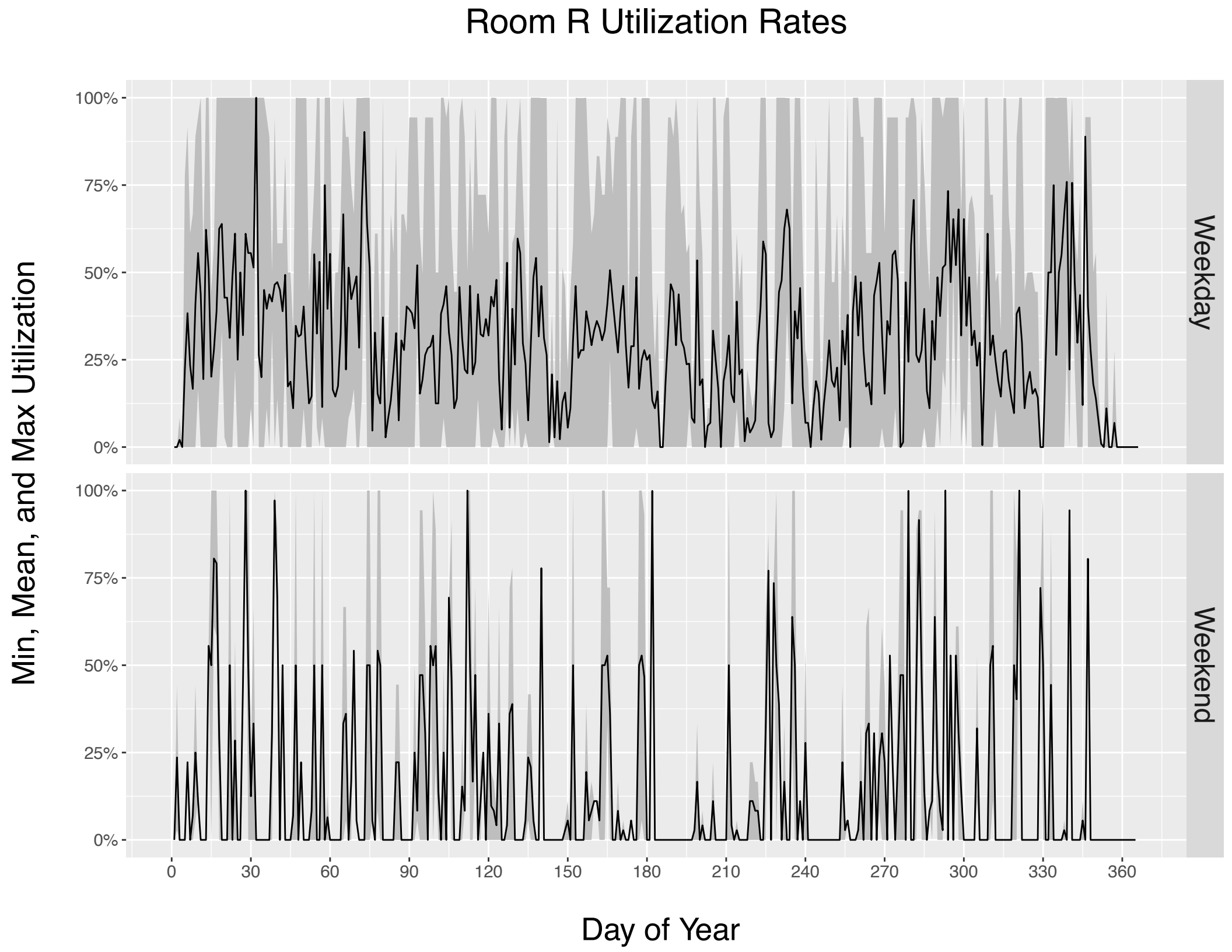
Day of Year


Room R Utilization Rates
Min, Mean, and Max Utilization
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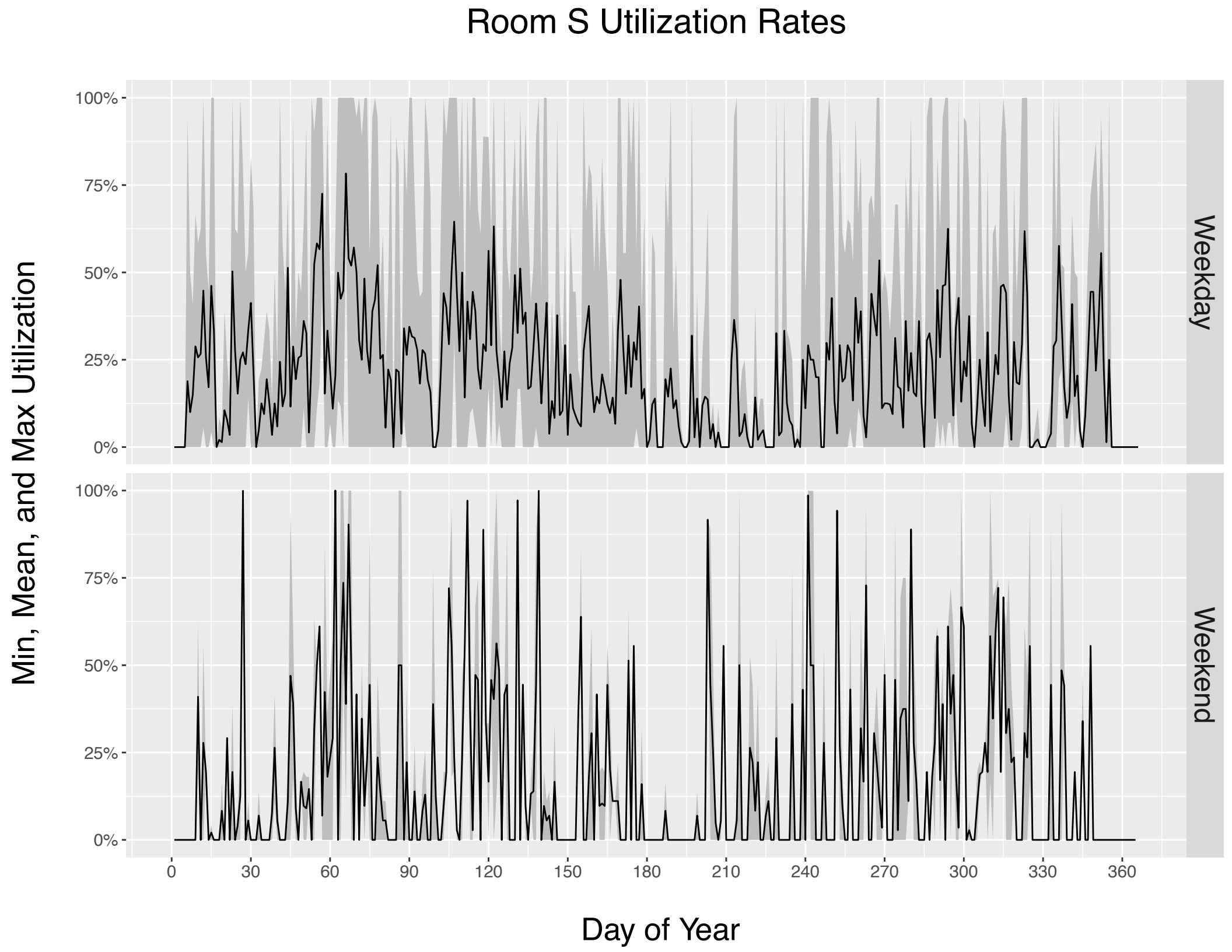
Day of Year


Room S Utilization Rates
Min, Mean, and Max Utilization
100%
75%
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Weekend
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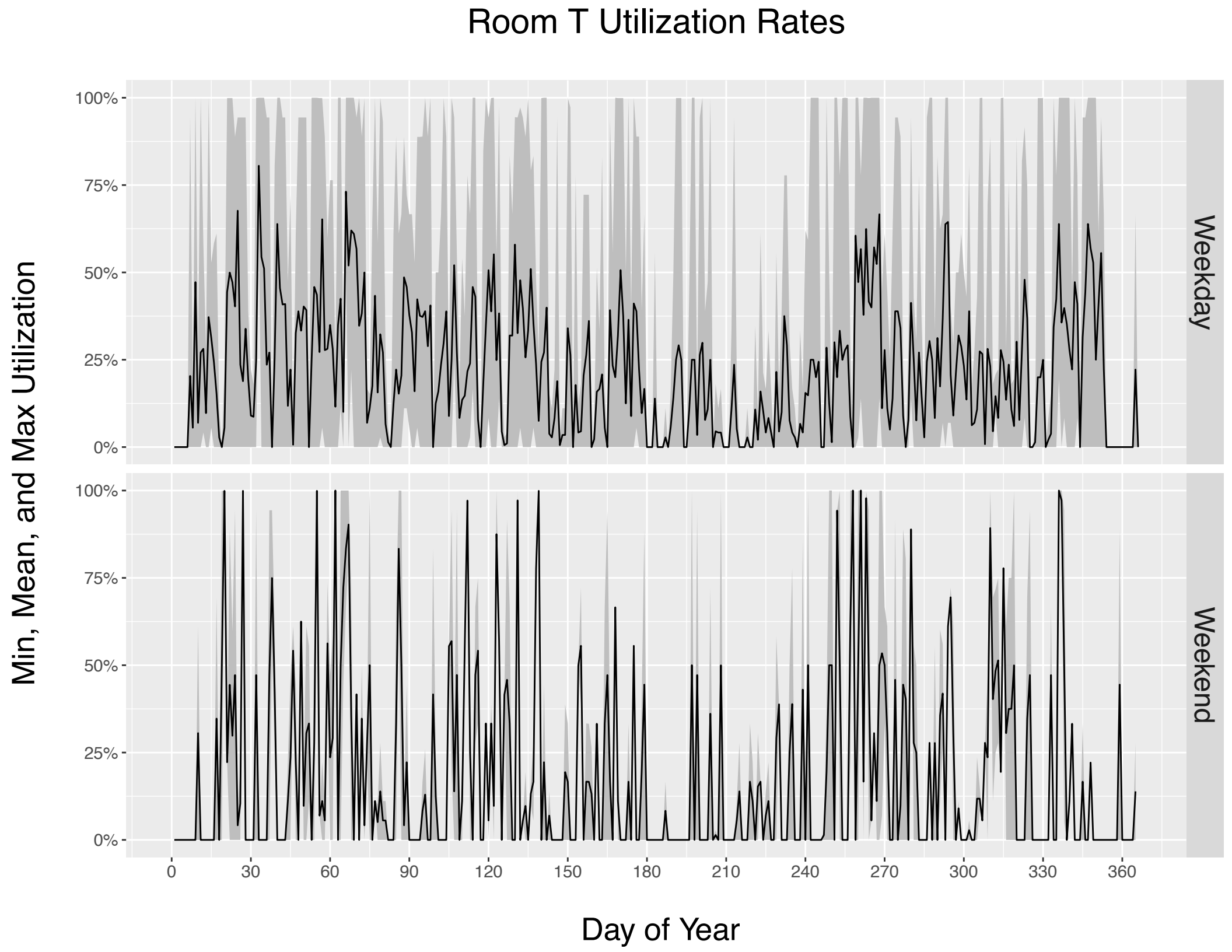
Day of Year


Room T Utilization Rates
Min, Mean, and Max Utilization
100%
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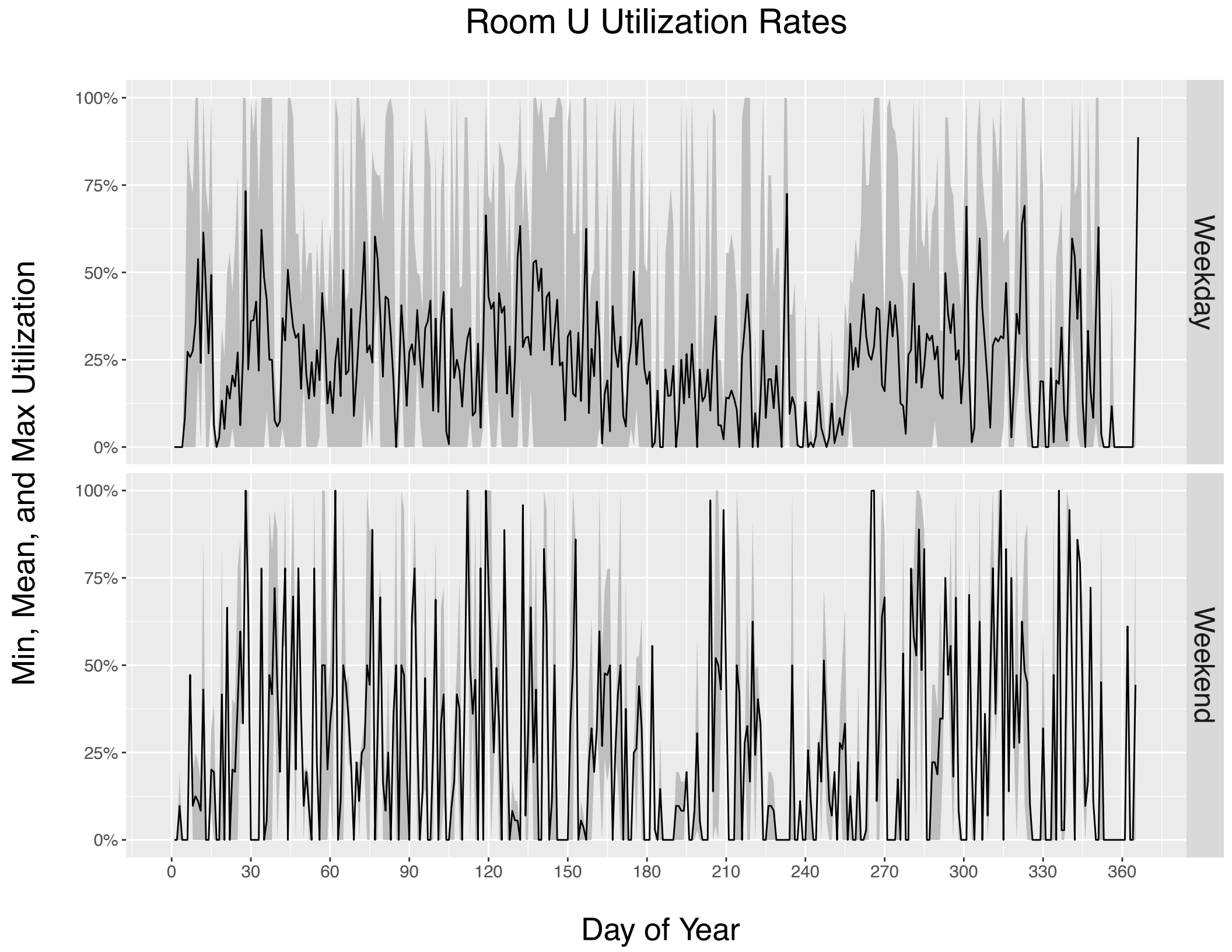
Day of Year


Room U Utilization Rates
Min, Mean, and Max Utilization
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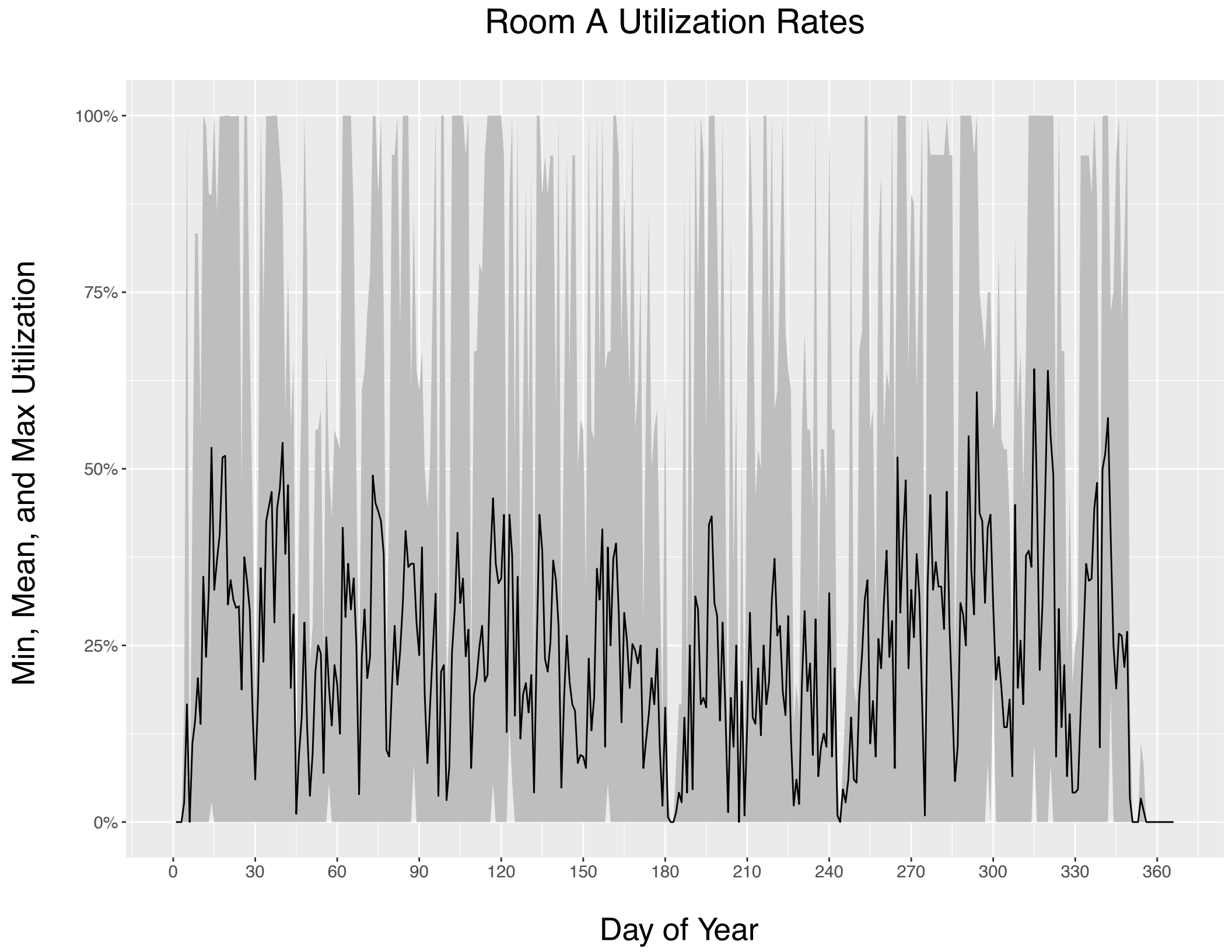
Day of Year


Room A Utilization Rates
Min, Mean, and Max Utilization
100%
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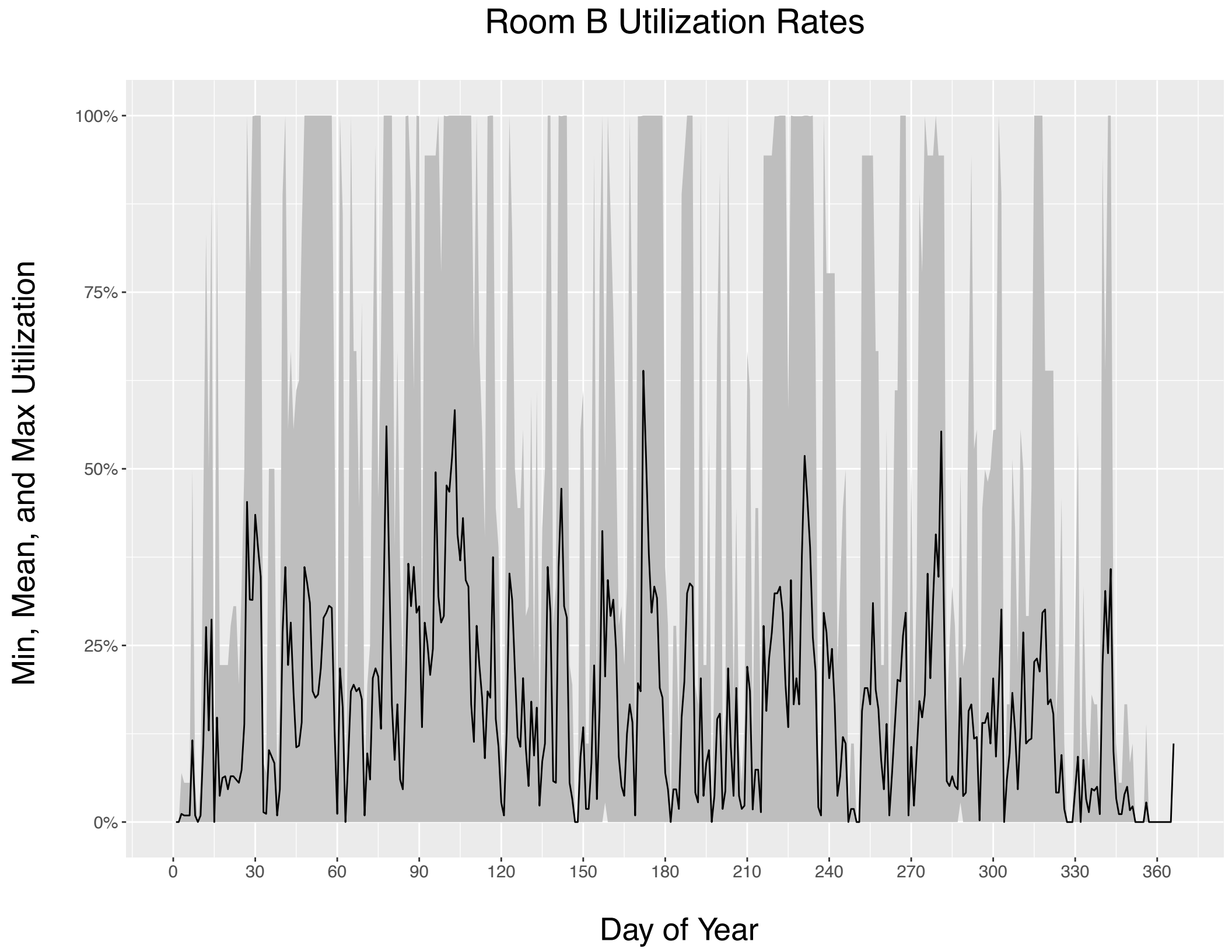
Day of Year


Room B Utilization Rates
Min, Mean, and Max Utilization
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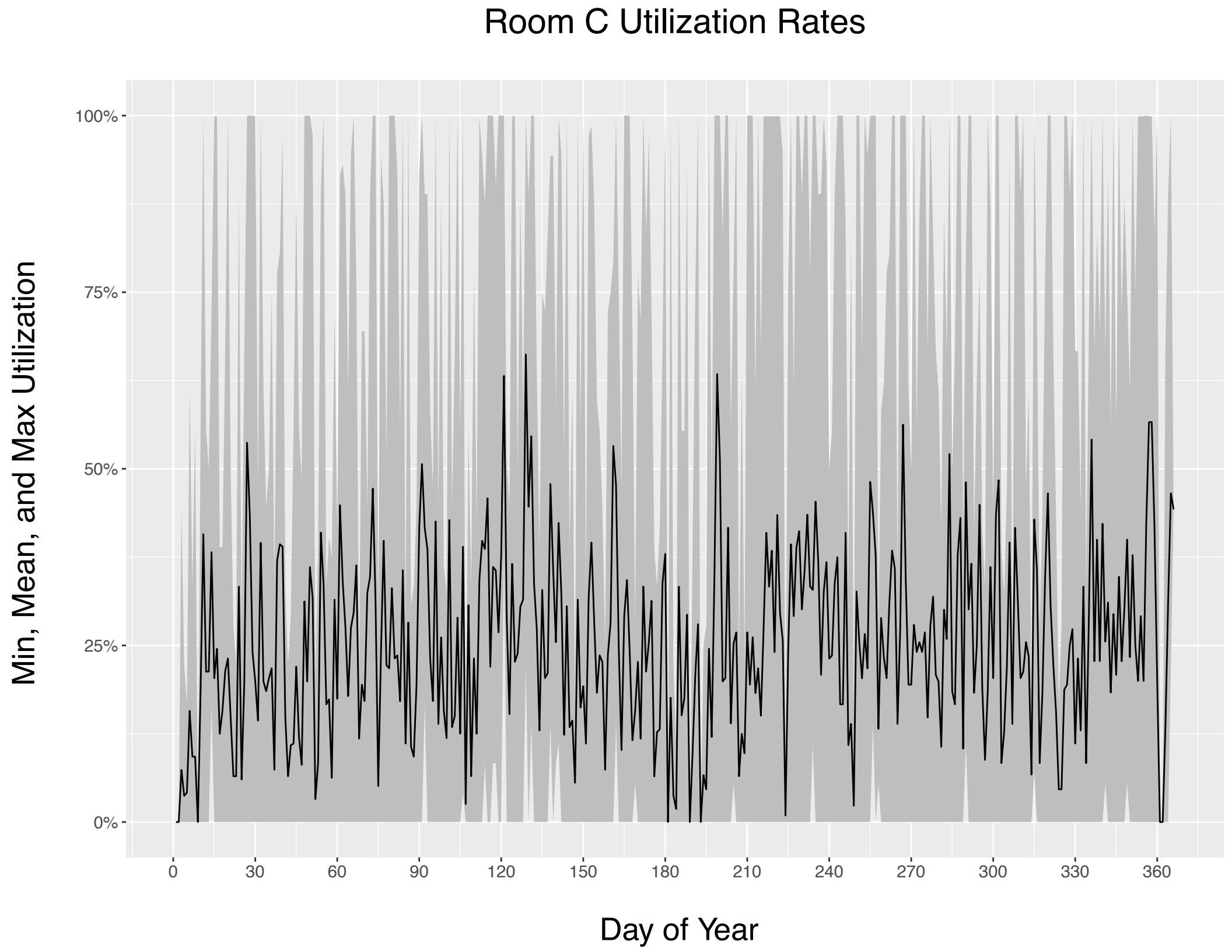
Day of Year


Room C Utilization Rates
Min, Mean, and Max Utilization
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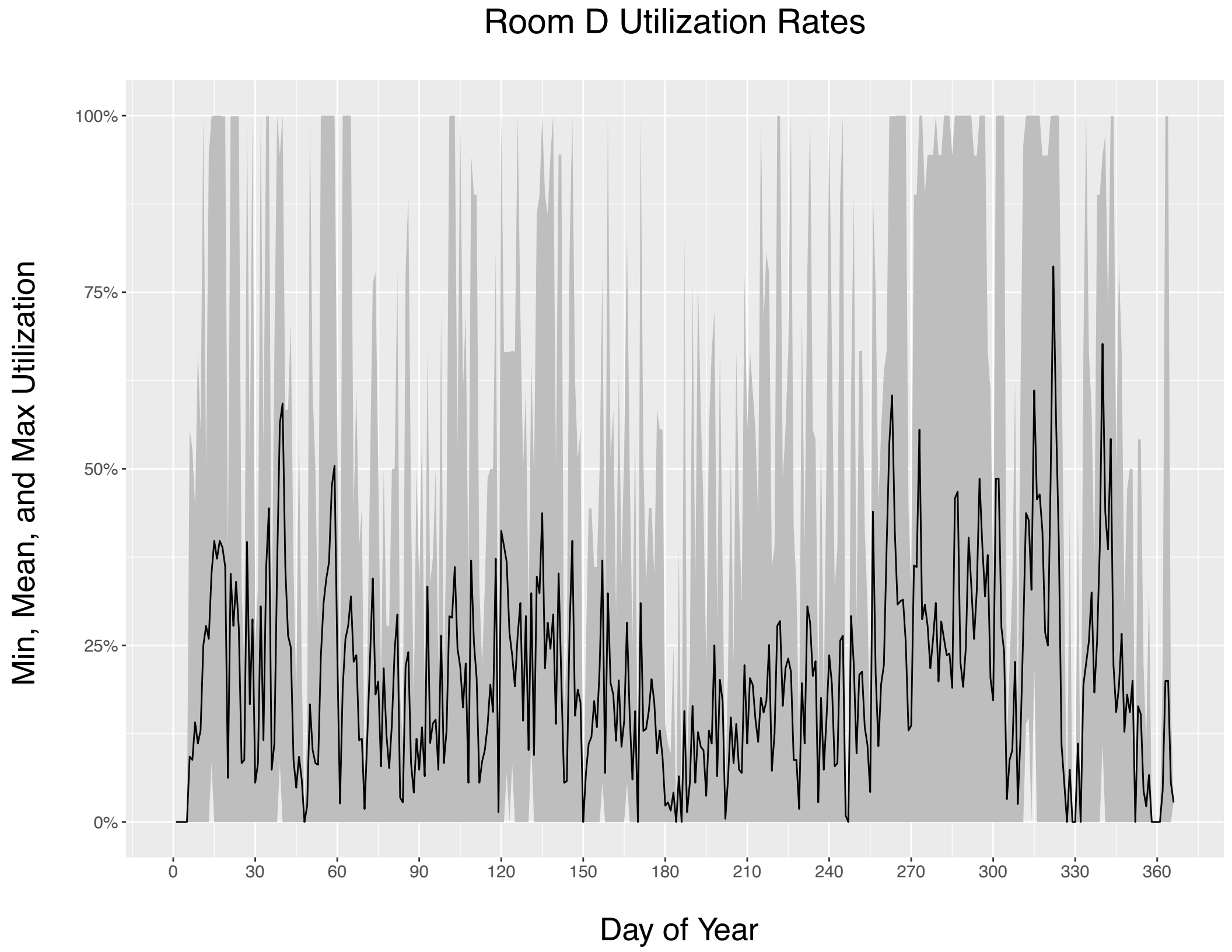
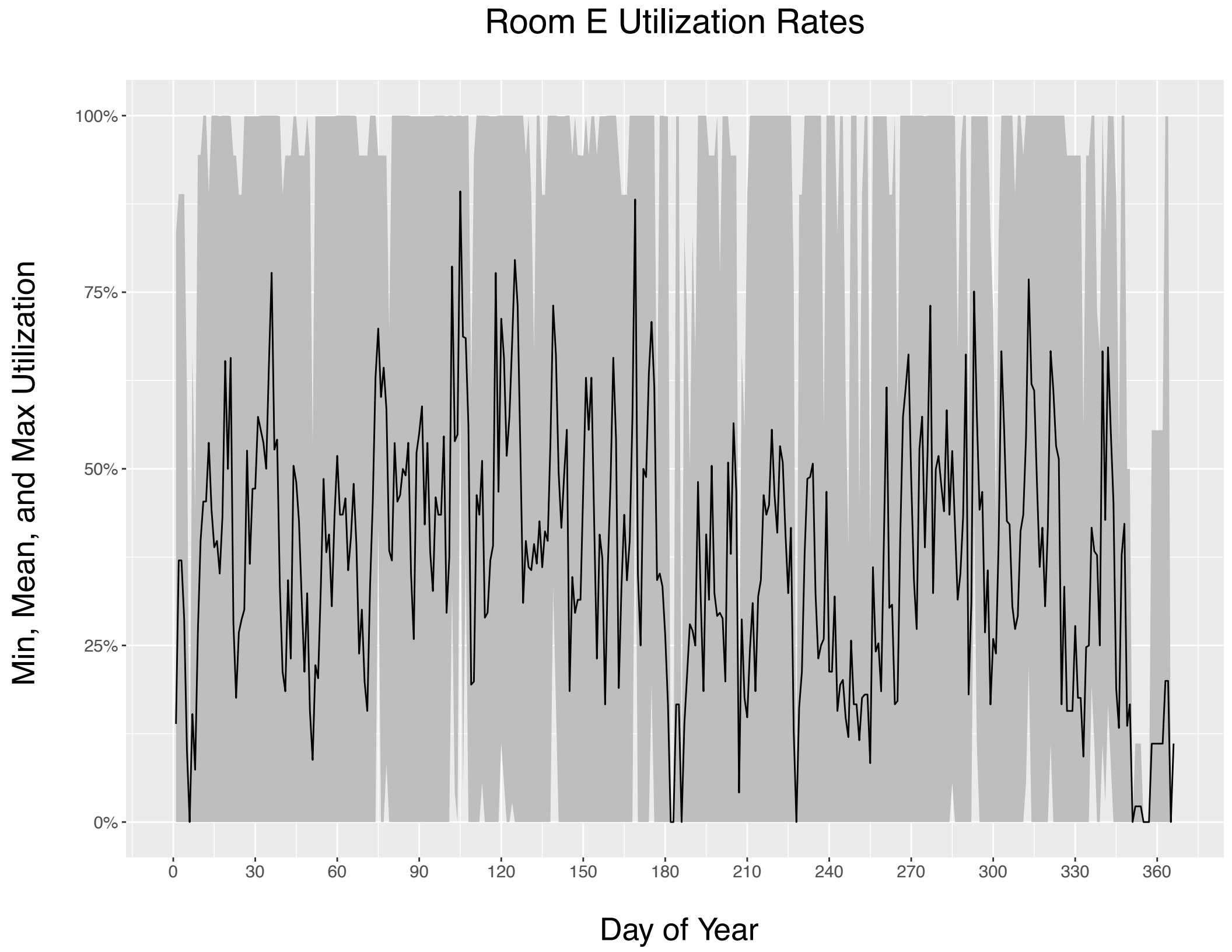
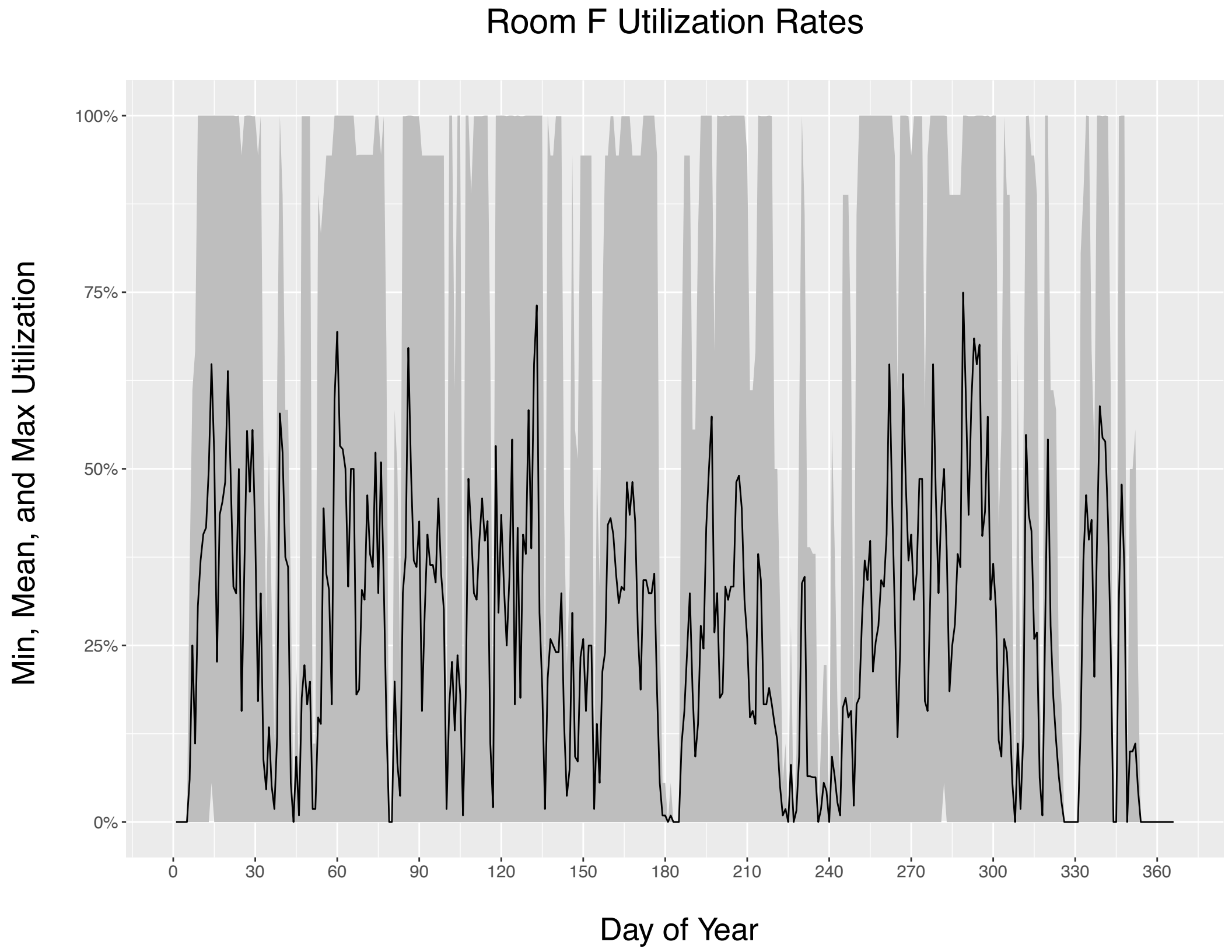
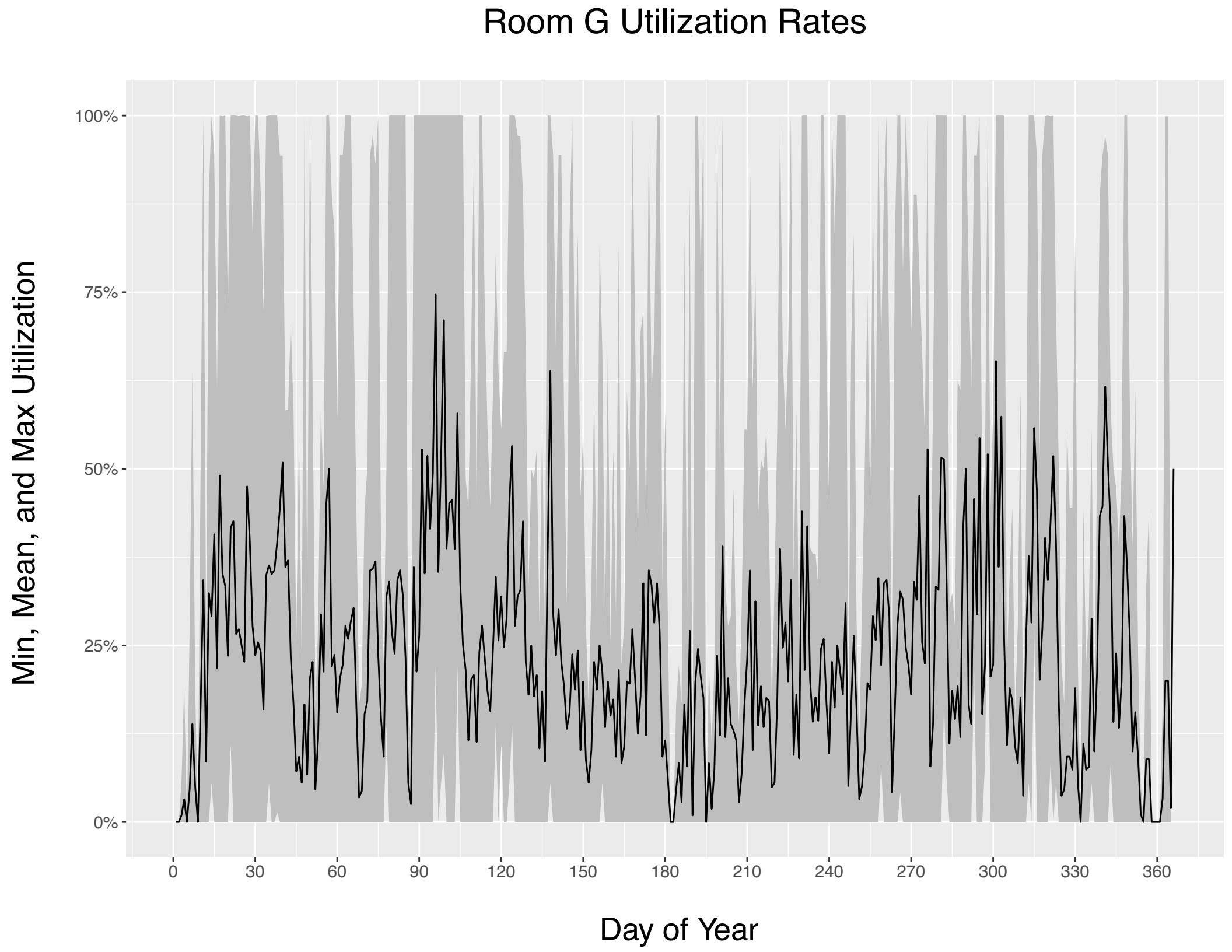
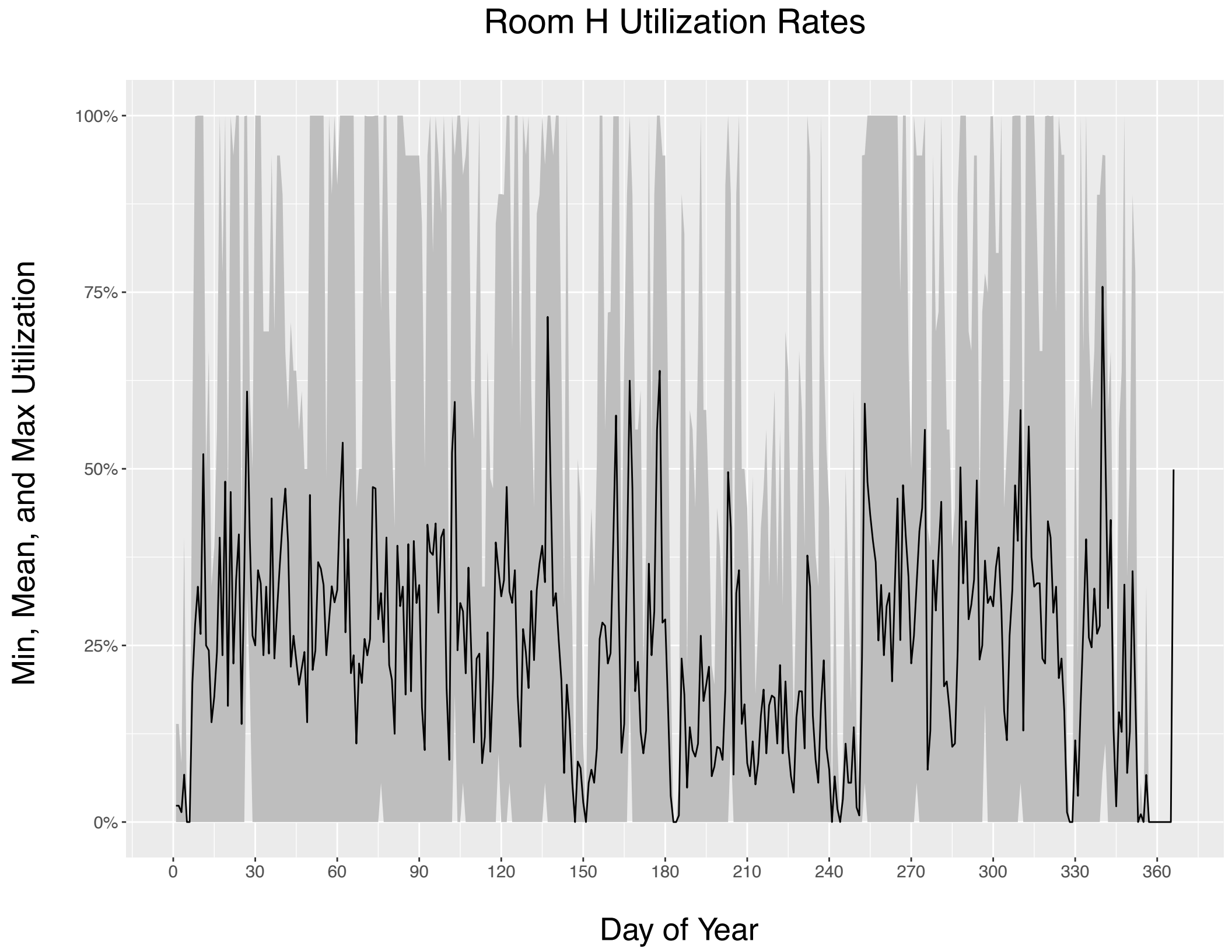
360
Day of Year

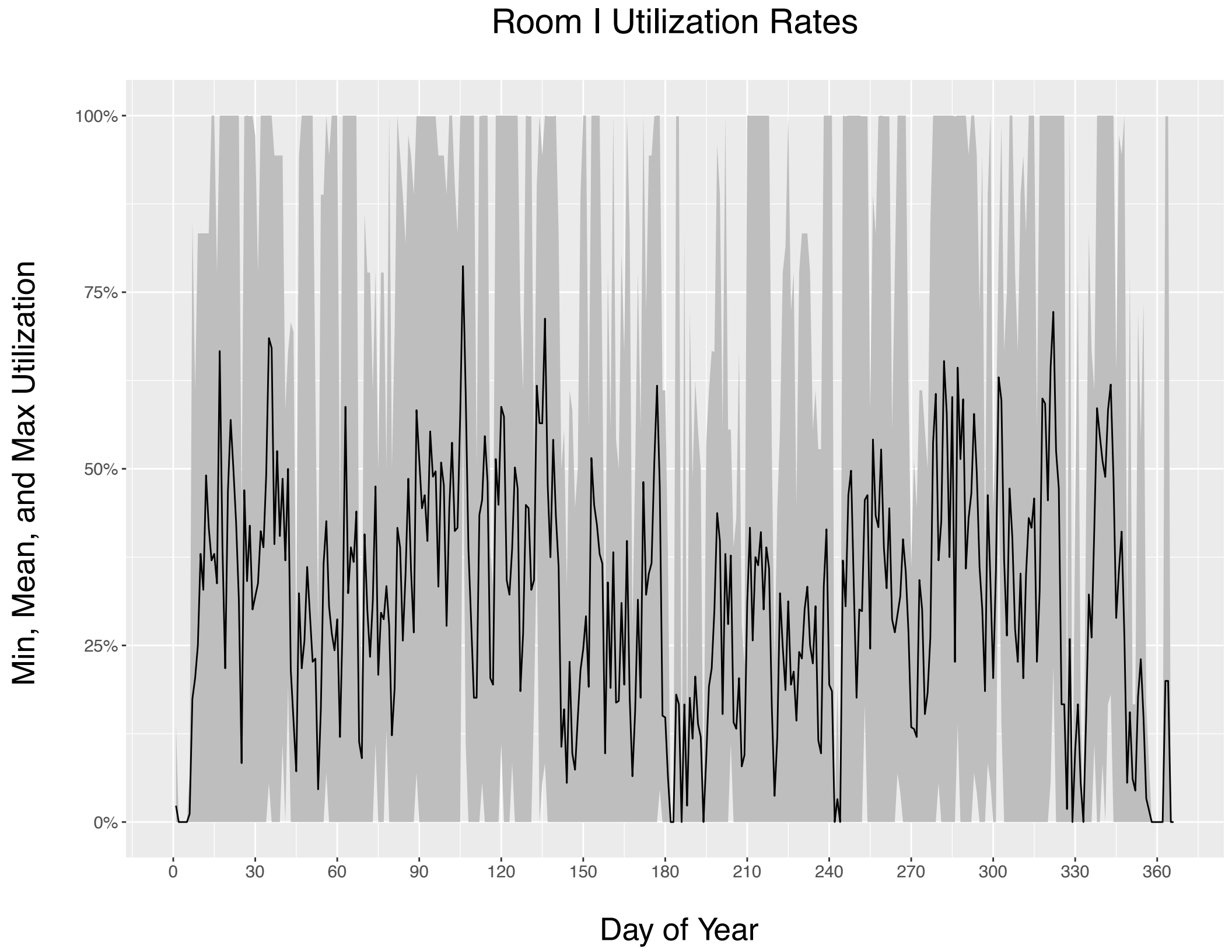

Room D Utilization Rates
Min, Mean, and Max Utilization
100%
75%
50%
25%
0%
0
30
60
90
120
150
180
210
240
270
300
330
360
Day of Year

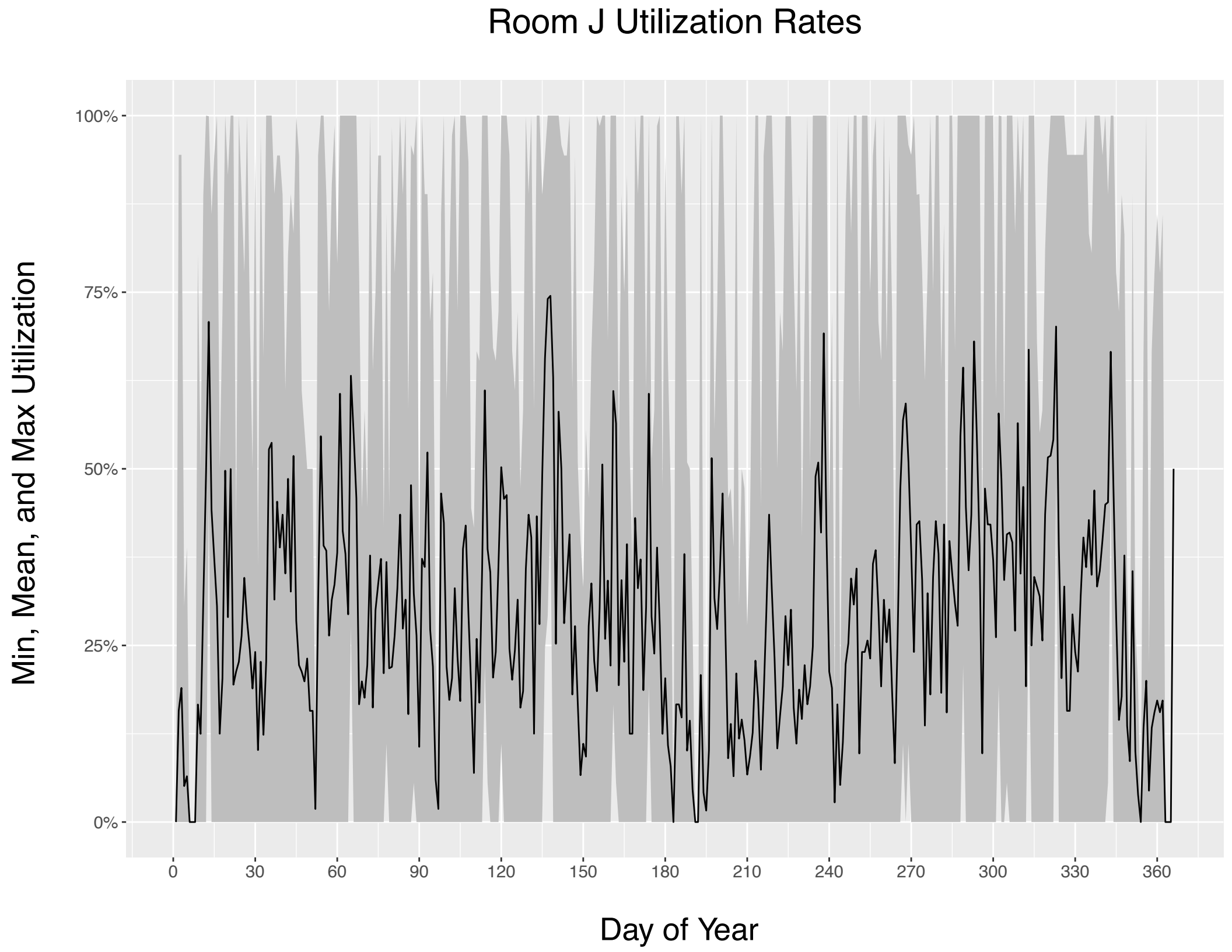

Room E Utilization Rates
Min, Mean, and Max Utilization
100%
75%
50%
25%
0%
0
30
60
90
120
150
180
210
240
270
300
330
360
Day of Year

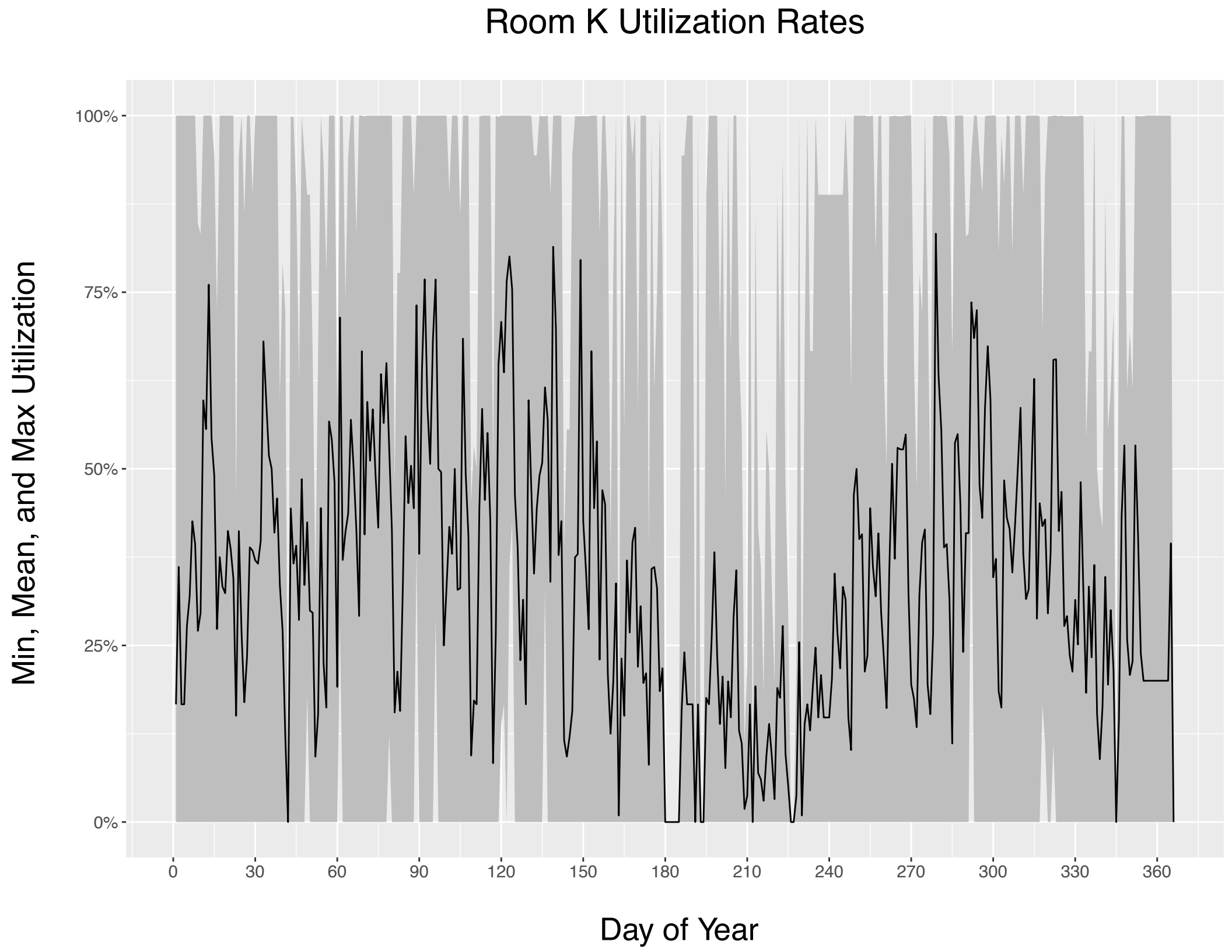

Room F Utilization Rates
Min, Mean, and Max Utilization
100%
75%
50%
25%
0%
0
30
60
90
120
150
180
210
240
270
300
330
360
Day of Year

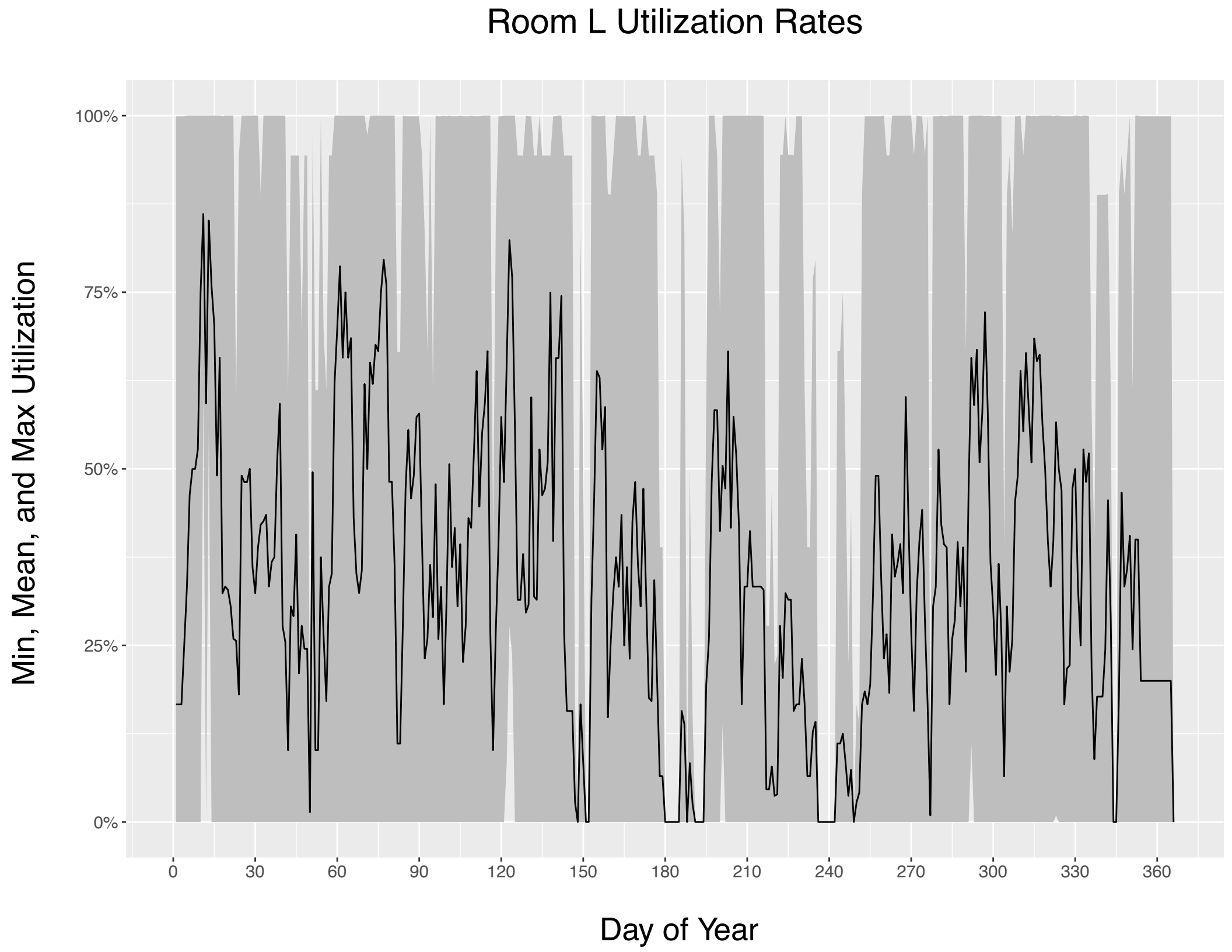

Room G Utilization Rates
Min, Mean, and Max Utilization
100%
75%
50%
25%
0%
0
30
60
90
120
150
180
210
240
270
300
330
360
Day of Year

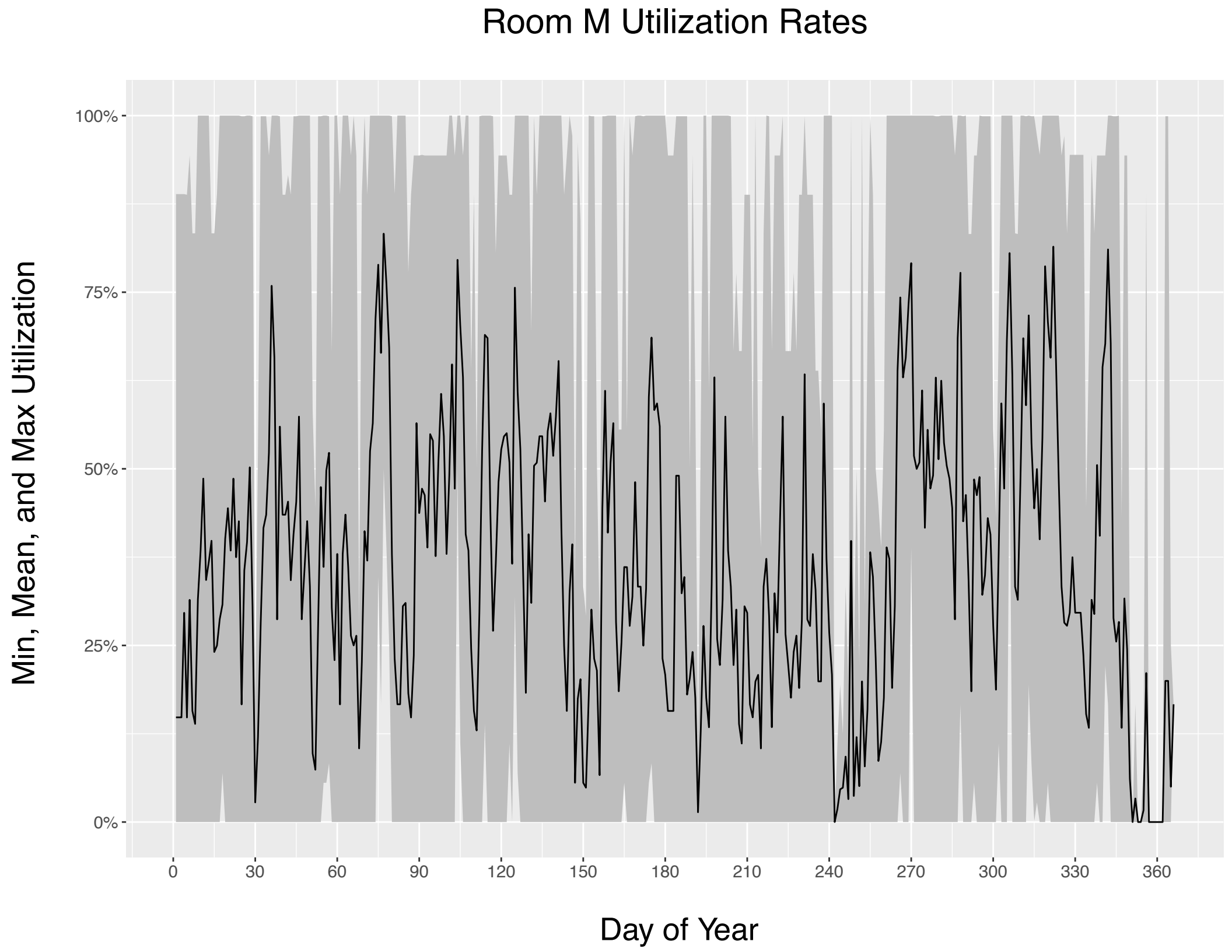

Room H Utilization Rates
Min, Mean, and Max Utilization
100%
75%
50%
25%
0%
0
30
60
90
120
150
180
210
240
270
300
330
360
Day of Year

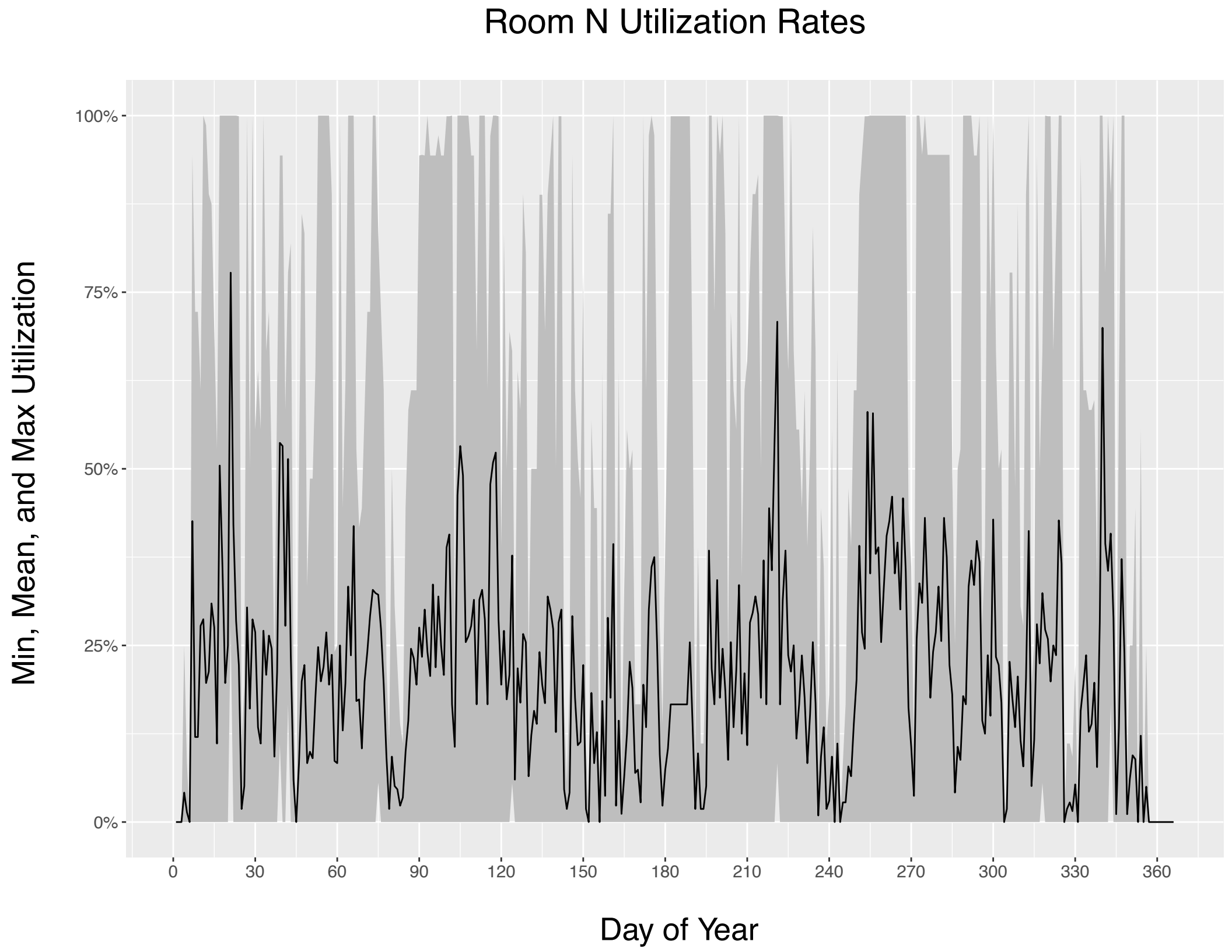

Room I Utilization Rates
Min, Mean, and Max Utilization
100%
75%
50%
25%
0%
0
30
60
90
120
150
180
210
240
270
300
330
360
Day of Year

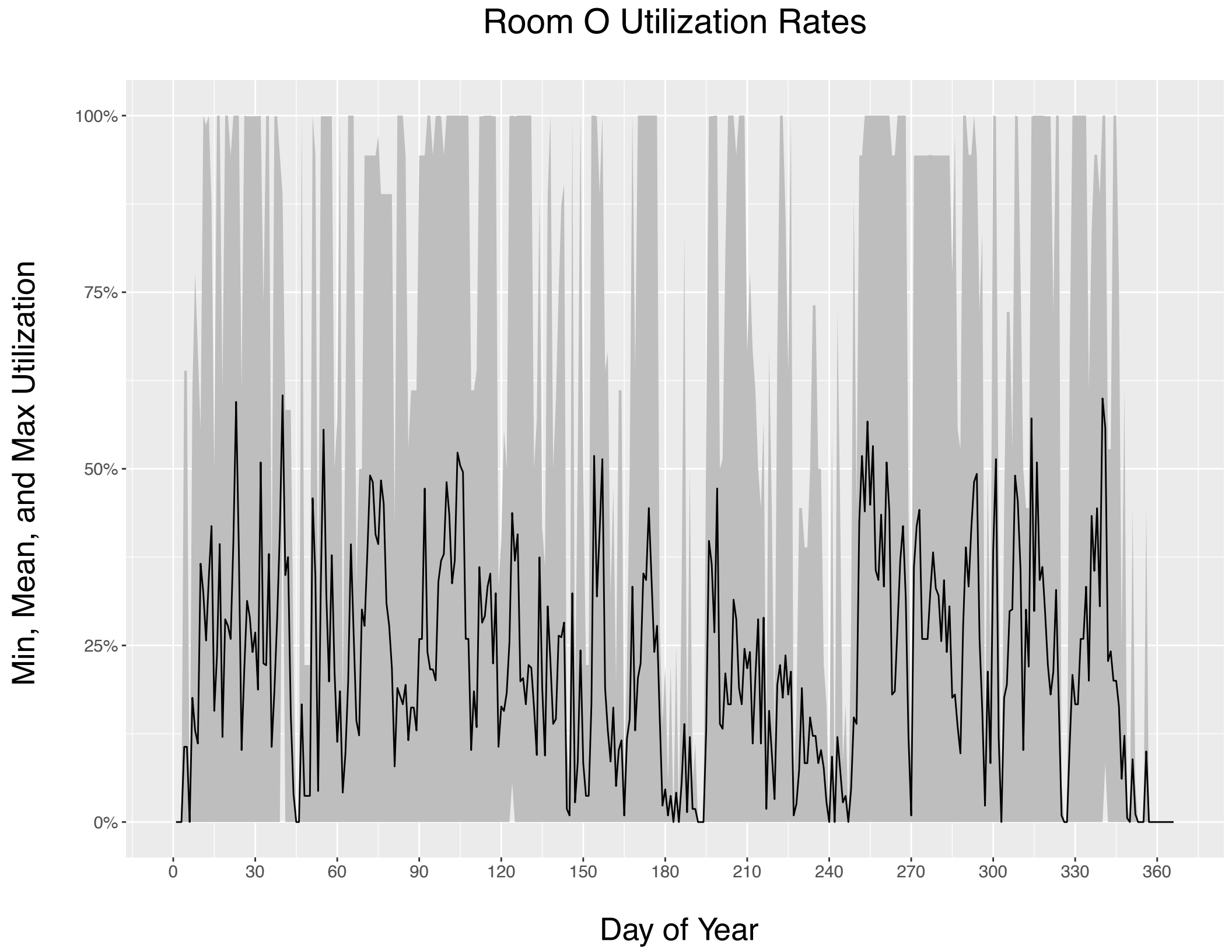

Room J Utilization Rates
Min, Mean, and Max Utilization
100%
75%
50%
25%
0%
0
30
60
90
120
150
180
210
240
270
300
330
360
Day of Year

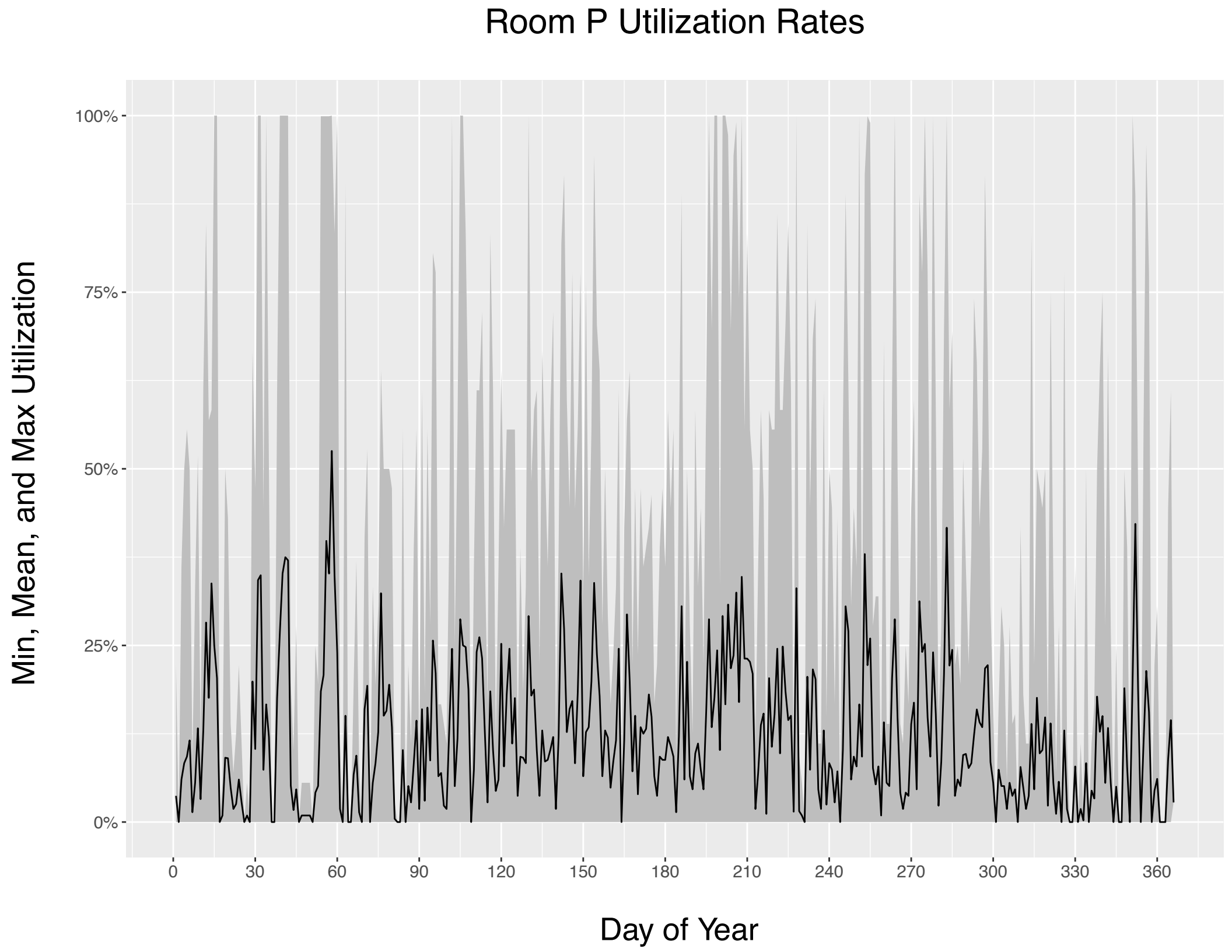

Room K Utilization Rates
Min, Mean, and Max Utilization
100%
75%
50%
25%
0%
0
30
60
90
120
150
180
210
240
270
300
330
360
Day of Year

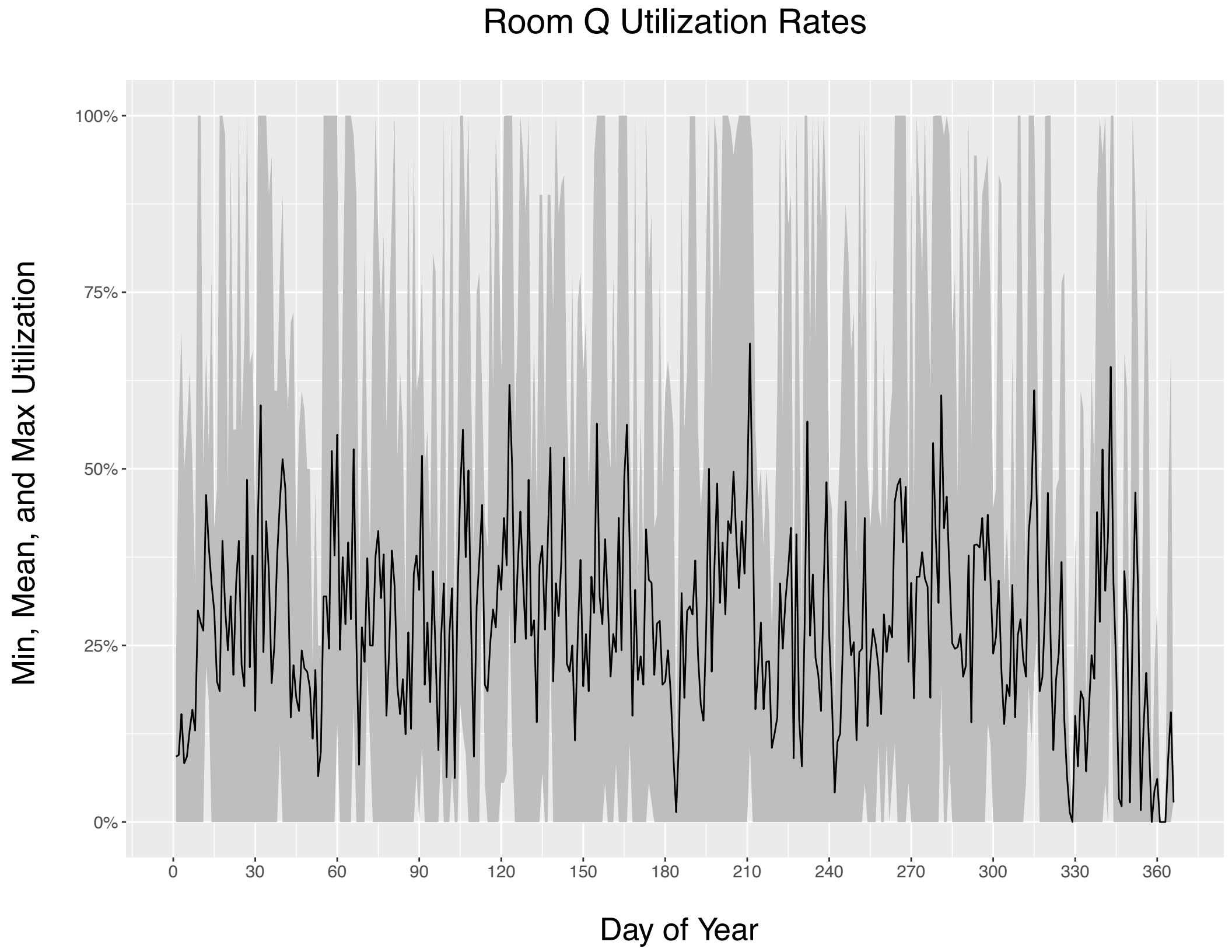

Room L Utilization Rates
Min, Mean, and Max Utilization
100%
75%
50%
25%
0%
0
30
60
90
120
150
180
210
240
270
300
330
360
Day of Year

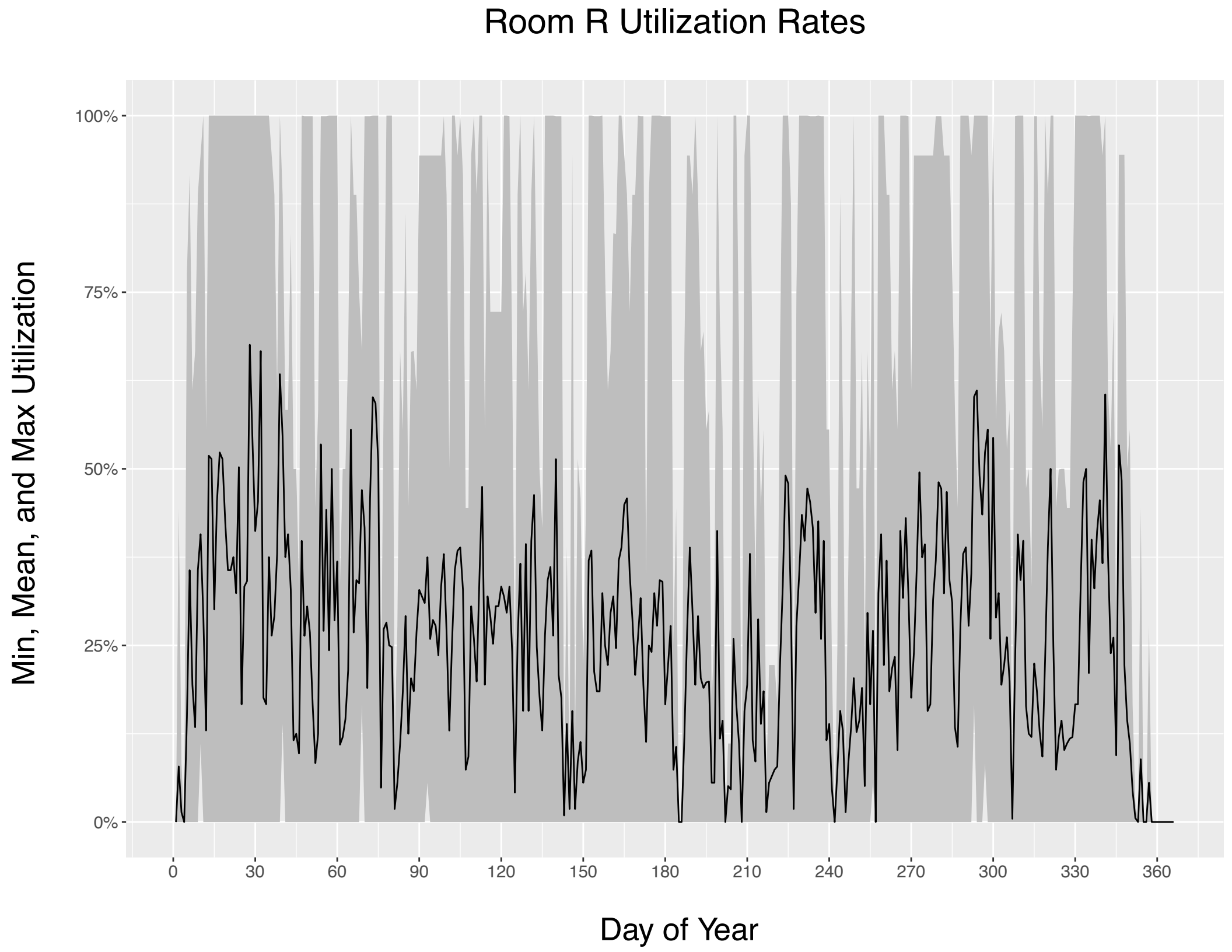

Room M Utilization Rates
Min, Mean, and Max Utilization
100%
75%
50%
25%
0%
0
30
60
90
120
150
180
210
240
270
300
330
360
Day of Year

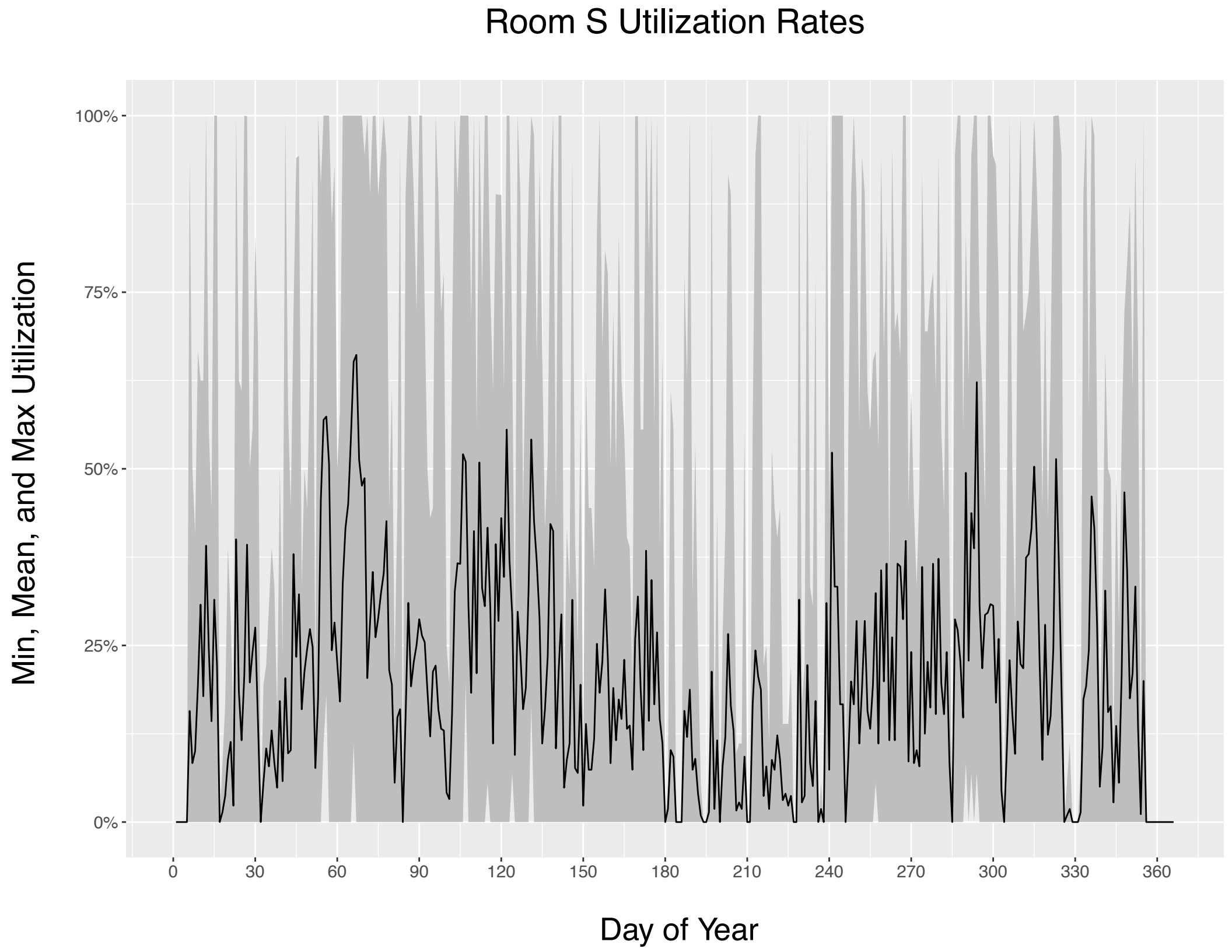

Room N Utilization Rates
Min, Mean, and Max Utilization
100%
75%
50%
25%
0%
0
30
60
90
120
150
180
210
240
270
300
330
360
Day of Year

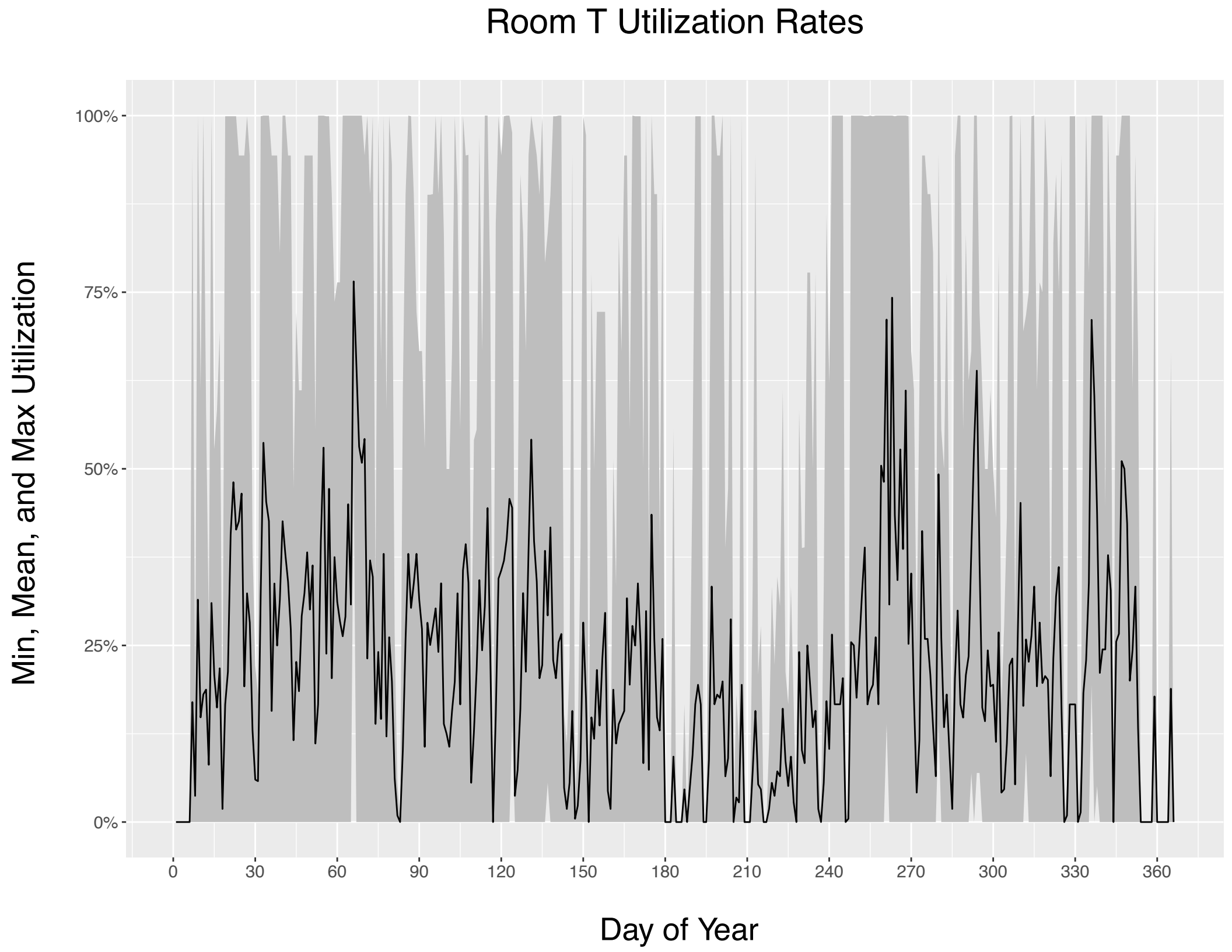

Room O Utilization Rates
Min, Mean, and Max Utilization
100%
75%
50%
25%
0%
0
30
60
90
120
150
180
210
240
270
300
330
360
Day of Year

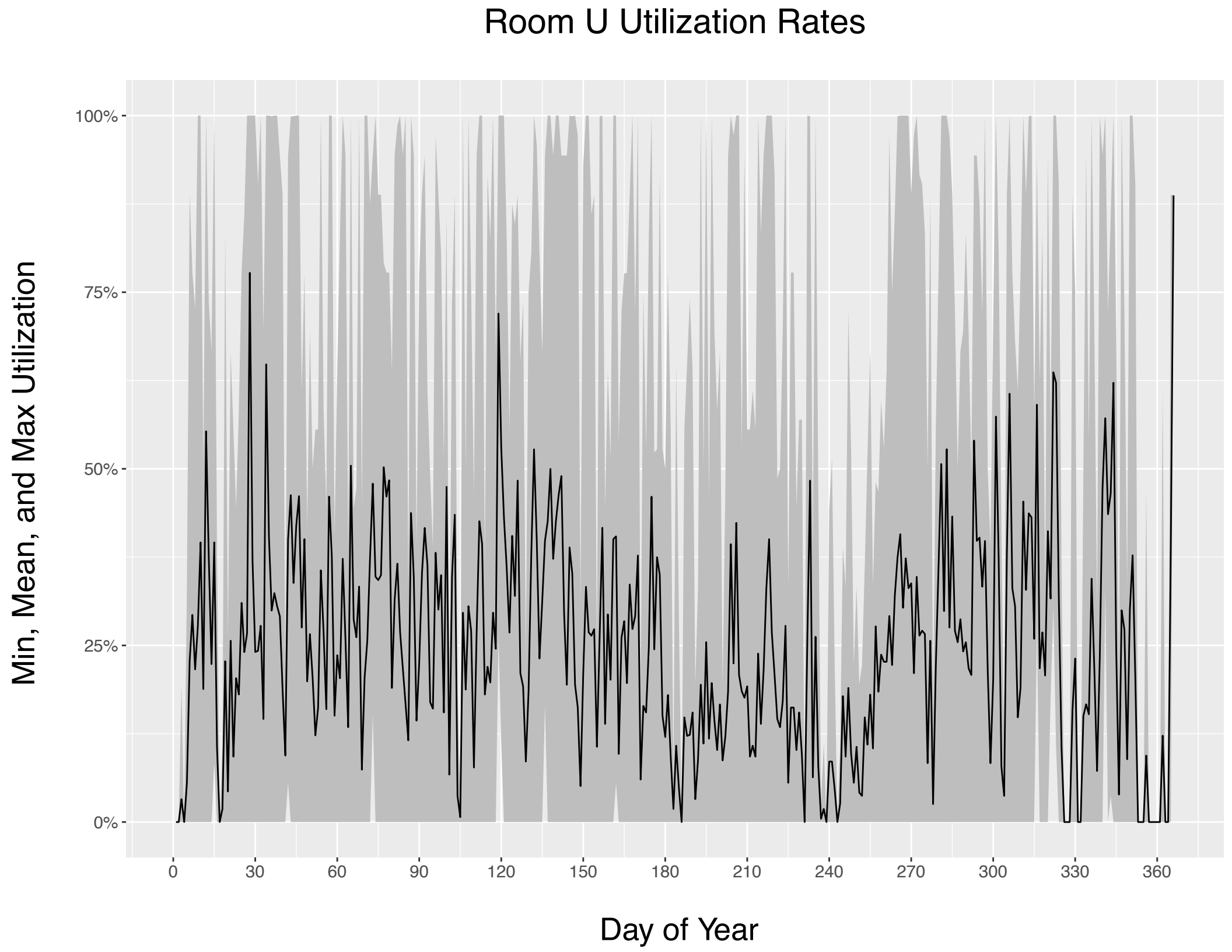

Room P Utilization Rates
Min, Mean, and Max Utilization
100%
75%
50%
25%
0%
0
30
60
90
120
150
180
210
240
270
300
330
360
Day of Year

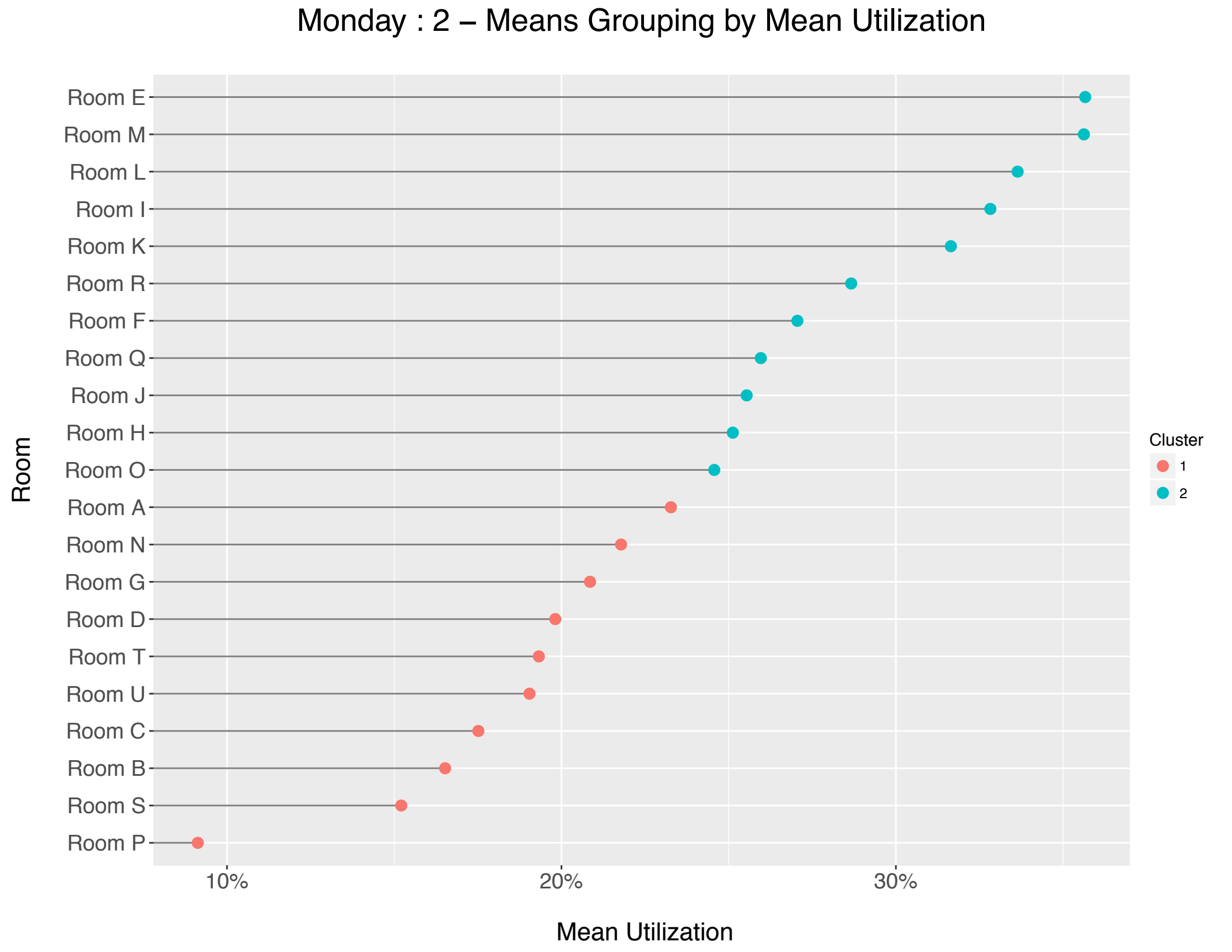

Room Q Utilization Rates
Min, Mean, and Max Utilization
100%
75%
50%
25%
0%
0
30
60
90
120
150
180
210
240
270
300
330
360
Day of Year

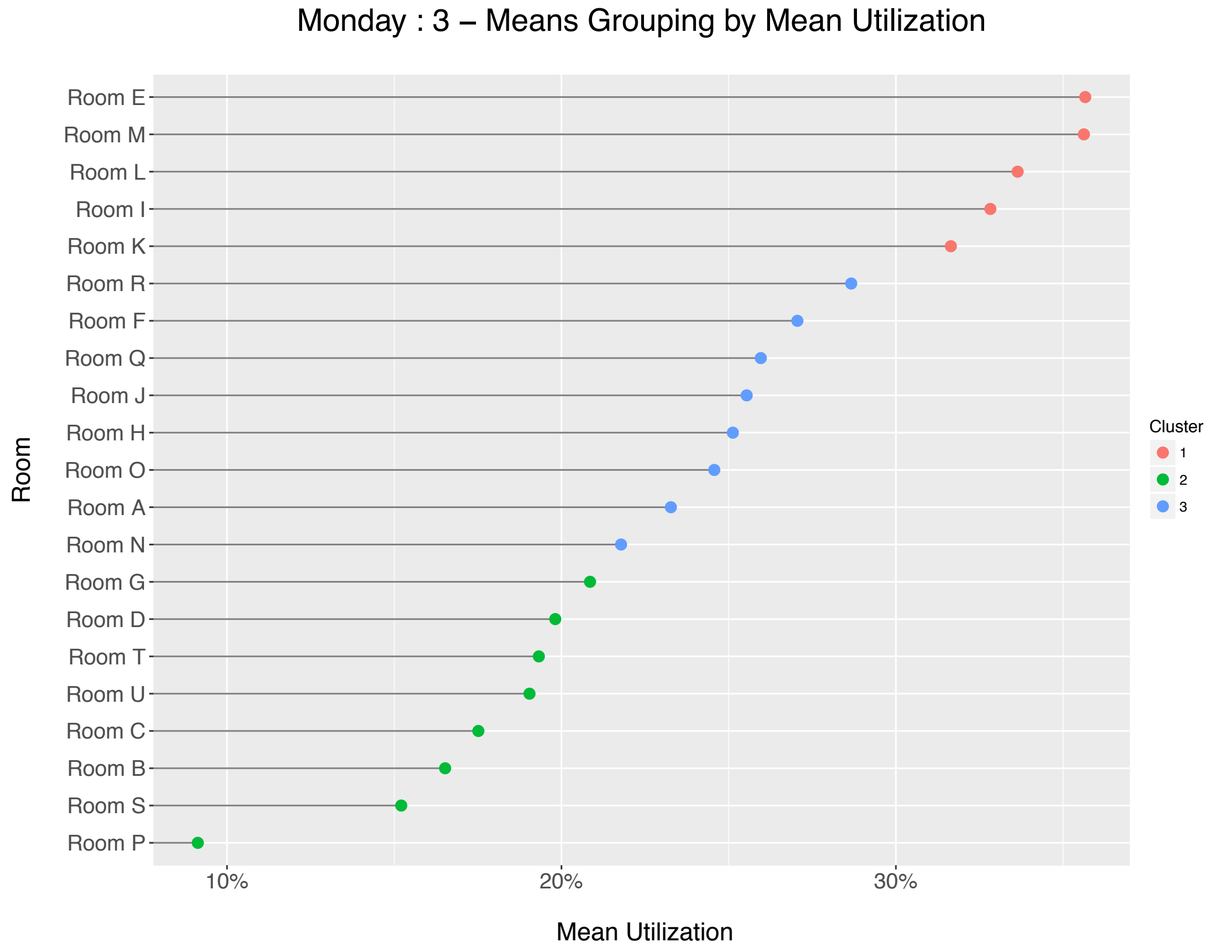

Room R Utilization Rates
Min, Mean, and Max Utilization
100%
75%
50%
25%
0%
0
30
60
90
120
150
180
210
240
270
300
330
360
Day of Year

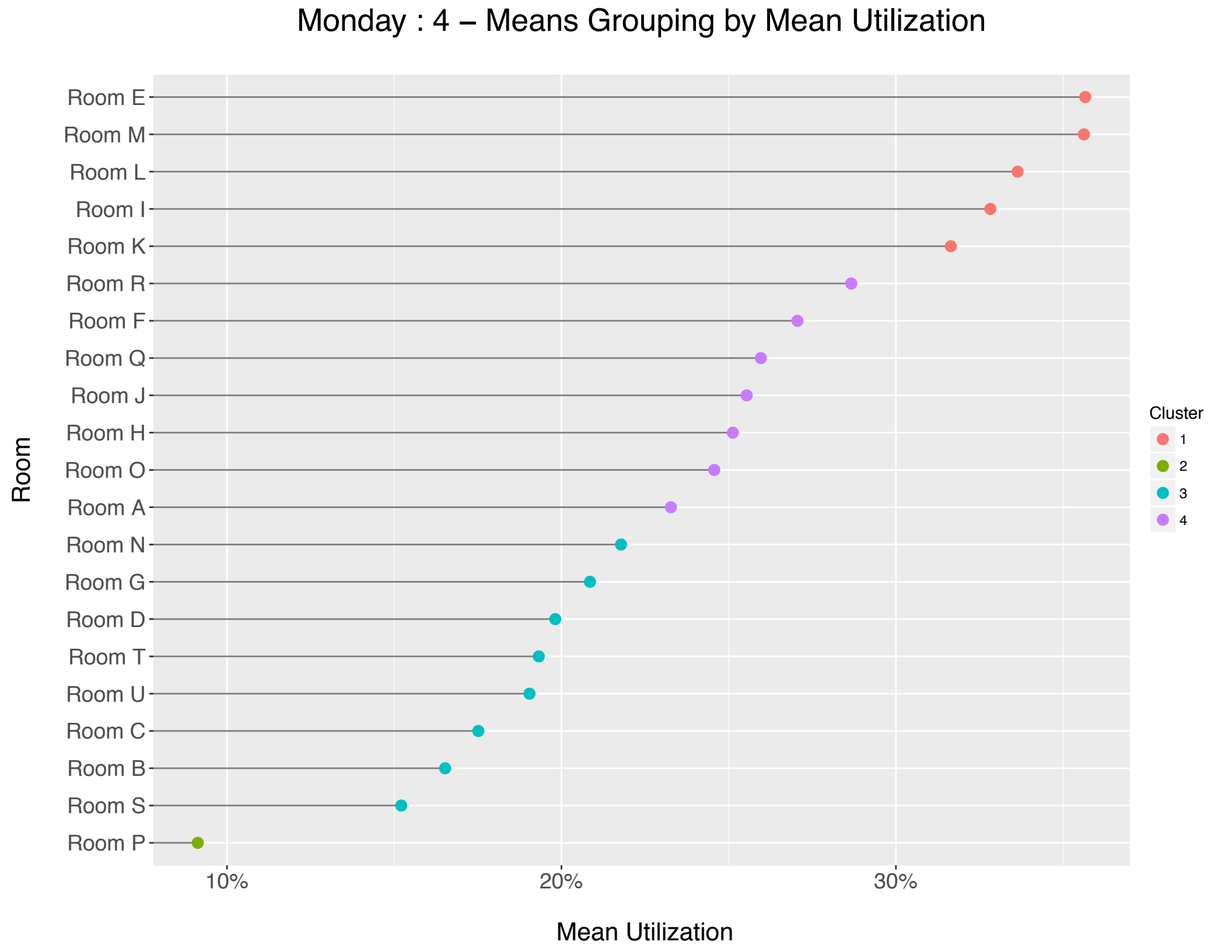

Room S Utilization Rates
Min, Mean, and Max Utilization
100%
75%
50%
25%
0%
0
30
60
90
120
150
180
210
240
270
300
330
360
Day of Year

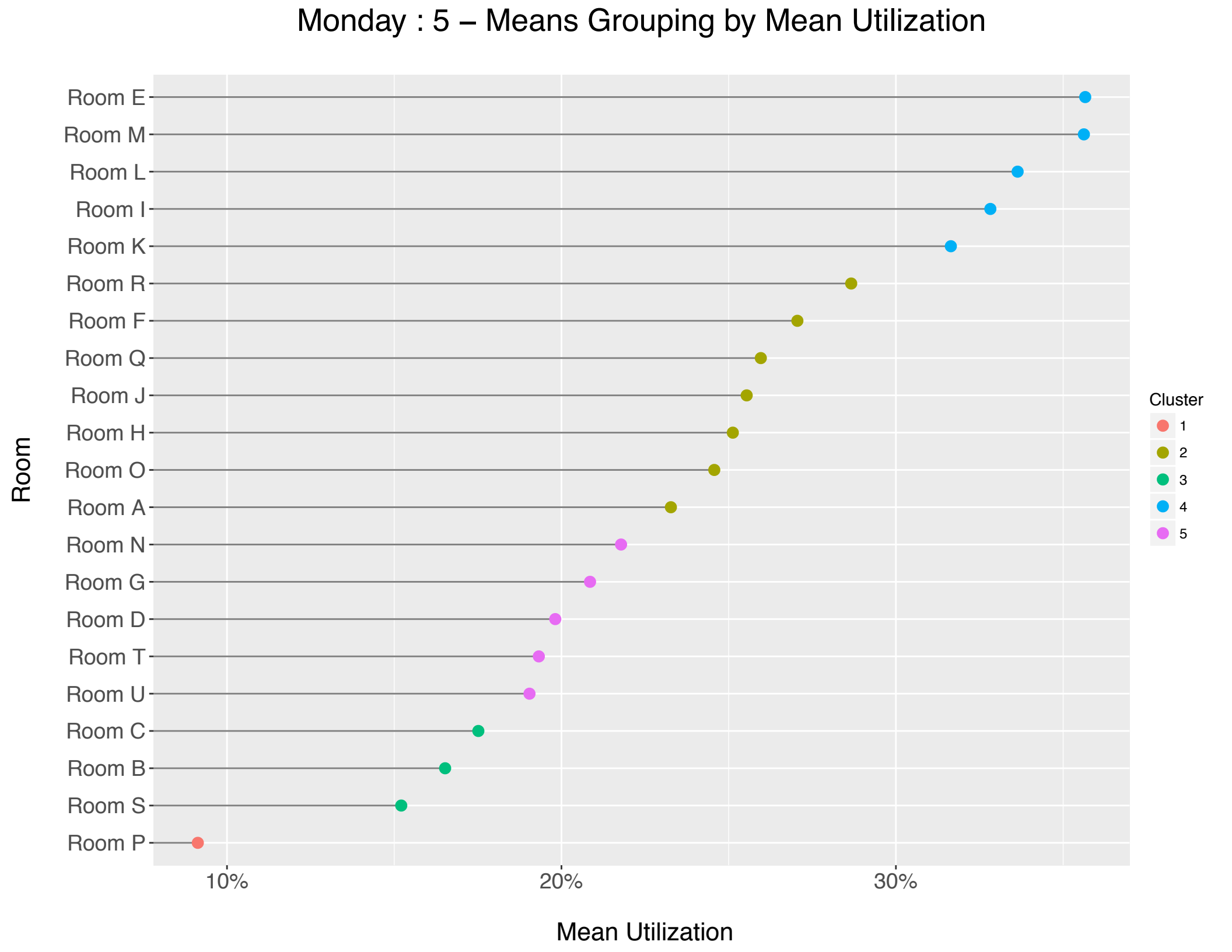

Room T Utilization Rates
Min, Mean, and Max Utilization
100%
75%
50%
25%
0%
0
30
60
90
120
150
180
210
240
270
300
330
360
Day of Year

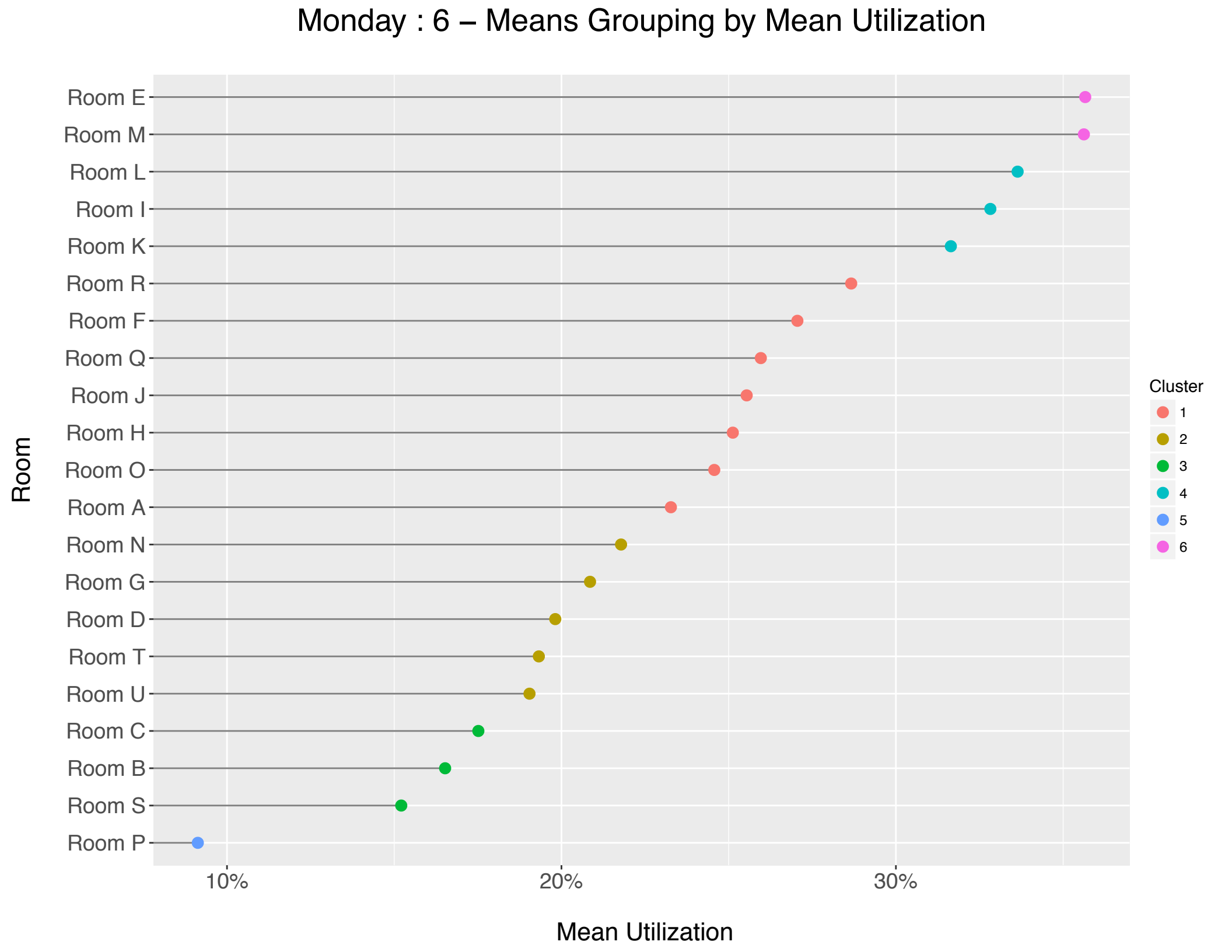

Room U Utilization Rates
Min, Mean, and Max Utilization
100%
75%
50%
25%
0%
0
30
60
90
120
150
180
210
240
270
300
330
360
Day of Year

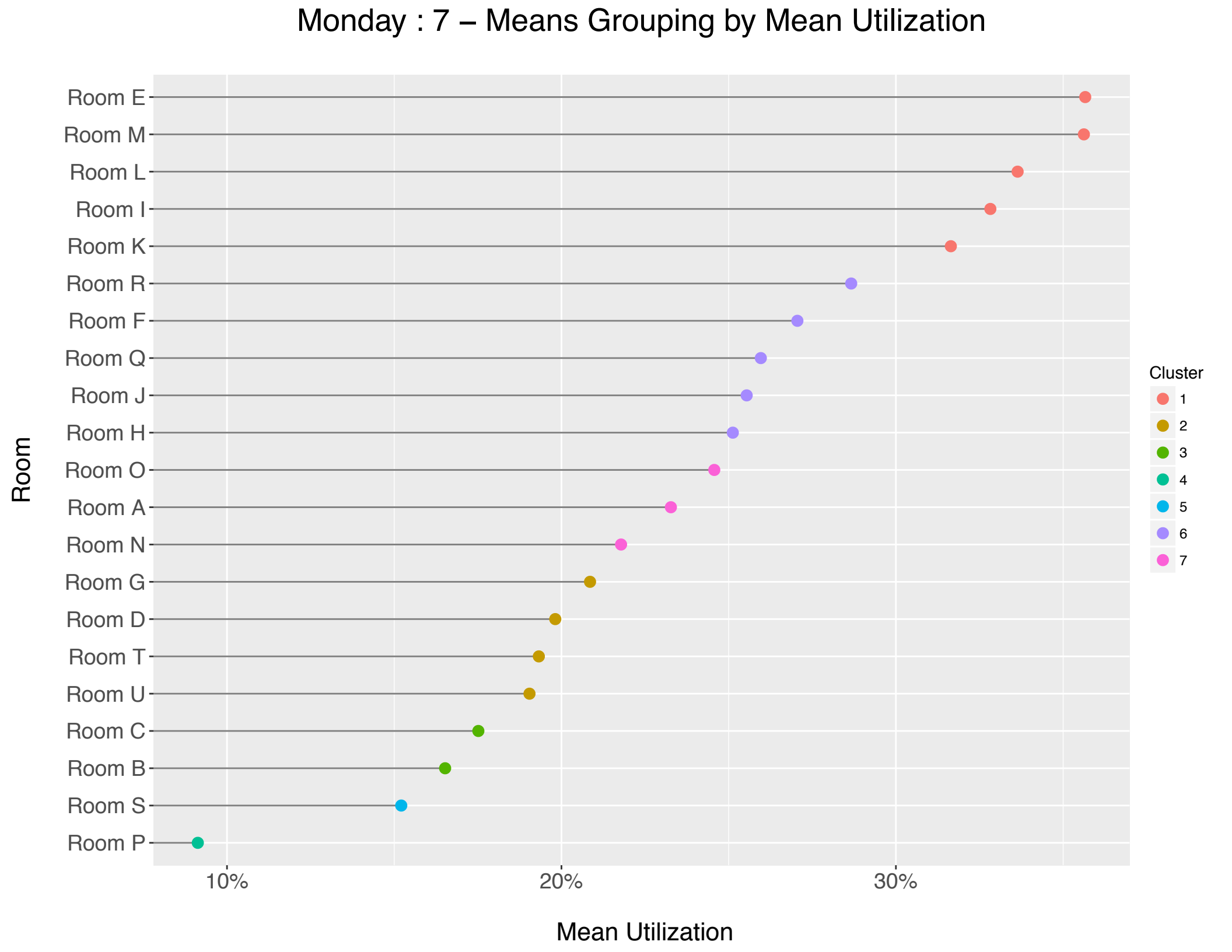

Monday : 2 – Means Grouping by Mean Utilization
Room E
Room M
Room L
Room I
Room K
Room R
Room F
Room Q
Room J
Room H
Room O
Room A
Room N
Room G
Room D
Room T
Room U
Room C
Room B
Room S
Room P
Room
10%
20%
30%
Mean Utilization
Cluster
1
2

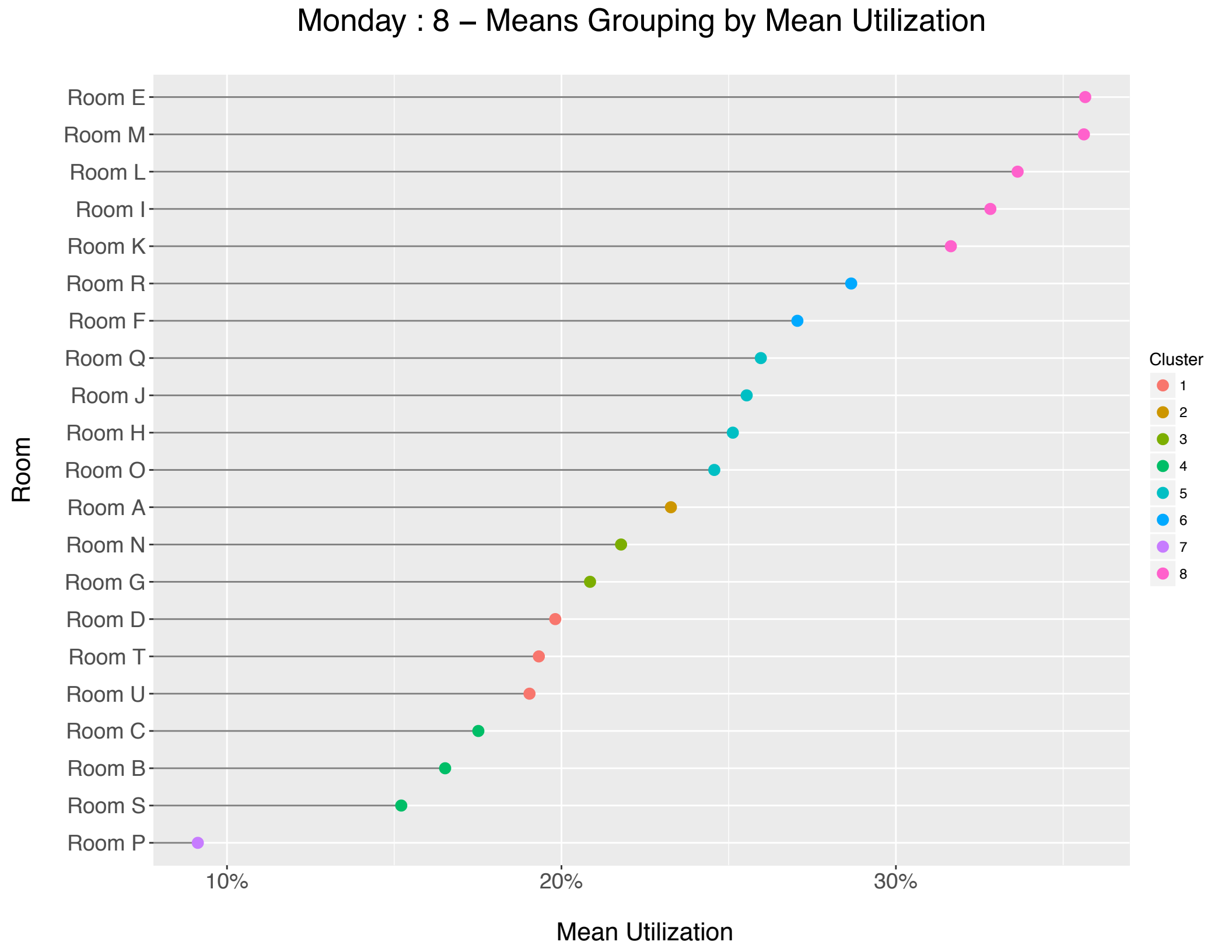

Monday : 3 – Means Grouping by Mean Utilization
Room E
Room M
Room L
Room I
Room K
Room R
Room F
Room Q
Room J
Room H
Room O
Room A
Room N
Room G
Room D
Room T
Room U
Room C
Room B
Room S
Room P
Room
10%
20%
30%
Mean Utilization
Cluster
1
2
3

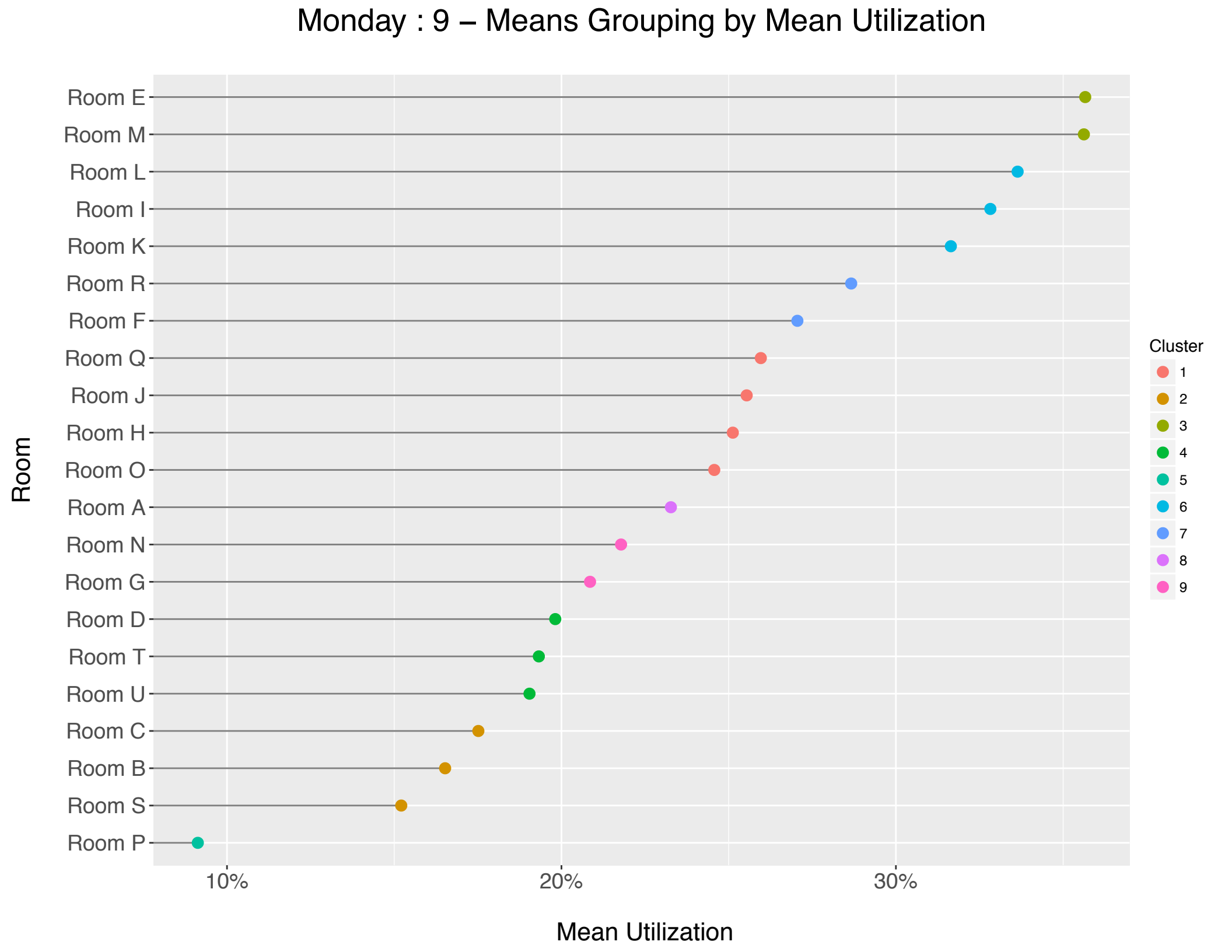

Monday : 4 – Means Grouping by Mean Utilization
Room E
Room M
Room L
Room I
Room K
Room R
Room F
Room Q
Room J
Room H
Room O
Room A
Room N
Room G
Room D
Room T
Room U
Room C
Room B
Room S
Room P
Room
10%
20%
30%
Mean Utilization
Cluster
1
2
3
4

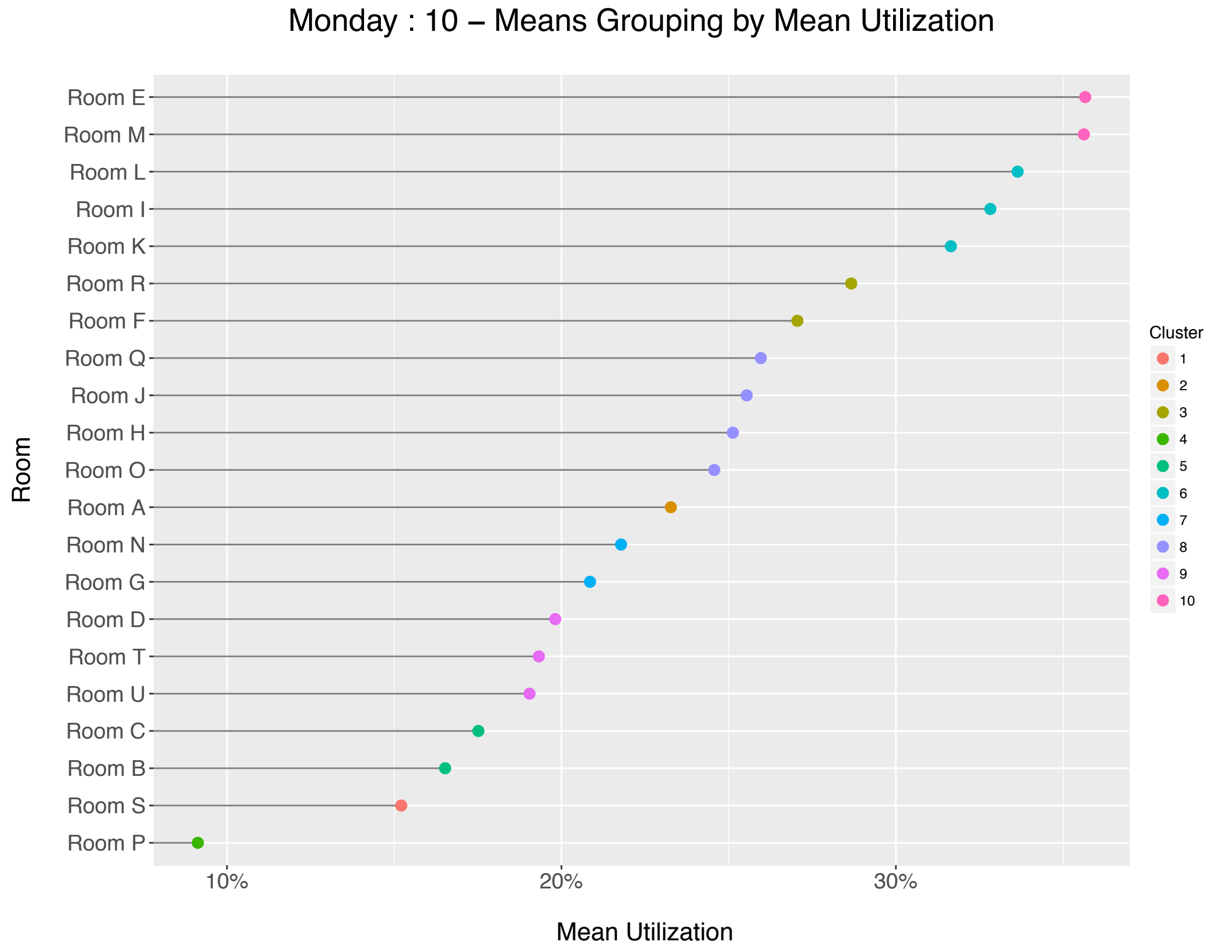

Monday : 5 – Means Grouping by Mean Utilization
Room E
Room M
Room L
Room I
Room K
Room R
Room F
Room Q
Room J
Room H
Room O
Room A
Room N
Room G
Room D
Room T
Room U
Room C
Room B
Room S
Room P
Room
10%
20%
30%
Mean Utilization
Cluster
1
2
3
4
5

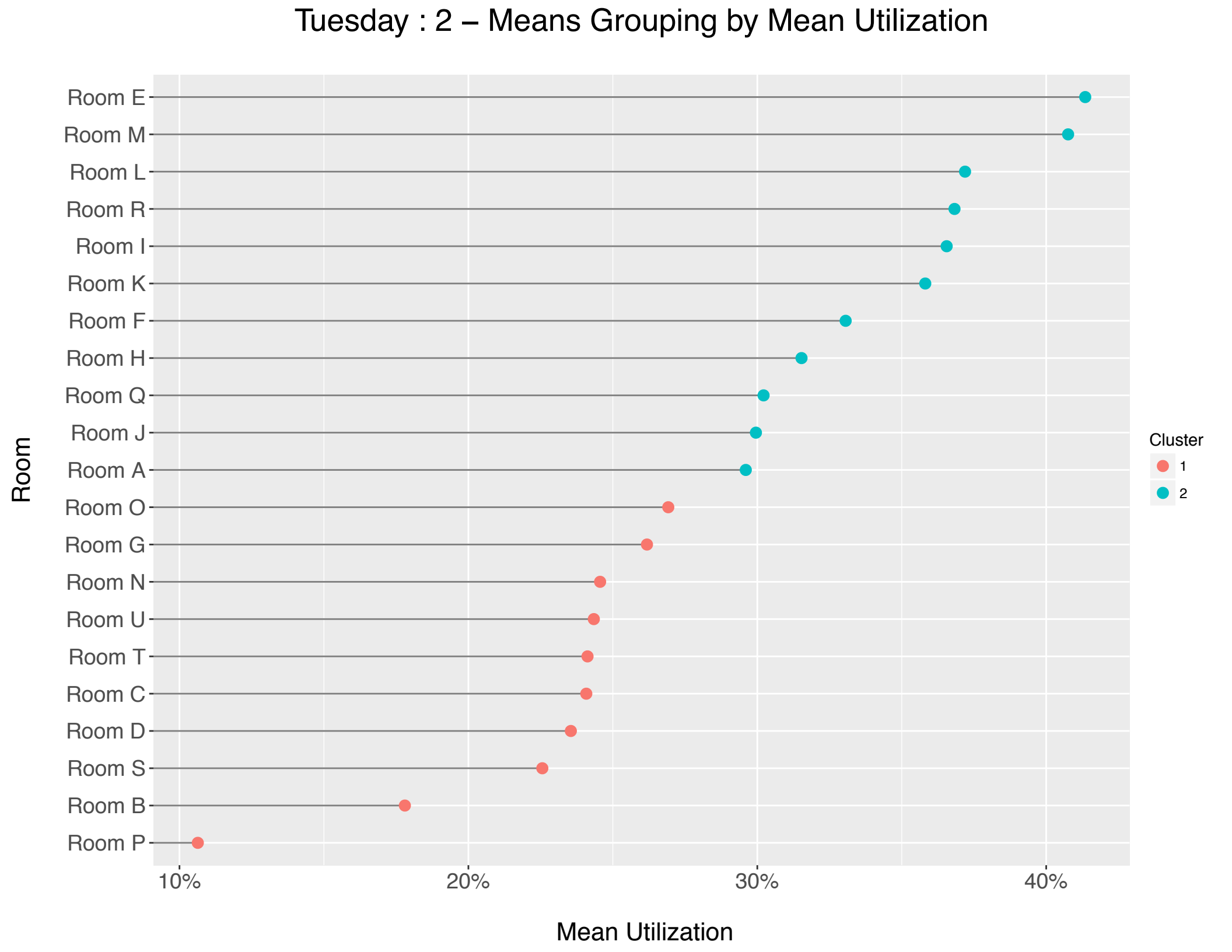

Monday : 6 – Means Grouping by Mean Utilization
Room E
Room M
Room L
Room I
Room K
Room R
Room F
Room Q
Room J
Room H
Room O
Room A
Room N
Room G
Room D
Room T
Room U
Room C
Room B
Room S
Room P
Room
10%
20%
30%
Mean Utilization
Cluster
1
2
3
4
5
6

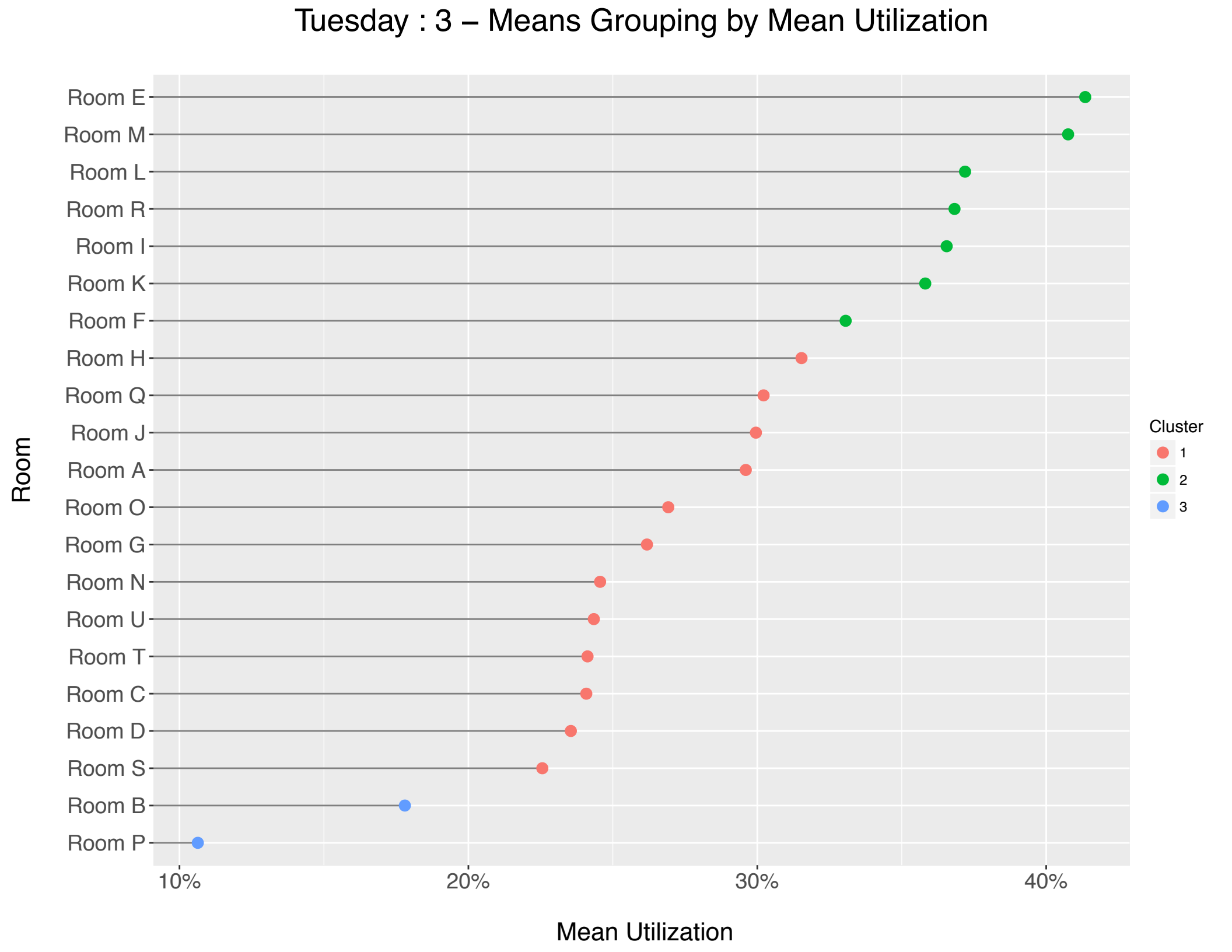

Monday : 7 – Means Grouping by Mean Utilization
Room E
Room M
Room L
Room I
Room K
Room R
Room F
Room Q
Room J
Room H
Room O
Room A
Room N
Room G
Room D
Room T
Room U
Room C
Room B
Room S
Room P
Room
10%
20%
30%
Mean Utilization
Cluster
1
2
3
4
5
6
7

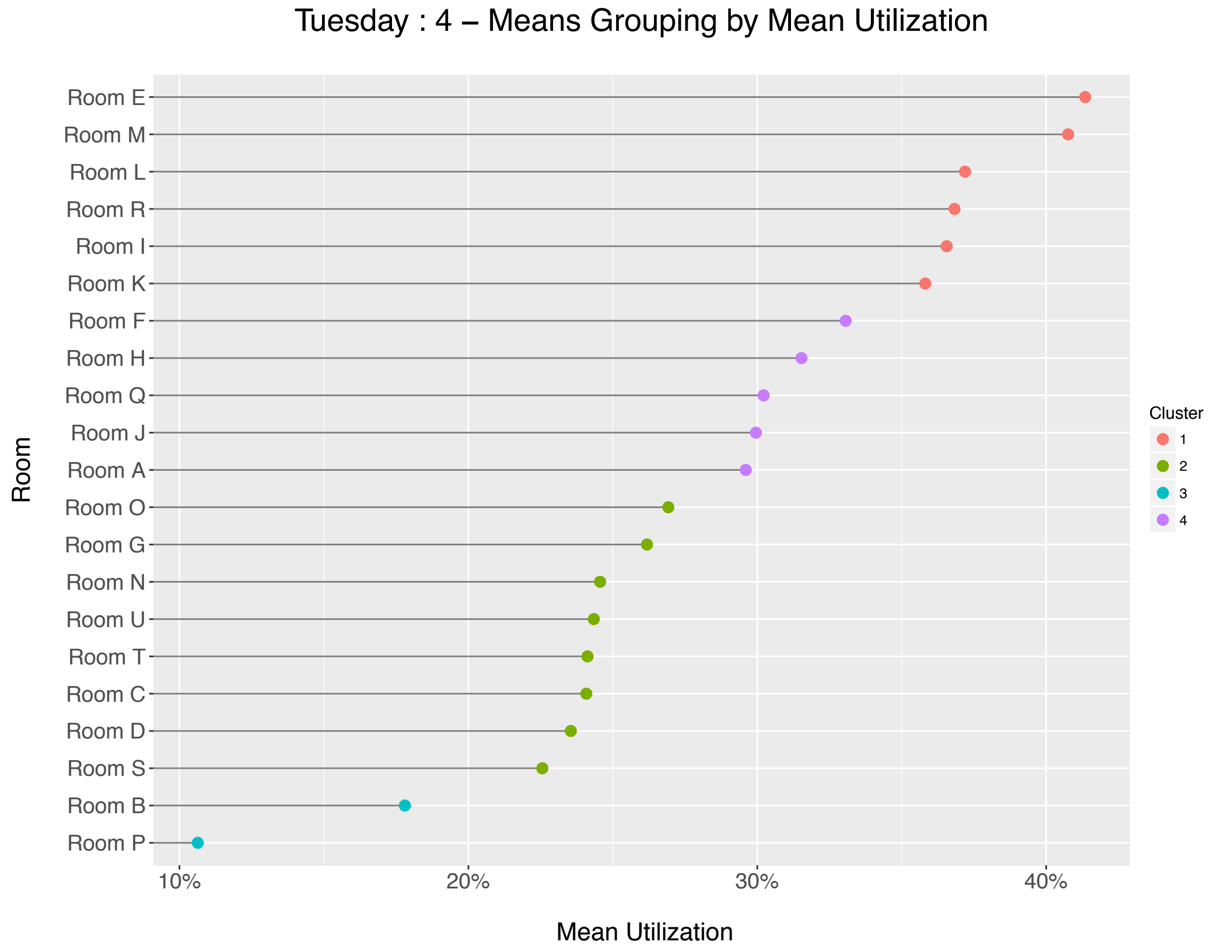

Monday : 8 – Means Grouping by Mean Utilization
Room E
Room M
Room L
Room I
Room K
Room R
Room F
Room Q
Room J
Room H
Room O
Room A
Room N
Room G
Room D
Room T
Room U
Room C
Room B
Room S
Room P
Room
10%
20%
30%
Mean Utilization
Cluster
1
2
3
4
5
6
7
8

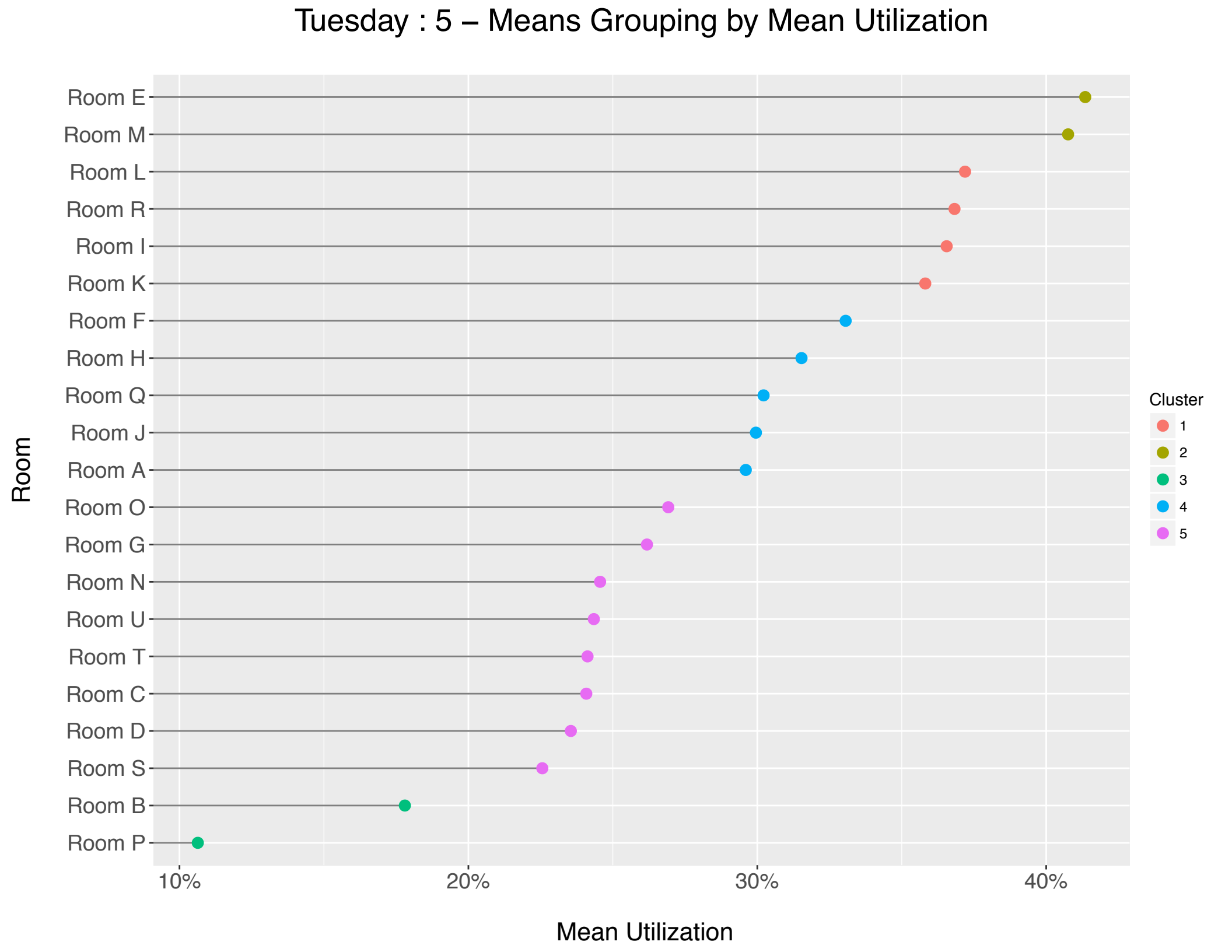

Monday : 9 – Means Grouping by Mean Utilization
Room E
Room M
Room L
Room I
Room K
Room R
Room F
Room Q
Room J
Room H
Room O
Room A
Room N
Room G
Room D
Room T
Room U
Room C
Room B
Room S
Room P
Room
10%
20%
30%
Mean Utilization
Cluster
1
2
3
4
5
6
7
8
9

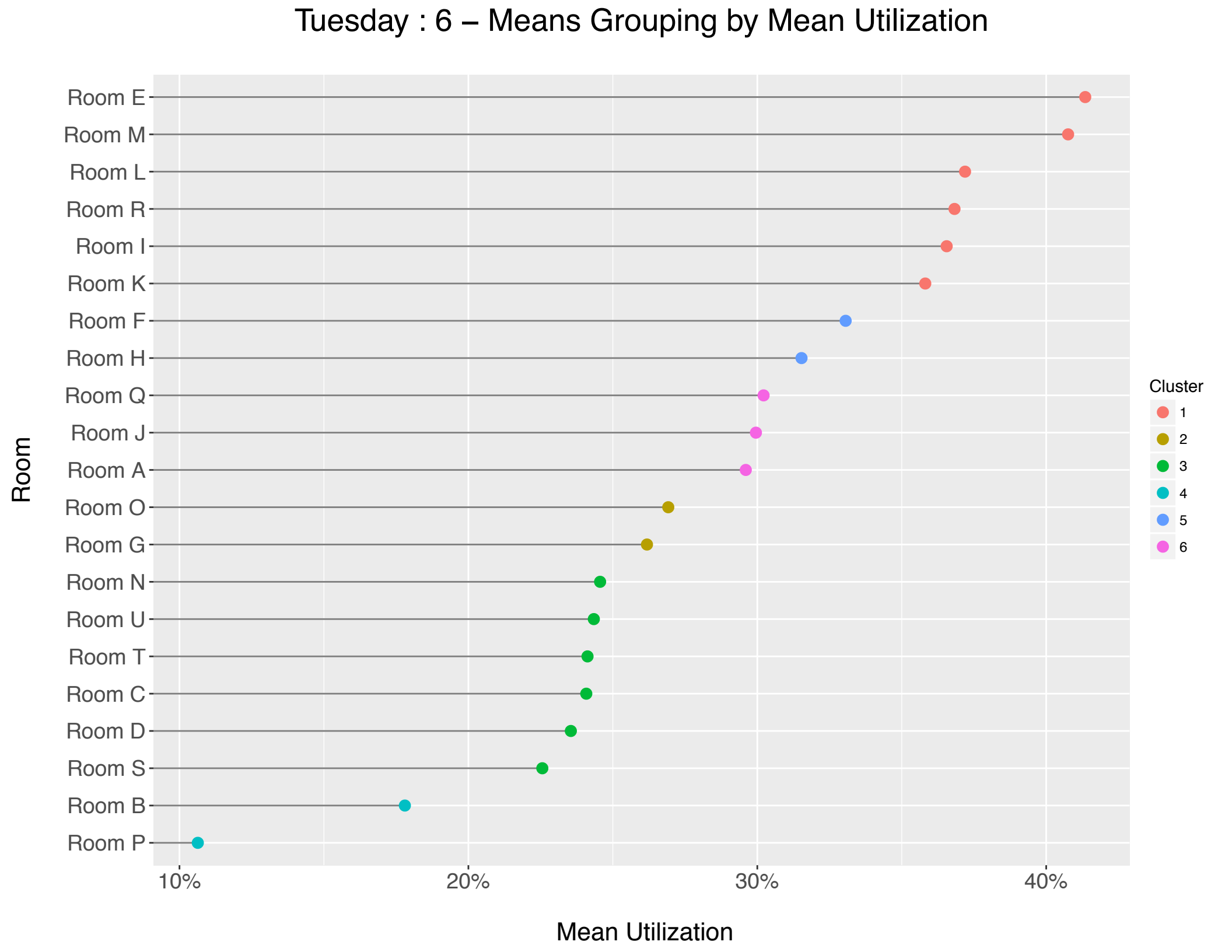

Monday : 10 – Means Grouping by Mean Utilization
Room E
Room M
Room L
Room I
Room K
Room R
Room F
Room Q
Room J
Room H
Room O
Room A
Room N
Room G
Room D
Room T
Room U
Room C
Room B
Room S
Room P
Room
10%
20%
30%
Mean Utilization
Cluster
1
2
3
4
5
6
7
8
9
10

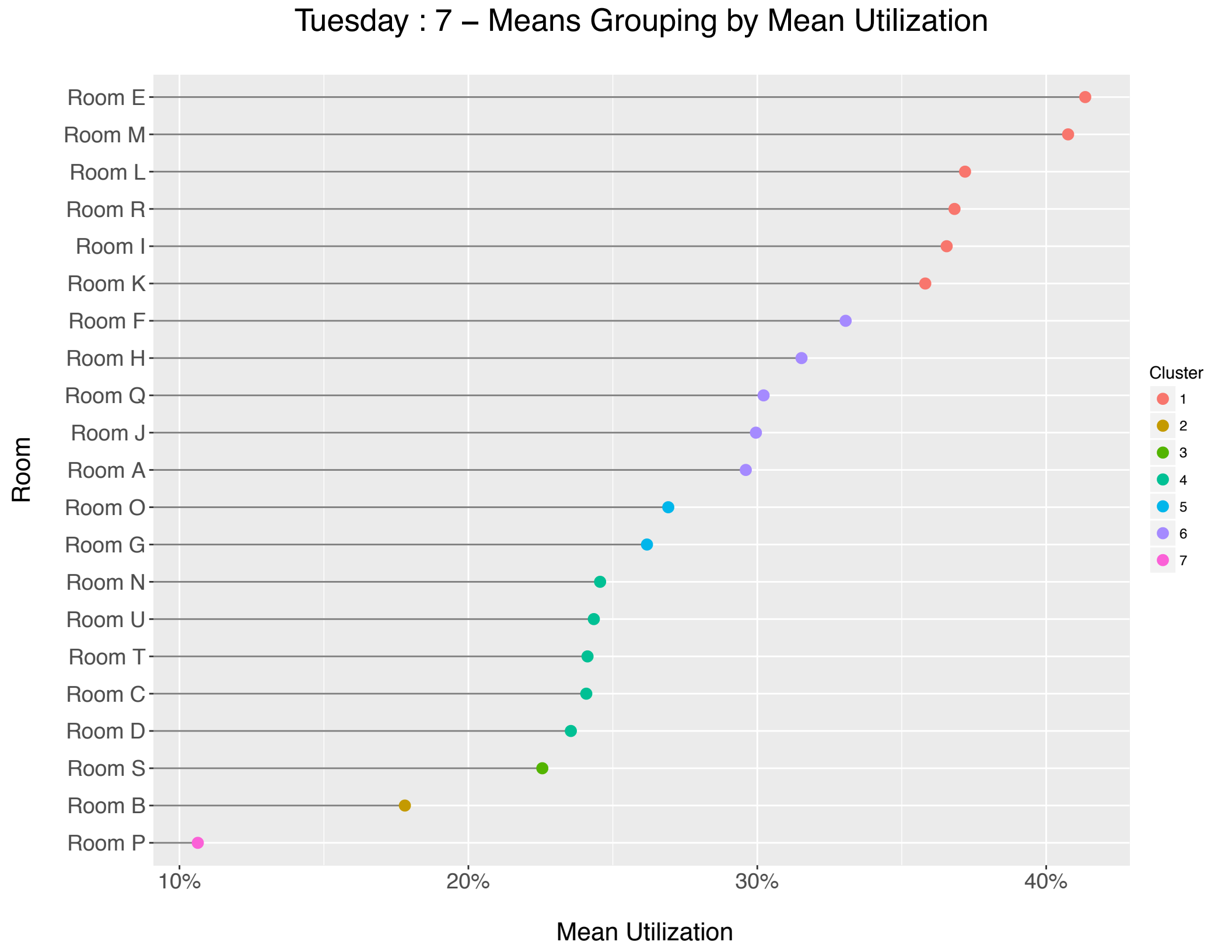

Tuesday : 2 – Means Grouping by Mean Utilization
Room E
Room M
Room L
Room R
Room I
Room K
Room F
Room H
Room Q
Room J
Room A
Room O
Room G
Room N
Room U
Room T
Room C
Room D
Room S
Room B
Room P
Room
10%
20%
30%
40%
Mean Utilization
Cluster
1
2


Tuesday : 3 – Means Grouping by Mean Utilization
Room E
Room M
Room L
Room R
Room I
Room K
Room F
Room H
Room Q
Room J
Room A
Room O
Room G
Room N
Room U
Room T
Room C
Room D
Room S
Room B
Room P
Room
10%
20%
30%
40%
Mean Utilization
Cluster
1
2
3


Tuesday : 4 – Means Grouping by Mean Utilization
Room E
Room M
Room L
Room R
Room I
Room K
Room F
Room H
Room Q
Room J
Room A
Room O
Room G
Room N
Room U
Room T
Room C
Room D
Room S
Room B
Room P
Room
10%
20%
30%
40%
Mean Utilization
Cluster
1
2
3
4


Tuesday : 5 – Means Grouping by Mean Utilization
Room E
Room M
Room L
Room R
Room I
Room K
Room F
Room H
Room Q
Room J
Room A
Room O
Room G
Room N
Room U
Room T
Room C
Room D
Room S
Room B
Room P
Room
10%
20%
30%
40%
Mean Utilization
Cluster
1
2
3
4
5


Tuesday : 6 – Means Grouping by Mean Utilization
Room E
Room M
Room L
Room R
Room I
Room K
Room F
Room H
Room Q
Room J
Room A
Room O
Room G
Room N
Room U
Room T
Room C
Room D
Room S
Room B
Room P
Room
10%
20%
30%
40%
Mean Utilization
Cluster
1
2
3
4
5
6


Tuesday : 7 – Means Grouping by Mean Utilization
Room E
Room M
Room L
Room R
Room I
Room K
Room F
Room H
Room Q
Room J
Room A
Room O
Room G
Room N
Room U
Room T
Room C
Room D
Room S
Room B
Room P
Room
10%
20%
30%
40%
Mean Utilization
Cluster
1
2
3
4
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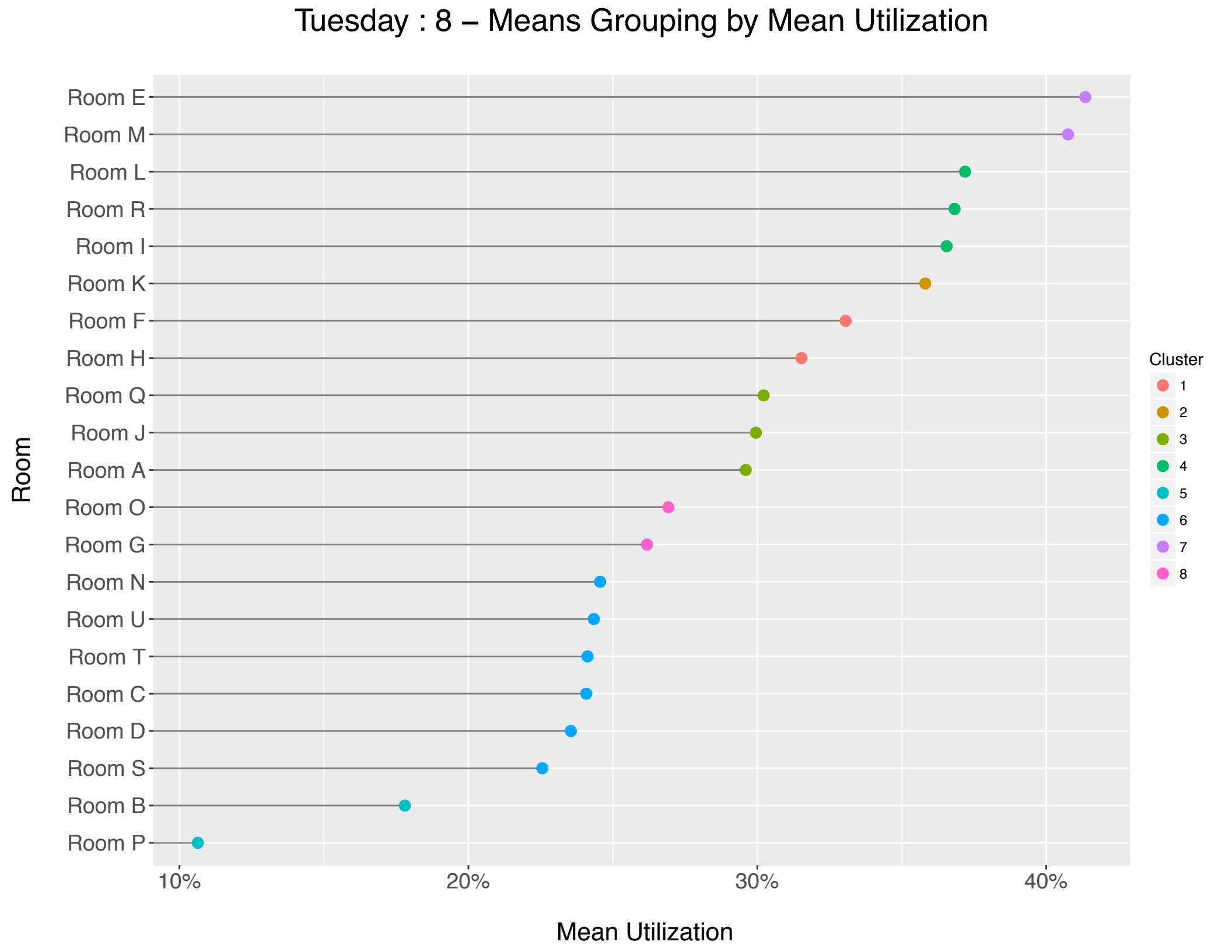
Tuesday : 8 – Means Grouping by Mean Utilization
Room E
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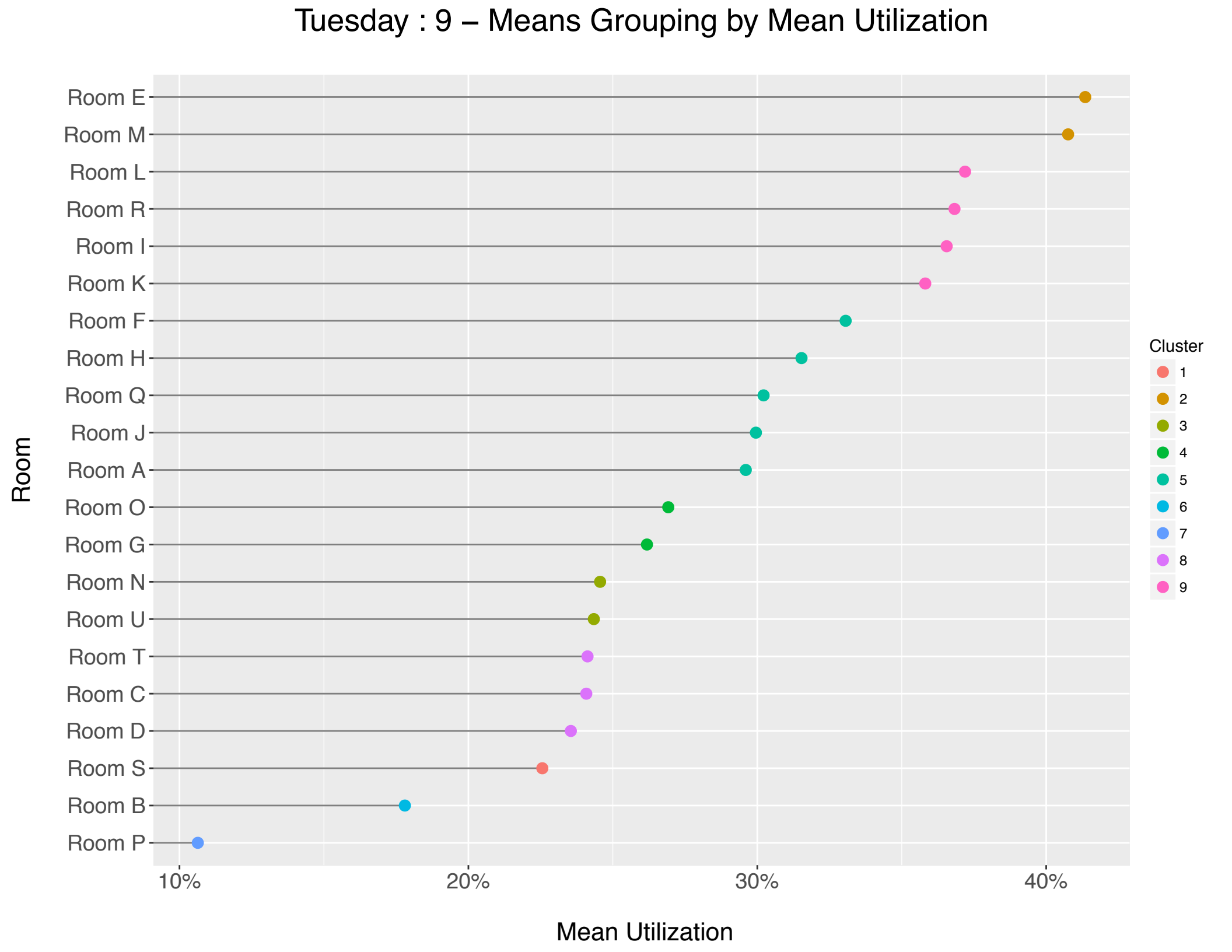
Tuesday : 9 – Means Grouping by Mean Utilization
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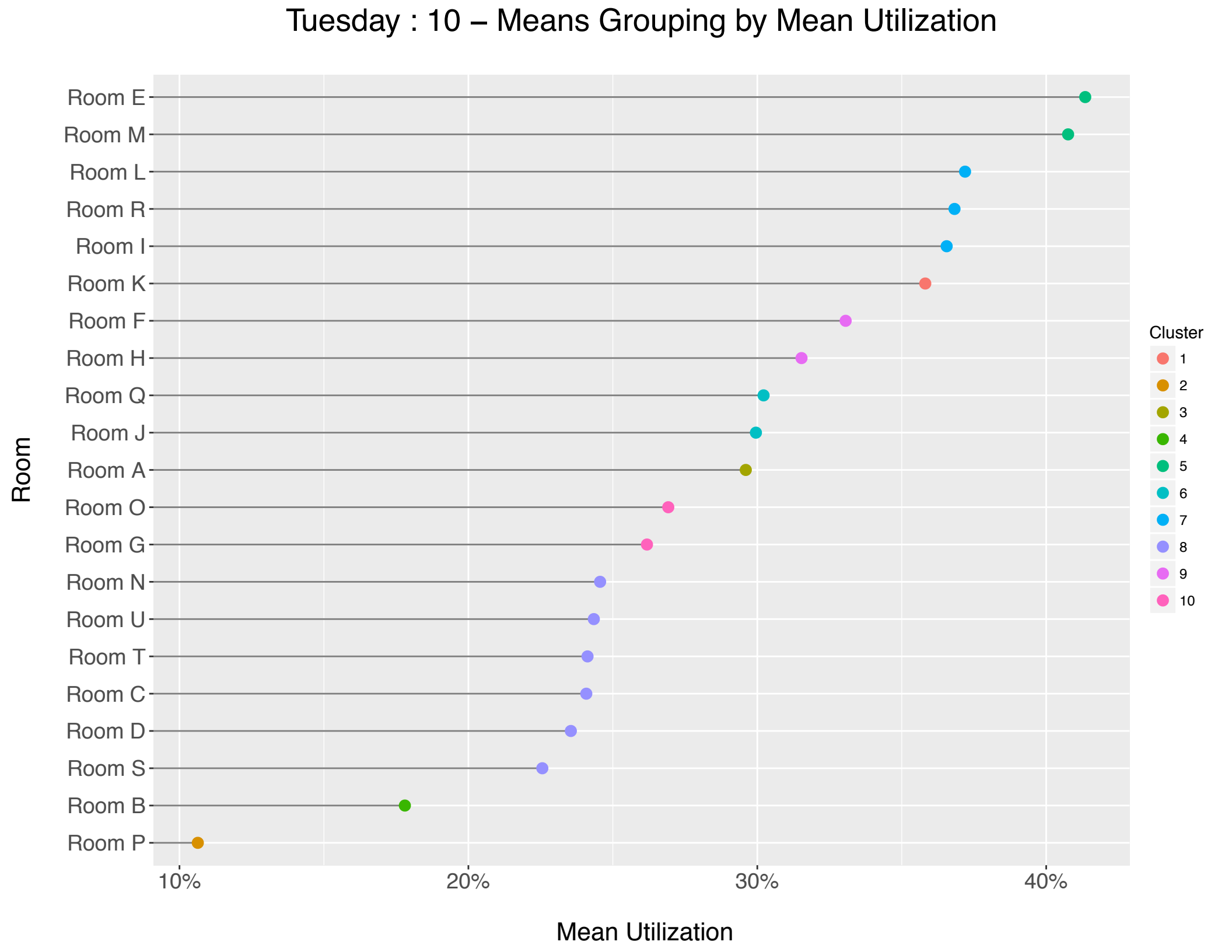
Tuesday : 10 – Means Grouping by Mean Utilization
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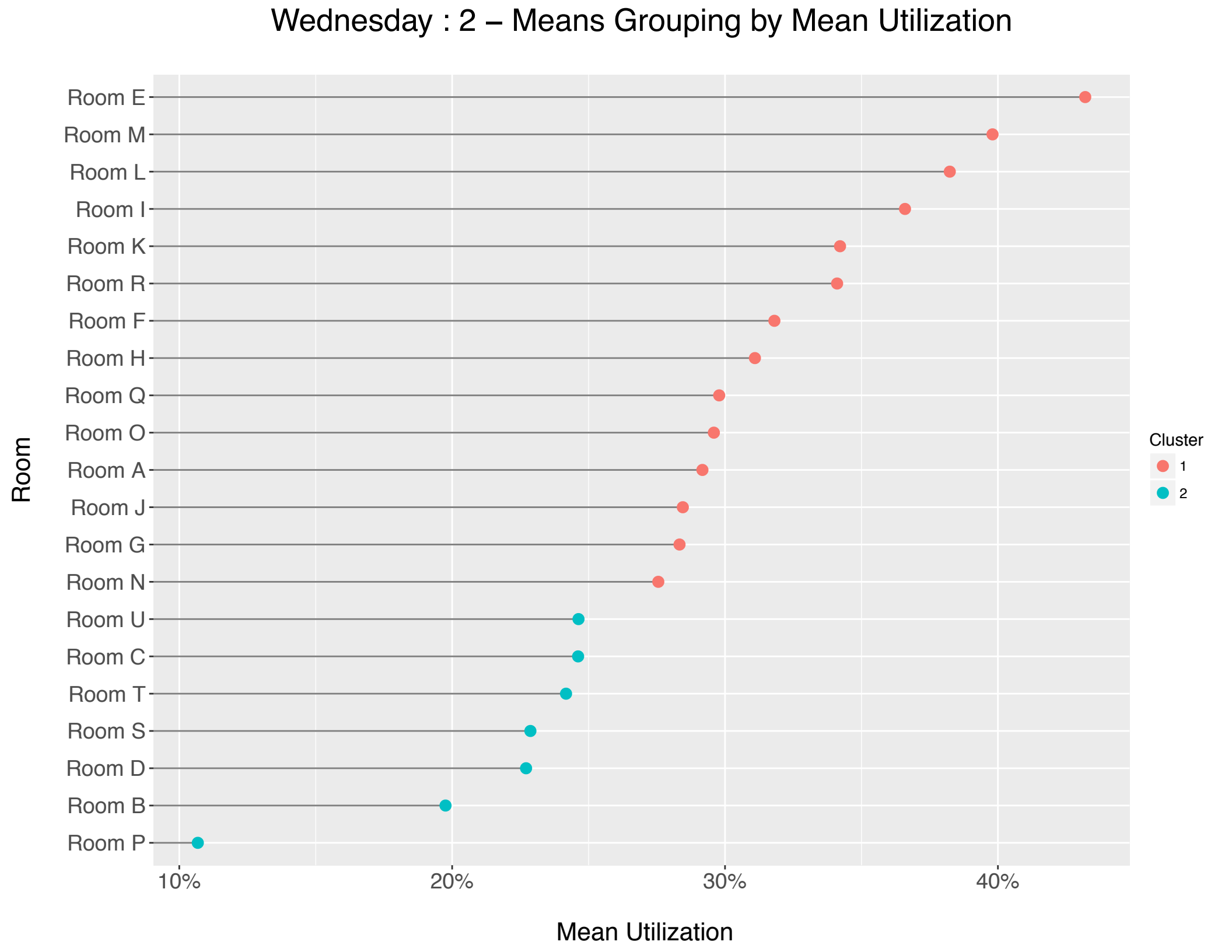
Wednesday : 2 – Means Grouping by Mean Utilization
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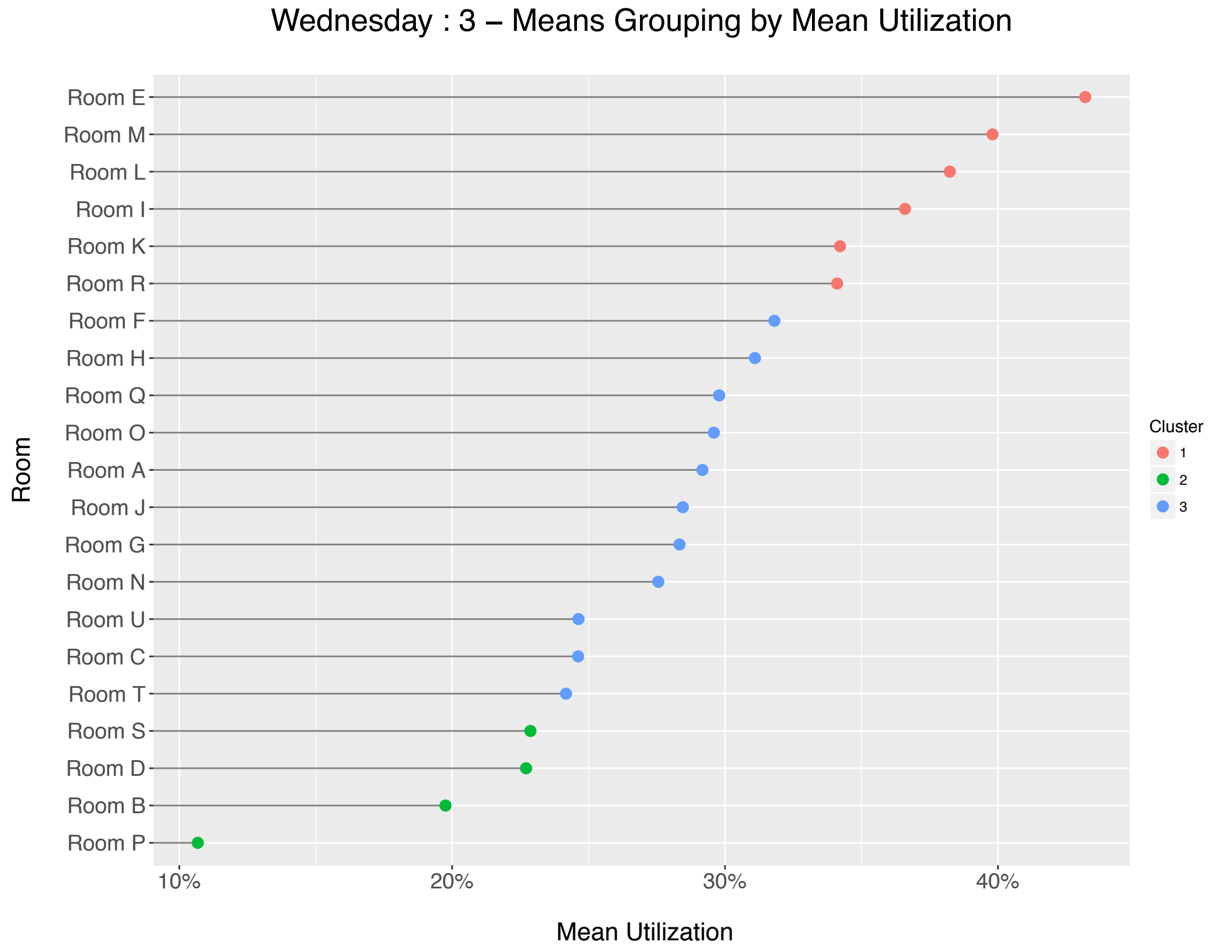
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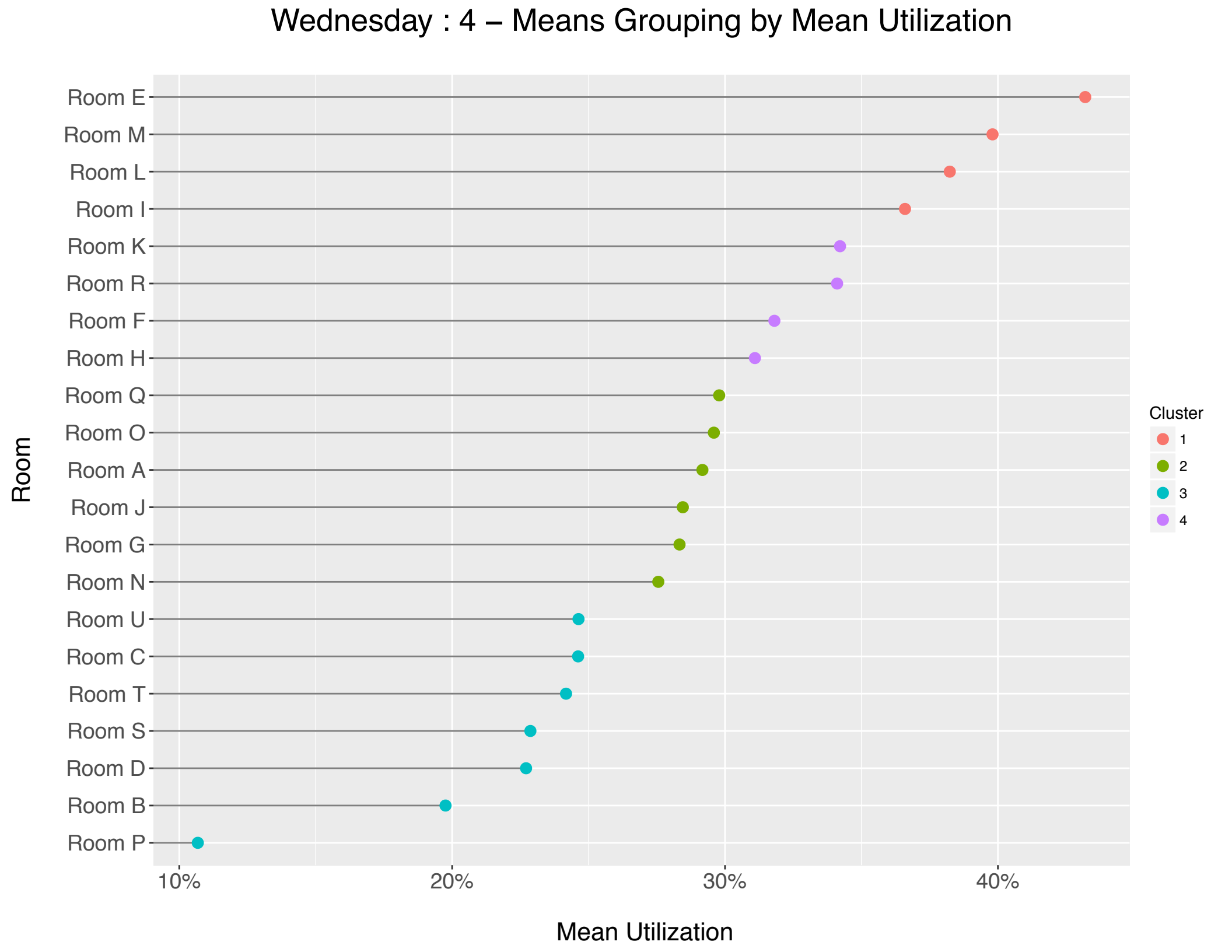
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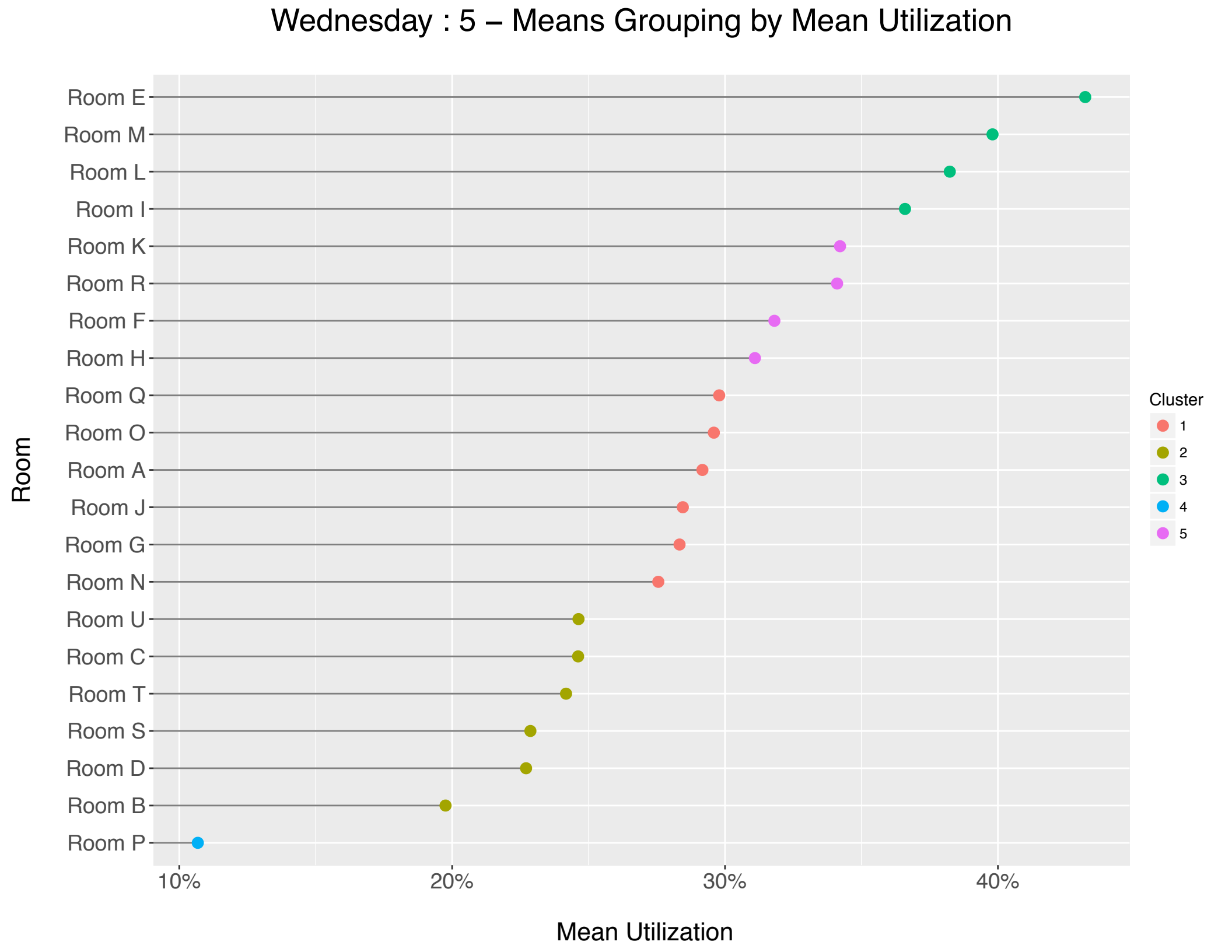
Wednesday : 5 – Means Grouping by Mean Utilization
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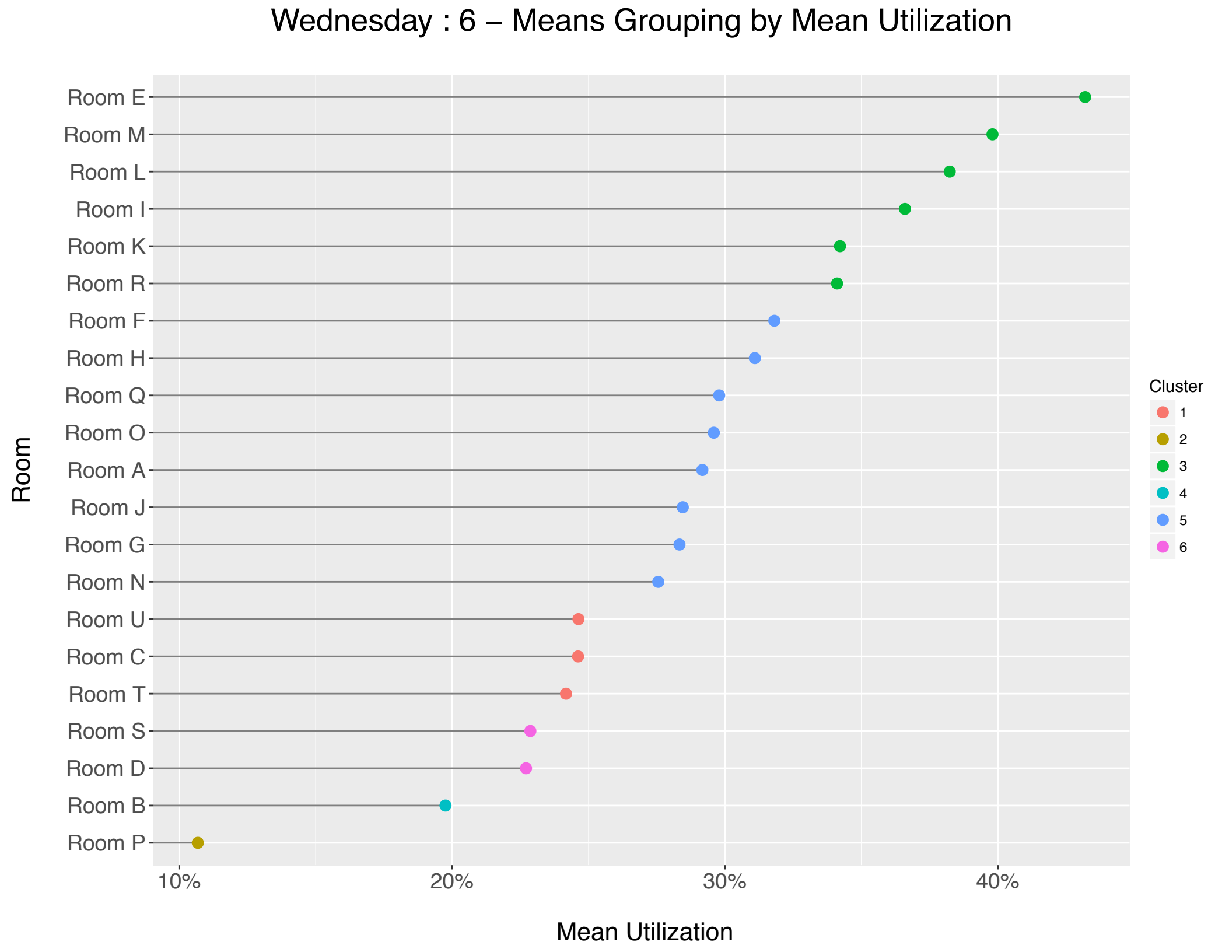
Wednesday : 6 – Means Grouping by Mean Utilization
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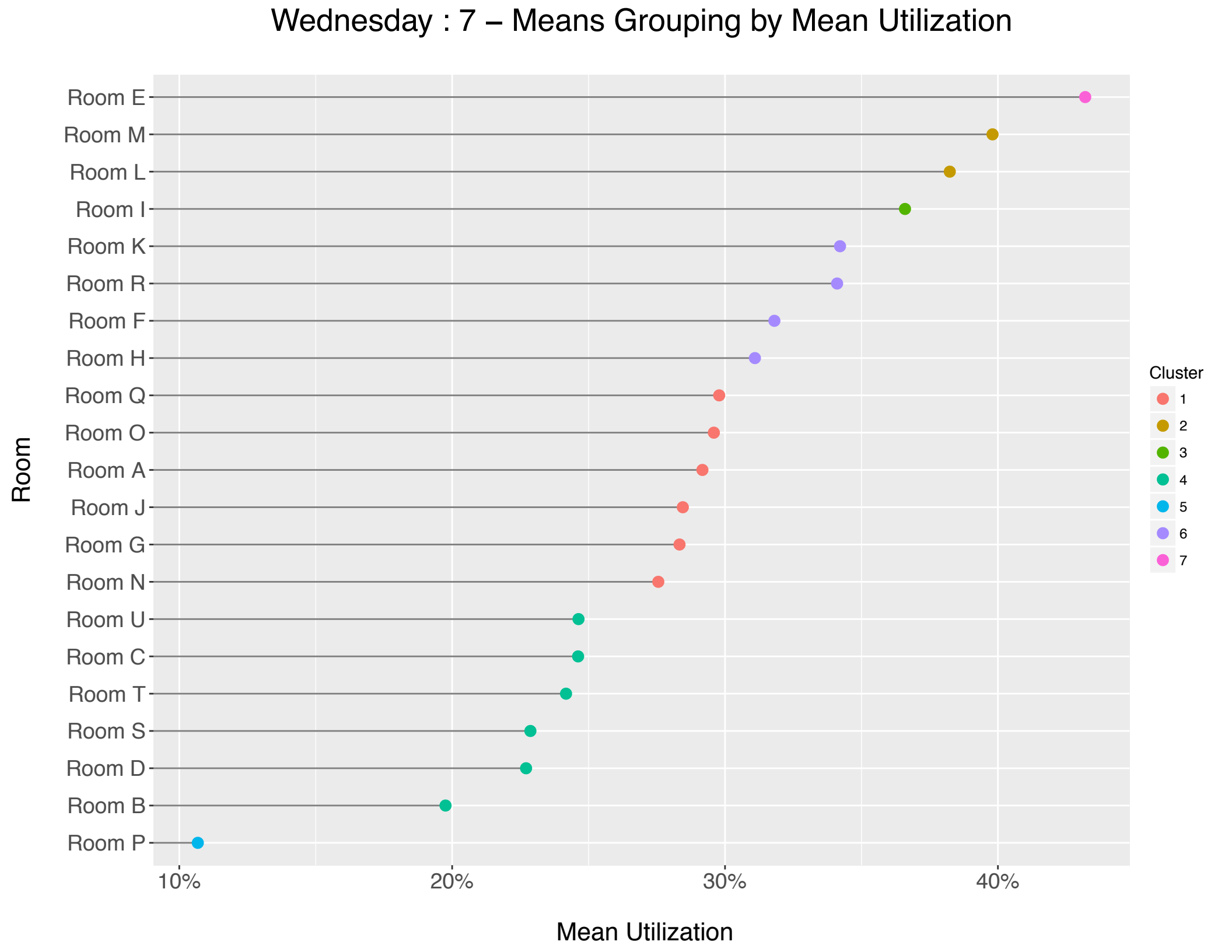
Wednesday : 7 – Means Grouping by Mean Utilization
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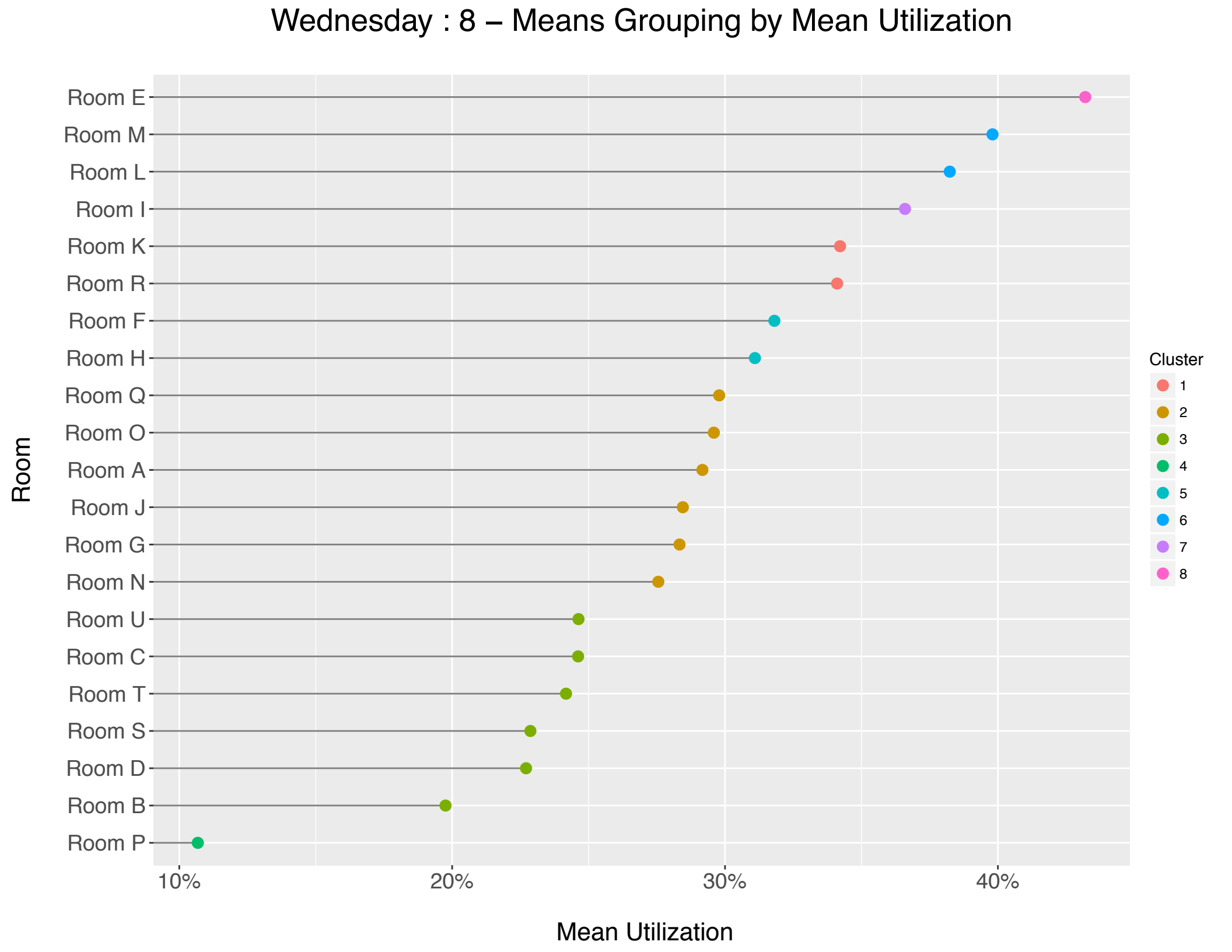
Wednesday : 8 – Means Grouping by Mean Utilization
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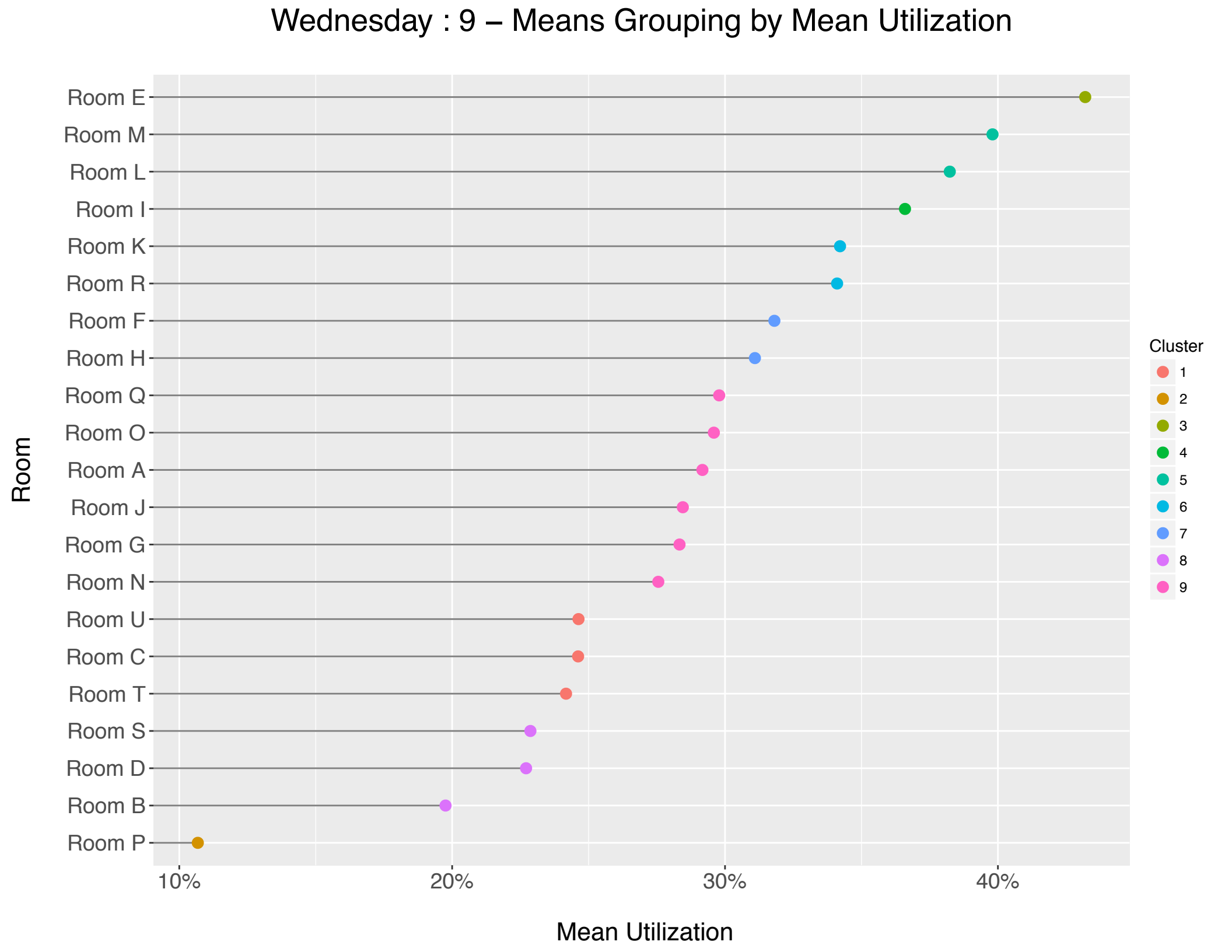
Wednesday : 9 – Means Grouping by Mean Utilization
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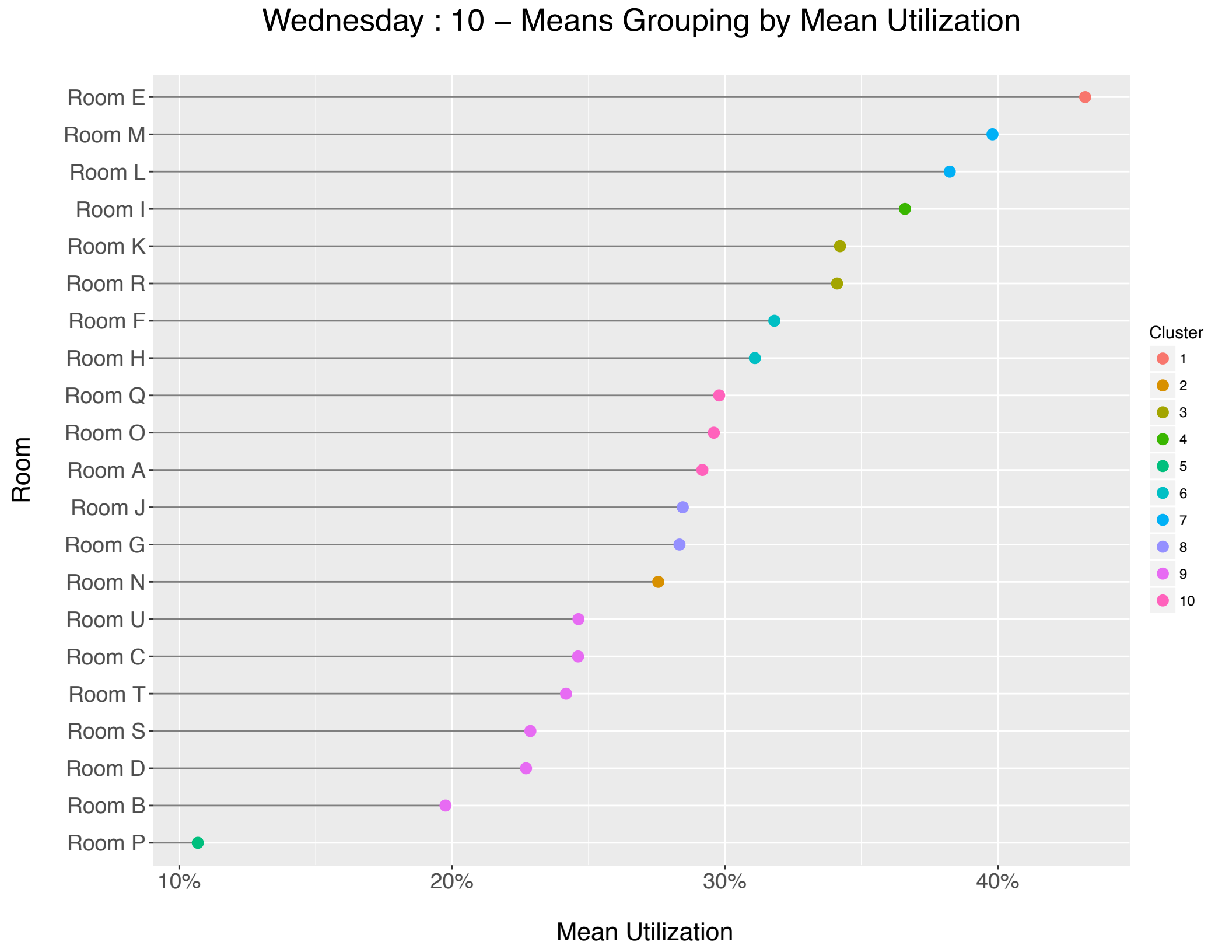
Wednesday : 10 – Means Grouping by Mean Utilization
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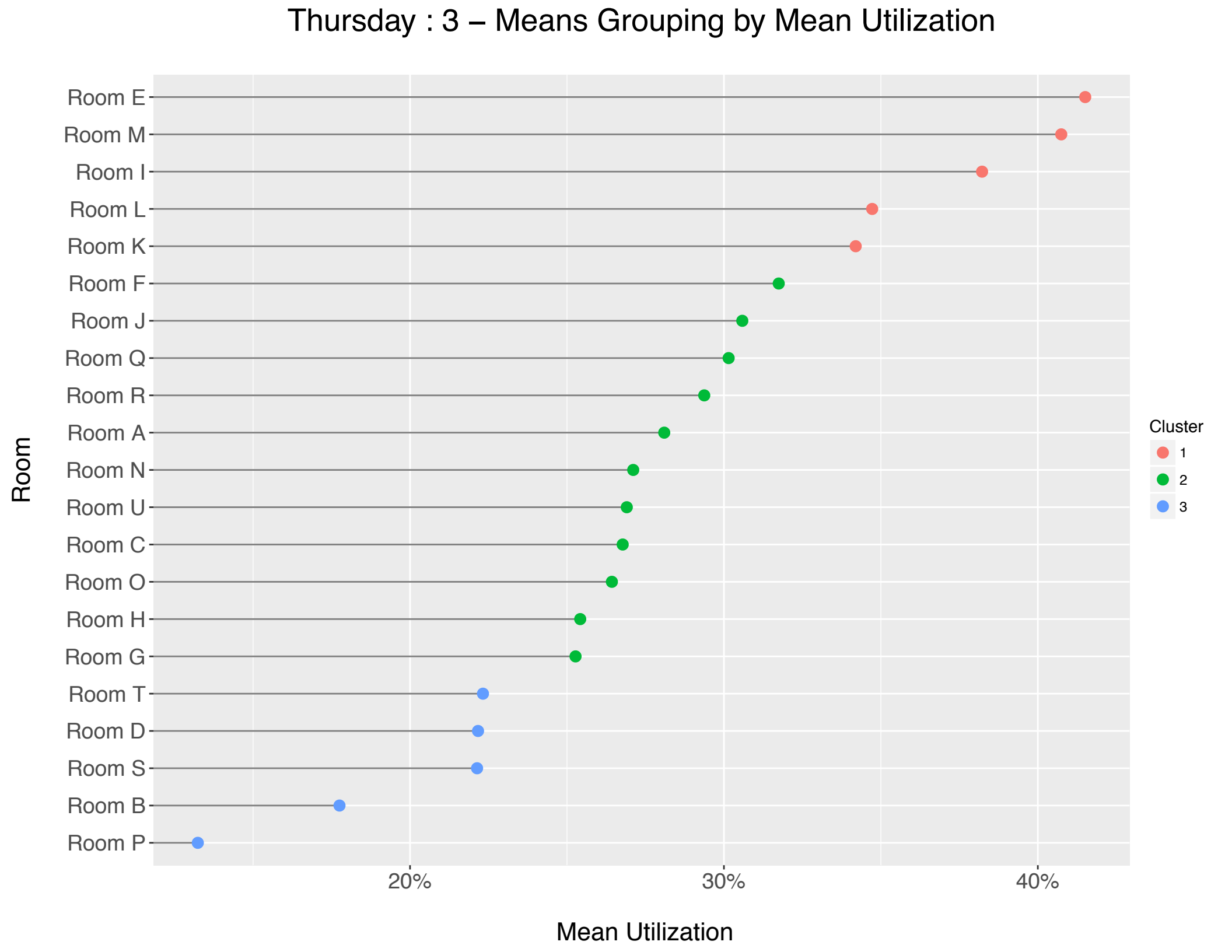
Thursday : 3 – Means Grouping by Mean Utilization
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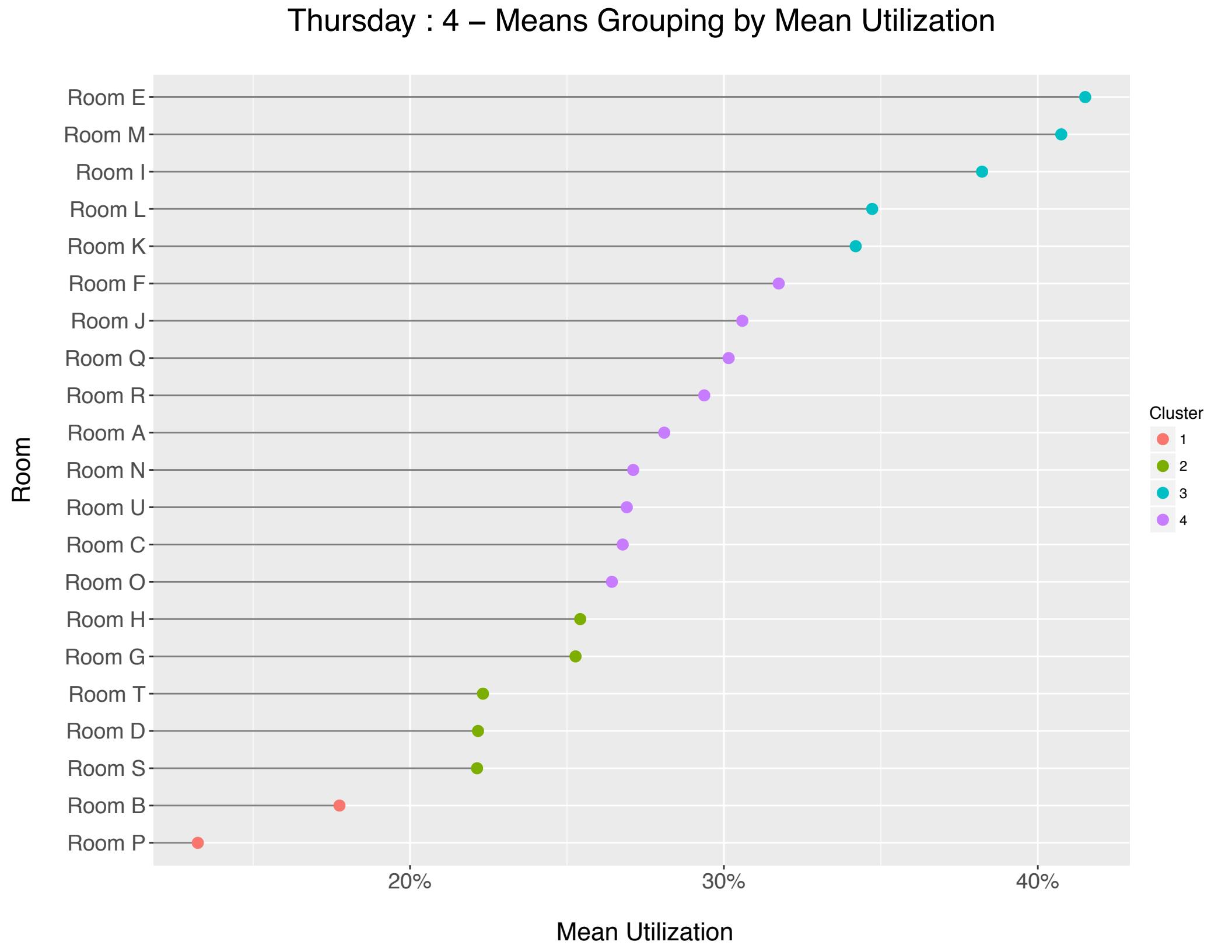
Thursday : 4 – Means Grouping by Mean Utilization
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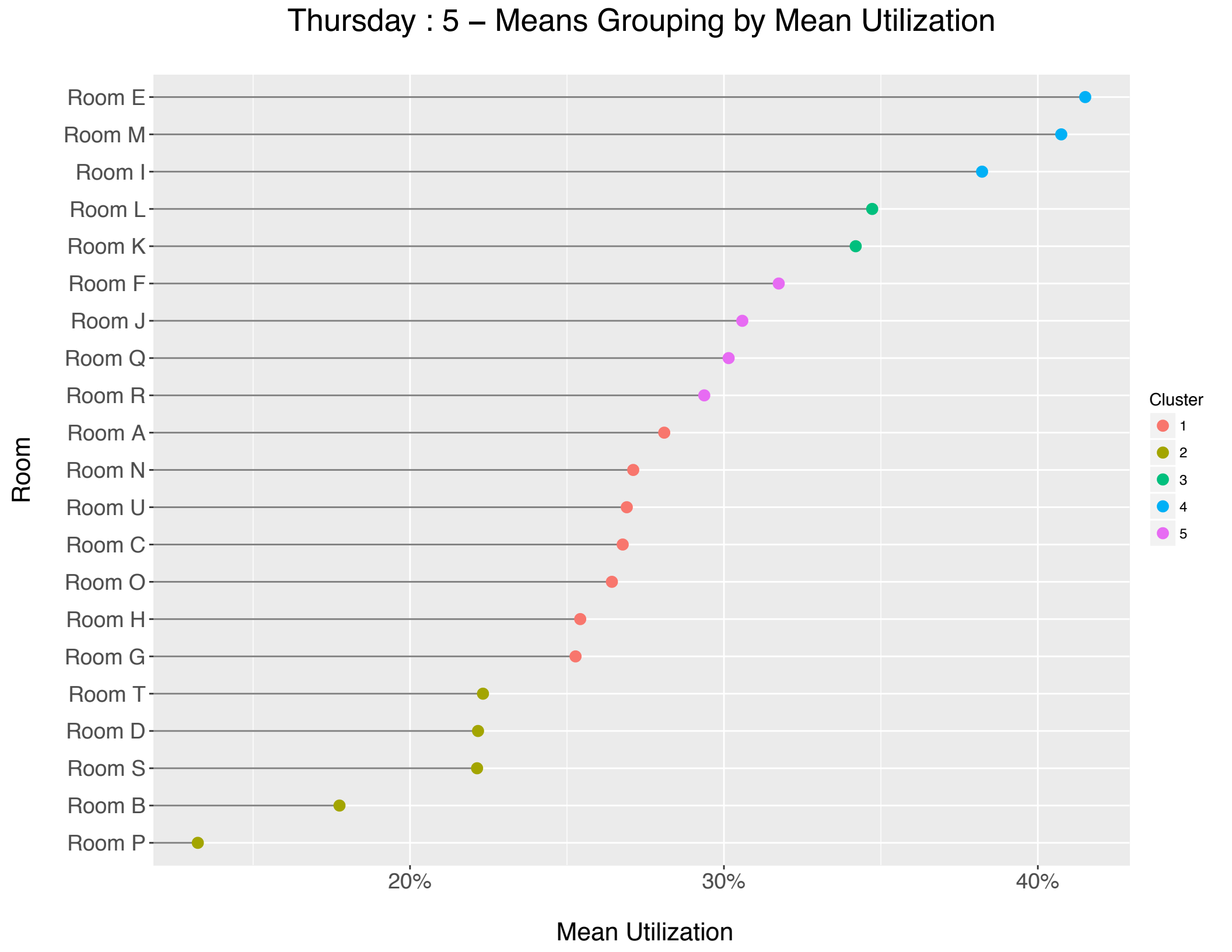
Thursday : 5 – Means Grouping by Mean Utilization
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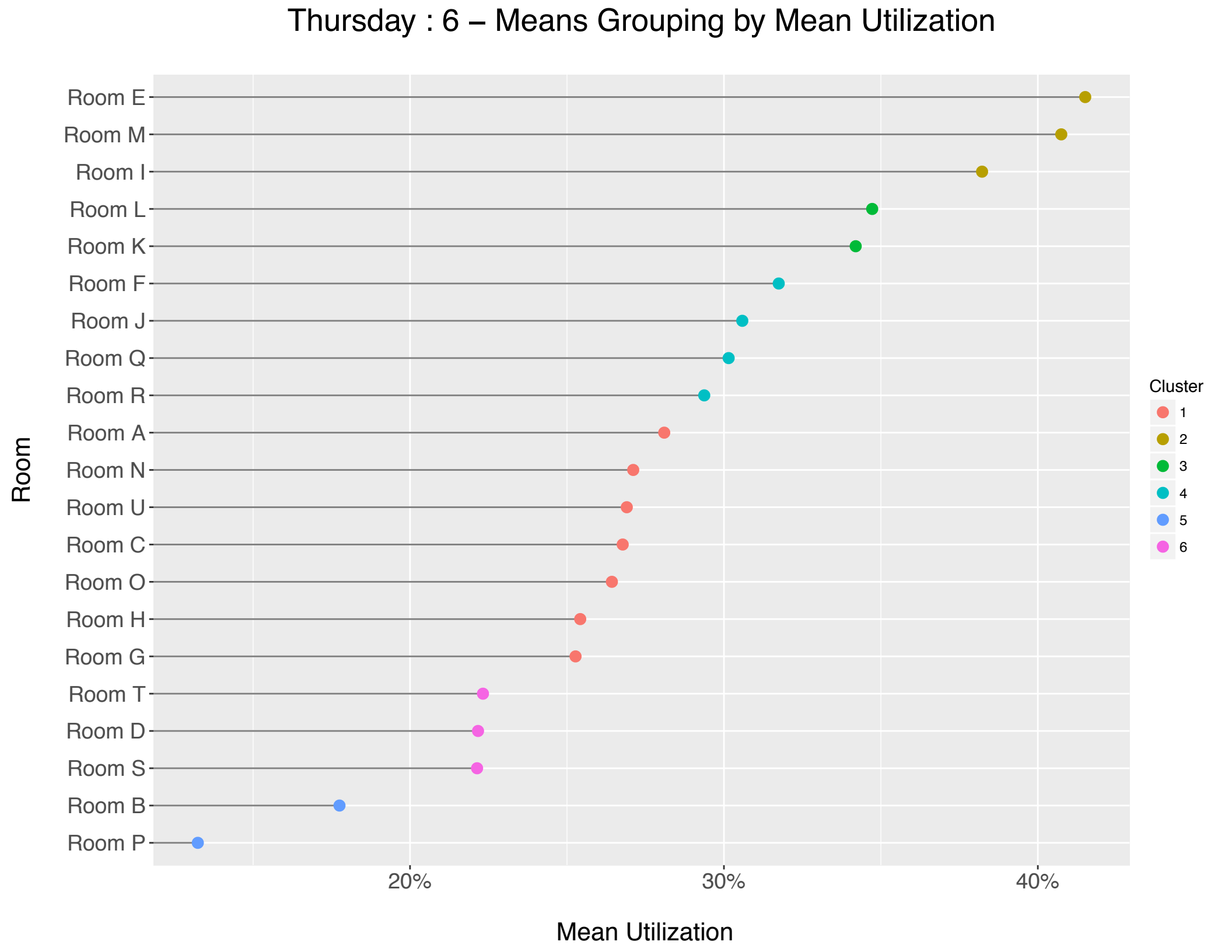
Thursday : 6 – Means Grouping by Mean Utilization
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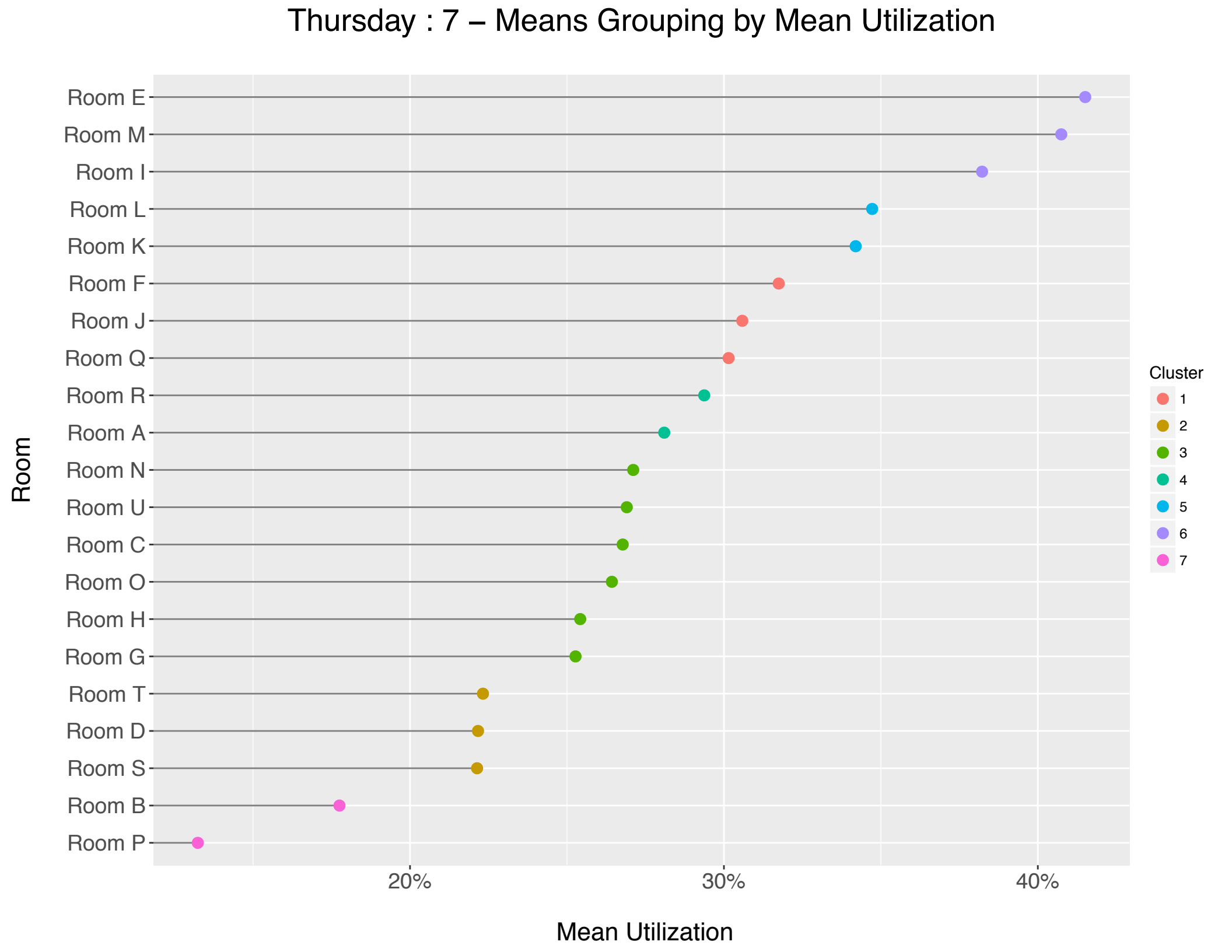
Thursday : 7 – Means Grouping by Mean Utilization
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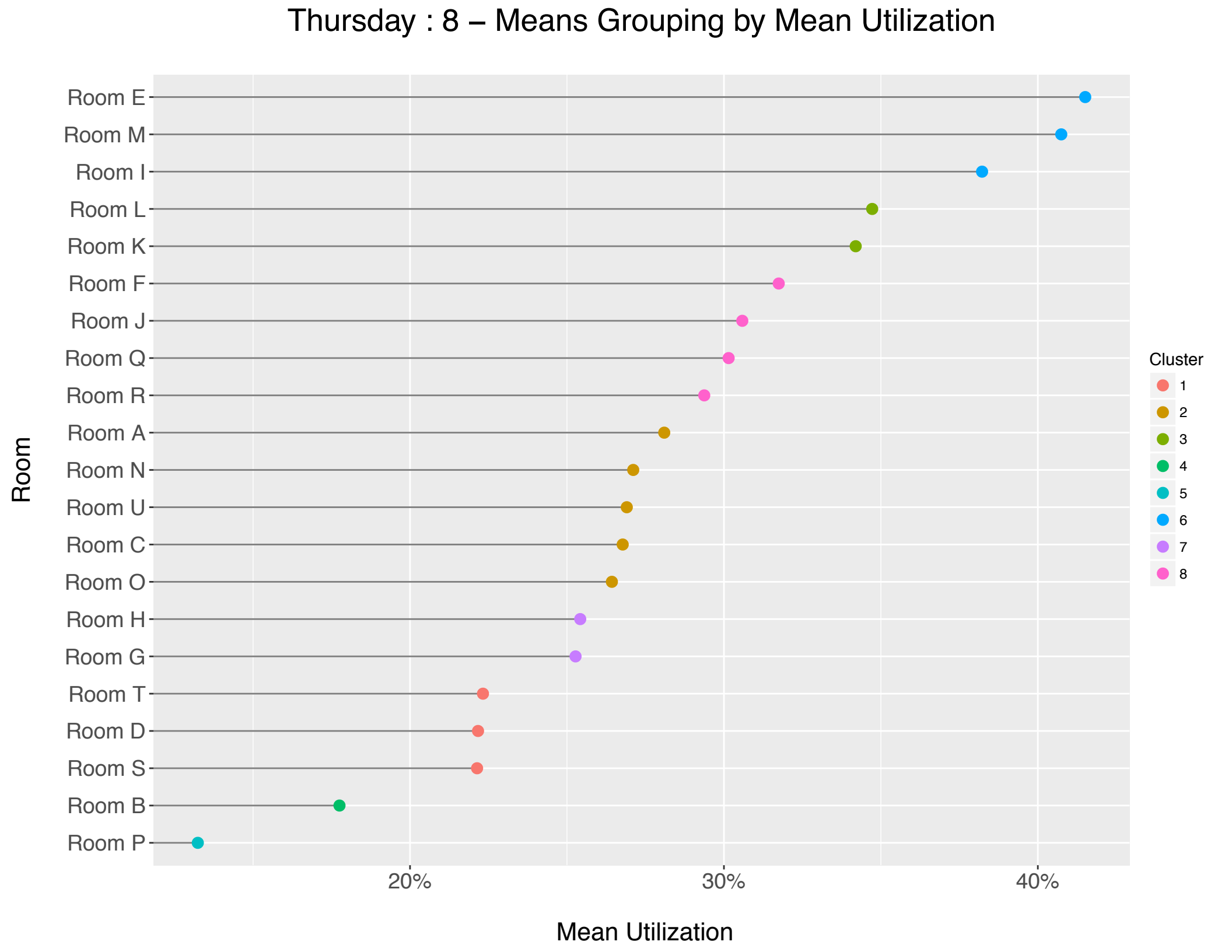
Thursday : 8 – Means Grouping by Mean Utilization
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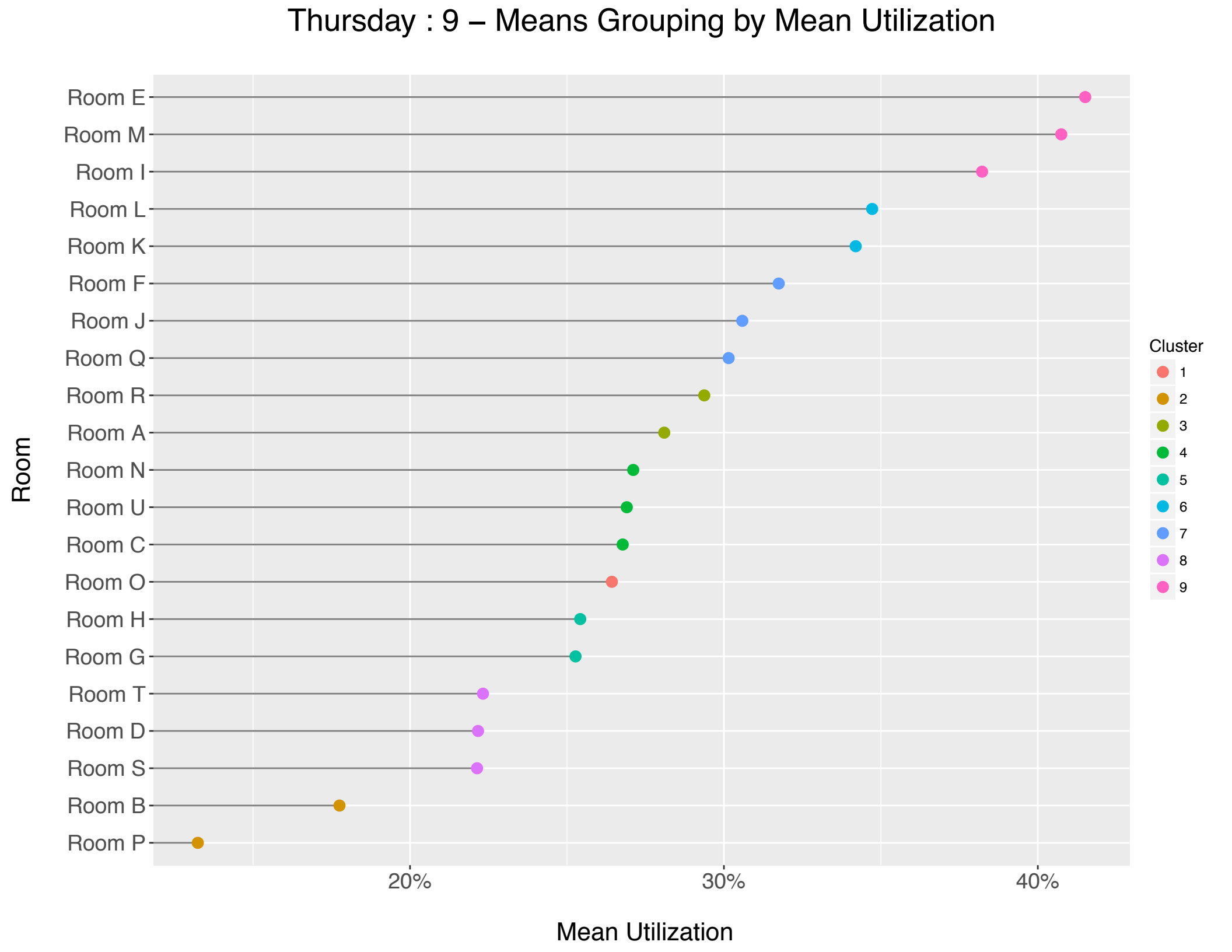
Thursday : 9 – Means Grouping by Mean Utilization
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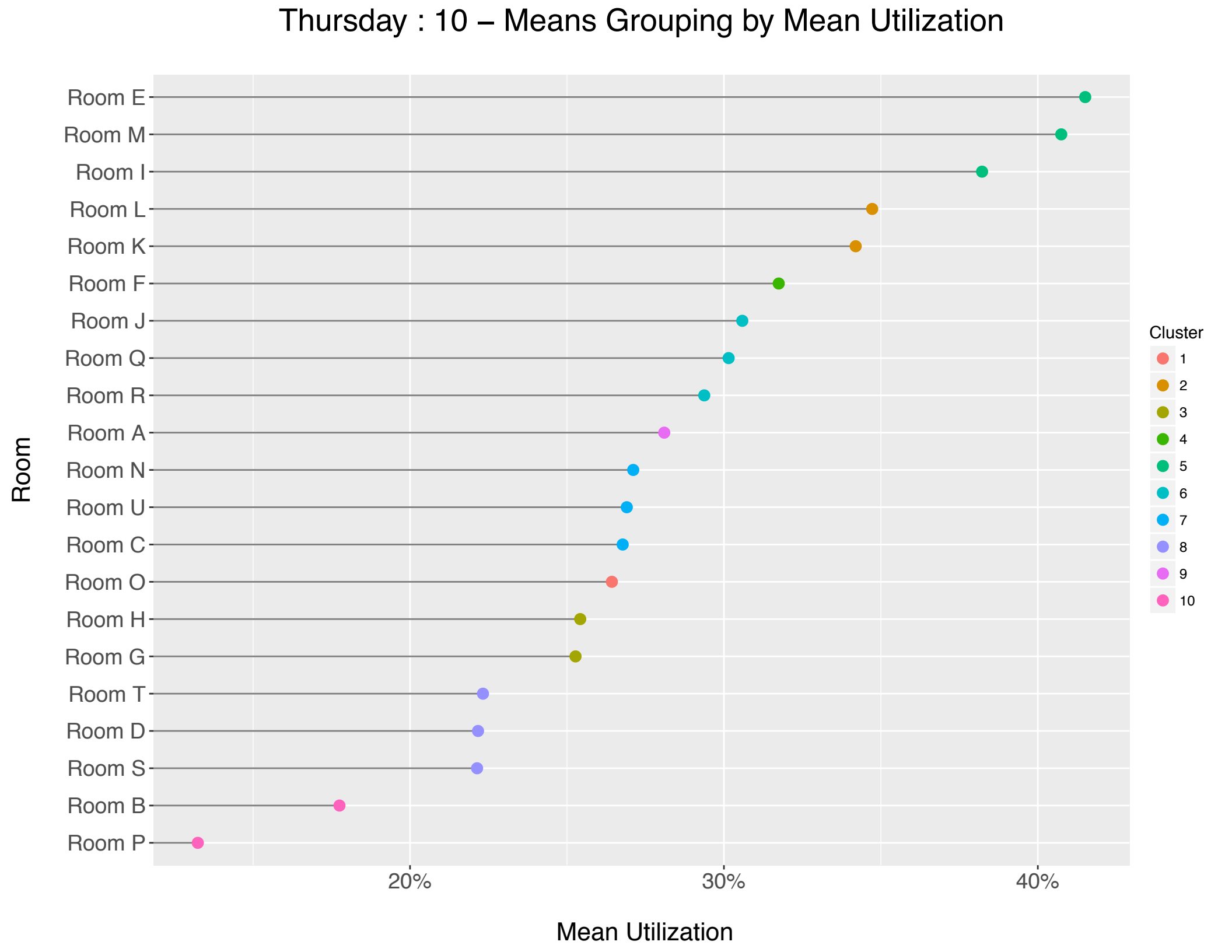
Thursday : 10 – Means Grouping by Mean Utilization
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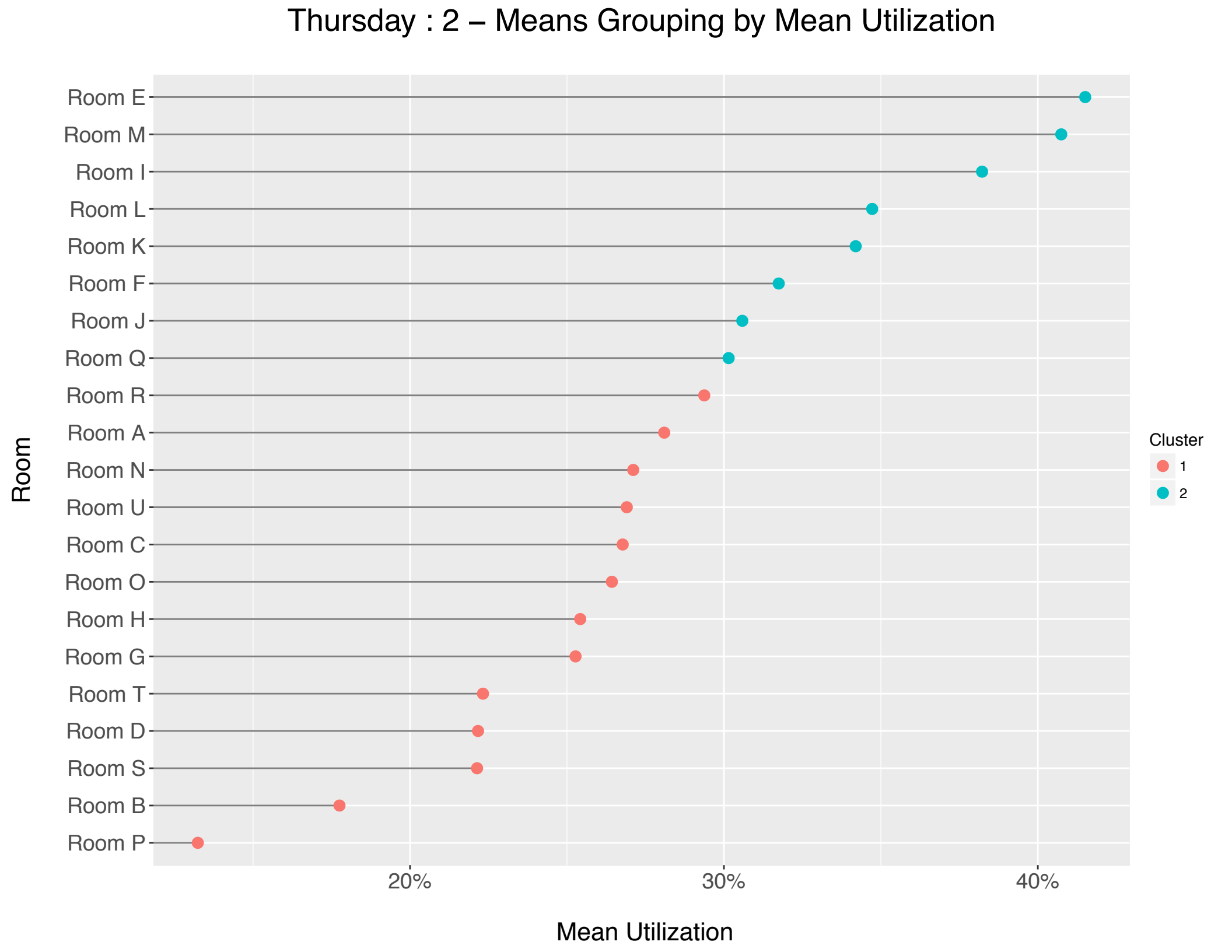
Thursday : 2 – Means Grouping by Mean Utilization
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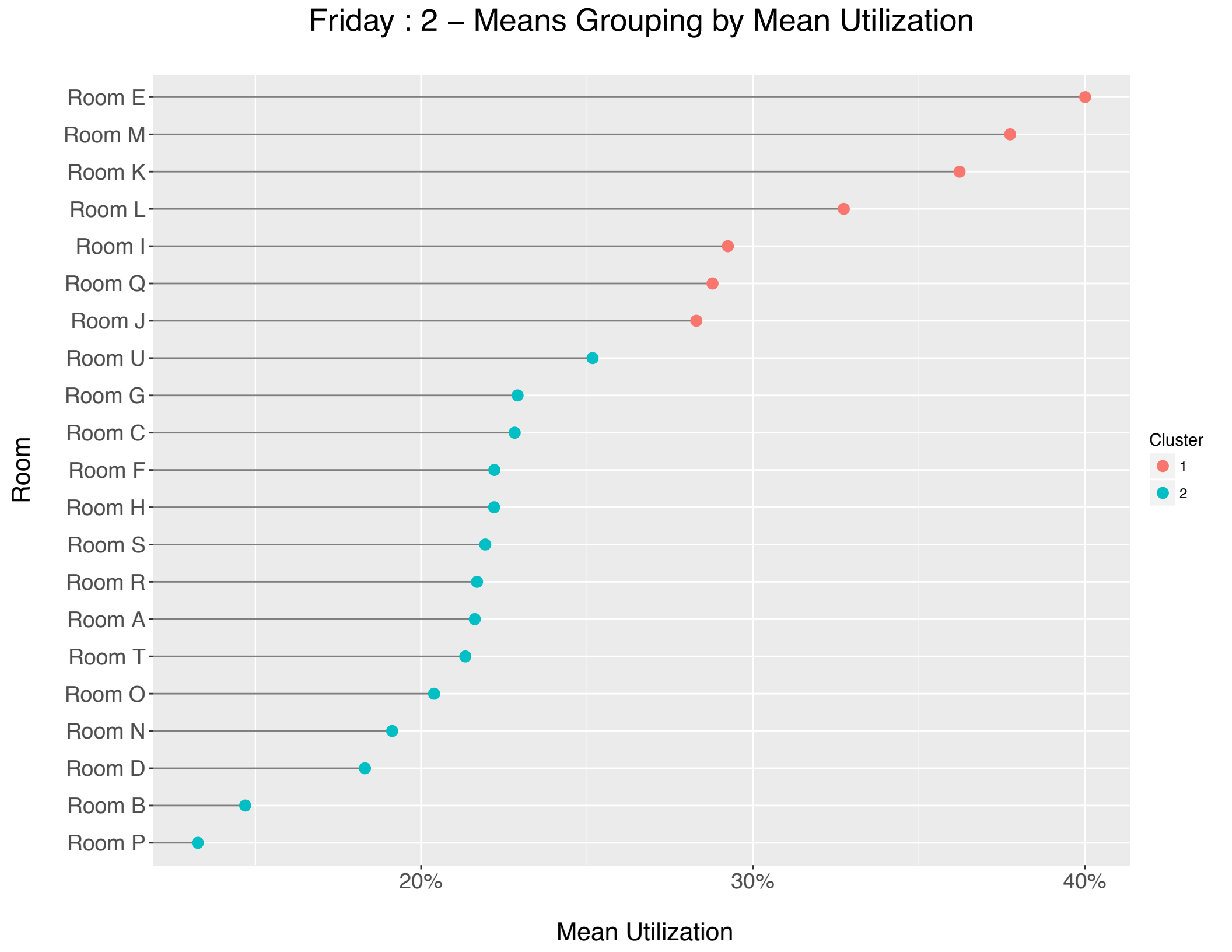
Friday : 2 – Means Grouping by Mean Utilization
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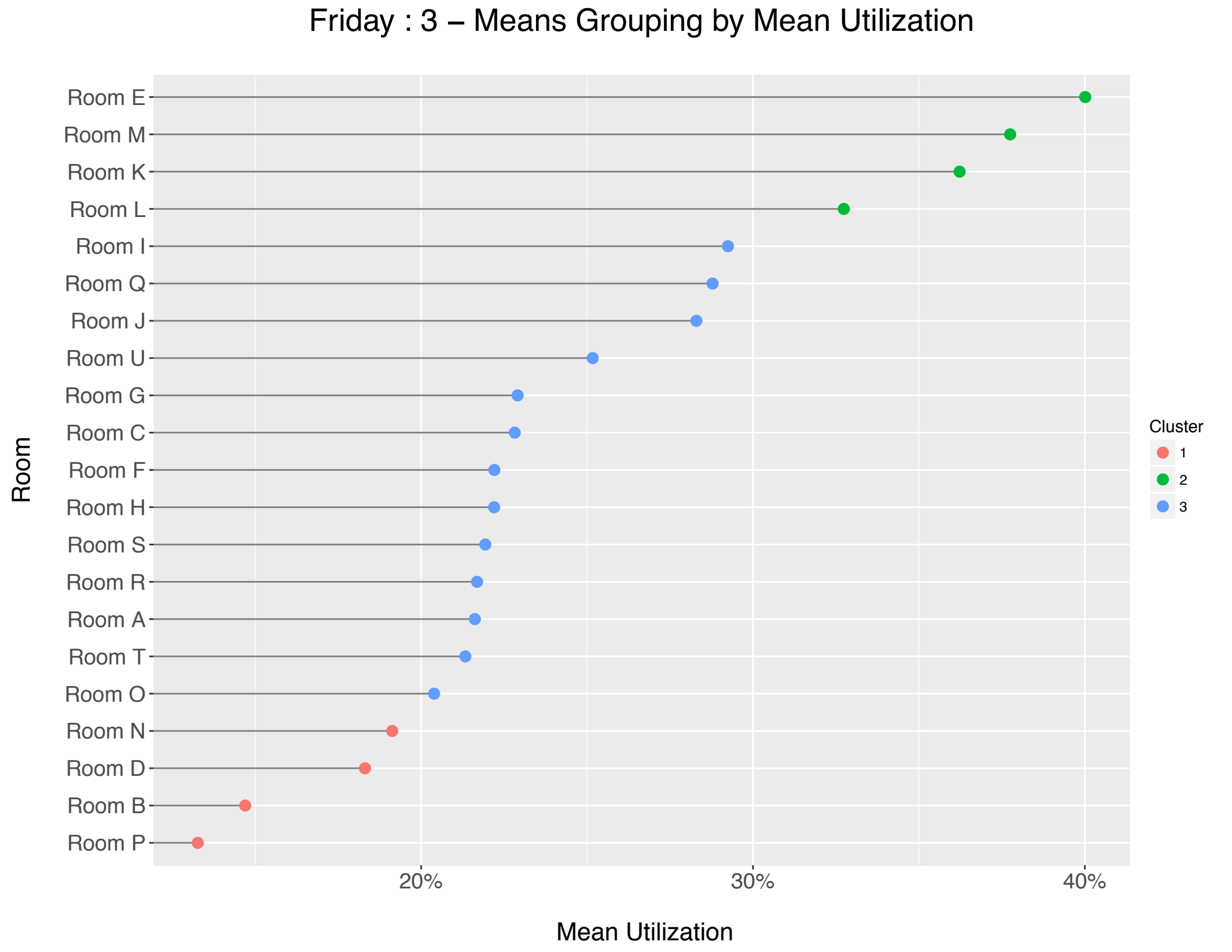
Friday : 3 – Means Grouping by Mean Utilization
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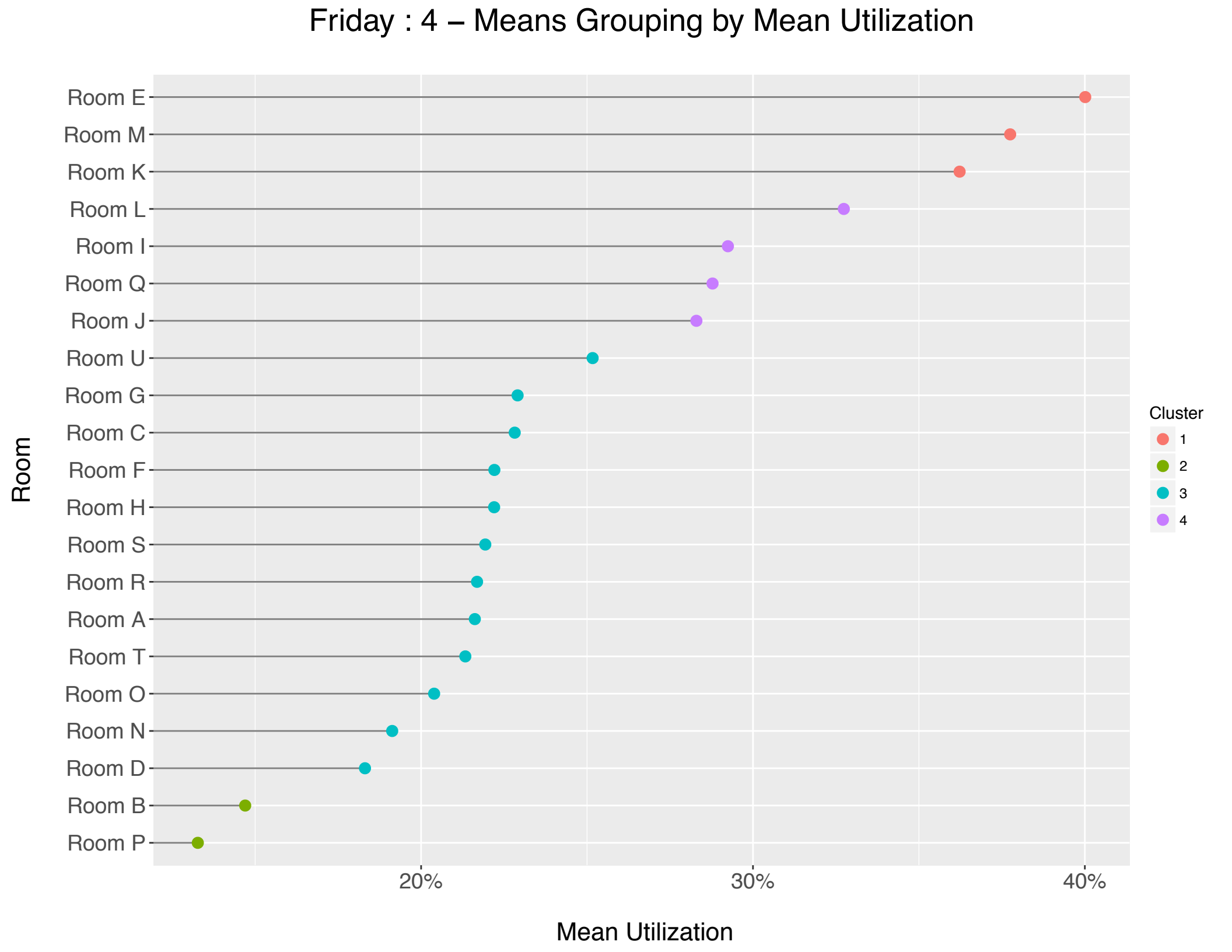
Friday : 4 – Means Grouping by Mean Utilization
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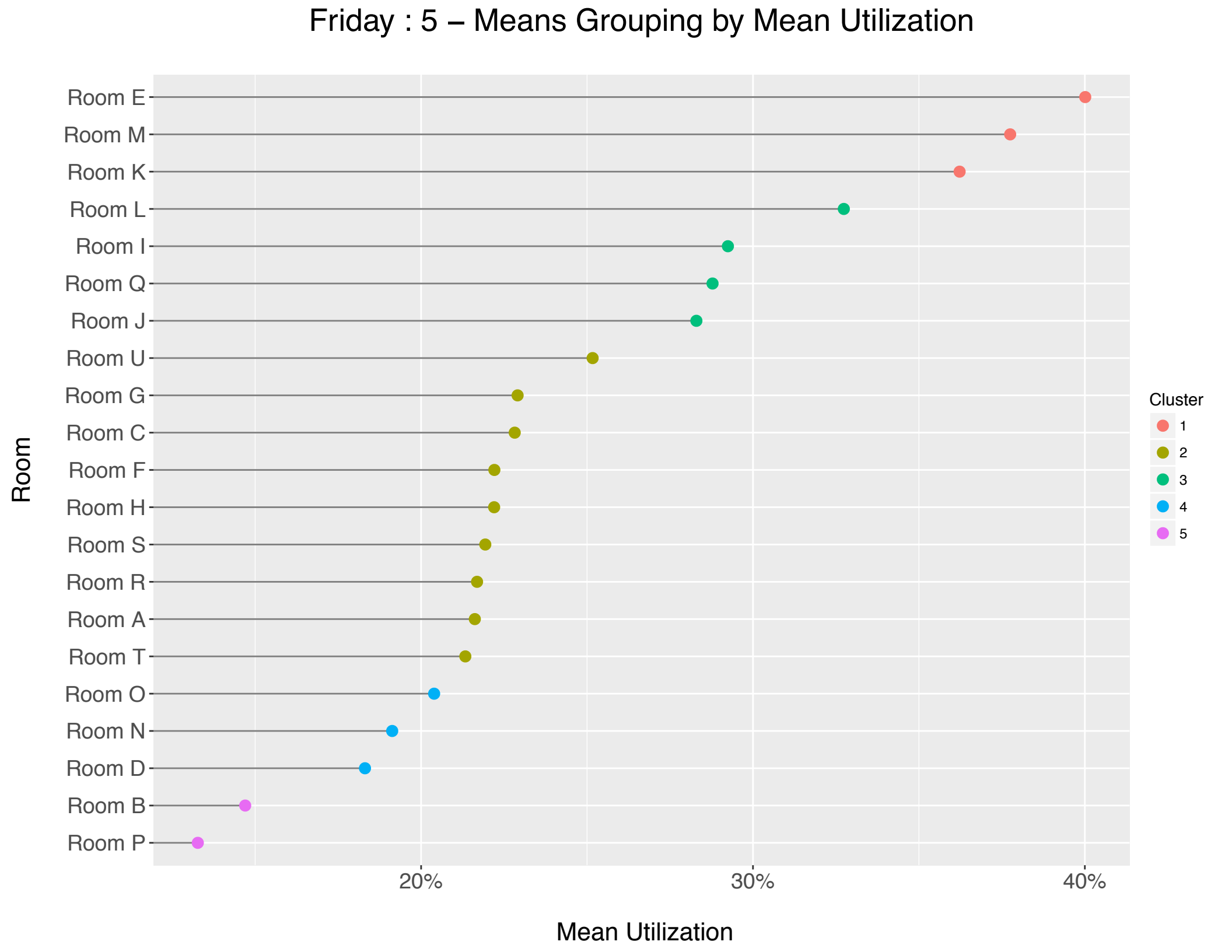
Friday : 5 – Means Grouping by Mean Utilization
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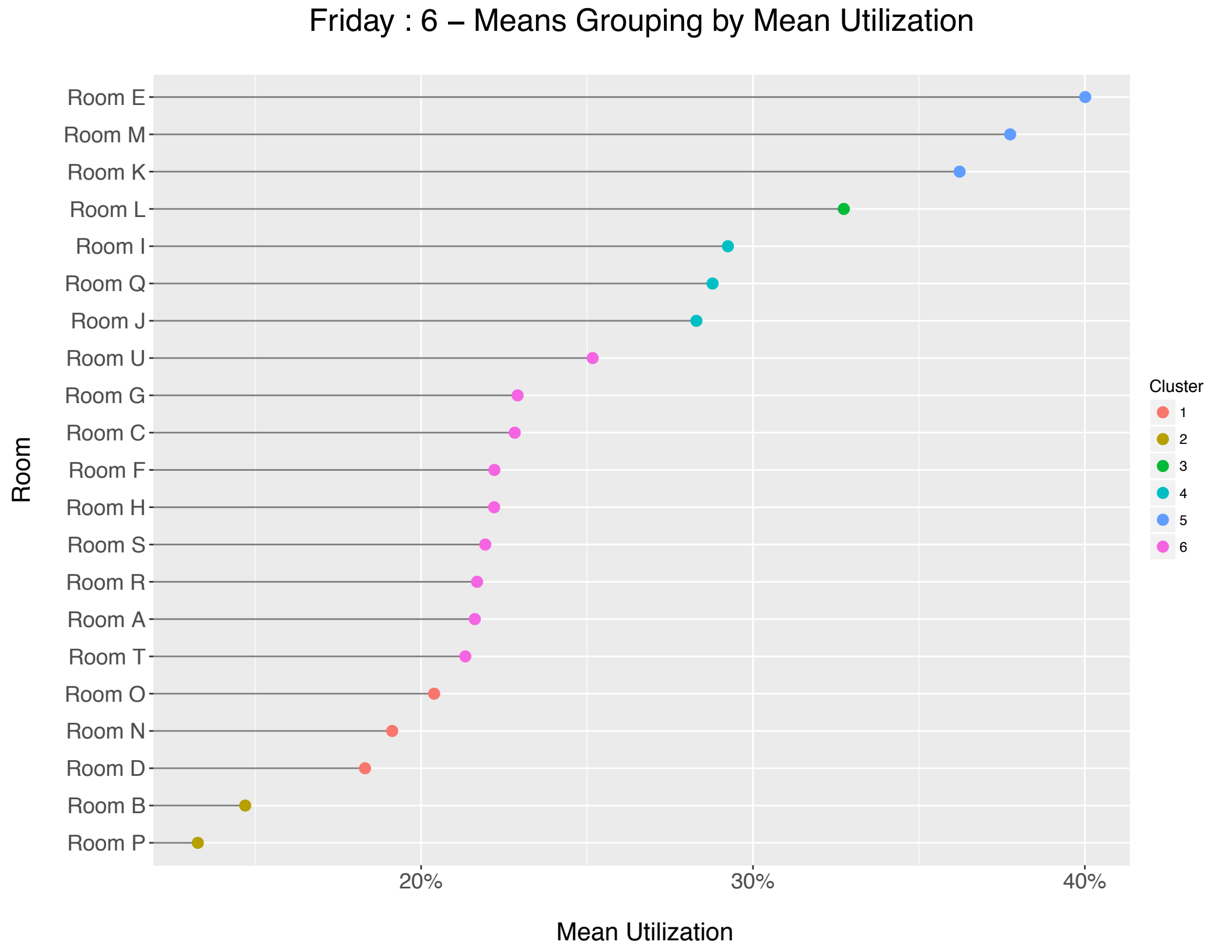
Friday : 6 – Means Grouping by Mean Utilization
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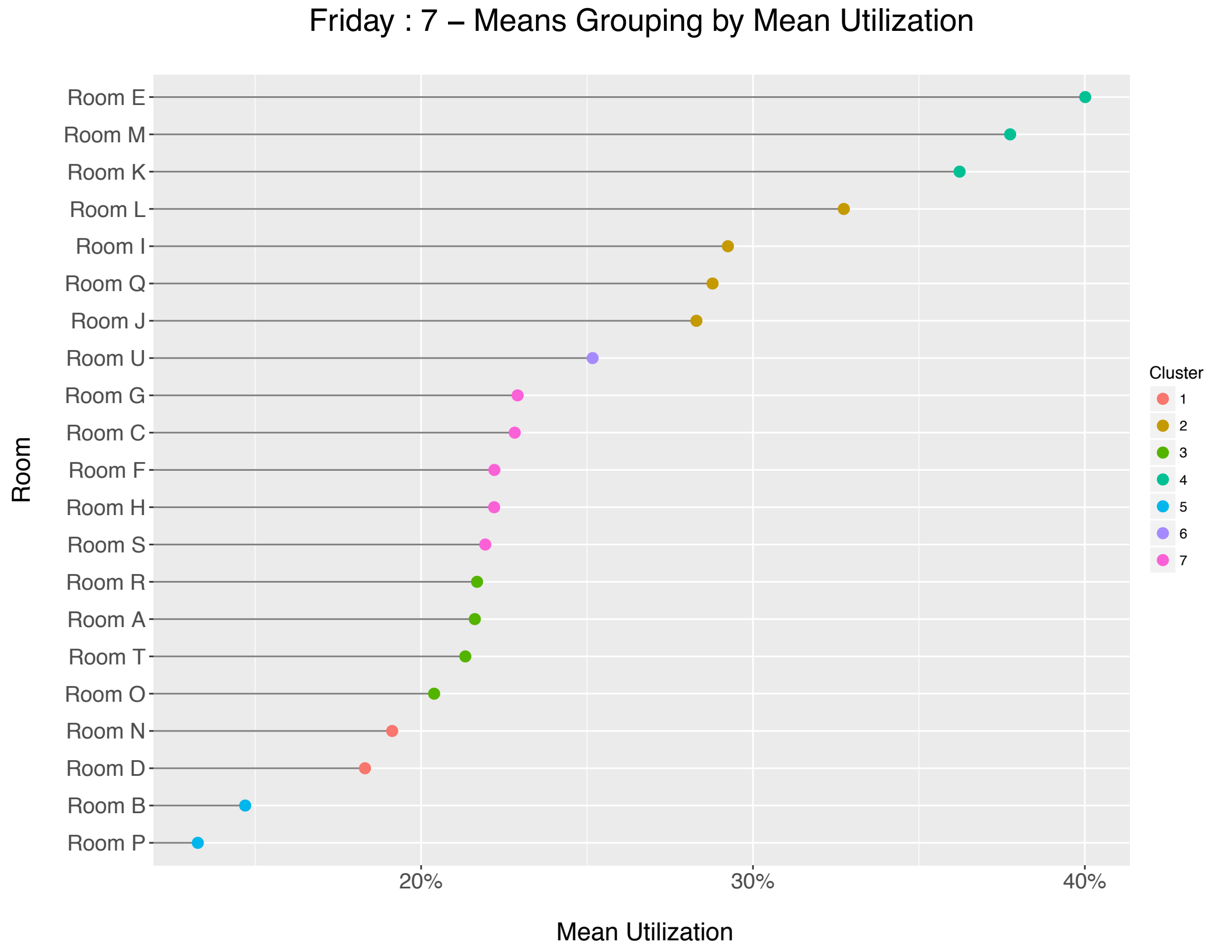
Friday : 7 – Means Grouping by Mean Utilization
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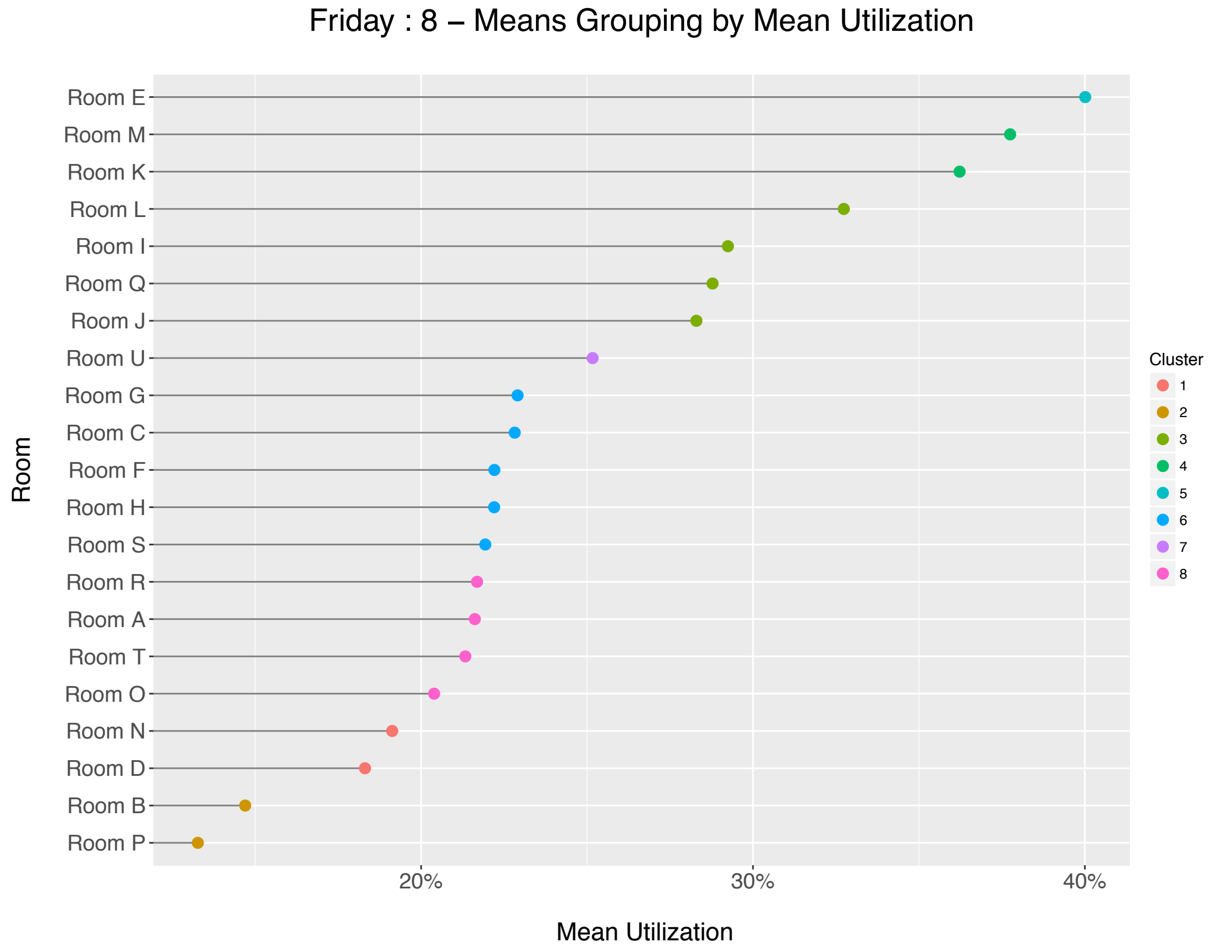
Friday : 8 – Means Grouping by Mean Utilization
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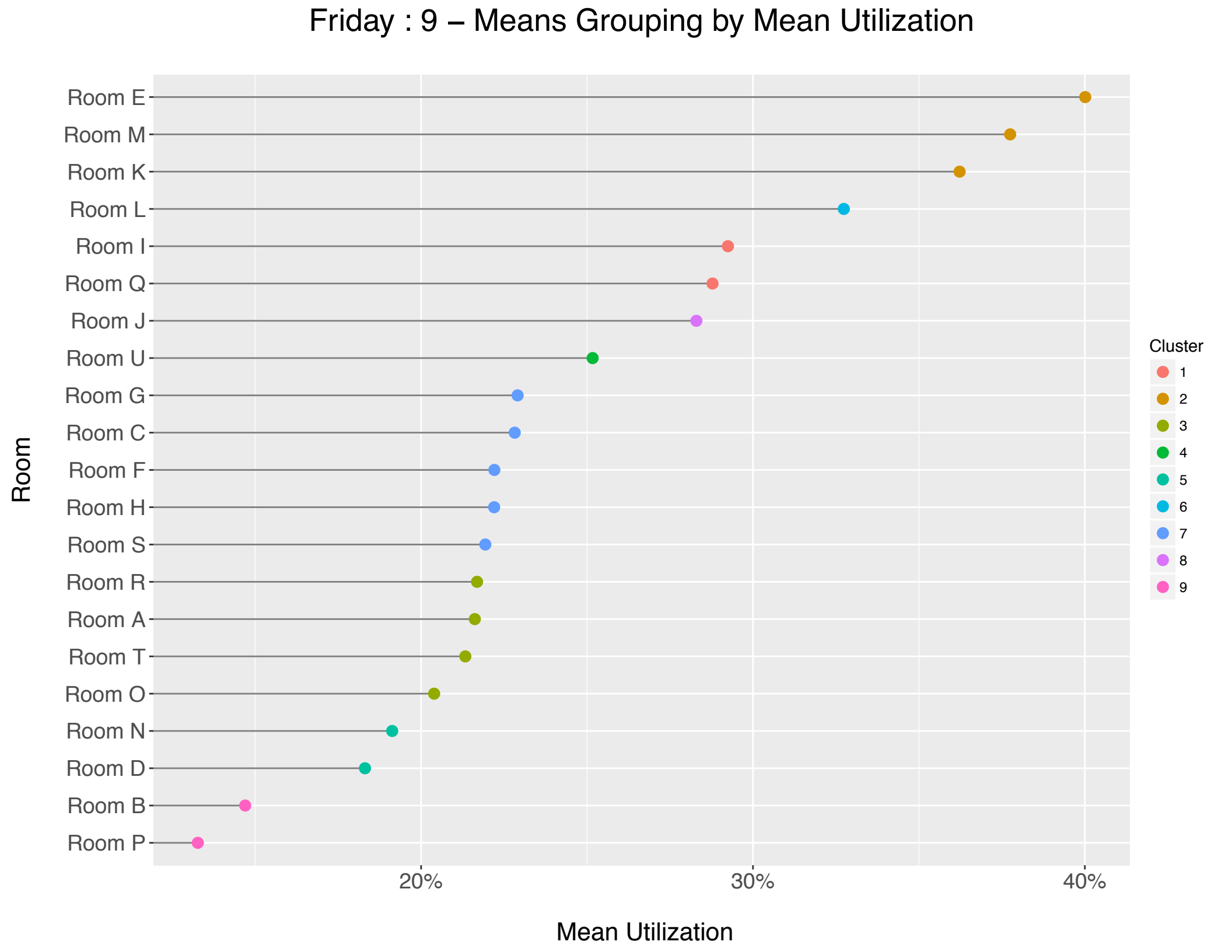
Friday : 9 – Means Grouping by Mean Utilization
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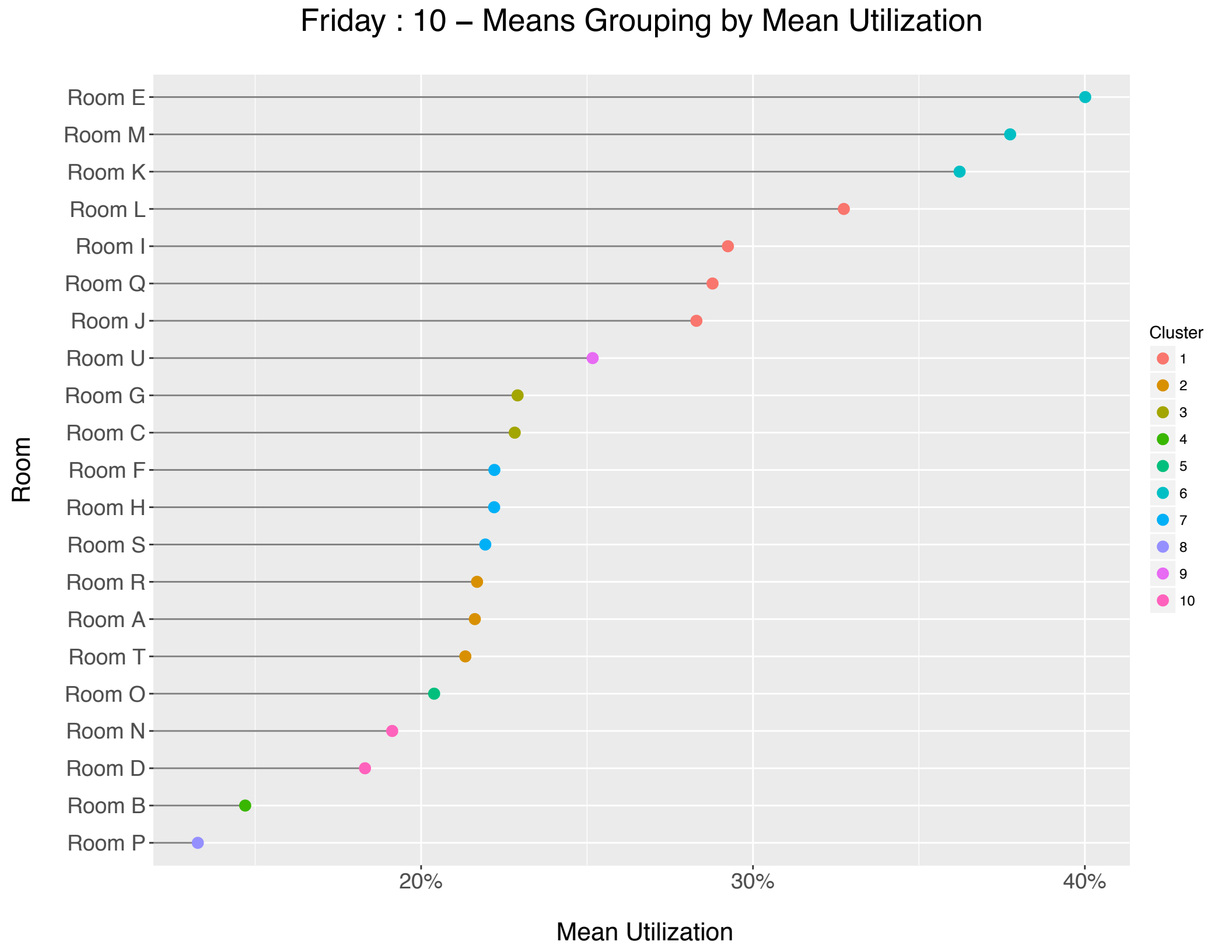
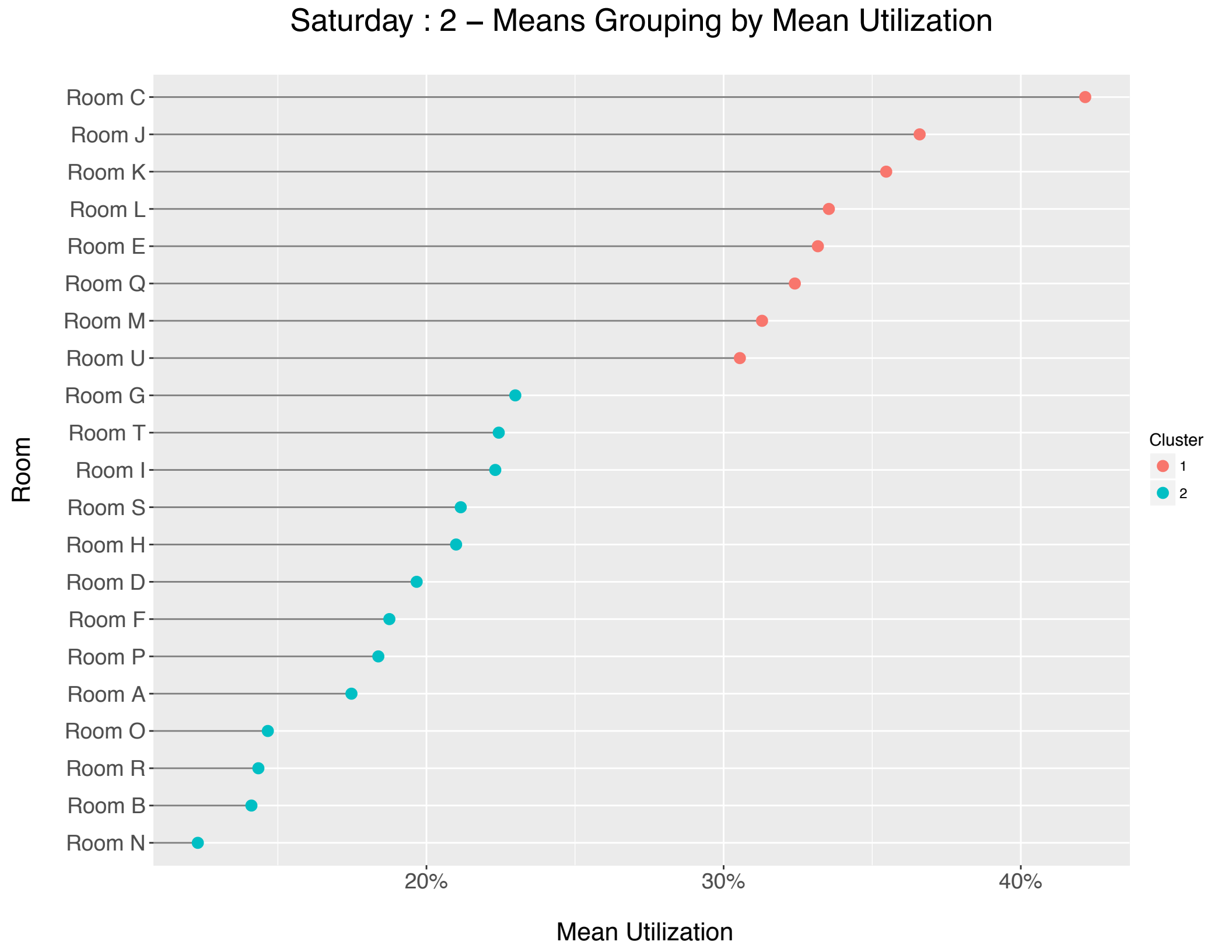
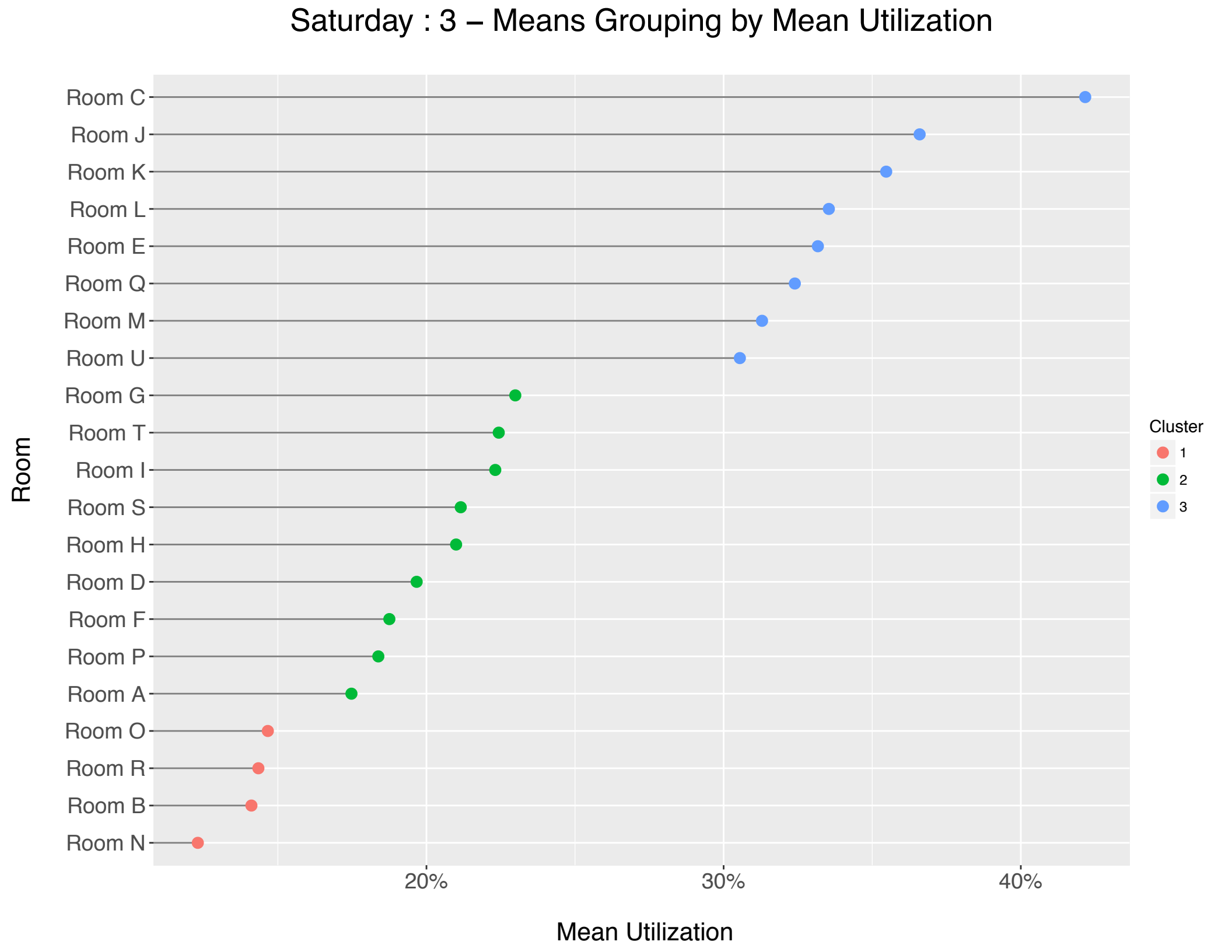
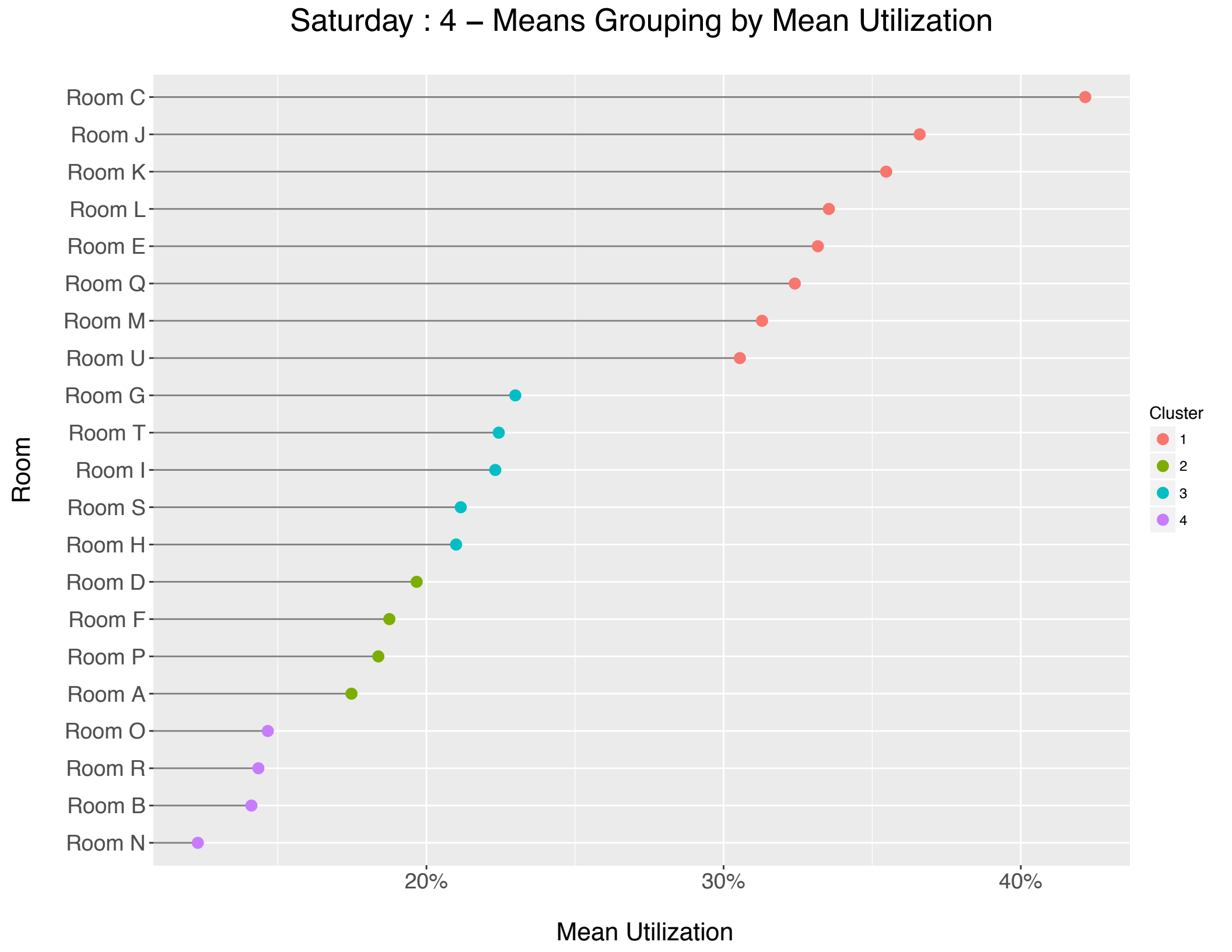
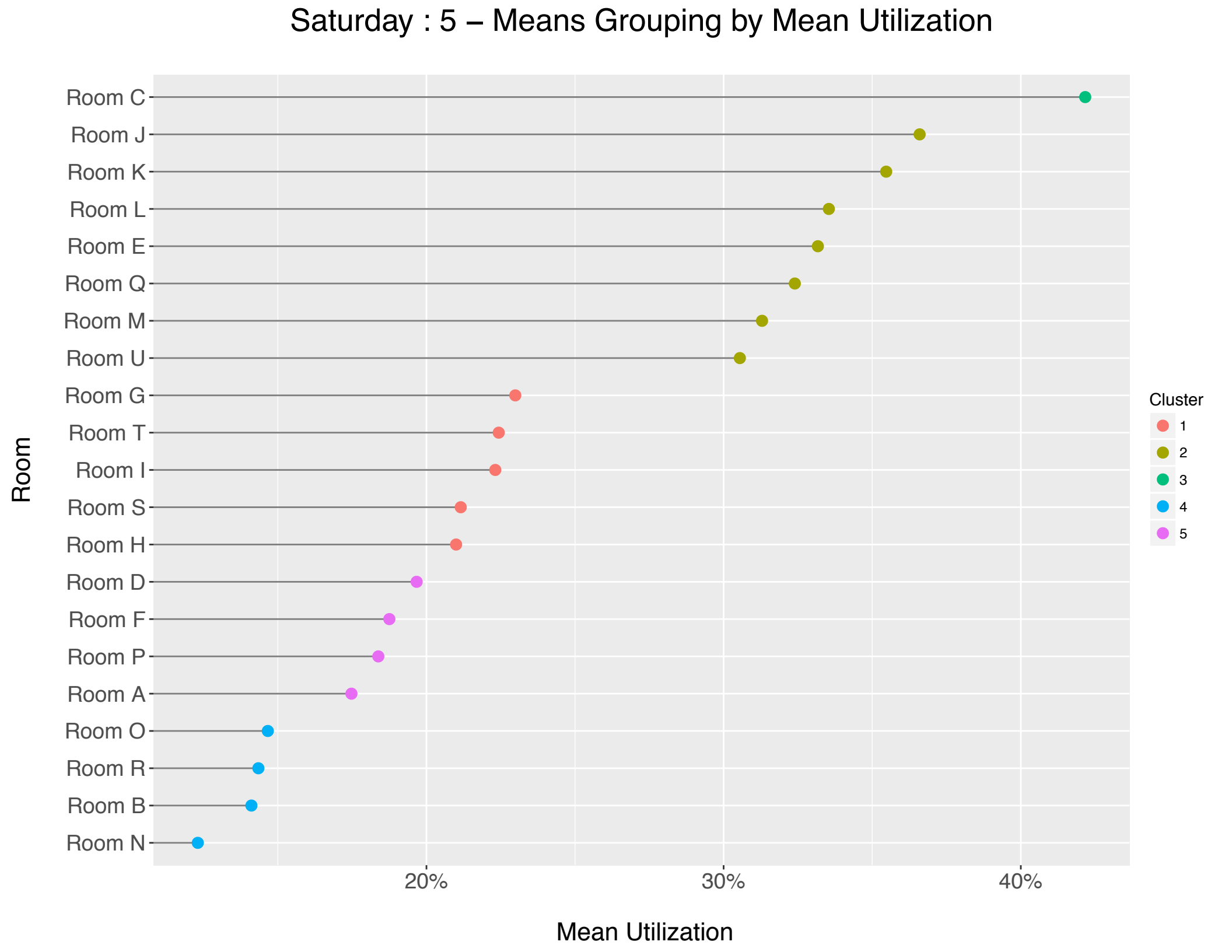
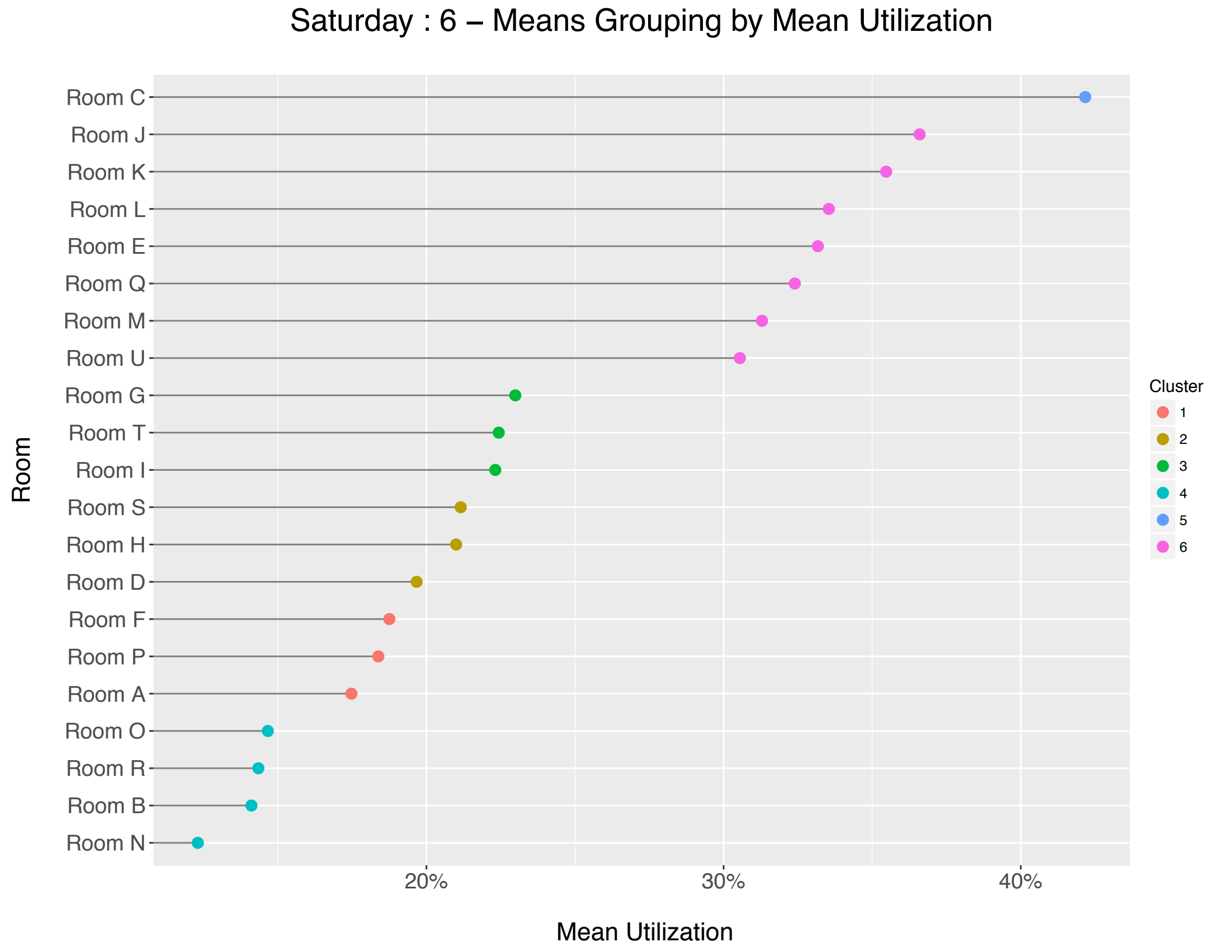

Friday : 10 – Means Grouping by Mean Utilization
Room E
Room M
Room K
Room L
Room I
Room Q
Room J
Room U
Room G
Room C
Room F
Room H
Room S
Room R
Room A
Room T
Room O
Room N
Room D
Room B
Room P
Room
20%
30%
40%
Mean Utilization
Cluster
1
2
3
4
5
6
7
8
9
10

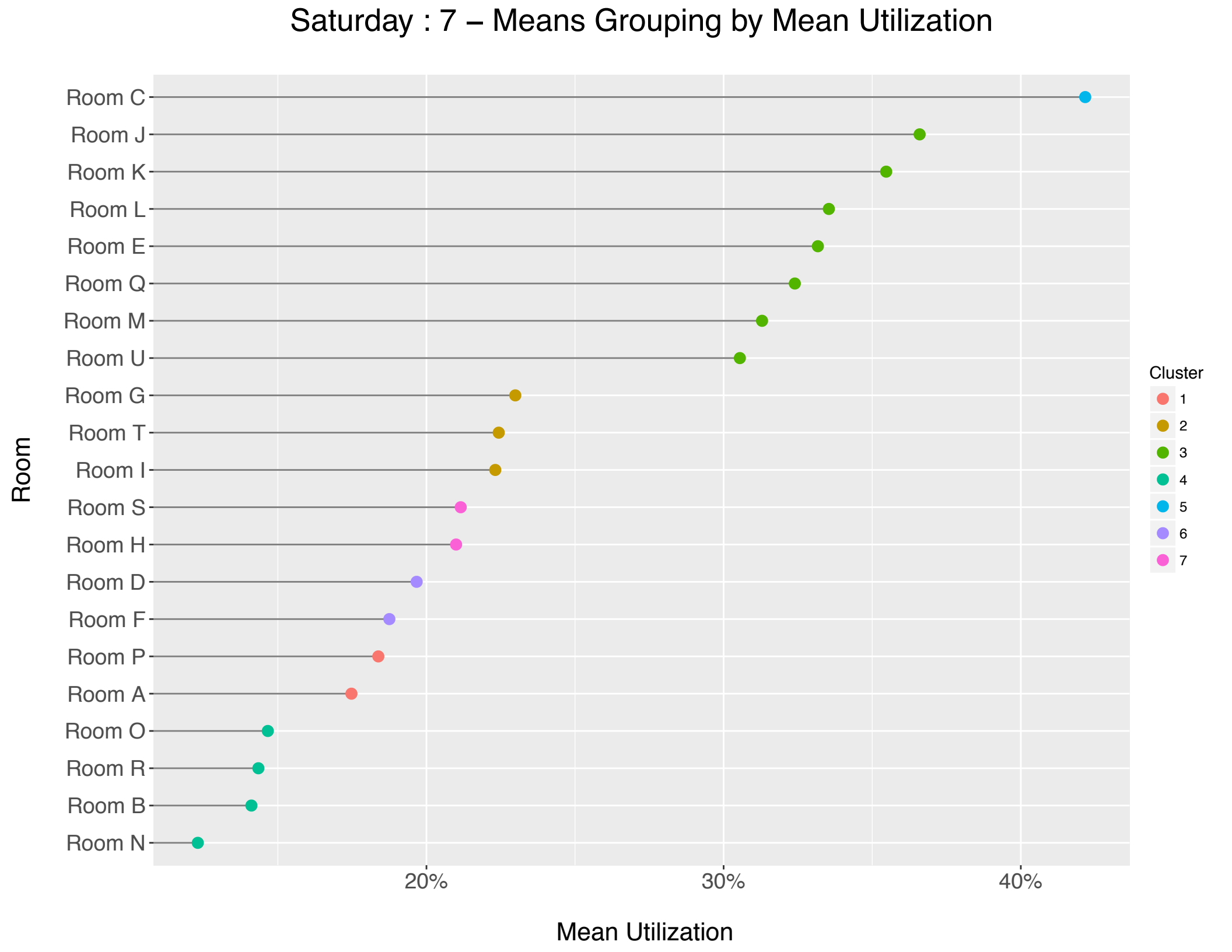

Saturday : 2 – Means Grouping by Mean Utilization
Room C
Room J
Room K
Room L
Room E
Room Q
Room M
Room U
Room G
Room T
Room I
Room S
Room H
Room D
Room F
Room P
Room A
Room O
Room R
Room B
Room N
Room
20%
30%
40%
Mean Utilization
Cluster
1
2

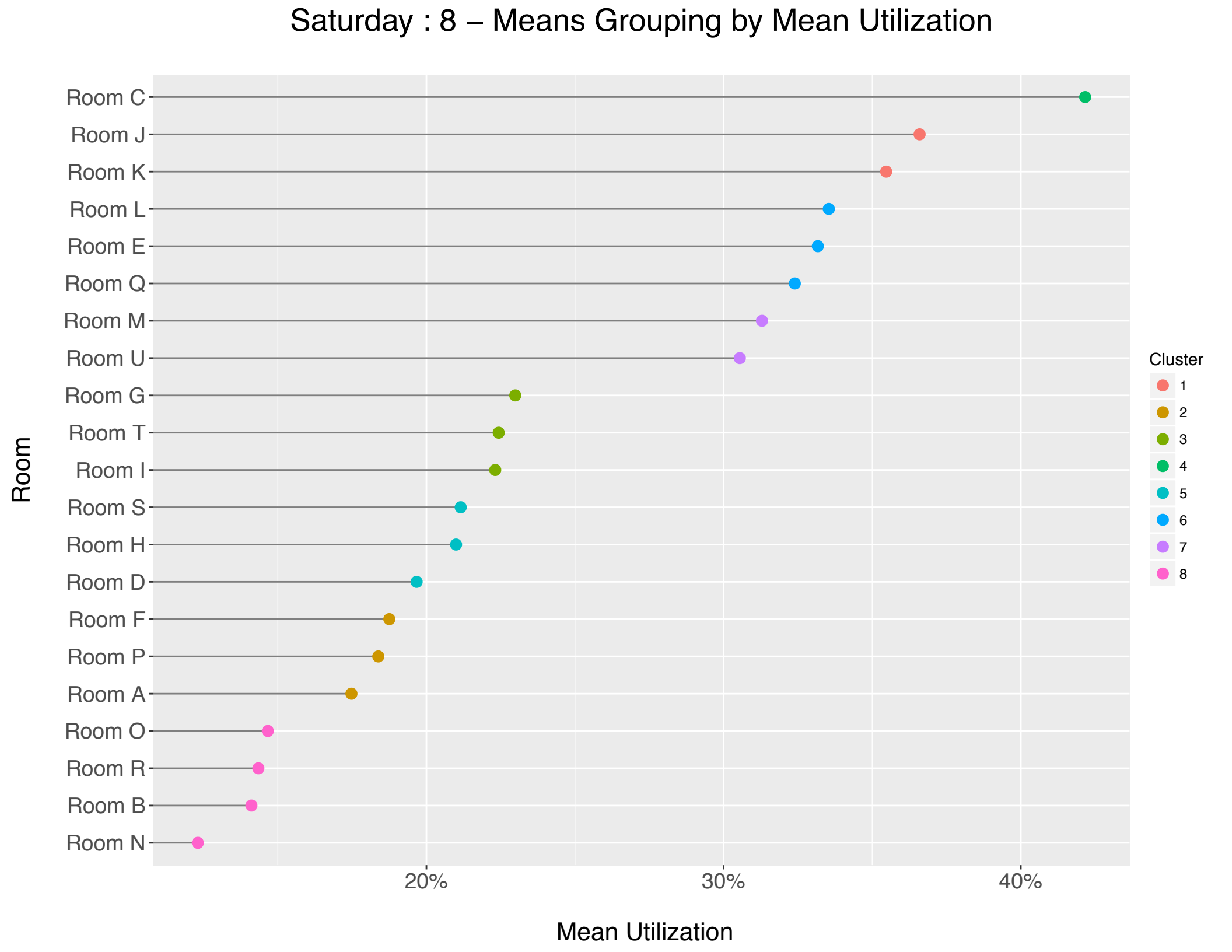

Saturday : 3 – Means Grouping by Mean Utilization
Room C
Room J
Room K
Room L
Room E
Room Q
Room M
Room U
Room G
Room T
Room I
Room S
Room H
Room D
Room F
Room P
Room A
Room O
Room R
Room B
Room N
Room
20%
30%
40%
Mean Utilization
Cluster
1
2
3

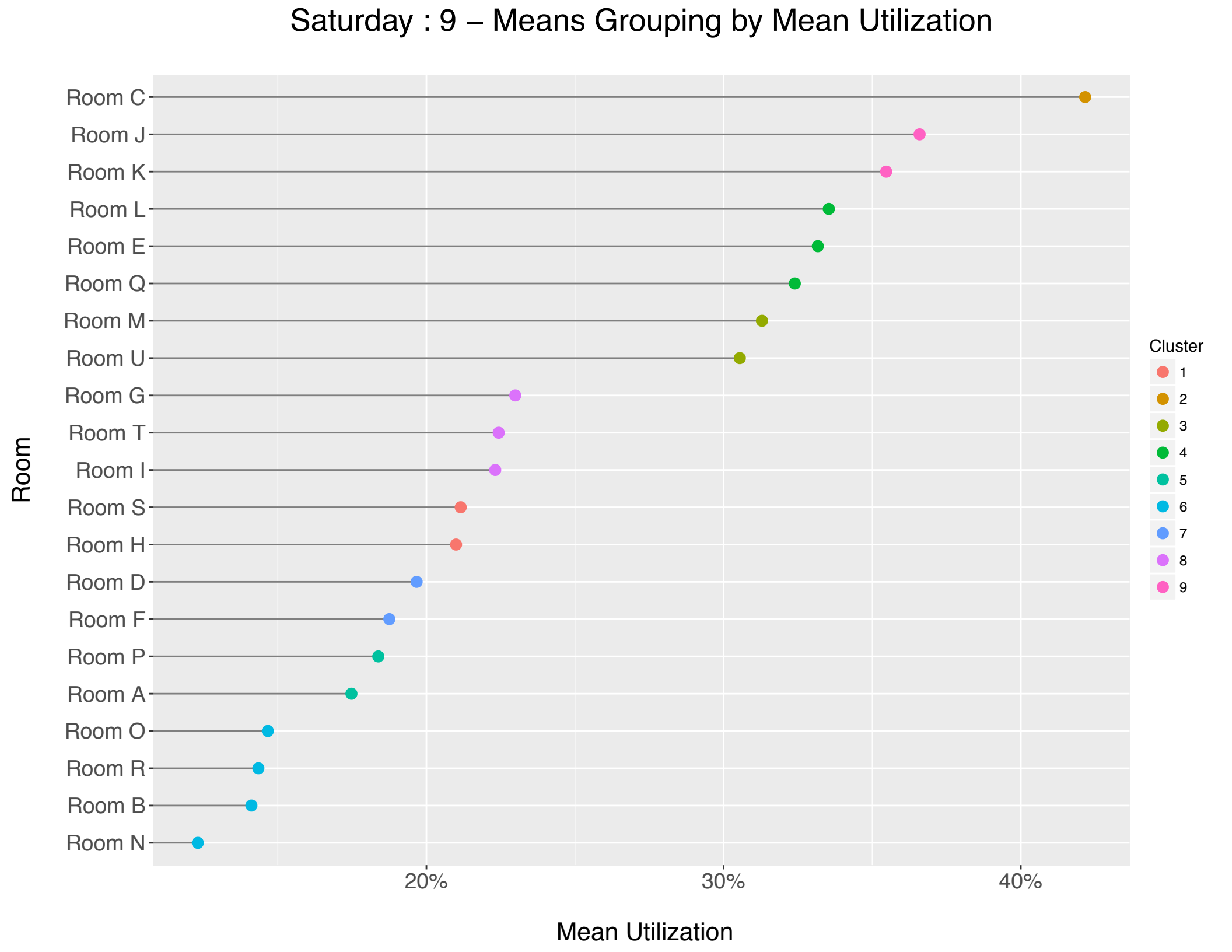

Saturday : 4 – Means Grouping by Mean Utilization
Room C
Room J
Room K
Room L
Room E
Room Q
Room M
Room U
Room G
Room T
Room I
Room S
Room H
Room D
Room F
Room P
Room A
Room O
Room R
Room B
Room N
Room
20%
30%
40%
Mean Utilization
Cluster
1
2
3
4

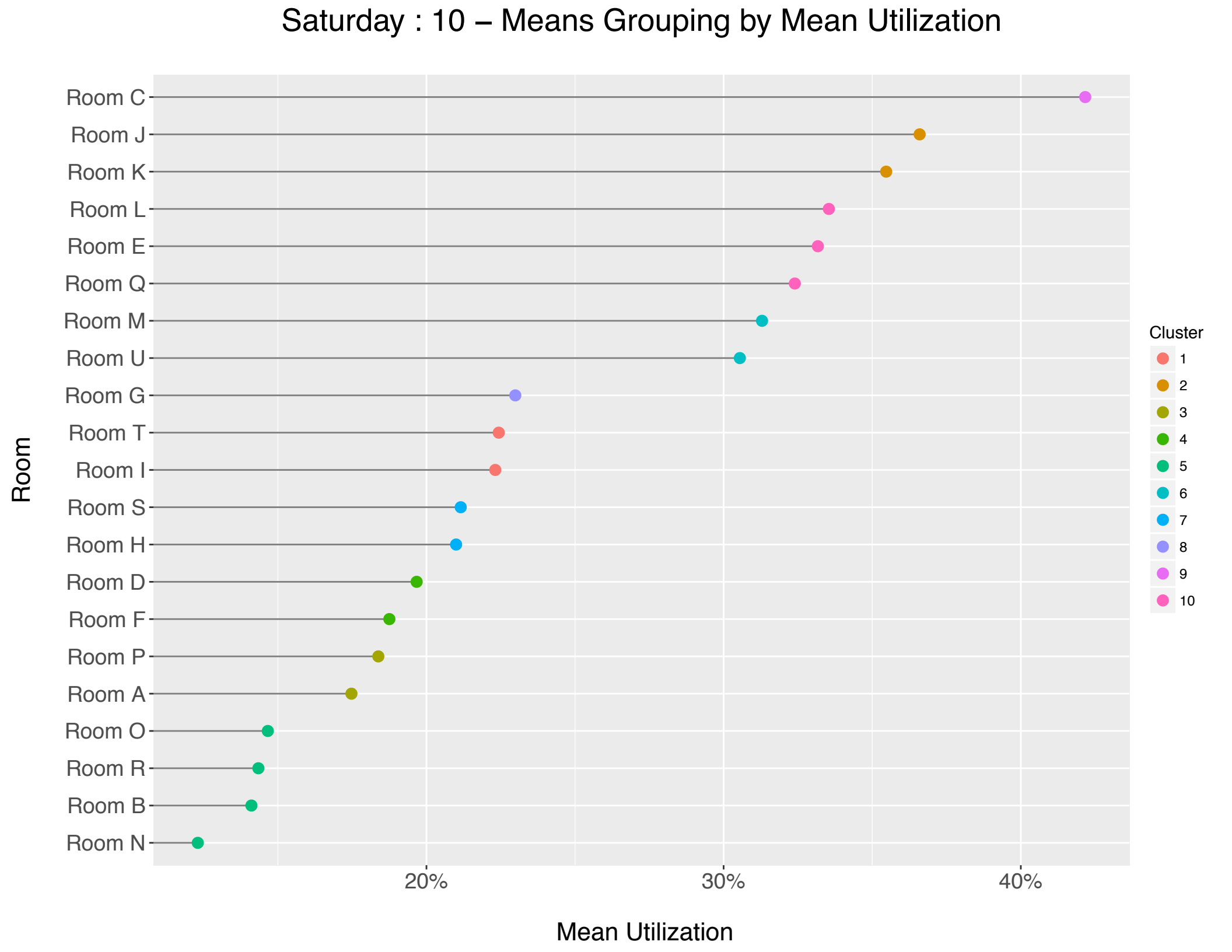

Saturday : 5 – Means Grouping by Mean Utilization
Room C
Room J
Room K
Room L
Room E
Room Q
Room M
Room U
Room G
Room T
Room I
Room S
Room H
Room D
Room F
Room P
Room A
Room O
Room R
Room B
Room N
Room
20%
30%
40%
Mean Utilization
Cluster
1
2
3
4
5

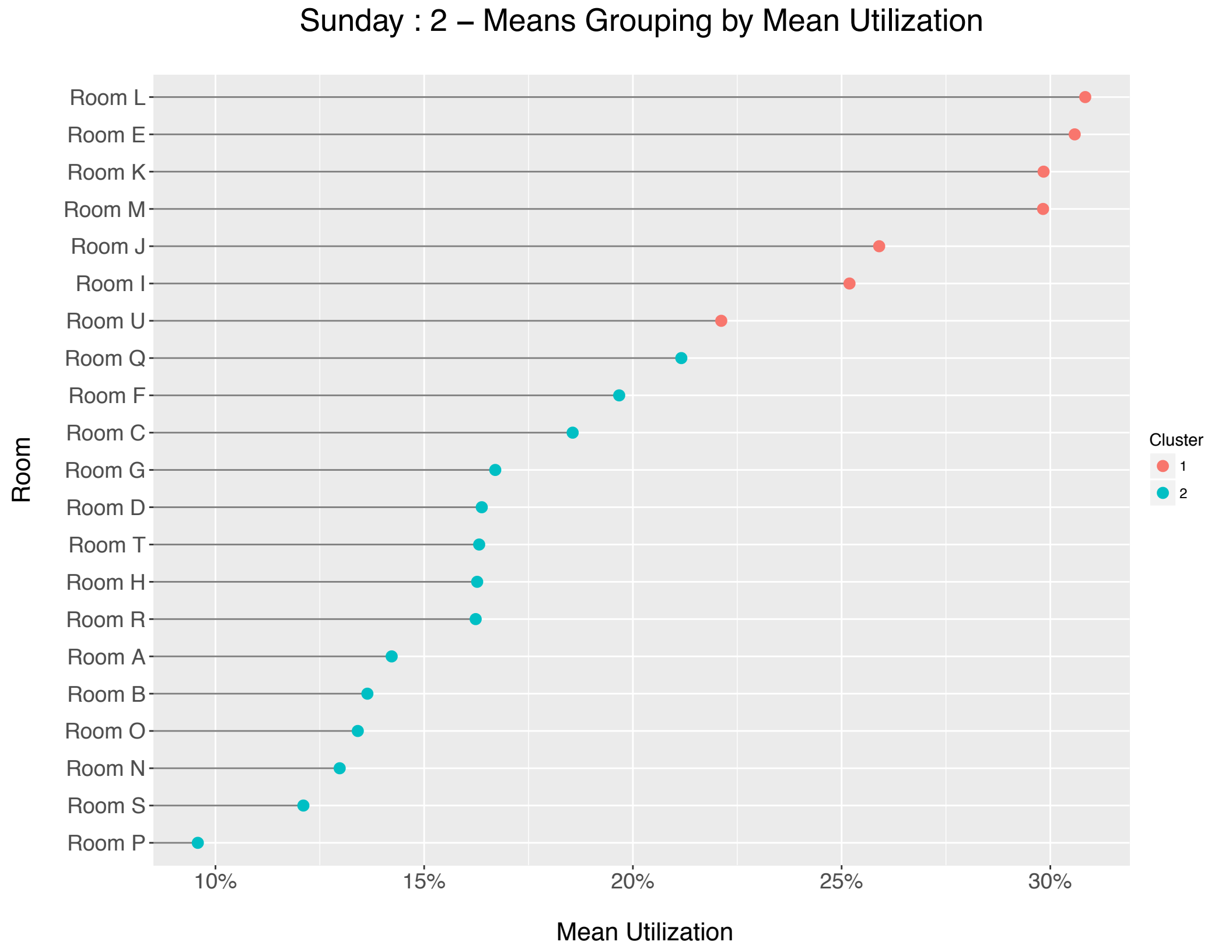

Saturday : 6 – Means Grouping by Mean Utilization
Room C
Room J
Room K
Room L
Room E
Room Q
Room M
Room U
Room G
Room T
Room I
Room S
Room H
Room D
Room F
Room P
Room A
Room O
Room R
Room B
Room N
Room
20%
30%
40%
Mean Utilization
Cluster
1
2
3
4
5
6

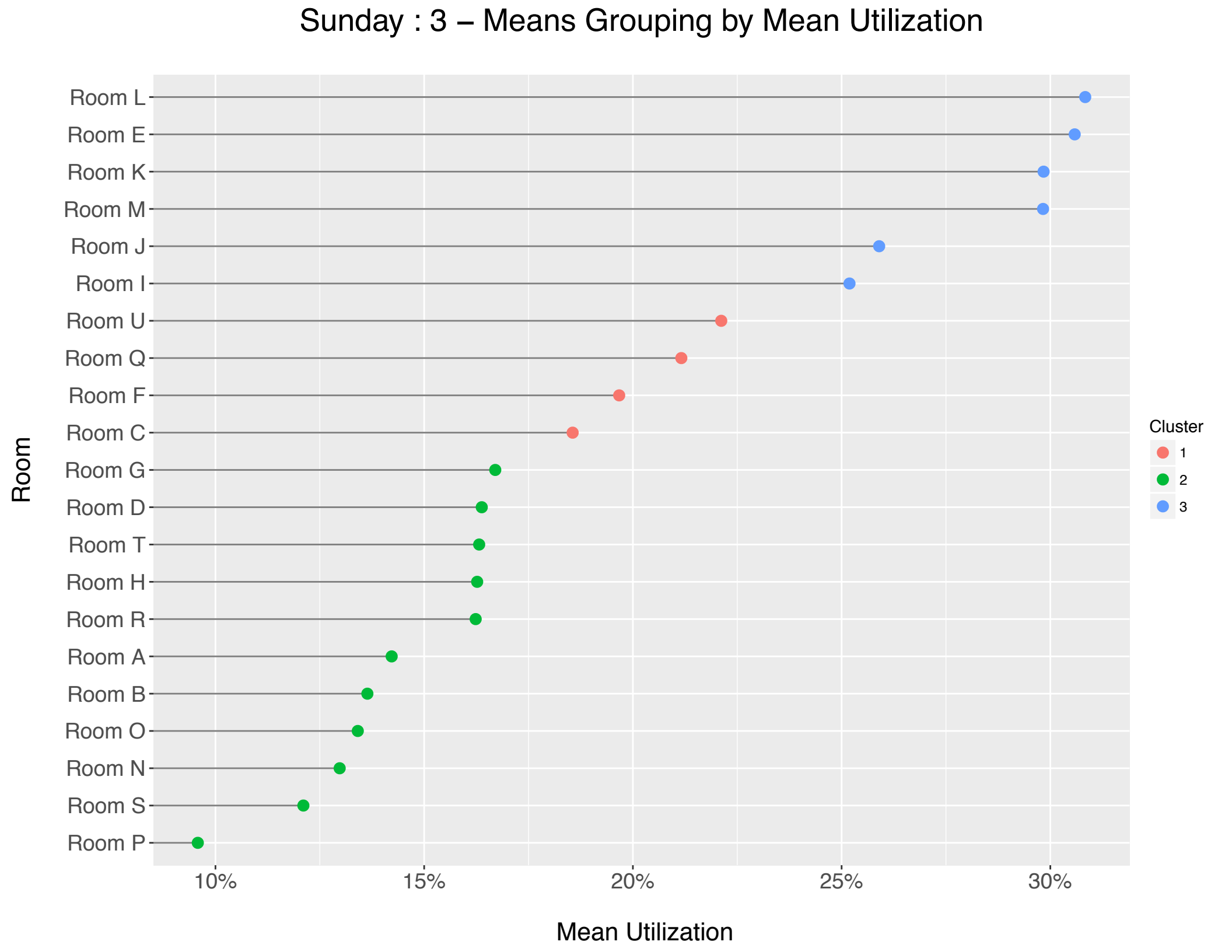

Saturday : 7 – Means Grouping by Mean Utilization
Room C
Room J
Room K
Room L
Room E
Room Q
Room M
Room U
Room G
Room T
Room I
Room S
Room H
Room D
Room F
Room P
Room A
Room O
Room R
Room B
Room N
Room
20%
30%
40%
Mean Utilization
Cluster
1
2
3
4
5
6
7

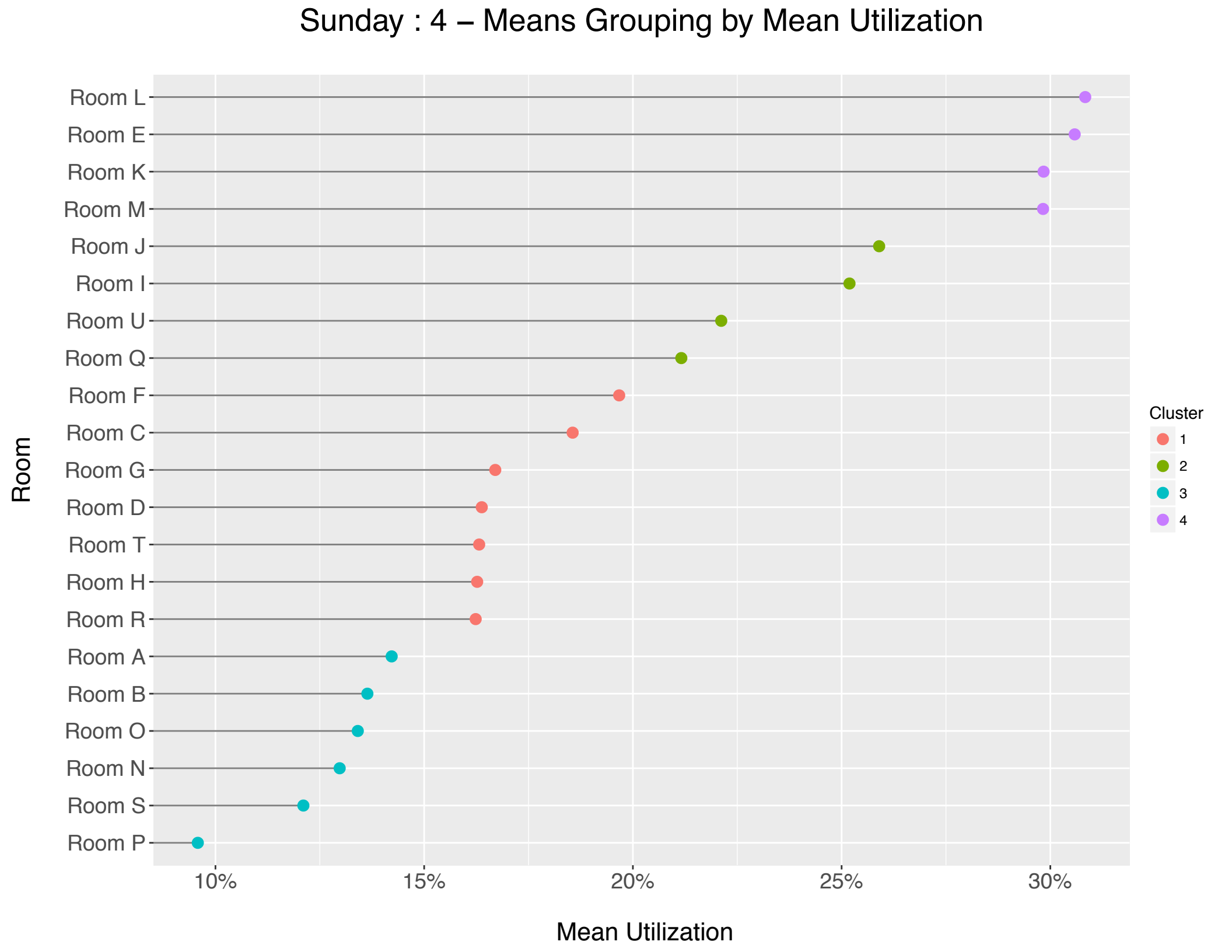

Saturday : 8 – Means Grouping by Mean Utilization
Room C
Room J
Room K
Room L
Room E
Room Q
Room M
Room U
Room G
Room T
Room I
Room S
Room H
Room D
Room F
Room P
Room A
Room O
Room R
Room B
Room N
Room
20%
30%
40%
Mean Utilization
Cluster
1
2
3
4
5
6
7
8

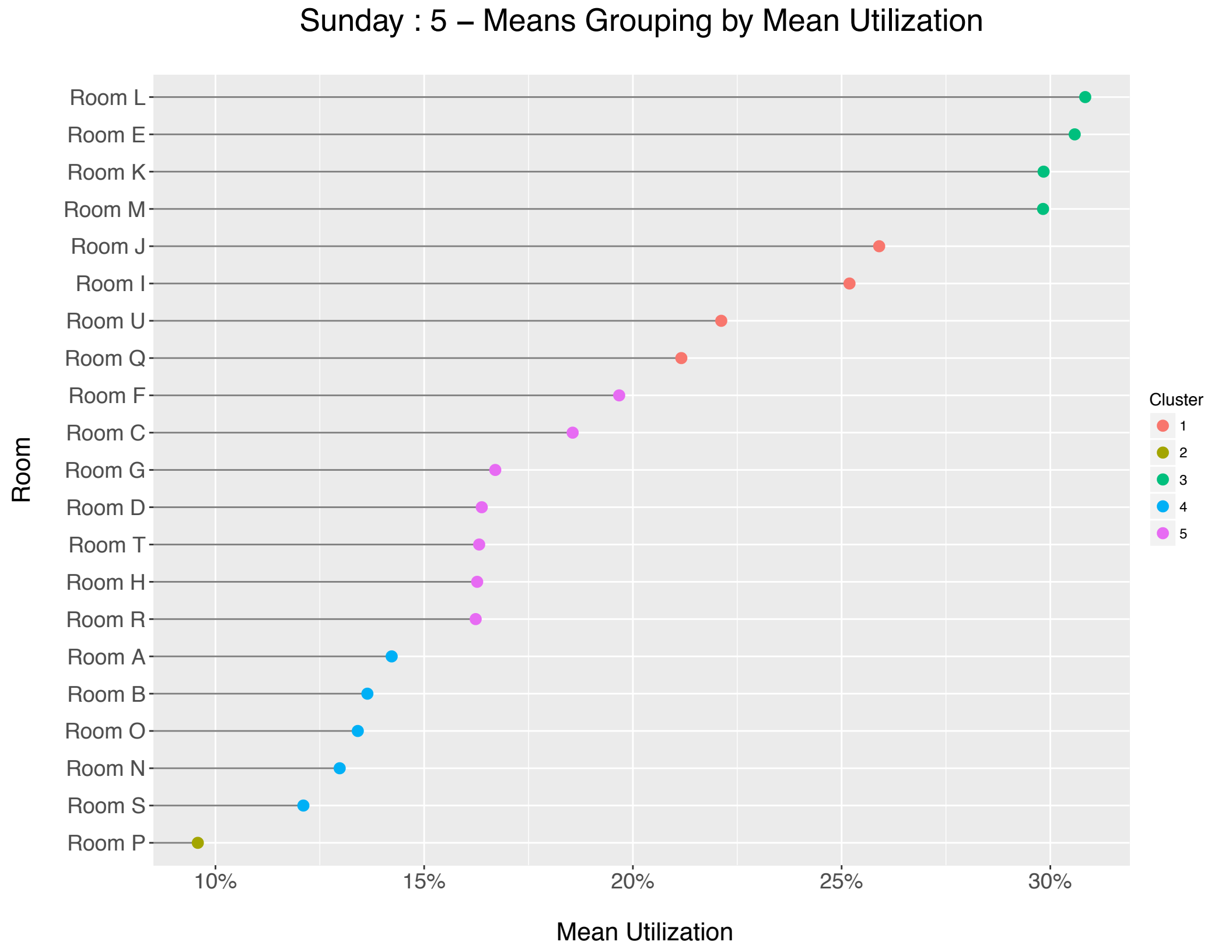

Saturday : 9 – Means Grouping by Mean Utilization
Room C
Room J
Room K
Room L
Room E
Room Q
Room M
Room U
Room G
Room T
Room I
Room S
Room H
Room D
Room F
Room P
Room A
Room O
Room R
Room B
Room N
Room
20%
30%
40%
Mean Utilization
Cluster
1
2
3
4
5
6
7
8
9

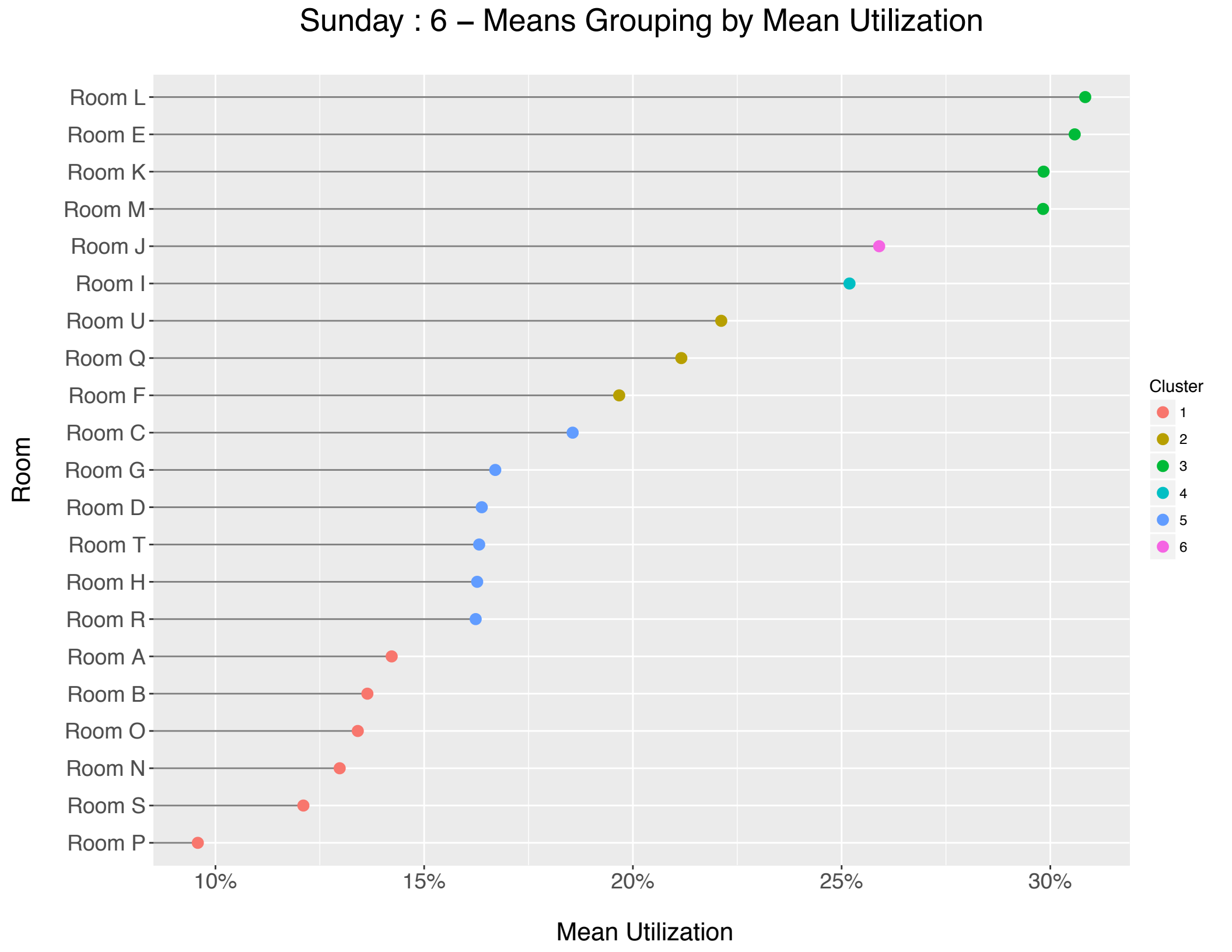

Saturday : 10 – Means Grouping by Mean Utilization
Room C
Room J
Room K
Room L
Room E
Room Q
Room M
Room U
Room G
Room T
Room I
Room S
Room H
Room D
Room F
Room P
Room A
Room O
Room R
Room B
Room N
Room
20%
30%
40%
Mean Utilization
Cluster
1
2
3
4
5
6
7
8
9
10

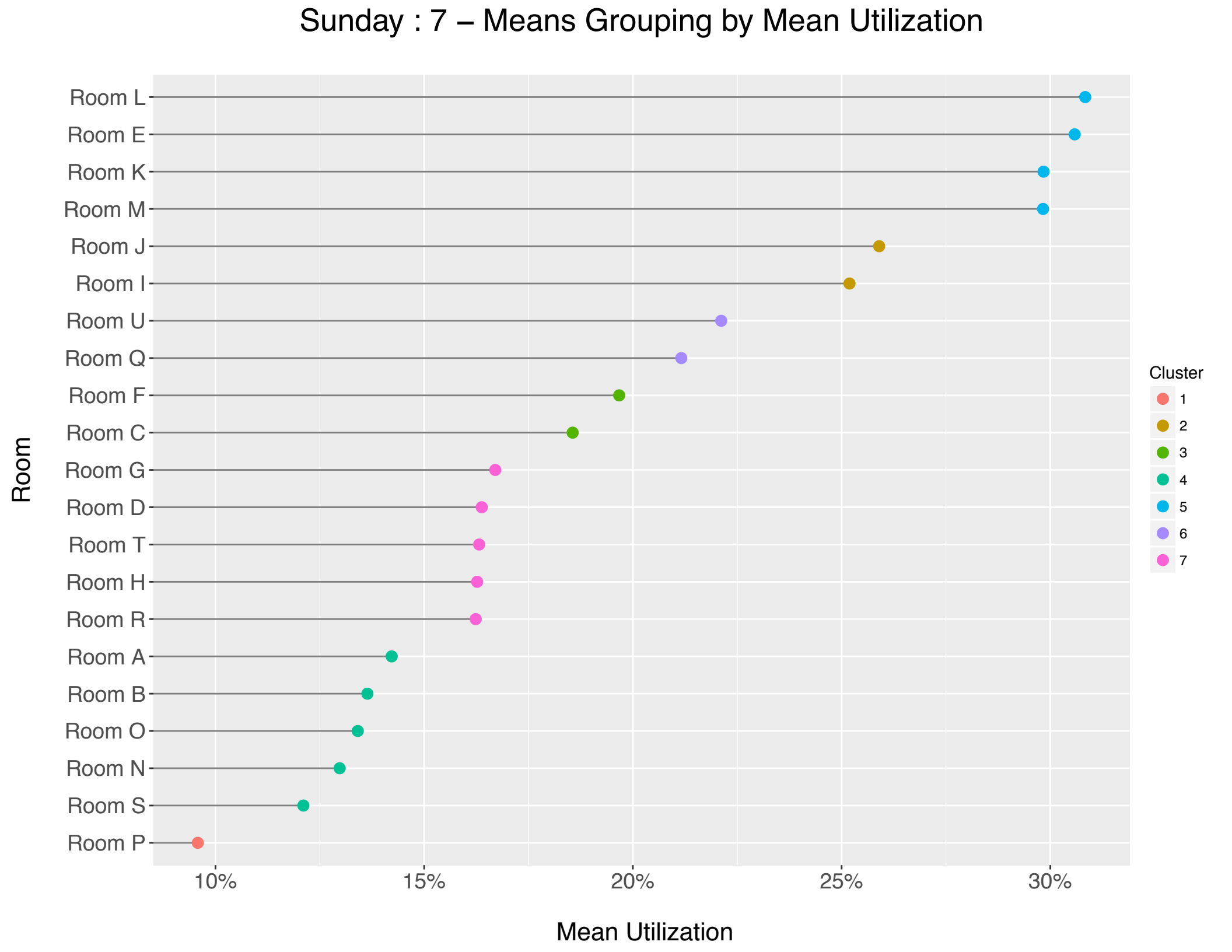

Sunday : 2 – Means Grouping by Mean Utilization
Room L
Room E
Room K
Room M
Room J
Room I
Room U
Room Q
Room F
Room C
Room G
Room D
Room T
Room H
Room R
Room A
Room B
Room O
Room N
Room S
Room P
Room
10%
15%
20%
25%
30%
Mean Utilization
Cluster
1
2

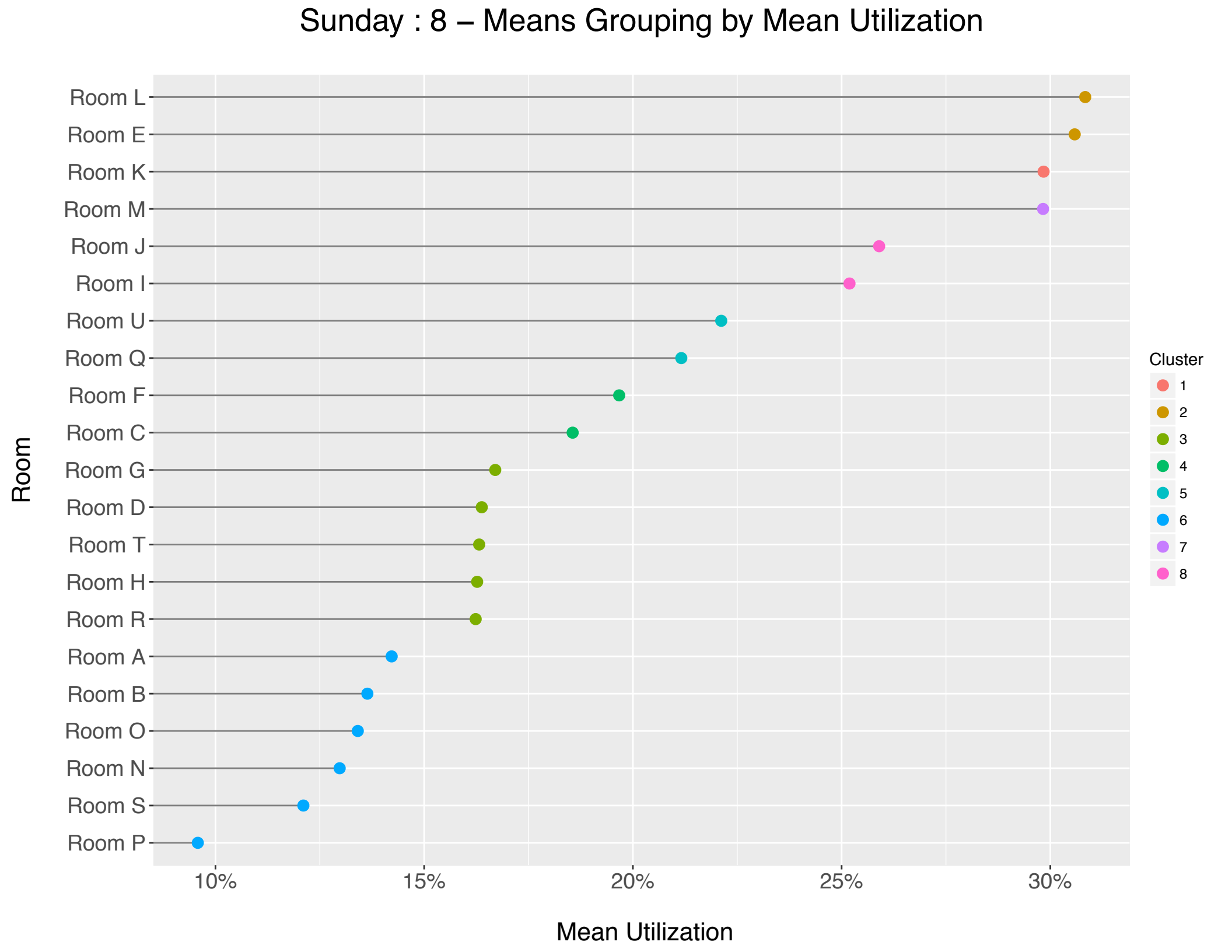

Sunday : 3 – Means Grouping by Mean Utilization
Room L
Room E
Room K
Room M
Room J
Room I
Room U
Room Q
Room F
Room C
Room G
Room D
Room T
Room H
Room R
Room A
Room B
Room O
Room N
Room S
Room P
Room
10%
15%
20%
25%
30%
Mean Utilization
Cluster
1
2
3

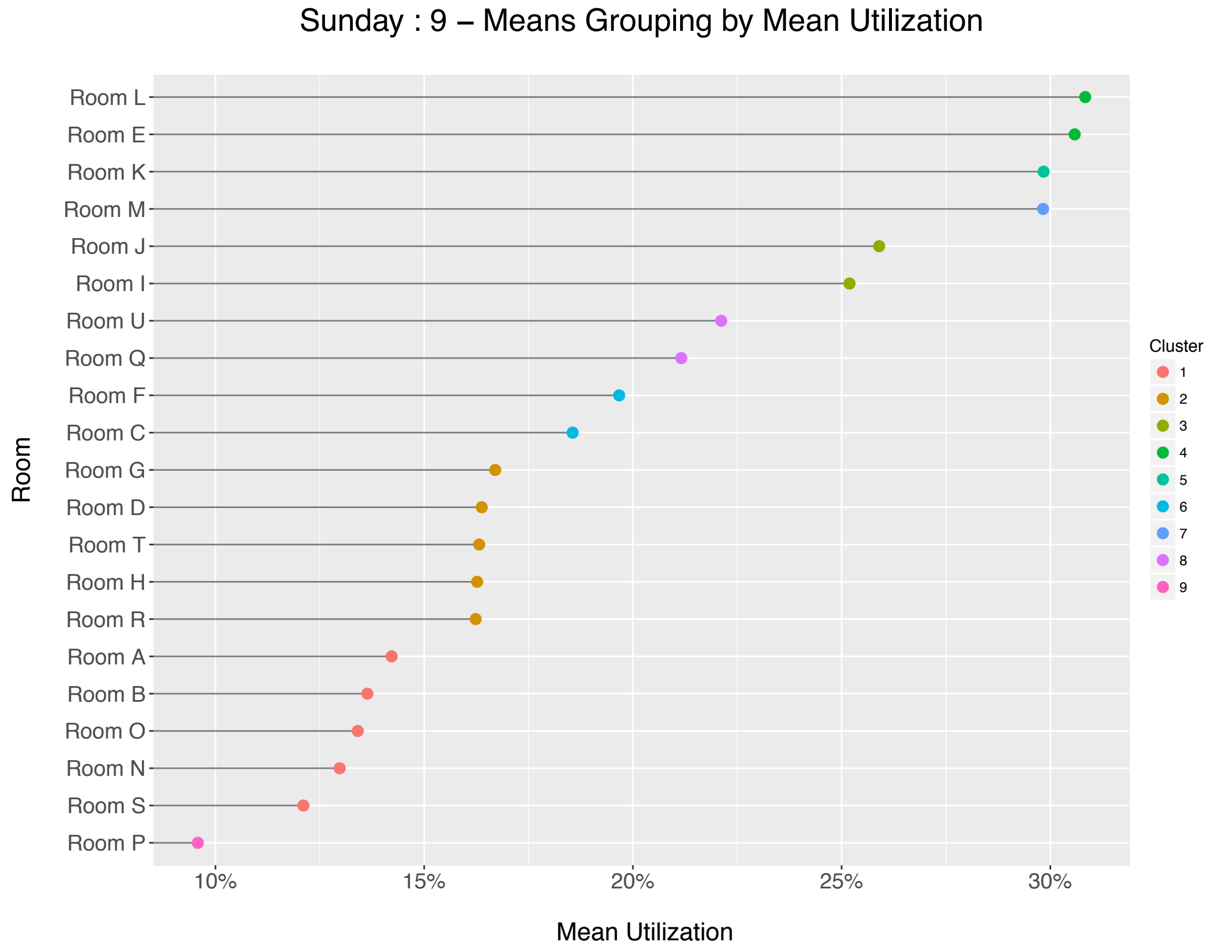

Sunday : 4 – Means Grouping by Mean Utilization
Room L
Room E
Room K
Room M
Room J
Room I
Room U
Room Q
Room F
Room C
Room G
Room D
Room T
Room H
Room R
Room A
Room B
Room O
Room N
Room S
Room P
Room
10%
15%
20%
25%
30%
Mean Utilization
Cluster
1
2
3
4

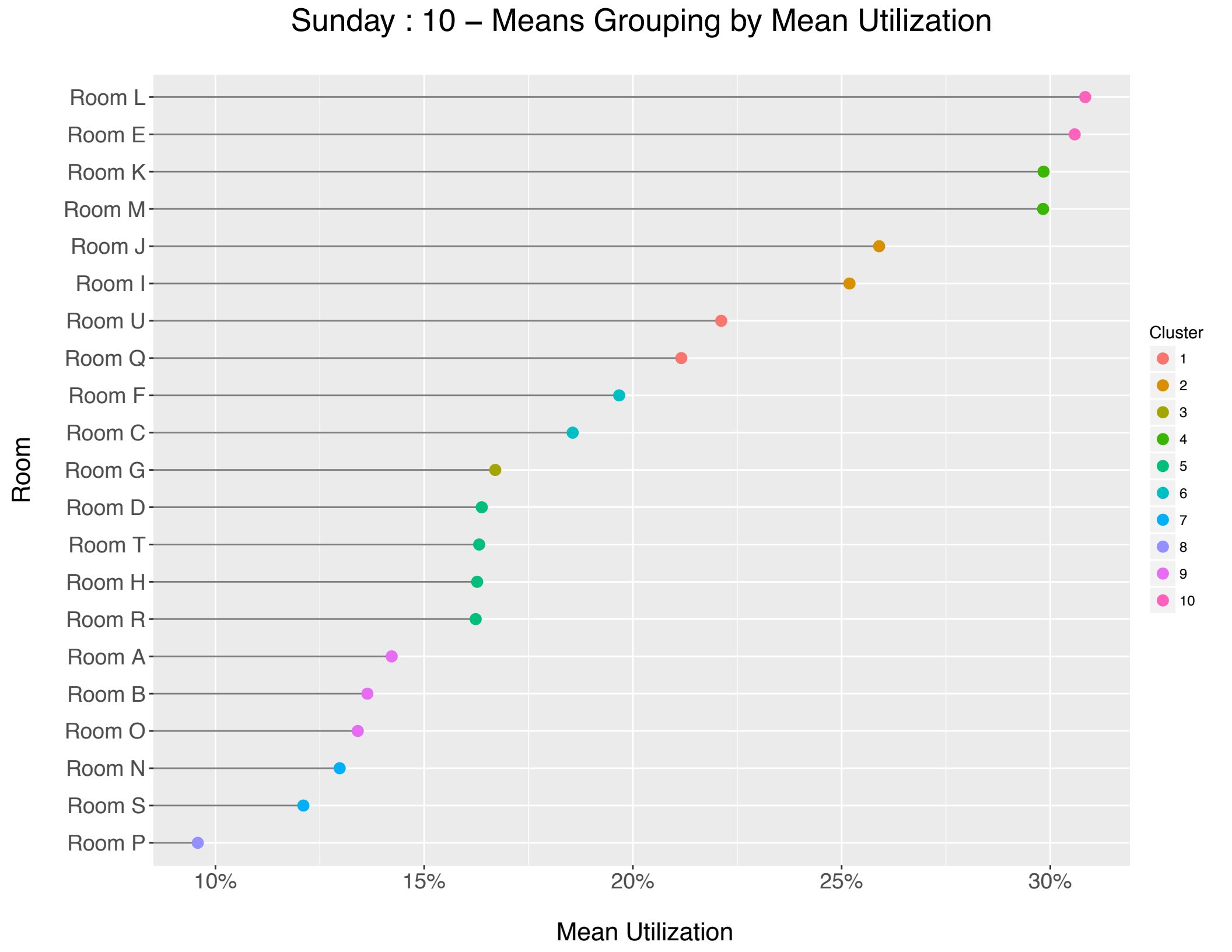

Sunday : 5 – Means Grouping by Mean Utilization
Room L
Room E
Room K
Room M
Room J
Room I
Room U
Room Q
Room F
Room C
Room G
Room D
Room T
Room H
Room R
Room A
Room B
Room O
Room N
Room S
Room P
Room
10%
15%
20%
25%
30%
Mean Utilization
Cluster
1
2
3
4
5

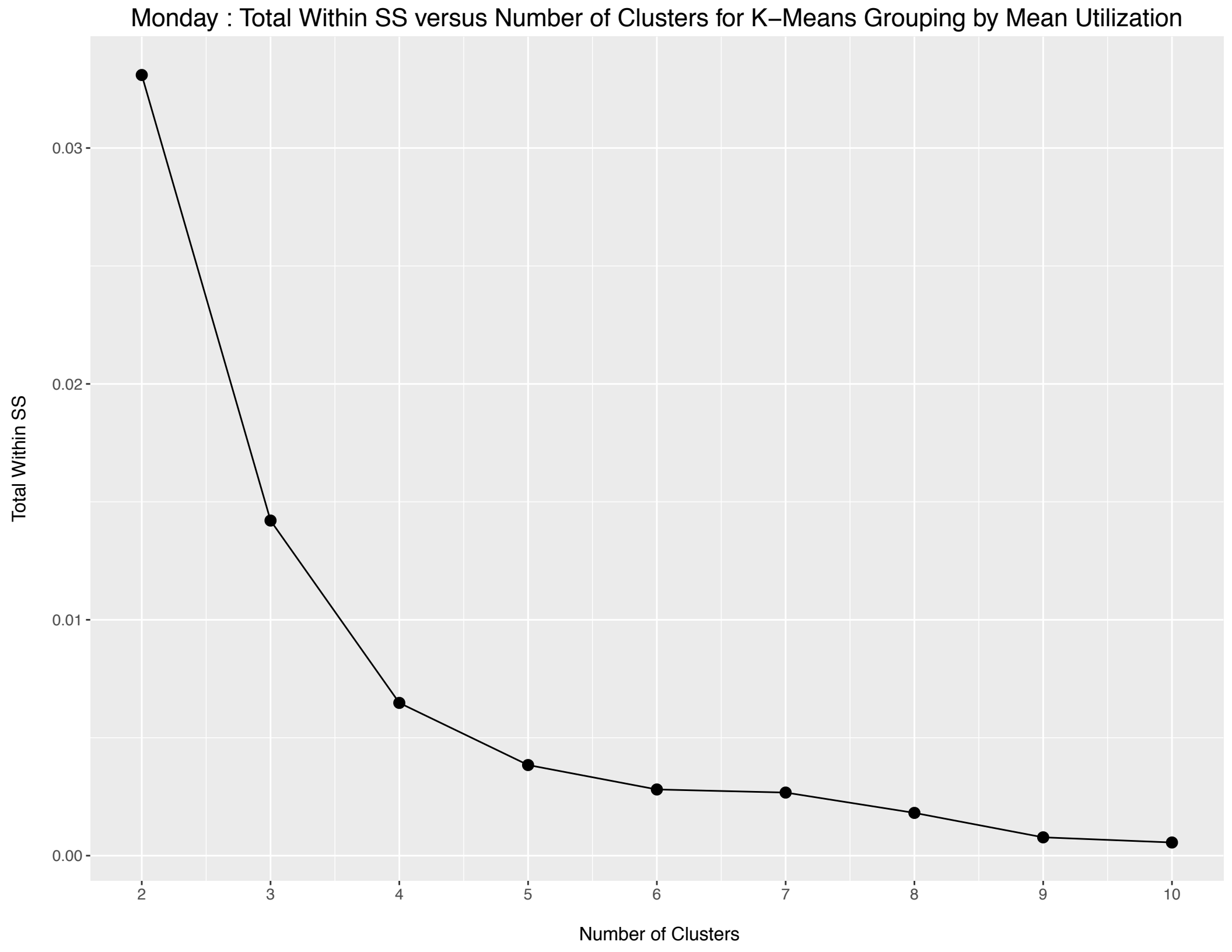

Sunday : 6 – Means Grouping by Mean Utilization
Room L
Room E
Room K
Room M
Room J
Room I
Room U
Room Q
Room F
Room C
Room G
Room D
Room T
Room H
Room R
Room A
Room B
Room O
Room N
Room S
Room P
Room
10%
15%
20%
25%
30%
Mean Utilization
Cluster
1
2
3
4
5
6

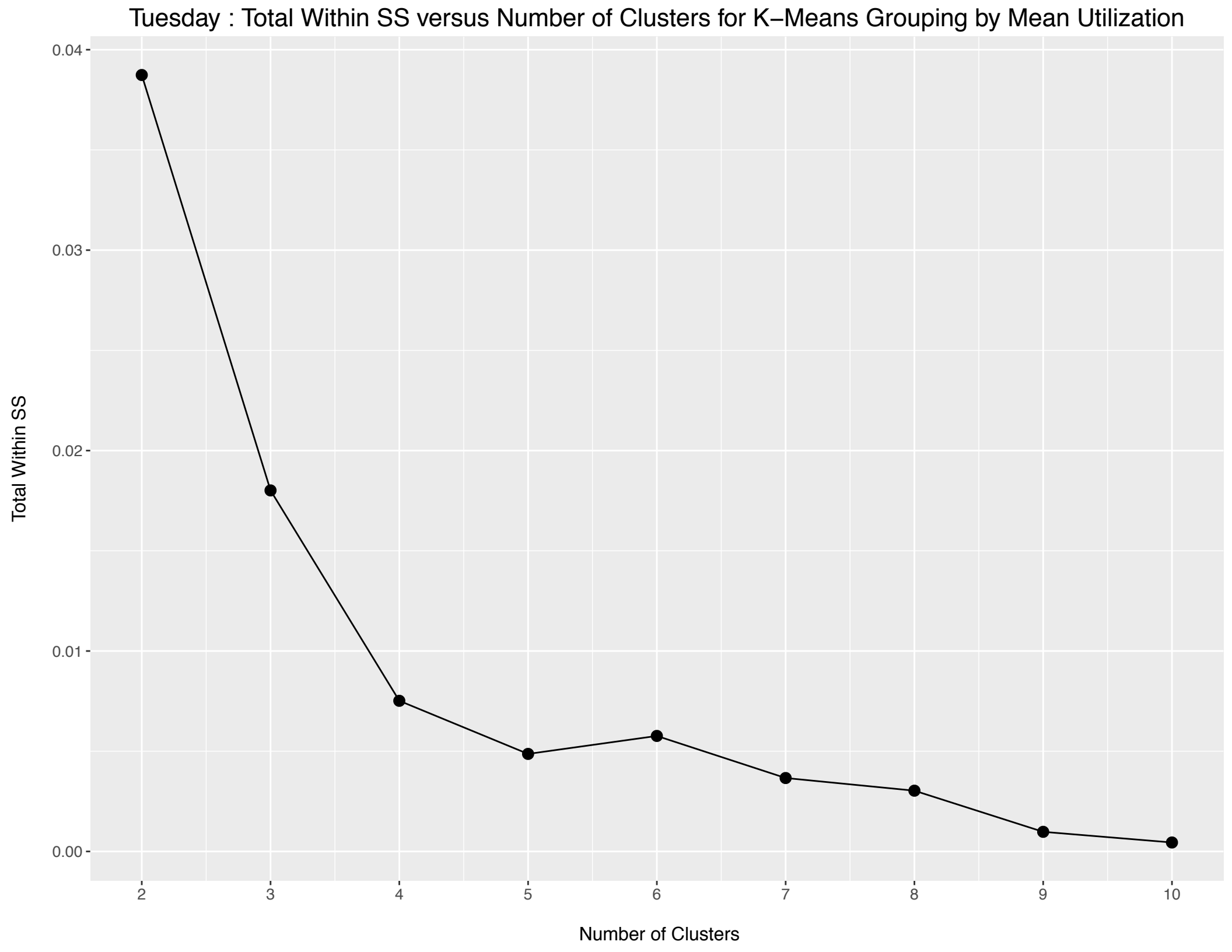

Sunday : 7 – Means Grouping by Mean Utilization
Room L
Room E
Room K
Room M
Room J
Room I
Room U
Room Q
Room F
Room C
Room G
Room D
Room T
Room H
Room R
Room A
Room B
Room O
Room N
Room S
Room P
Room
10%
15%
20%
25%
30%
Mean Utilization
Cluster
1
2
3
4
5
6
7

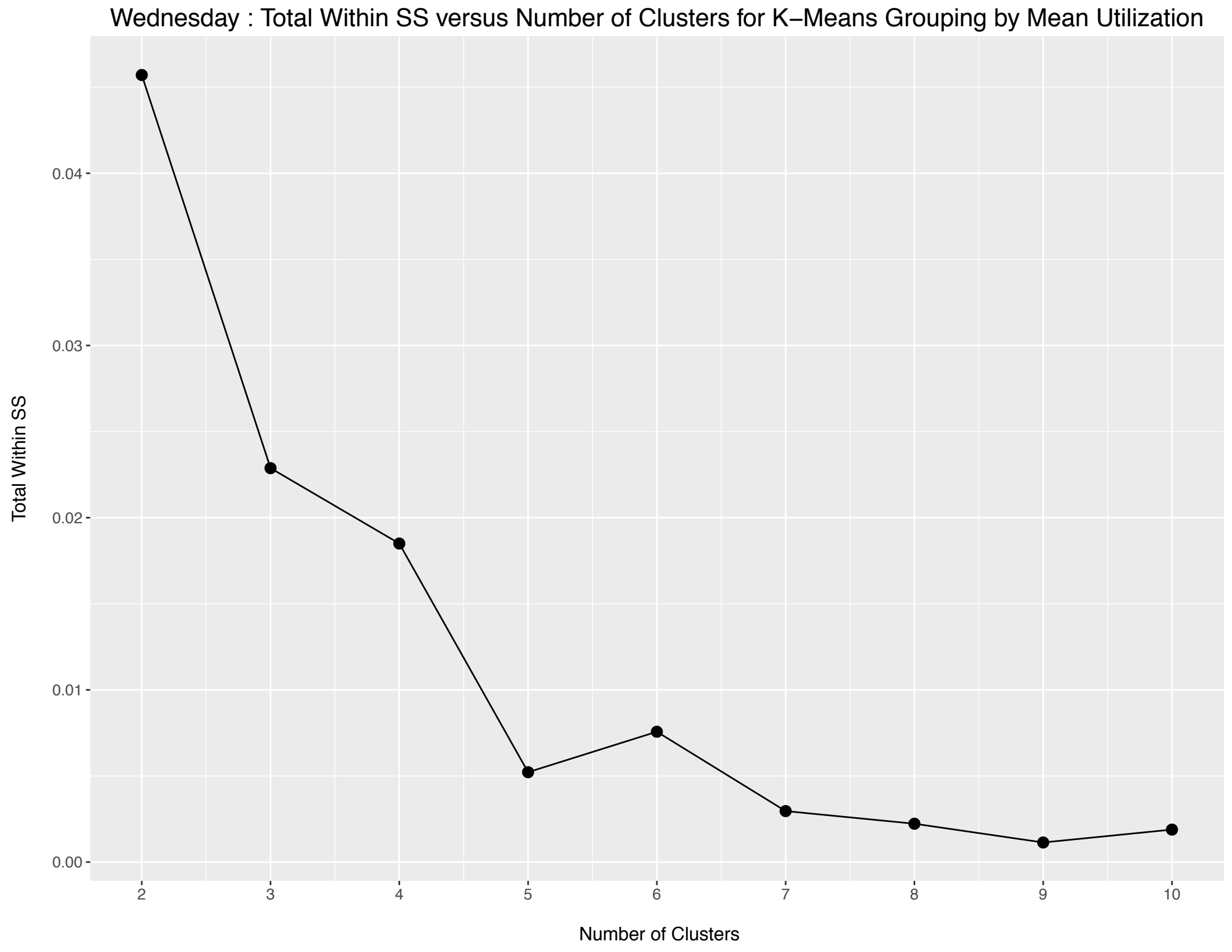

Sunday : 8 – Means Grouping by Mean Utilization
Room L
Room E
Room K
Room M
Room J
Room I
Room U
Room Q
Room F
Room C
Room G
Room D
Room T
Room H
Room R
Room A
Room B
Room O
Room N
Room S
Room P
Room
10%
15%
20%
25%
30%
Mean Utilization
Cluster
1
2
3
4
5
6
7
8

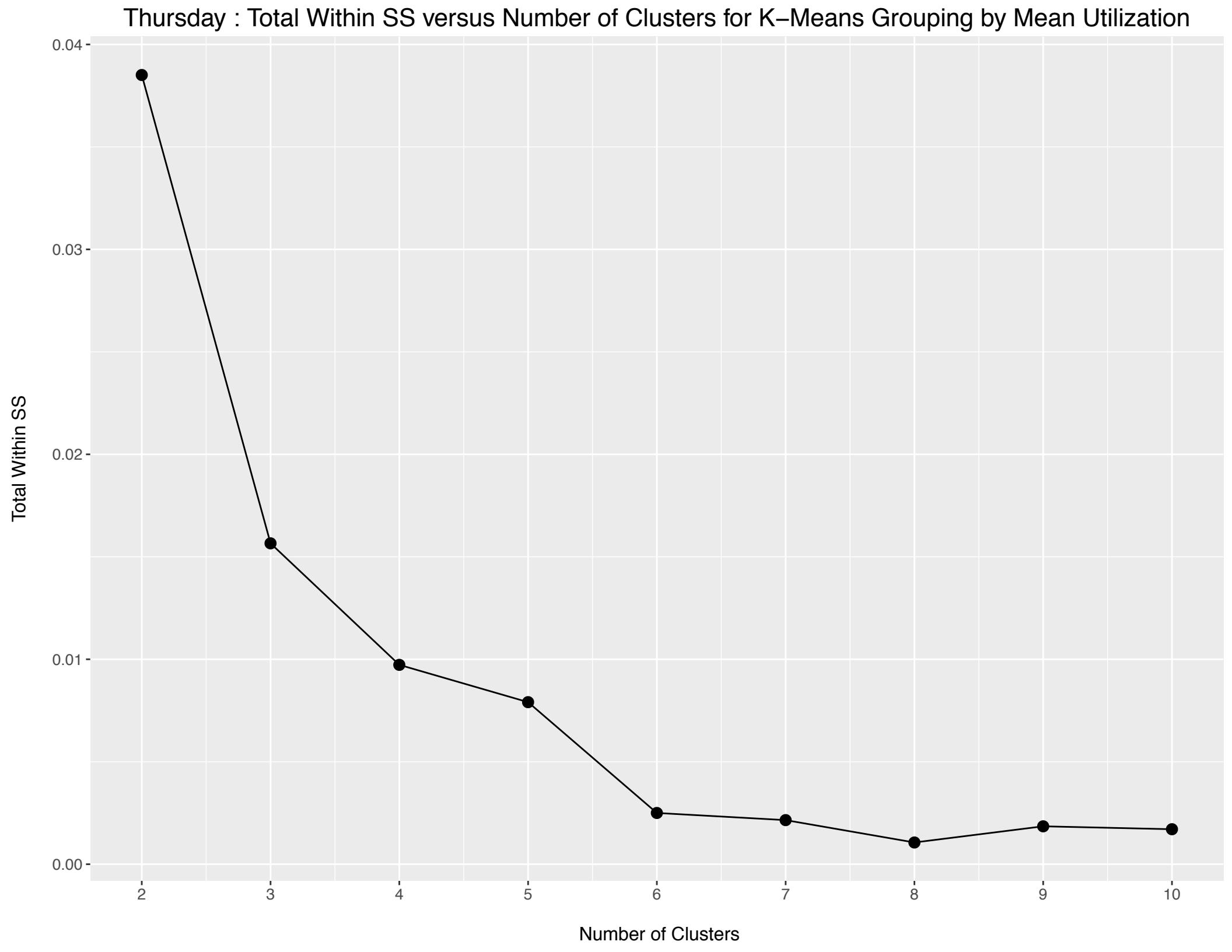

Sunday : 9 – Means Grouping by Mean Utilization
Room L
Room E
Room K
Room M
Room J
Room I
Room U
Room Q
Room F
Room C
Room G
Room D
Room T
Room H
Room R
Room A
Room B
Room O
Room N
Room S
Room P
Room
10%
15%
20%
25%
30%
Mean Utilization
Cluster
1
2
3
4
5
6
7
8
9

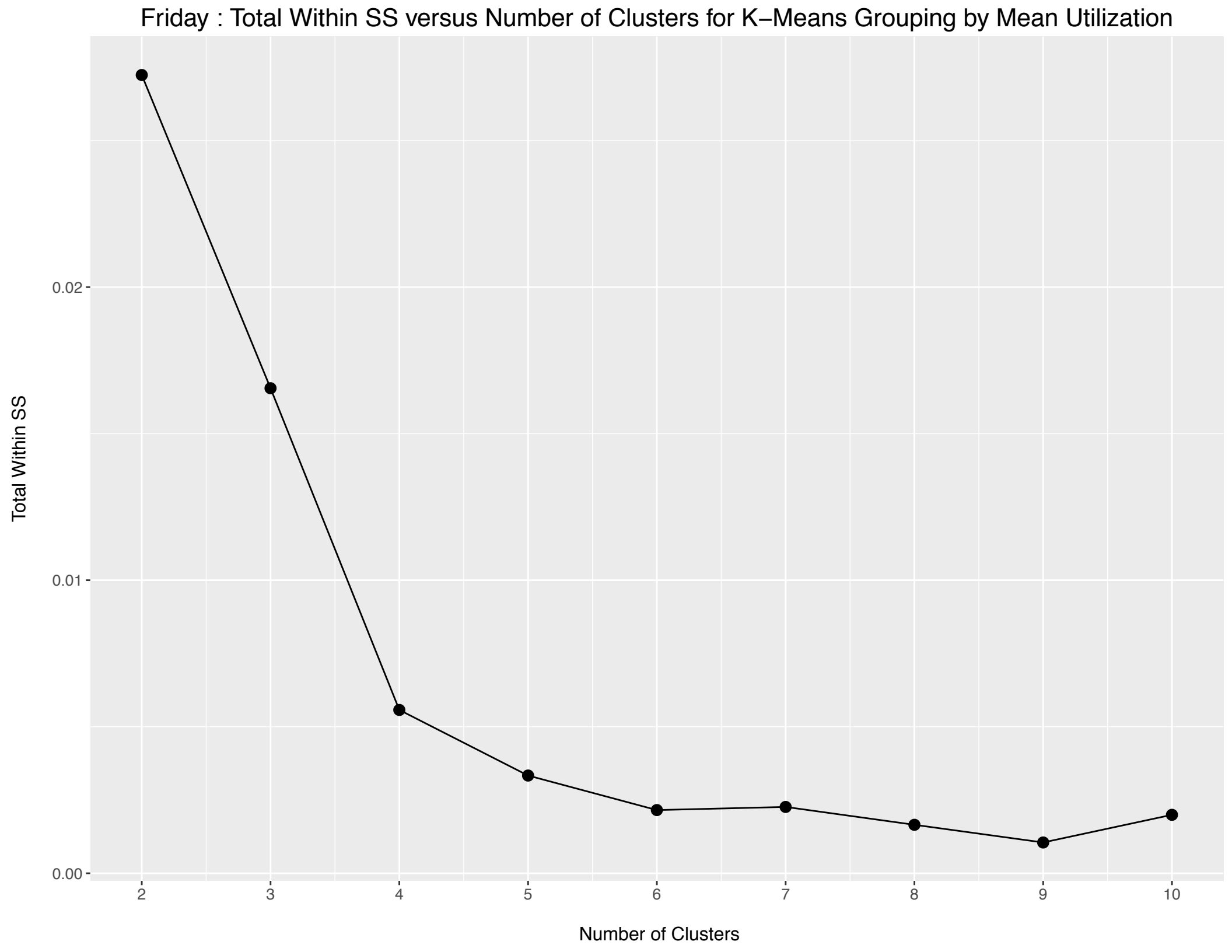

Sunday : 10 – Means Grouping by Mean Utilization
Room L
Room E
Room K
Room M
Room J
Room I
Room U
Room Q
Room F
Room C
Room G
Room D
Room T
Room H
Room R
Room A
Room B
Room O
Room N
Room S
Room P
Room
10%
15%
20%
25%
30%
Mean Utilization
Cluster
1
2
3
4
5
6
7
8
9
10

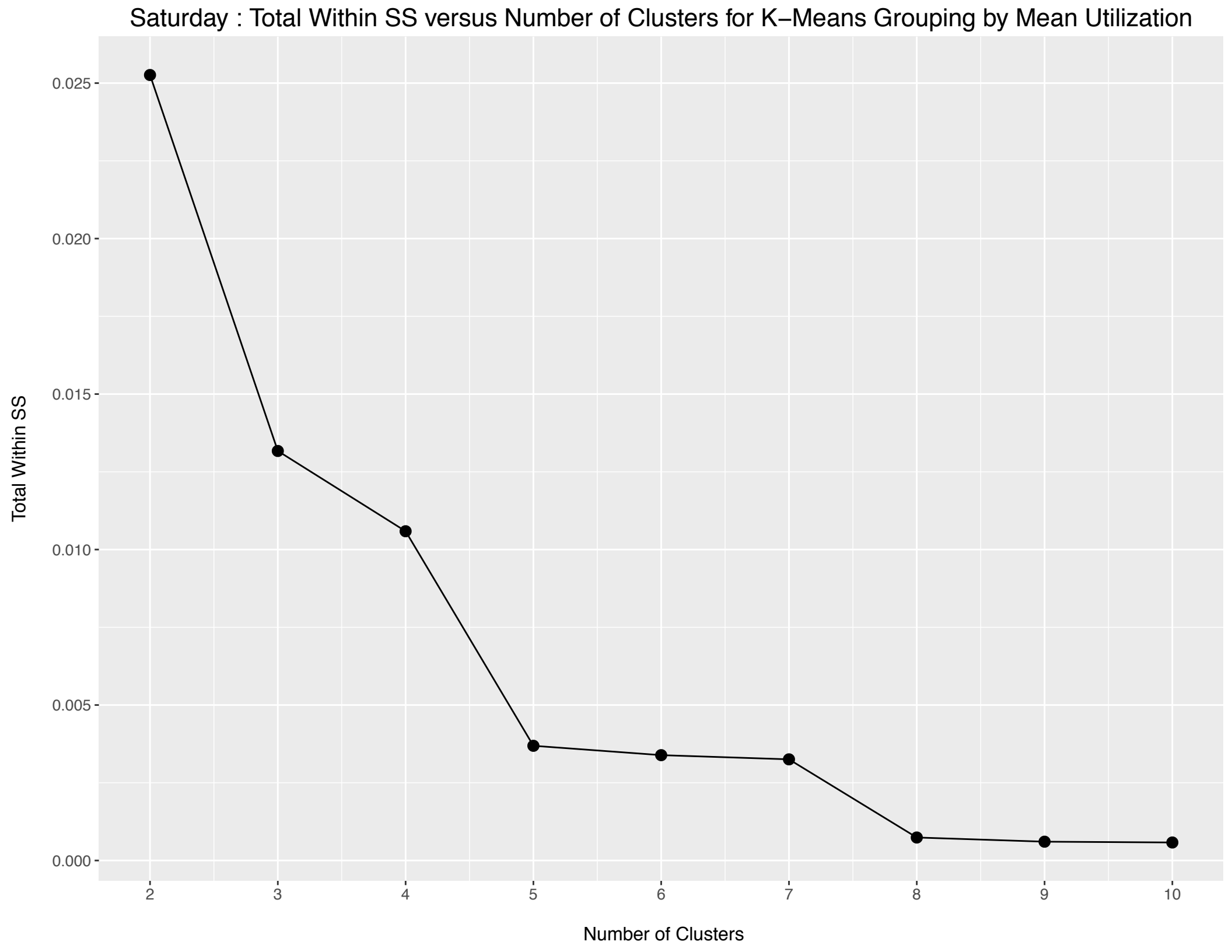

Monday : Total Within SS versus Number of Clusters for K–Means Grouping by Mean Utilization
Total Within SS
0.03
0.02
0.01
0.00
2
3
4
5
6
7
8
9
10
Number of Clusters

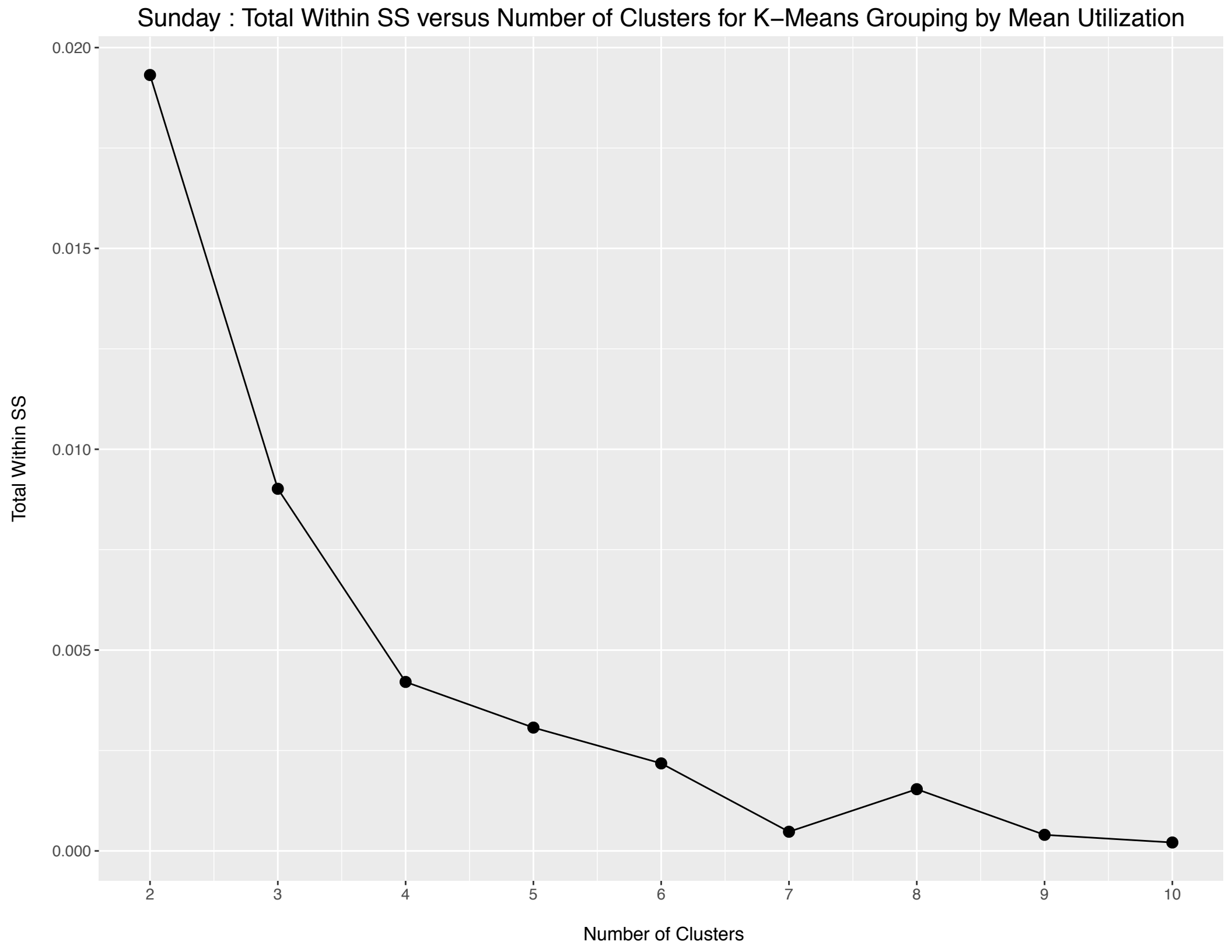

Tuesday : Total Within SS versus Number of Clusters for K–Means Grouping by Mean Utilization
Total Within SS
0.04
0.03
0.02
0.01
0.00
2
3
4
5
6
7
8
9
10
Number of Clusters


Wednesday : Total Within SS versus Number of Clusters for K–Means Grouping by Mean Utilization
Total Within SS
0.04
0.03
0.02
0.01
0.00
2
3
4
5
6
7
8
9
10
Number of Clusters

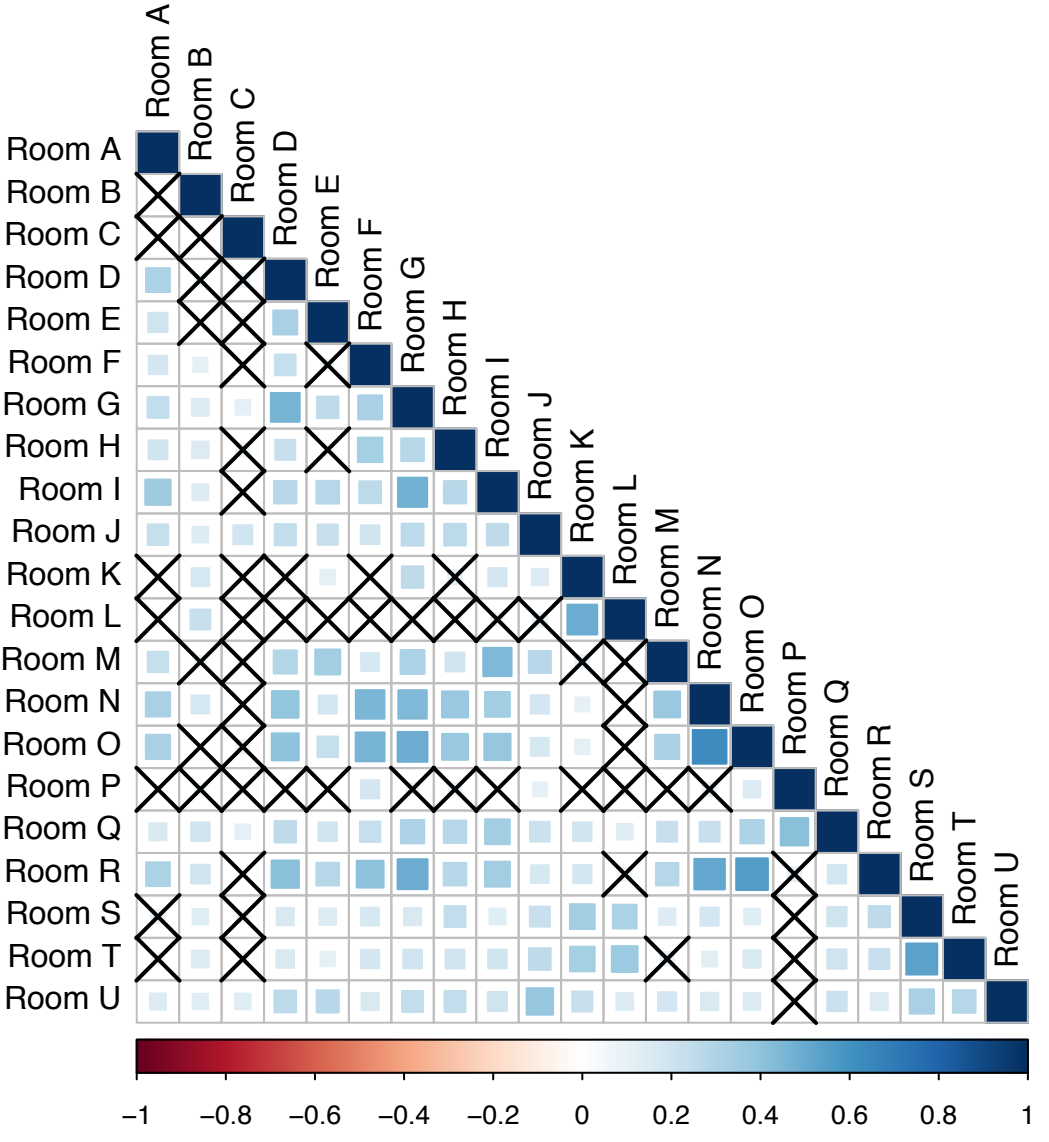

Thursday : Total Within SS versus Number of Clusters for K–Means Grouping by Mean Utilization
Total Within SS
0.04
0.03
0.02
0.01
0.00
2
3
4
5
6
7
8
9
10
Number of Clusters


Friday : Total Within SS versus Number of Clusters for K–Means Grouping by Mean Utilization
Total Within SS
0.02
0.01
0.00
2
3
4
5
6
7
8
9
10
Number of Clusters

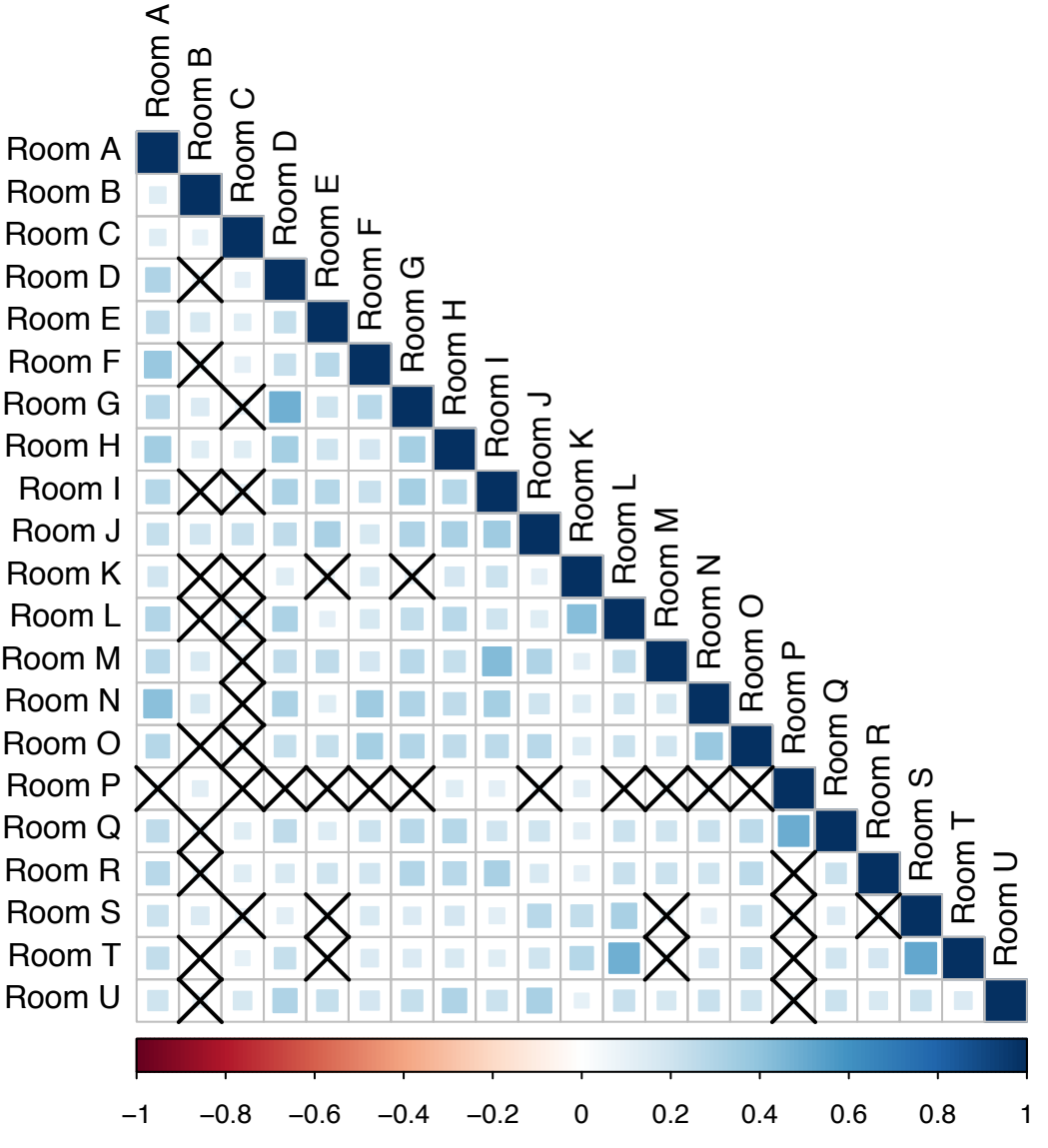

Saturday : Total Within SS versus Number of Clusters for K–Means Grouping by Mean Utilization
Total Within SS
0.025
0.020
0.015
0.010
0.005
0.000
2
3
4
5
6
7
8
9
10
Number of Clusters


Sunday : Total Within SS versus Number of Clusters for K–Means Grouping by Mean Utilization
Total Within SS
0.020
0.015
0.010
0.005
0.000
2
3
4
5
6
7
8
9
10
Number of Clusters

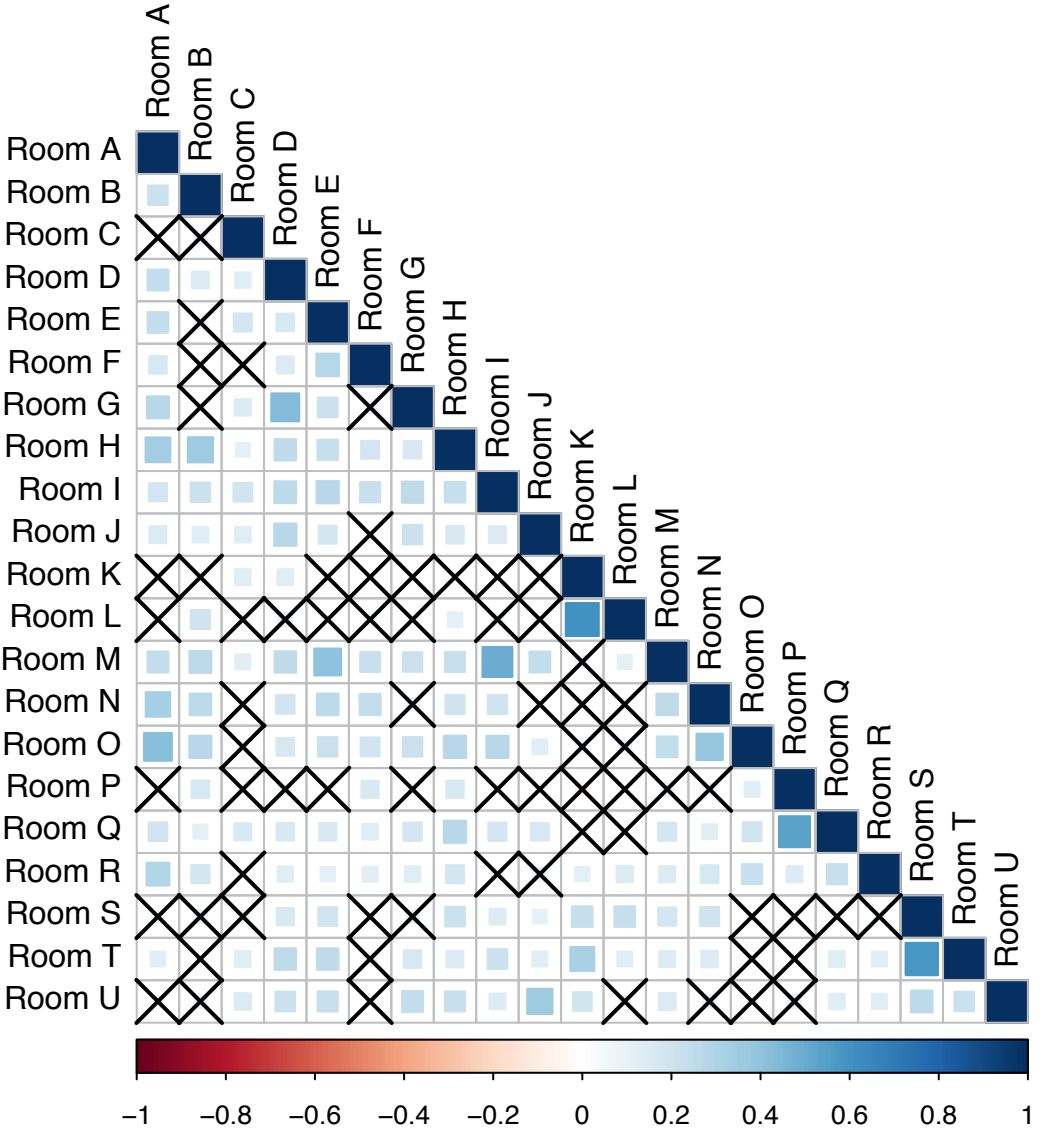
Correlation Matrix of Utilization by Year: 2009



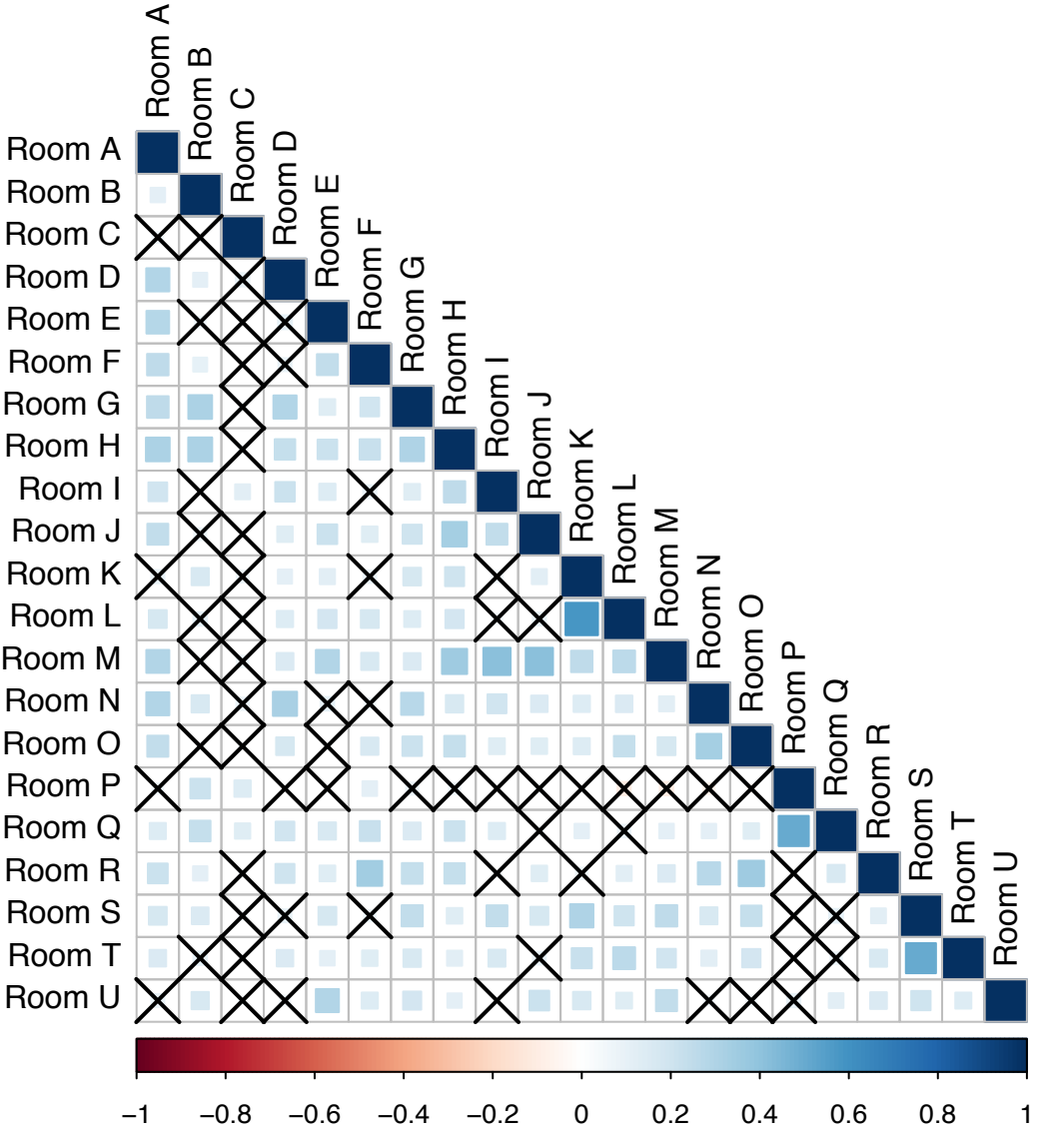
Correlation Matrix of Utilization by Year: 2010



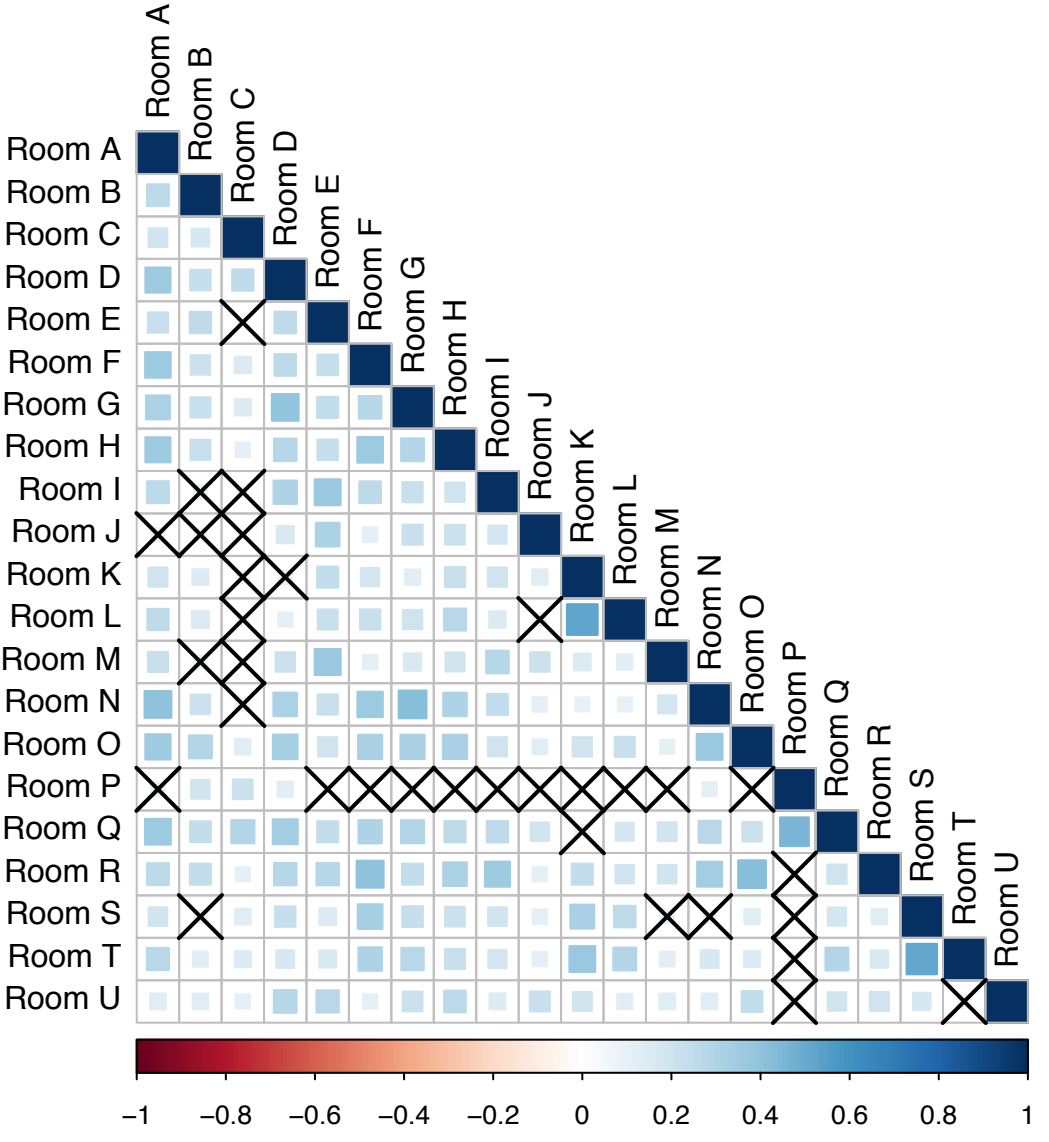
Correlation Matrix of Utilization by Year: 2011



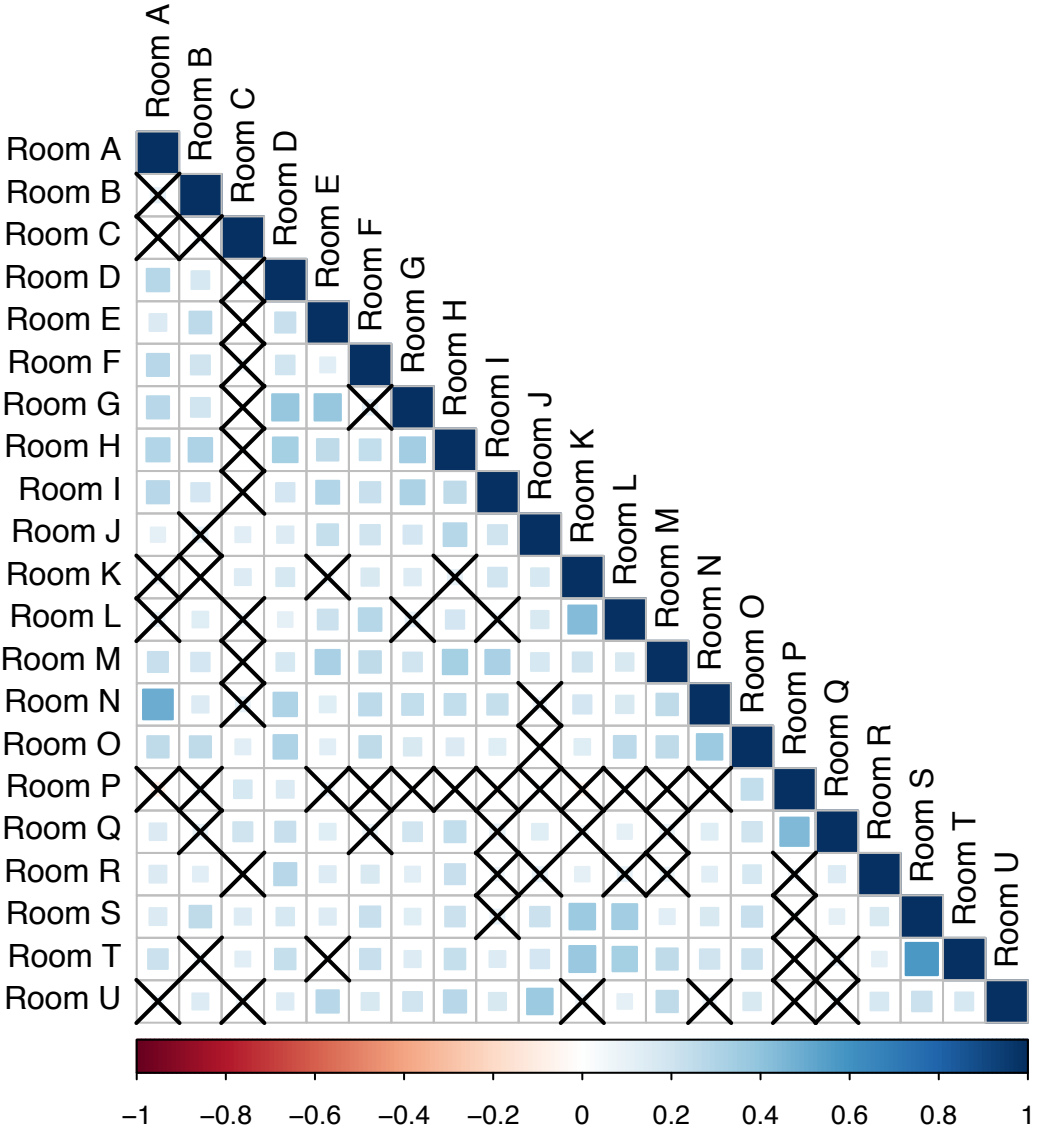
Correlation Matrix of Utilization by Year: 2012



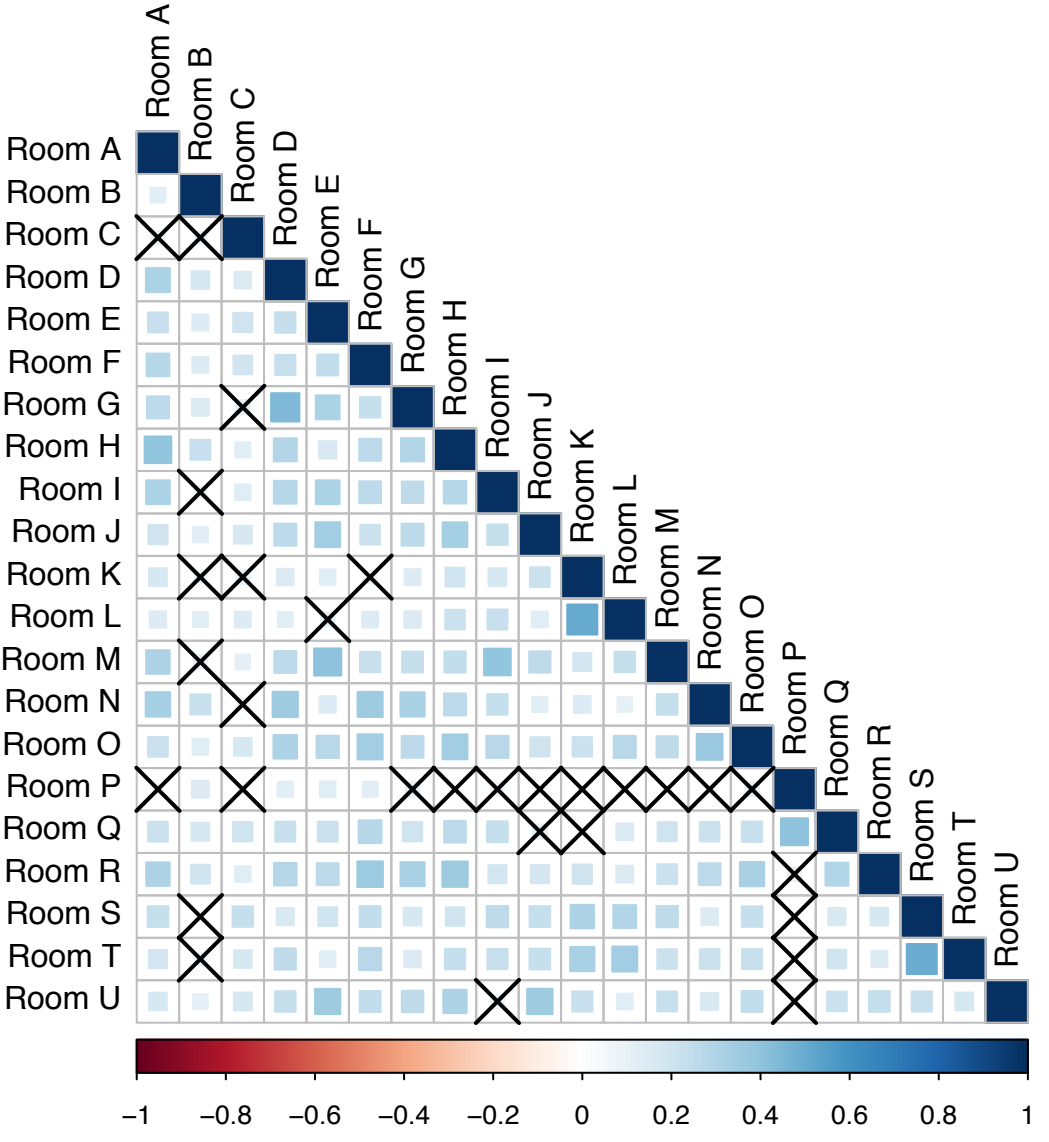
Correlation Matrix of Utilization by Year: 2013



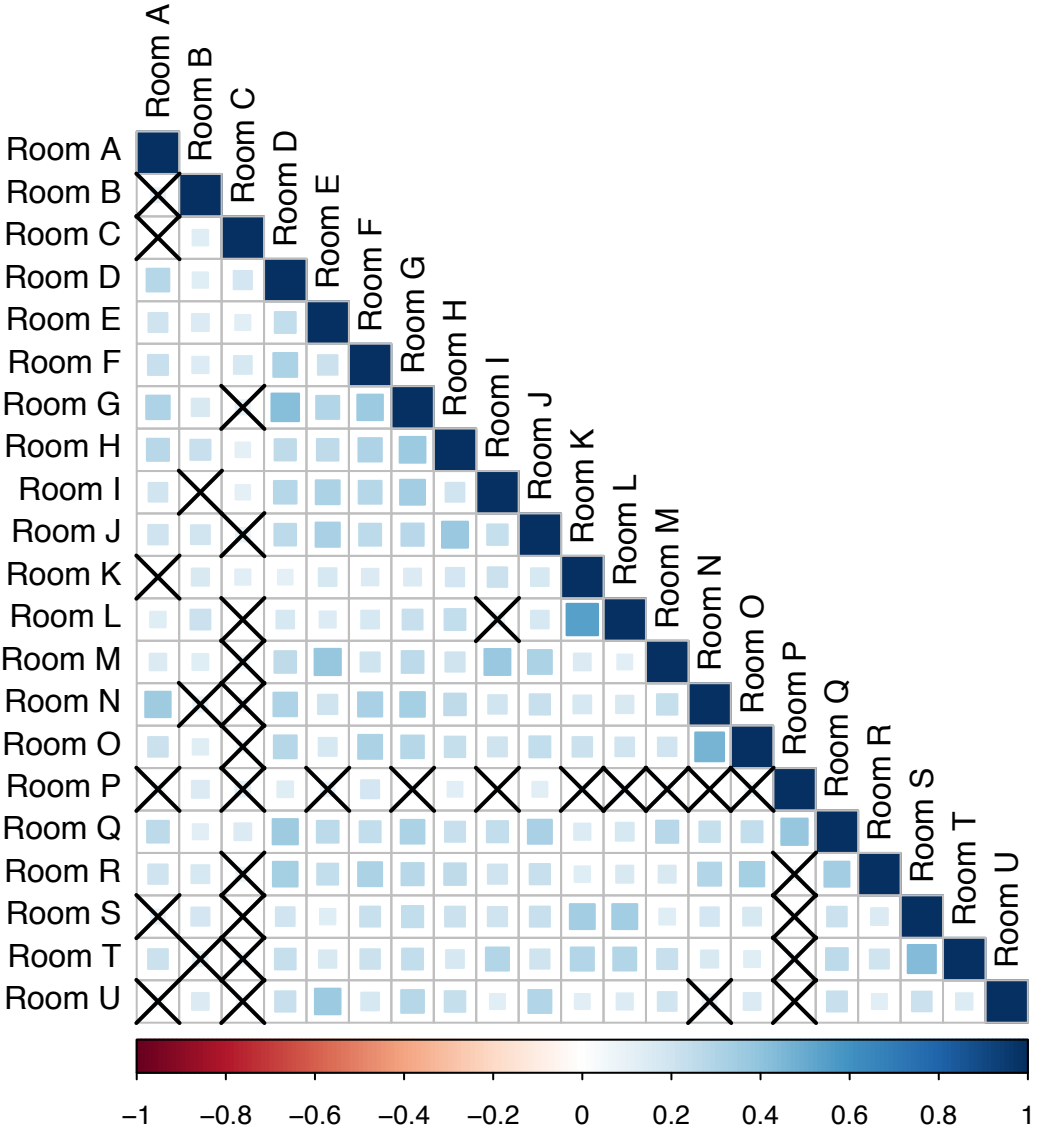
Correlation Matrix of Utilization by Year: 2014



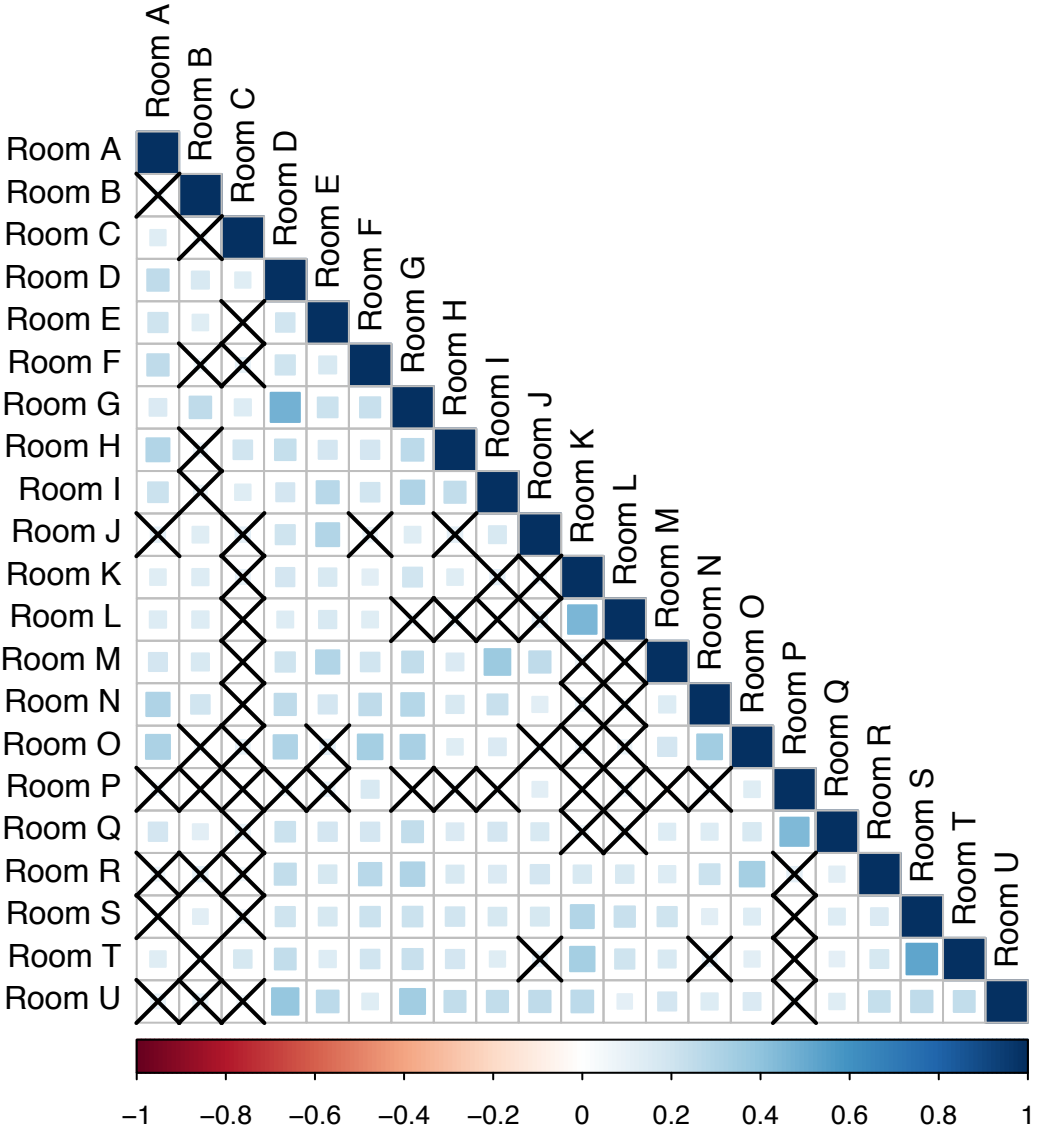
Correlation Matrix of Utilization by Day: Tuesday



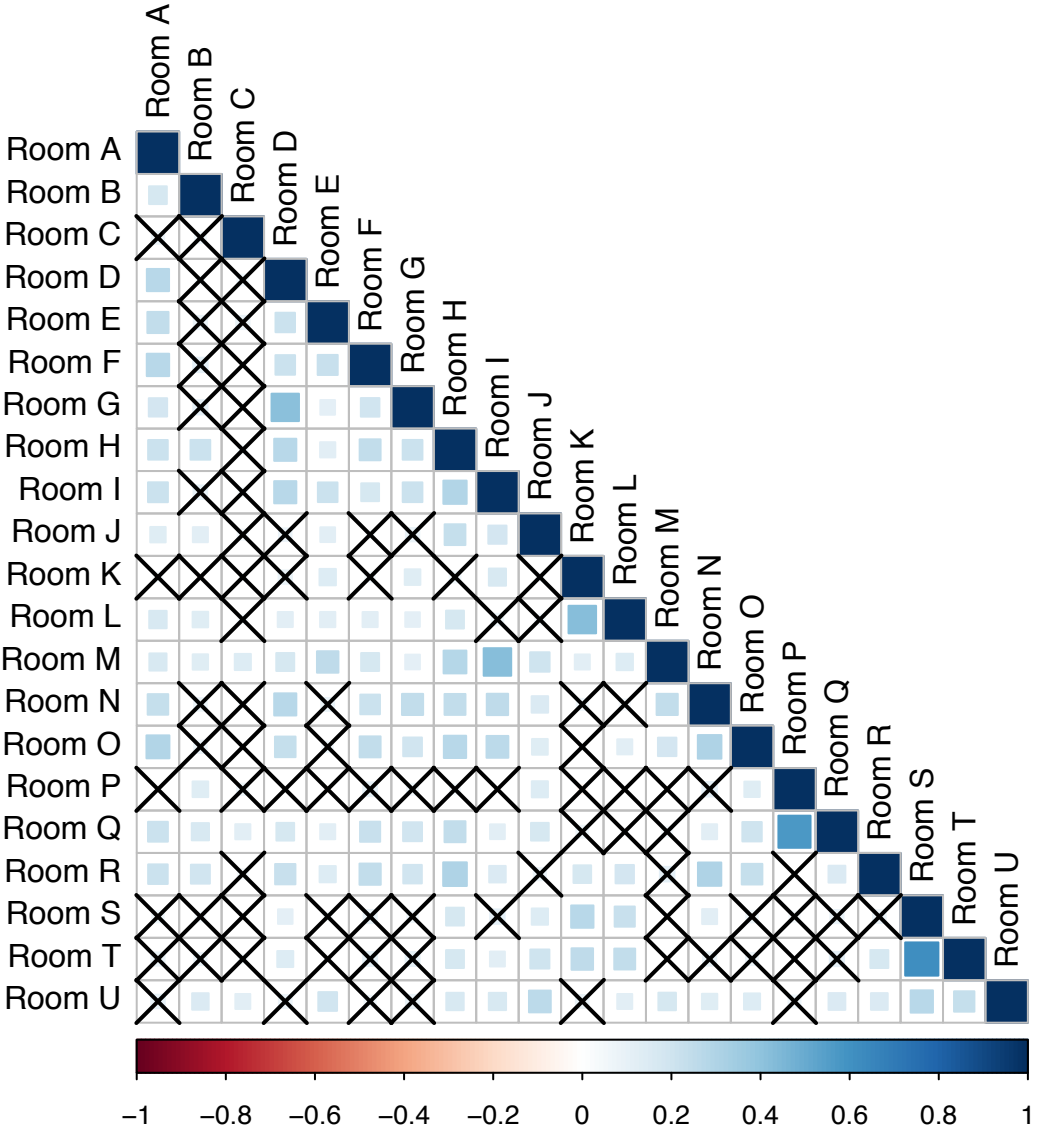
Correlation Matrix of Utilization by Day: Wednesday



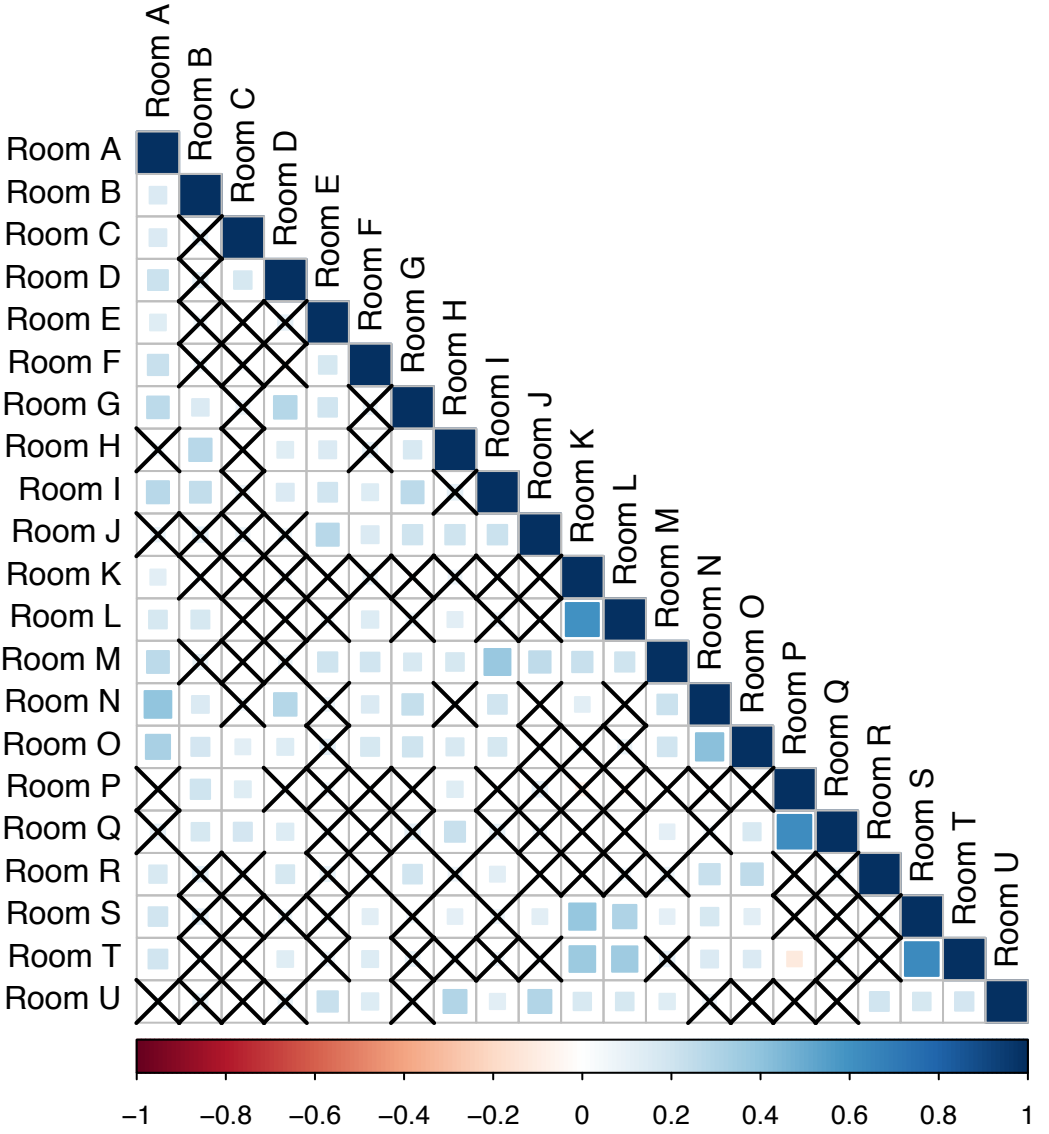
Correlation Matrix of Utilization by Day: Thursday



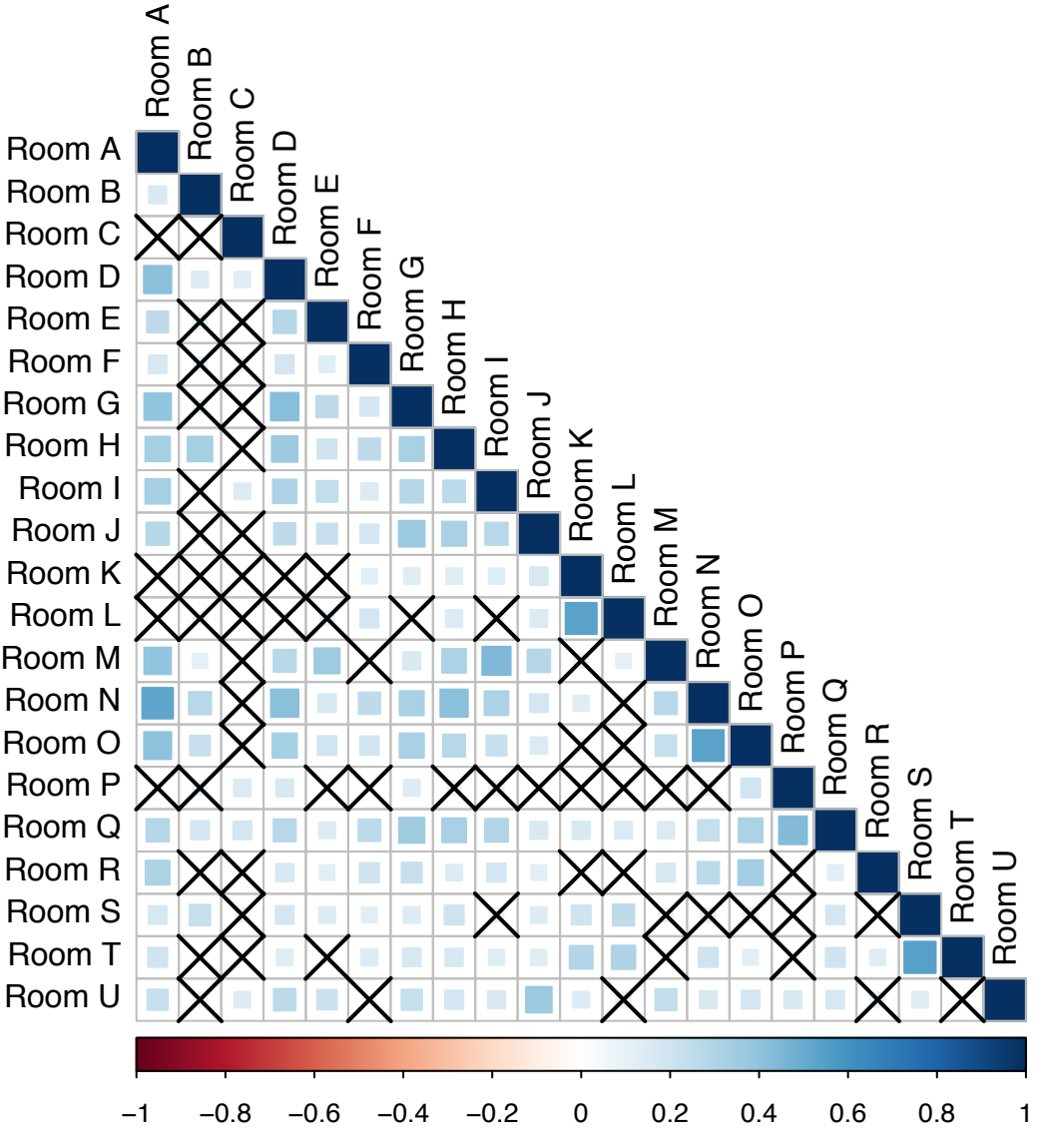
Correlation Matrix of Utilization by Day: Friday



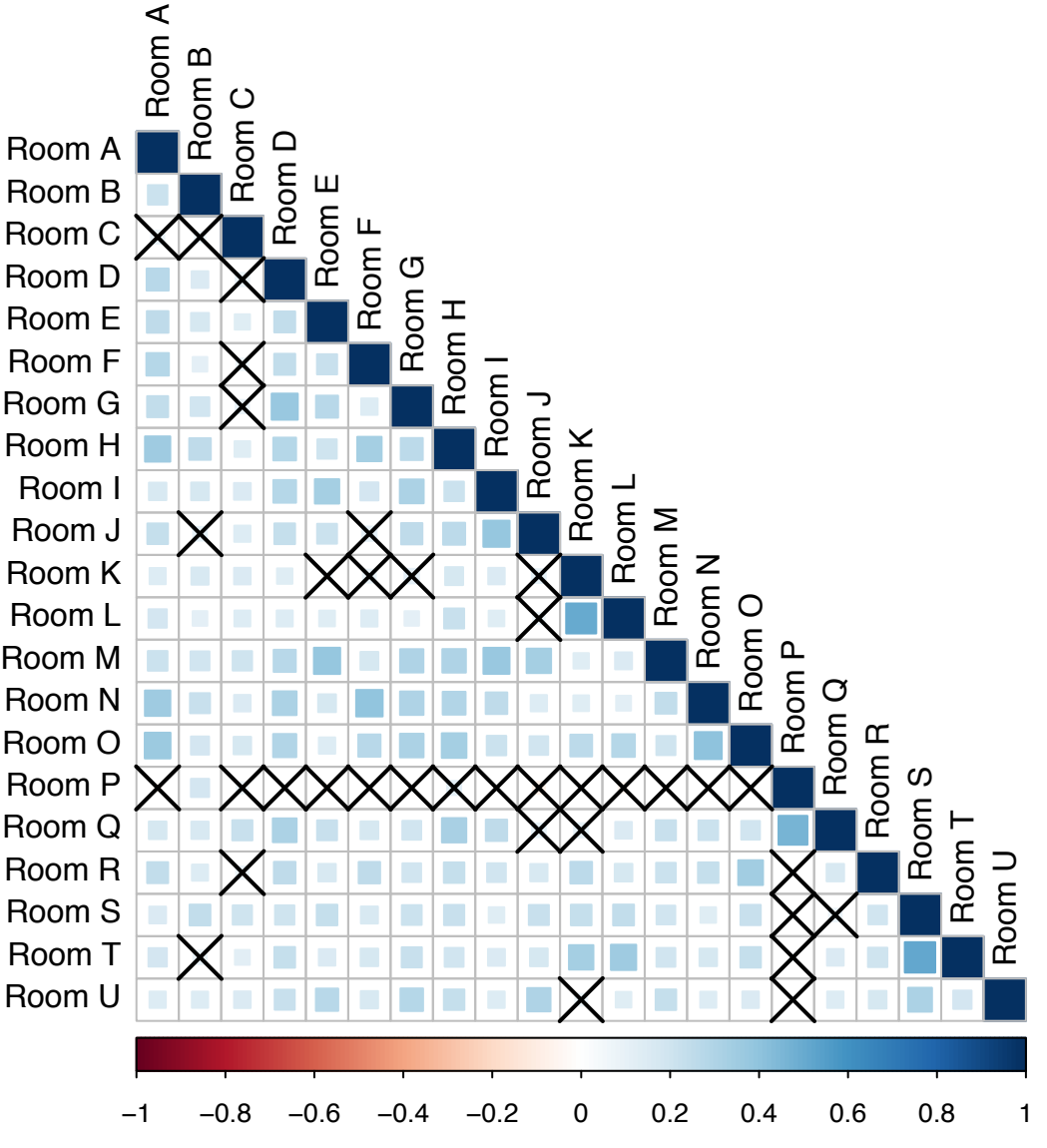
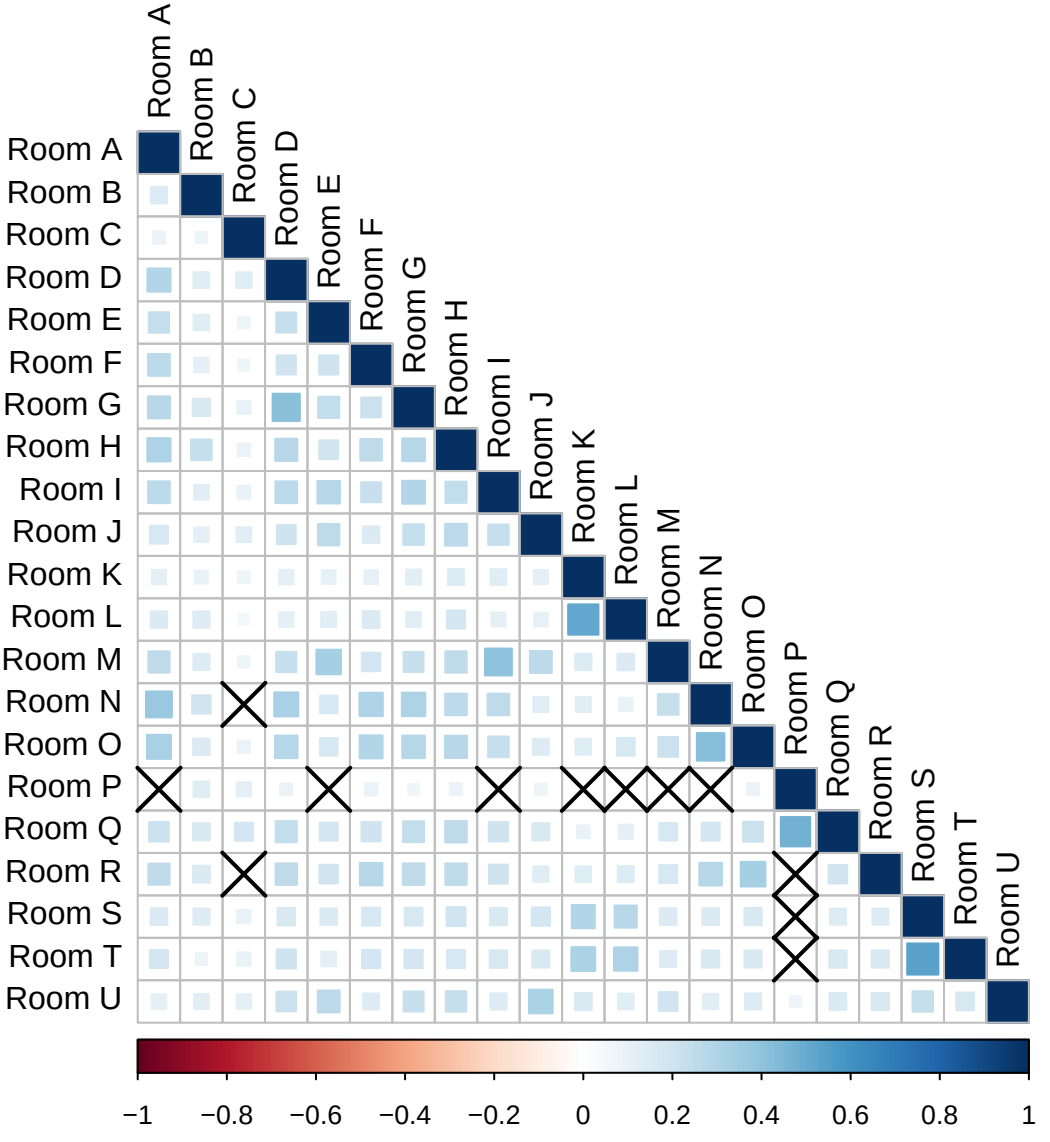
Correlation Matrix of Utilization by Day: Saturday



Correlation Matrix of Utilization by Day: Sunday



Correlation Matrix of Utilization by Day: Monday



Correlation Matrix of Utilization