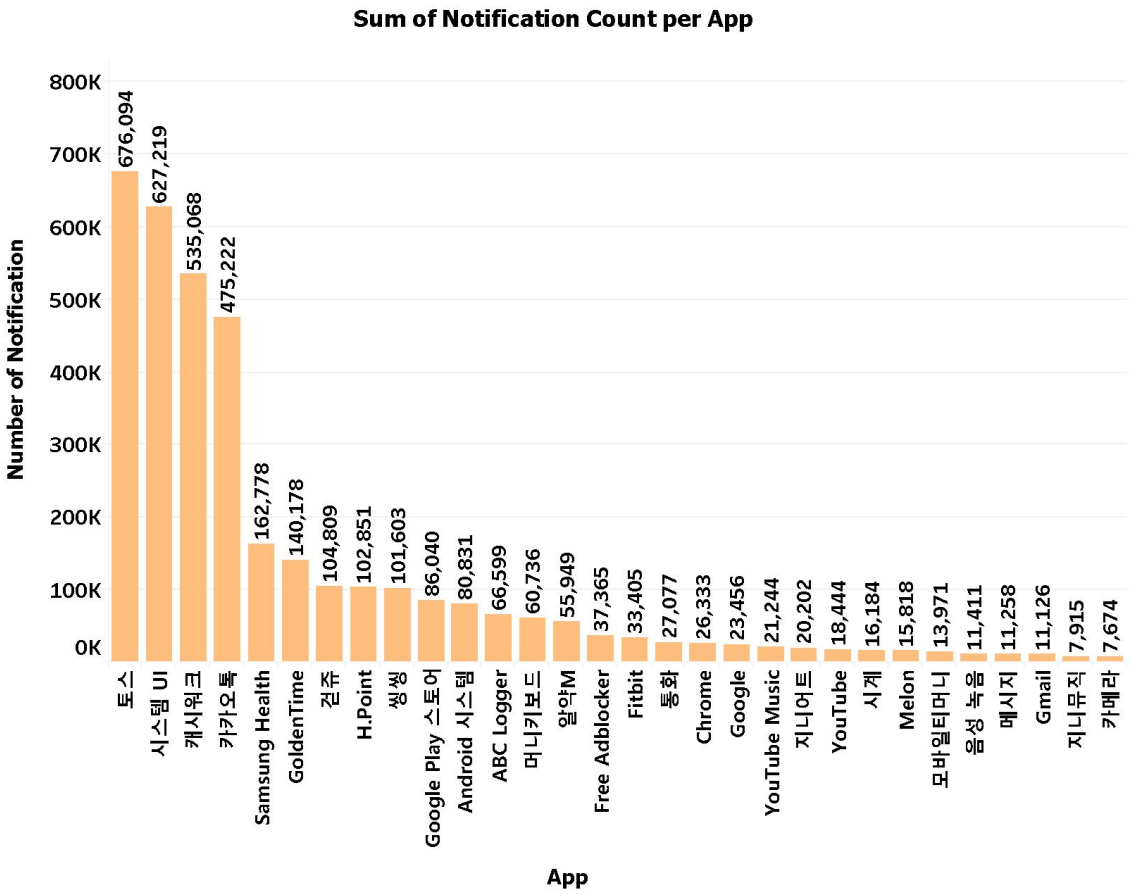
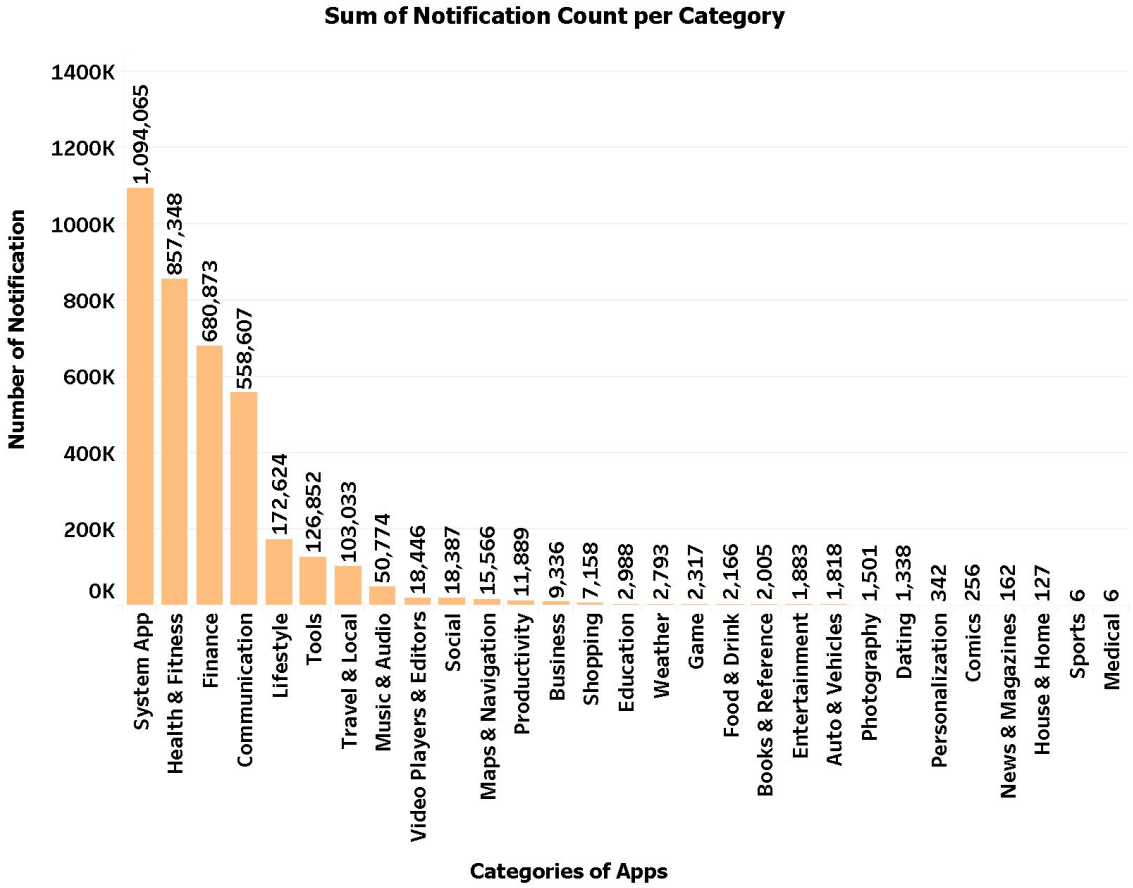
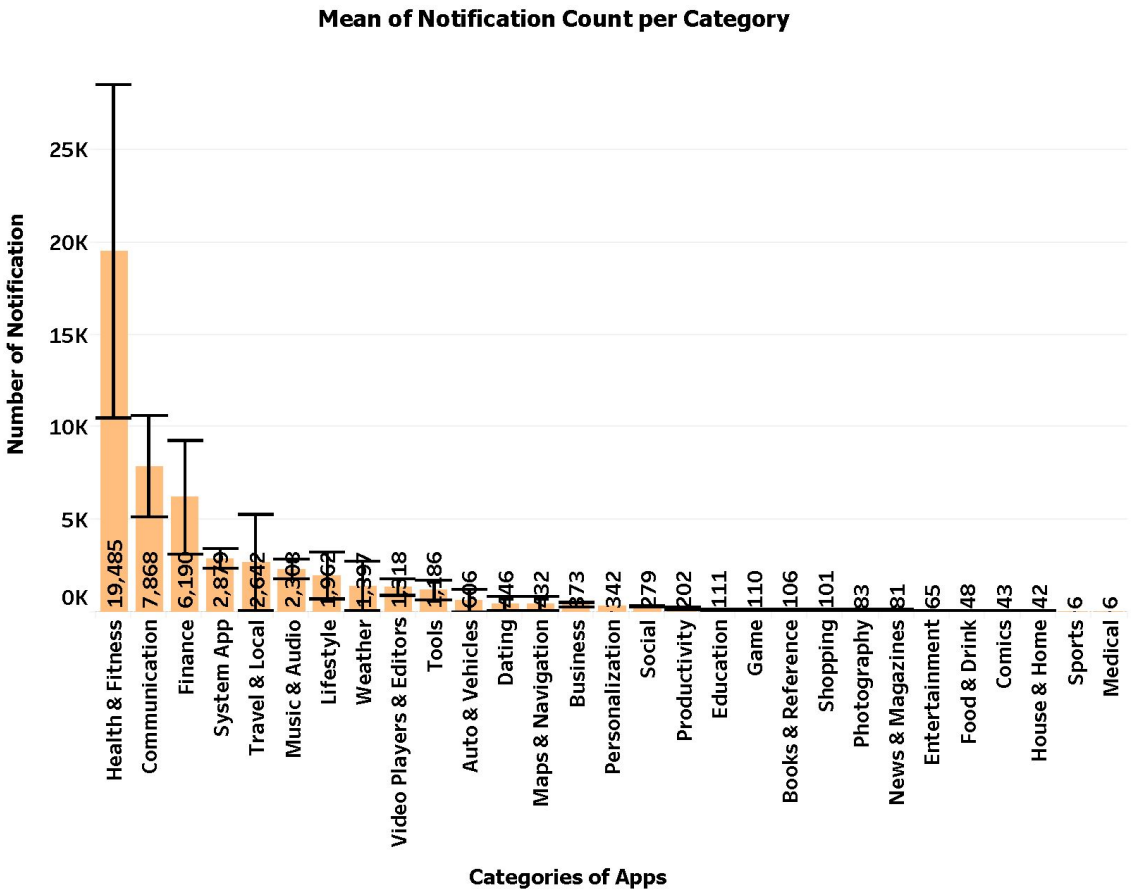
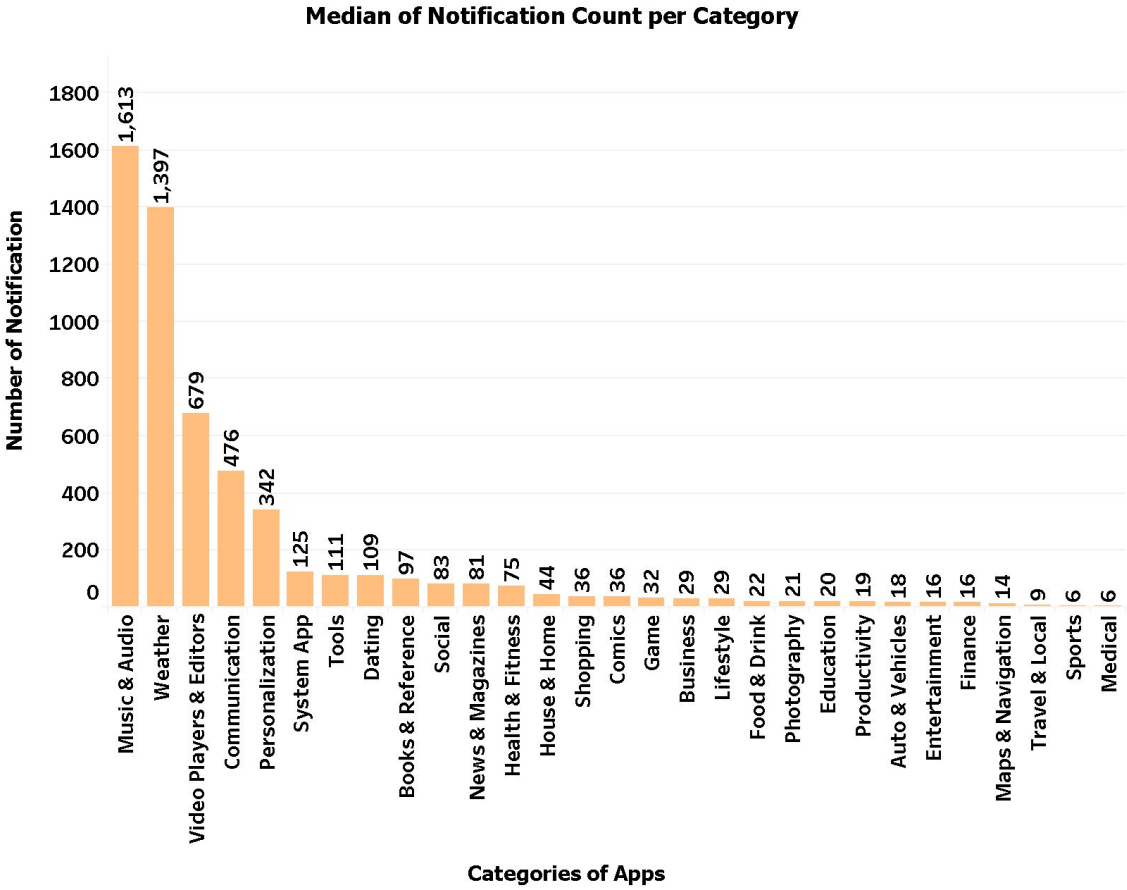
Notification

- Notification 앱 별 (packagename)로 횟수가 얼마나 많은지
  - 시각화
    - 그래프 1: 전체인원에 대해서 x축 앱, y축이 noti 횟수
    - 그래프 2: x축 앱, y축이 noti 횟수, 점 (tester 1~20) 수염
    - **그래프 3: x축 앱, y축이 noti 횟수, tester 1~20 누적 막대그래프 → 테블로로 써보면 좋을 듯**
    - 그래프 4: x축 tester, y축이 noti 횟수, 점 (app) 수염
    - **그래프 5: x축 tester, y축이 noti 횟수, app이 누적 막대그래프 → 테블로로 써보면 좋을 듯**
  - **Notification 횟수에 대한 통계치 (raw data 구글 시트에 추가)**
    - **전체인원**
      - **카테고리 별 합계, 카테고리 평균, 최소, 최대, 중앙값 시트 1**
        - **1열 카테고리명**
        - **2열 카테고리별 합계**
        - **3열 카테고리별 평균**
        - **4열 카테고리별 최소**
        - **5열 카테고리별 최대**
        - **6열 카테고리별 중앙값**
      - **앱별 합계, 평균, 최소 (앱명), 최대 (앱명), 중앙값 시트 1**
        - **1열 카테고리명**
        - **2열 앱명**
        - **3열 앱명별 합계**
        - **3열 앱명별 평균**
        - **4열 앱명별 최소**
        - **5열 앱명별 최대**
        - **6열 앱명별 중앙값**
    - 사용자 별
      - **카테고리별 합계, 평균, 최소, 최대, 중앙값 - 시트 2 - 22**
        - 위와 동일
      - **앱별 합계, 평균, 최소 (앱명), 최대 (앱명), 중앙값 - 시트 2 - 22**
        - 위와동일


Sum of Notification Count per App
Number of Notification
800K
700K
600K
500K
400K
300K
200K
100K
0K
676,094
627,219
535,068
475,222
162,778
140,178
104,809
102,851
101,603
86,040
80,831
66,599
60,736
55,949
37,365
33,405
27,077
26,333
23,456
21,244
20,202
18,444
16,184
15,818
13,971
11,411
11,258
11,126
7,915
7,674
토스
시스템 UI
캐시워크
카카오톡
Samsung Health
GoldenTime
걷쥬
H.Point
씽씽
Google Play 스토어
Android 시스템
ABC Logger
머니키보드
알약M
Free Adblocker
Fitbit
통화
Chrome
Google
YouTube Music
지니어트
YouTube
시계
Melon
모바일티머니
음성 녹음
메시지
Gmail
지니뮤직
카메라
App


Sum of Notification Count per Category
Number of Notification
1400K
1200K
1000K
800K
600K
400K
200K
0K
1,094,065
857,348
680,873
558,607
172,624
126,852
103,033
50,774
18,446
18,387
15,566
11,889
9,336
7,158
2,988
2,793
2,317
2,166
2,005
1,883
1,818
1,501
1,338
342
256
162
127
6
6
System App
Health & Fitness
Finance
Communication
Lifestyle
Tools
Travel & Local
Music & Audio
Video Players & Editors
Social
Maps & Navigation
Productivity
Business
Shopping
Education
Weather
Game
Food & Drink
Books & Reference
Entertainment
Auto & Vehicles
Photography
Dating
Personalization
Comics
News & Magazines
House & Home
Sports
Medical
Categories of Apps


Mean of Notification Count per Category
Number of Notification
25K
20K
15K
10K
5K
0K
19,485
7,868
6,190
2,879
2,642
2,308
1,964
1,397
1,318
1,186
606
446
432
373
342
279
202
111
110
106
101
83
81
65
48
43
42
6
6
Health & Fitness
Communication
Finance
System App
Travel & Local
Music & Audio
Lifestyle
Weather
Video Players & Editors
Tools
Auto & Vehicles
Dating
Maps & Navigation
Business
Personalization
Social
Productivity
Education
Game
Books & Reference
Shopping
Photography
News & Magazines
Entertainment
Food & Drink
Comics
House & Home
Sports
Medical
Categories of Apps

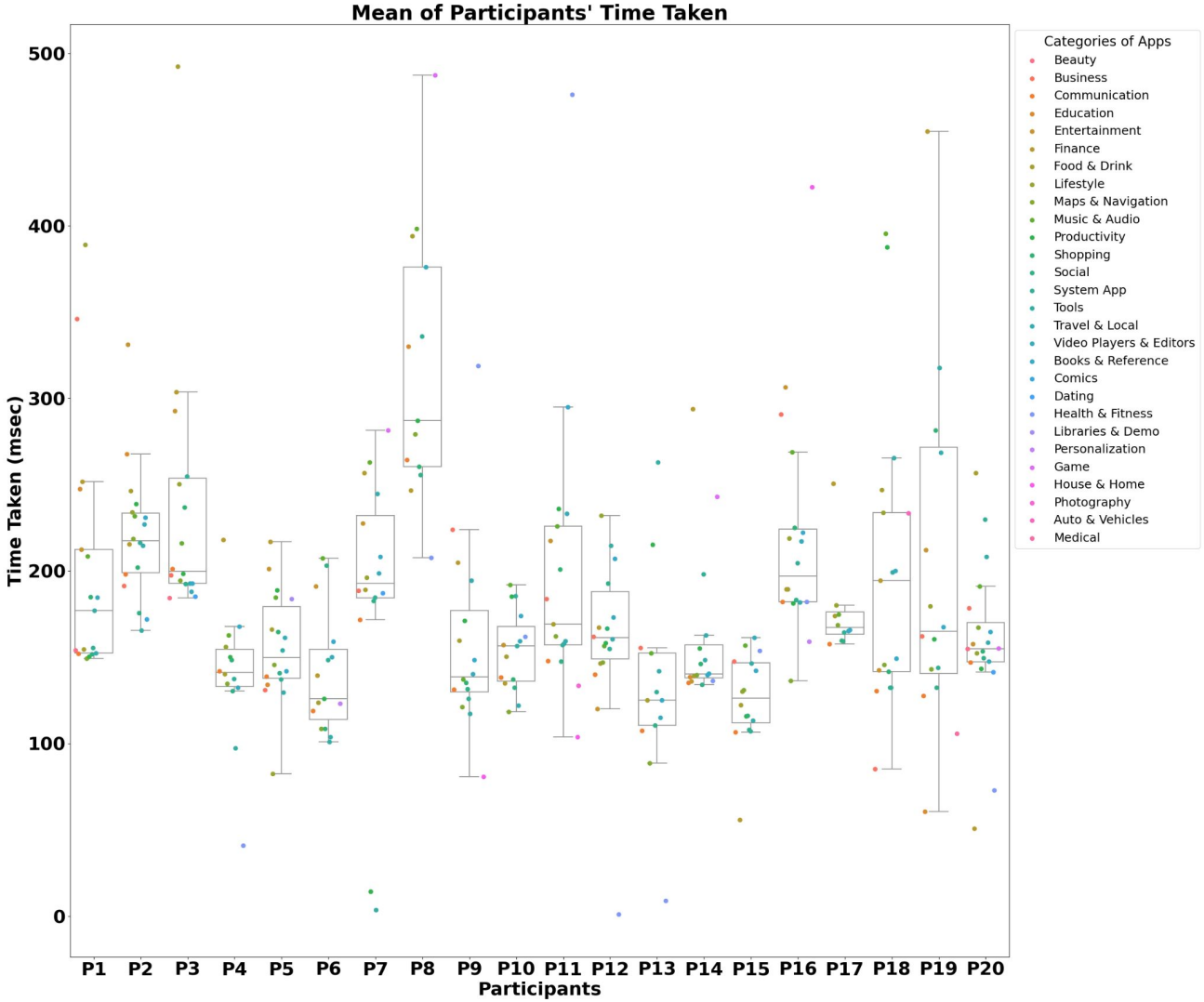

Median of Notification Count per Category
Number of Notification
1800
1600
1400
1200
1000
800
600
400
200
0
1,613
1,397
679
476
342
125
111
109
97
83
81
75
44
36
36
32
29
29
22
21
20
19
18
16
16
14
9
6
6
Music & Audio
Weather
Video Players & Editors
Communication
Personalization
System App
Tools
Dating
Books & Reference
Social
News & Magazines
Health & Fitness
House & Home
Shopping
Comics
Game
Business
Lifestyle
Food & Drink
Photography
Education
Productivity
Auto & Vehicles
Entertainment
Finance
Maps & Navigation
Travel & Local
Sports
Medical
Categories of Apps

해주실 것

- 전체 인원에 대해서 각 **카테고리 및 앱 별 typing letter 개수**에 대한 순위 막대 그래프
  - x축 카테고리, y축 typing letter 개수 합산, 평균, median -> 총 3개 그래프
    - 합산 = 전체 20명 인원에 대한 각 카테고리 별 typing letter 개수, 동일한 timestamp 찍히는거는 제거
    - 평균 = 전체 20명의 합산의 평균 = 합산에서 나누기 20/ 표준편차는 전체 20명의 합산에 대한 표준편차
    - 전체 값의 중위값
  - x축 앱, y축 typing letter 개수 합산, 평균, median -> 총 3개 그래프
- 전체 인원에 대해서 각 **카테고리 합산 time taken**에 대한 순위 막대 그래프
  - x축 카테고리, y축 time taken 수 합산, 평균, median -> 총 3개 그래프
    - 아웃라이어 제거, timestamp 동일한거 제거, 음수 제거, 0 제거, 첫번째거 제거,
    - 합산 = 전체 20명 인원에 대한 각 카테고리 별 아웃라이어를 제거한 timeTaken 합계
    - 평균 = 전체 20명의 합산의 평균 = 합산에서 나누기 20/ 표준편차는 전체 20명의 합산에 대한 표준편차
    - 전체 값의 중위값
  - x축 앱, y축 time taken 수 합산, 평균, median-> 총 3개 그래프
- 동일 카테고리에 대해서 각 **tester 별 time taken** 또는 **typing letter 수**에 대한 수염 그래프
  - **그래프 1: x축 tester 1~20, y축 time taken, 점 카테고리**
  - **그래프 2: x축 tester 1~20, y축 typing letter** , 점 카테고리
- 동일 앱에 대해서 각 **tester 별 time taken** 또는 **typing letter 수**에 대한 수염 그래프
  - **그래프 1: x축 tester 1~20, y축 time taken, 점 앱**
  - **그래프 2: x축 tester 1~20, y축 typing letter** , **점 앱**
- 동일 카테고리에 대해서 각 **tester 별 time taken** 또는 **typing letter 수**에 대한 막대 누적 그래프
  - **그래프 1: x축 tester 1~20, y축 time taken (카테고리 별 27개 그래프)**
  - **그래프 2: x축 tester 1~20, y축 typing letter (카테고리 별 27개 그래프)**
- 전체인원 각 카테고리 (20개 그래프) 및 앱 별 ()각 **tester 별 metric에 대한 median 및 mean 수치 값**을 점으로 찍는 수염 그래프
  - 그래프 1: x축 카테고리, y축 time taken 평균값, 점 tester 1~20
  - 그래프 2: x축 카테고리, y축 typing letter 평균값, 점 tester 1~20
  - 그래프 3: x축 카테고리, y축 CPS, CPM, WPS, WPM, KSPS, KSPC, INTra, INTer 평균값, 점 tester 1~20
    - 테스터 1명에 대한 카테고리에 포함되는 앱의 CPS 평균값
  - 그래프 4: x축 카테고리, y축 time taken median값, 점 tester 1~12
  - 그래프 5: x축 카테고리, y축 typing letter median값, 점 tester 1~12
  - 그래프 6: x축 카테고리, y축 CPS, CPM, WPS, WPM, KSPS, KSPC, INTra, INTer median값, 점 tester 1~20

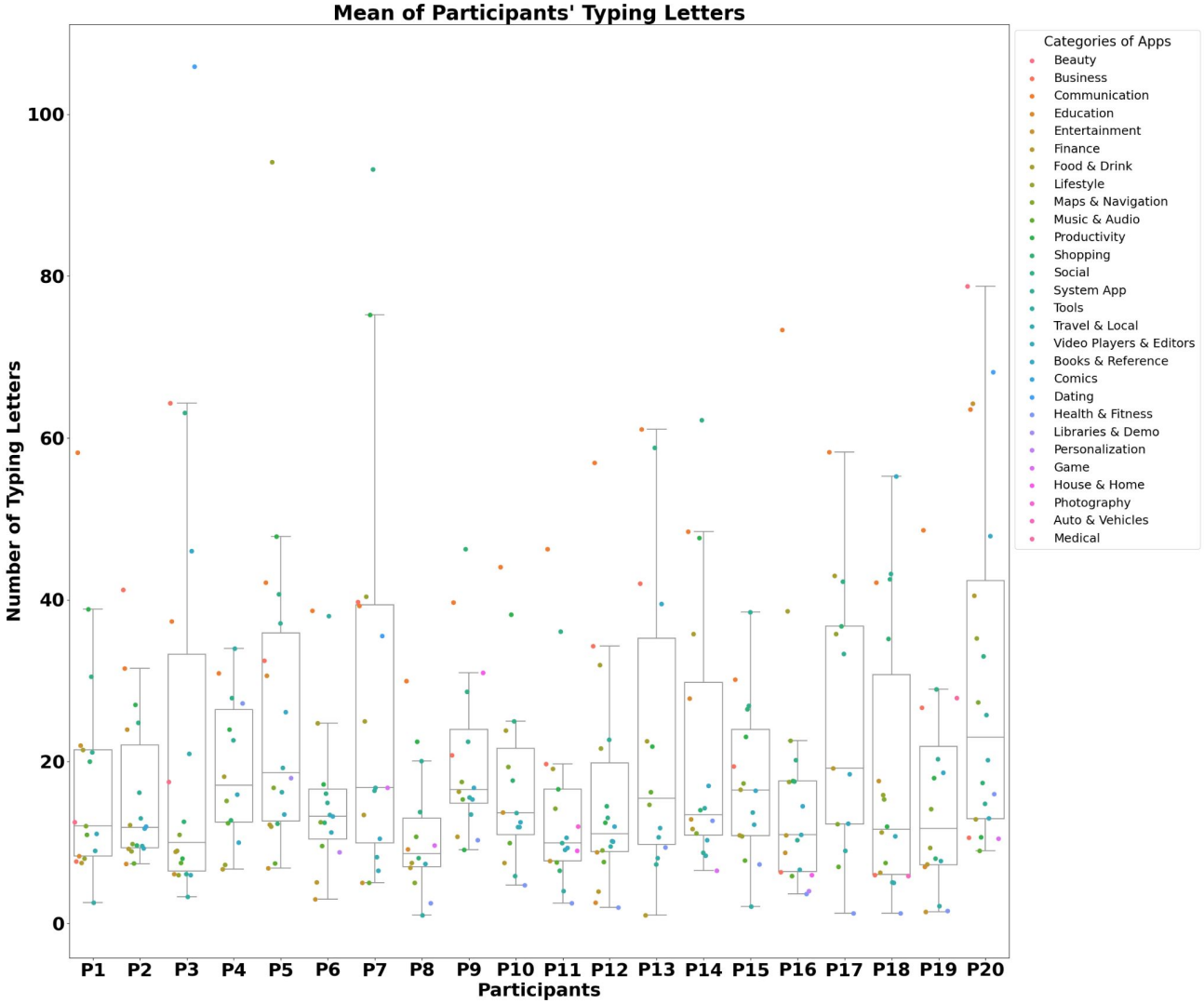
동일 카테고리에 대해서 각 tester 별 time taken 또는 typing letter 수에 대한 수염 그래프

그래프 1: x축 tester 1~20, y축 time taken, 점 카테고리


Mean of Participants' Time Taken
Time Taken (msec)
500
400
300
200
100
0
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
Participants
Categories of Apps
Beauty
Business
Communication
Education
Entertainment
Finance
Food & Drink
Lifestyle
Maps & Navigation
Music & Audio
Productivity
Shopping
Social
System App
Tools
Travel & Local
Video Players & Editors
Books & Reference
Comics
Dating
Health & Fitness
Libraries & Demo
Personalization
Game
House & Home
Photography
Auto & Vehicles
Medical

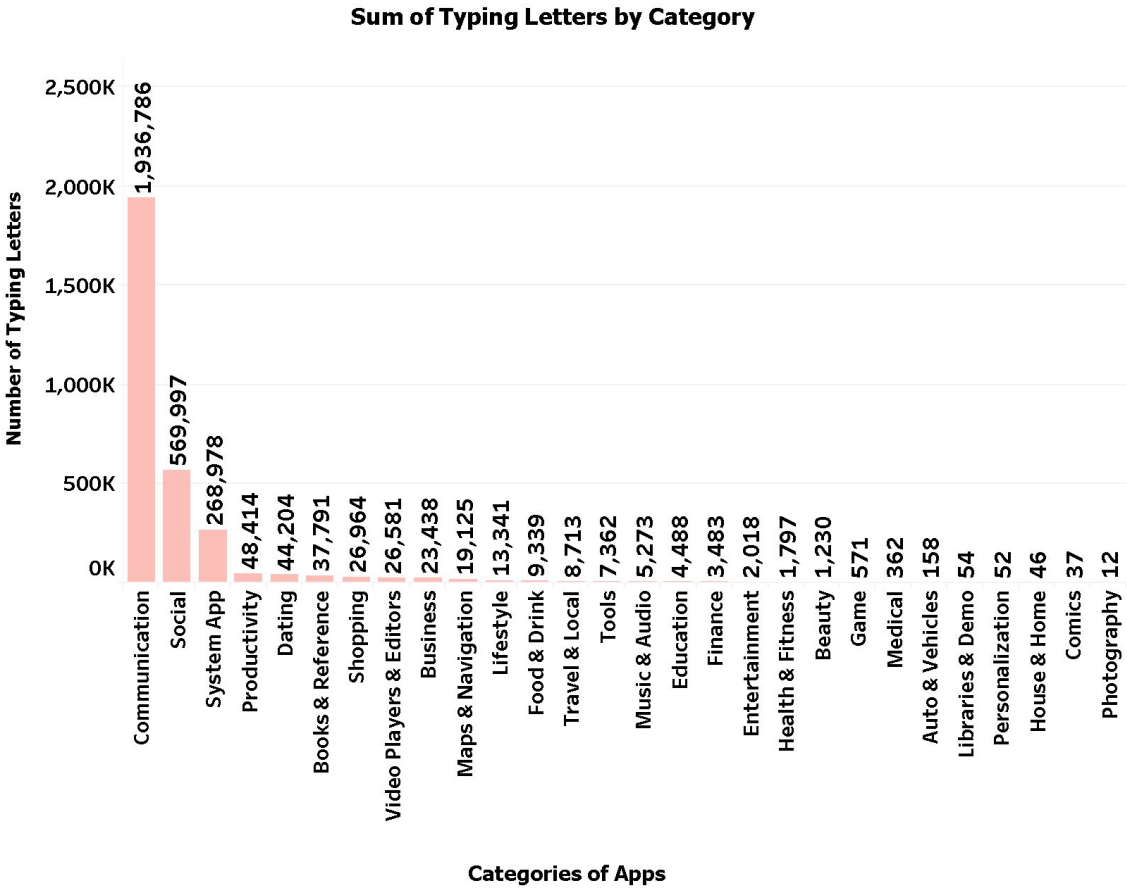
동일 카테고리에 대해서 각 tester 별 time taken 또는 typing letter 수에 대한 수염 그래프

그래프 2: x축 tester 1~20, y축 typing letter , 점 카테고리

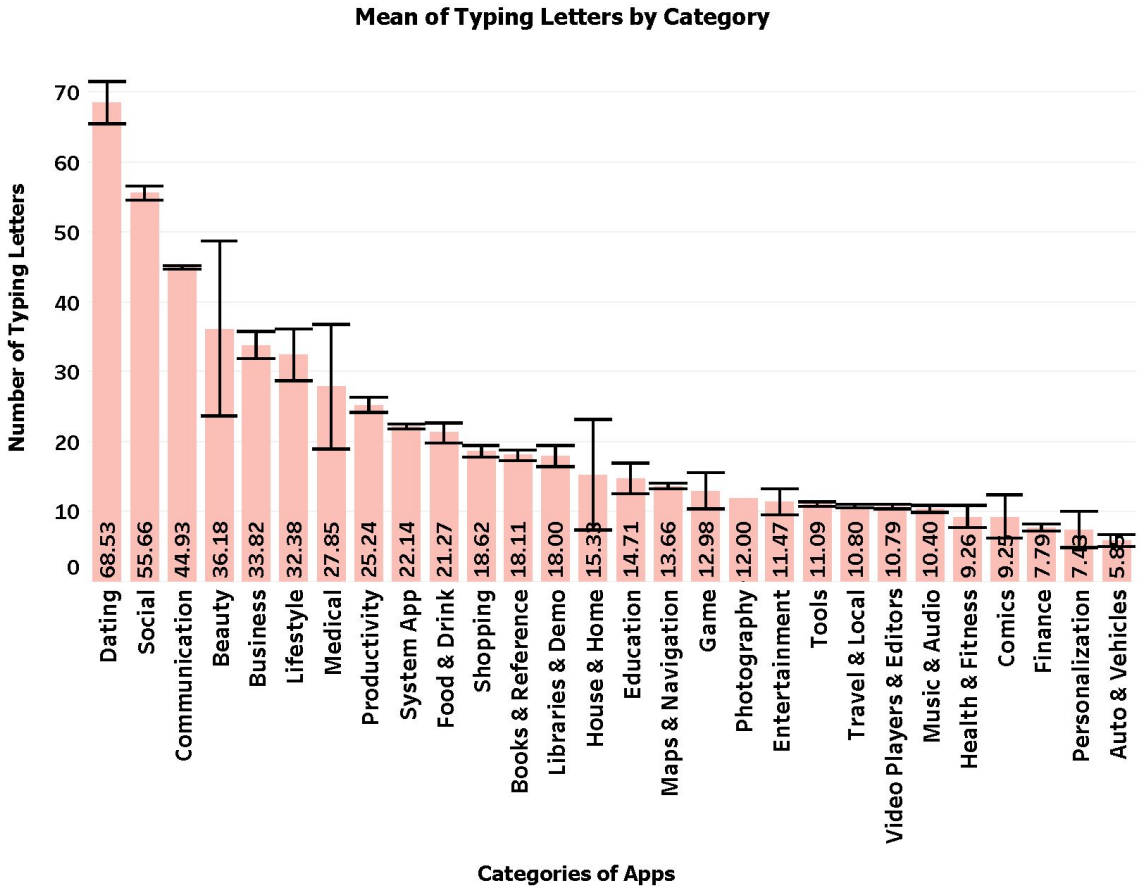

Mean of Participants' Typing Letters
Number of Typing Letters
0
20
40
60
80
100
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
Participants
Categories of Apps
Beauty
Business
Communication
Education
Entertainment
Finance
Food & Drink
Lifestyle
Maps & Navigation
Music & Audio
Productivity
Shopping
Social
System App
Tools
Travel & Local
Video Players & Editors
Books & Reference
Comics
Dating
Health & Fitness
Libraries & Demo
Personalization
Game
House & Home
Photography
Auto & Vehicles
Medical

전체 인원에 대해서 각 카테고리 별 typing letter 개수에 대한막대 그래프
x축 카테고리, y축 typing letter 개수 합산, 평균, median -> 총 3개 그래프

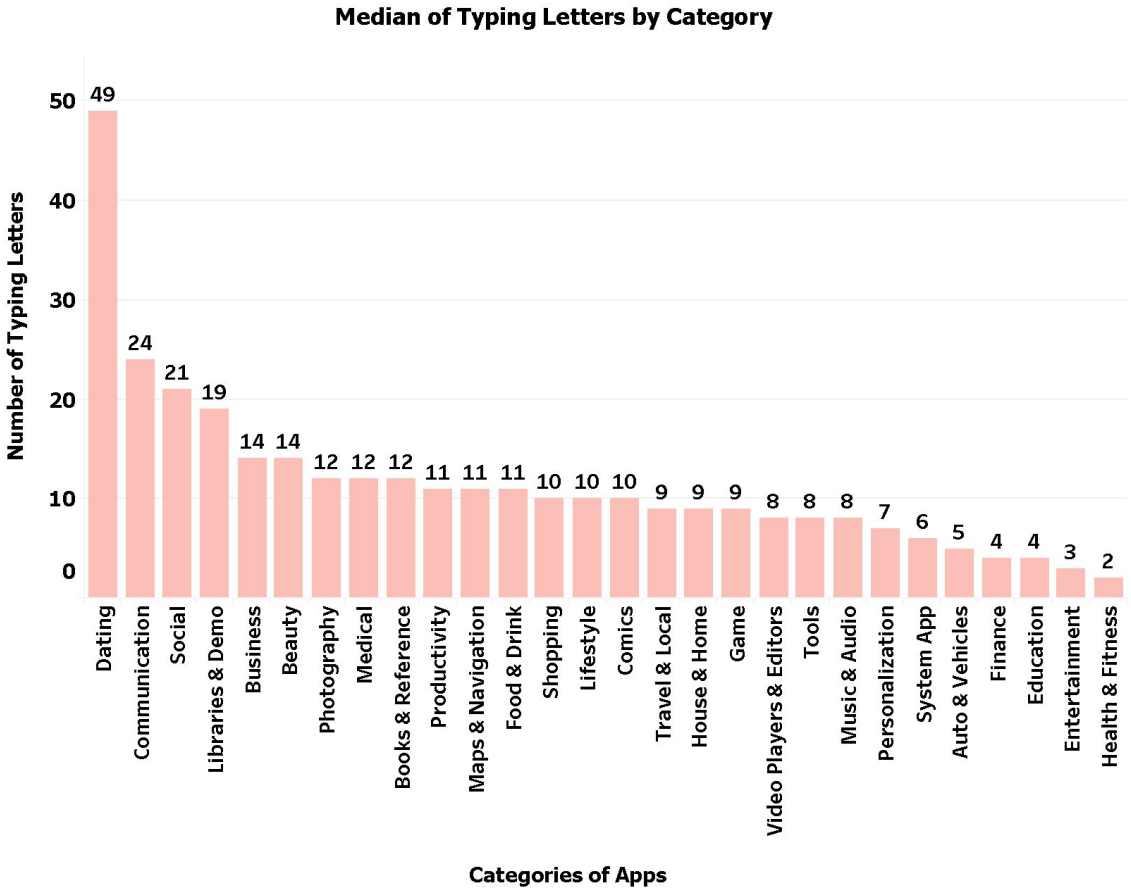
SUM of Typing Letters



Mean of Typing Letters

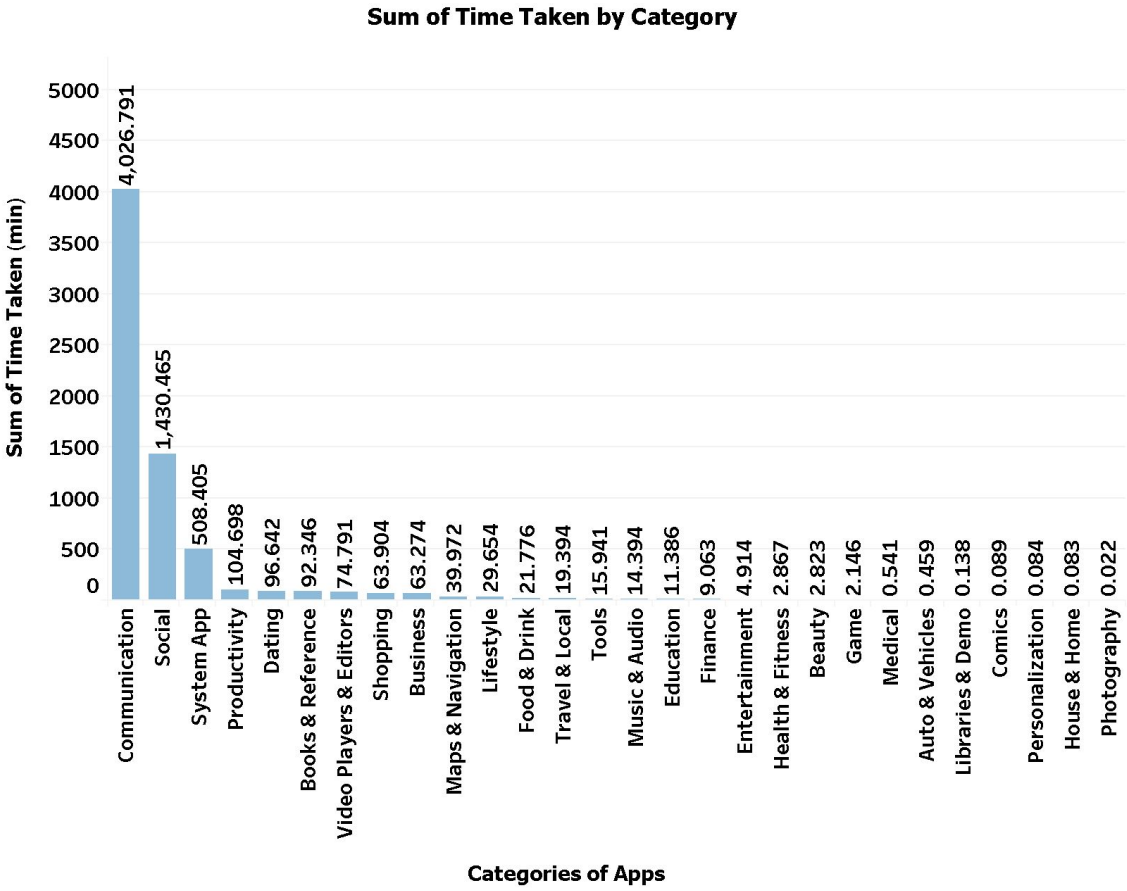


Median of Typing Letters

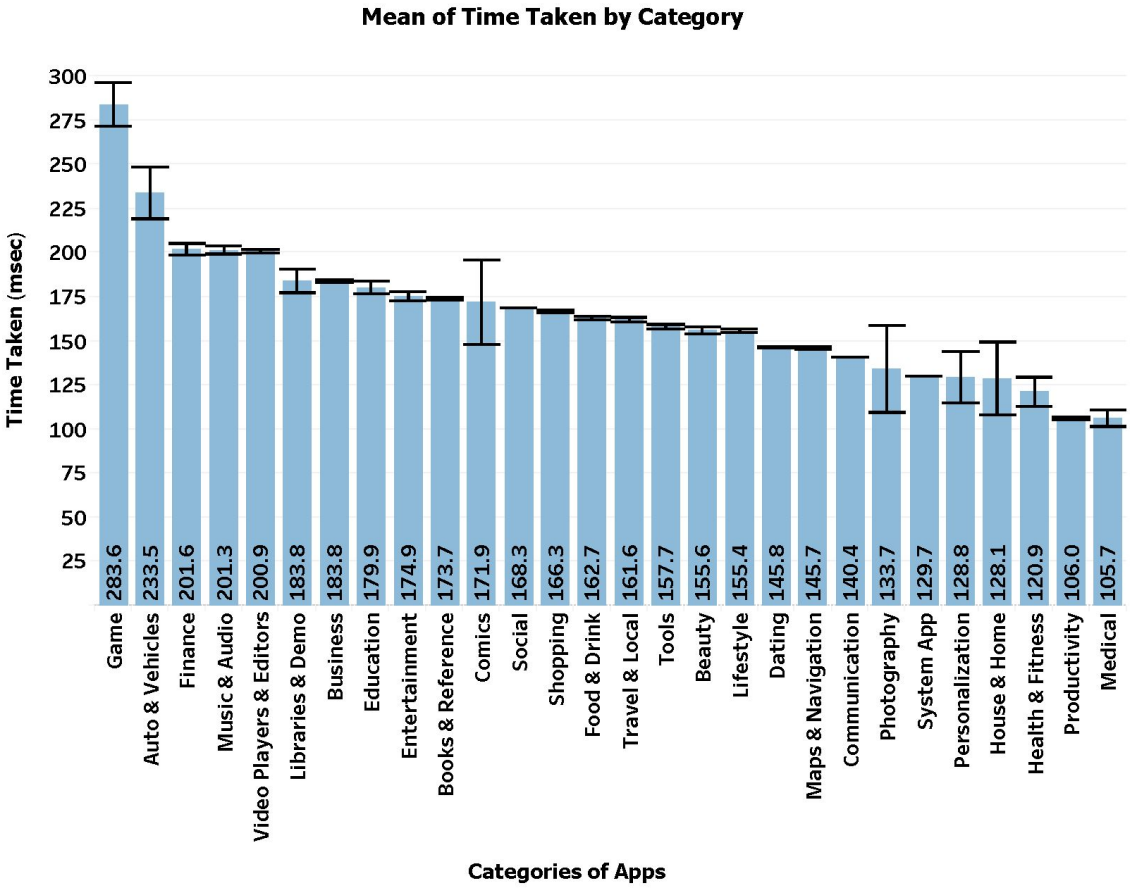


전체 인원에 대해서 각 카테고리 별 time taken에 대한 순위 막대 그래프
x축 카테고리, y축 time taken 수 합산, 평균, median -> 총 3개 그래프

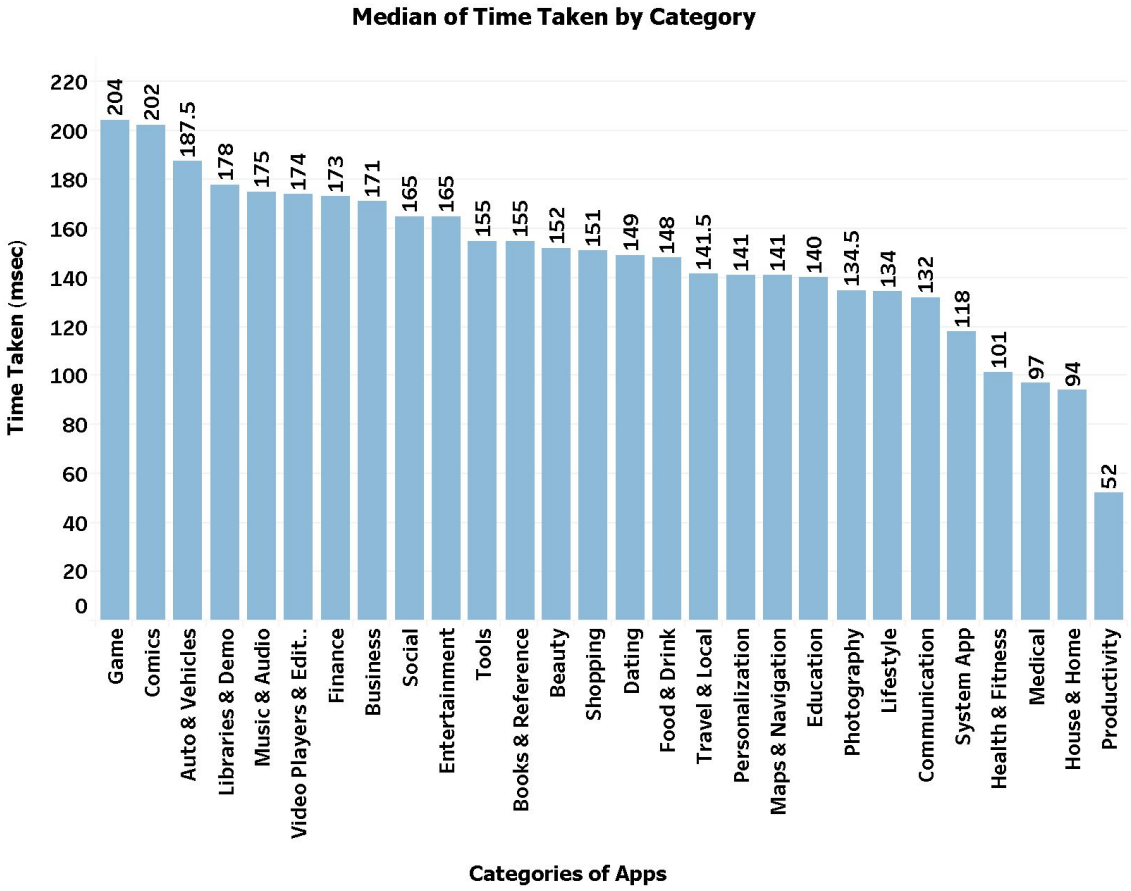
Sum of Time Taken



Mean of Time Taken

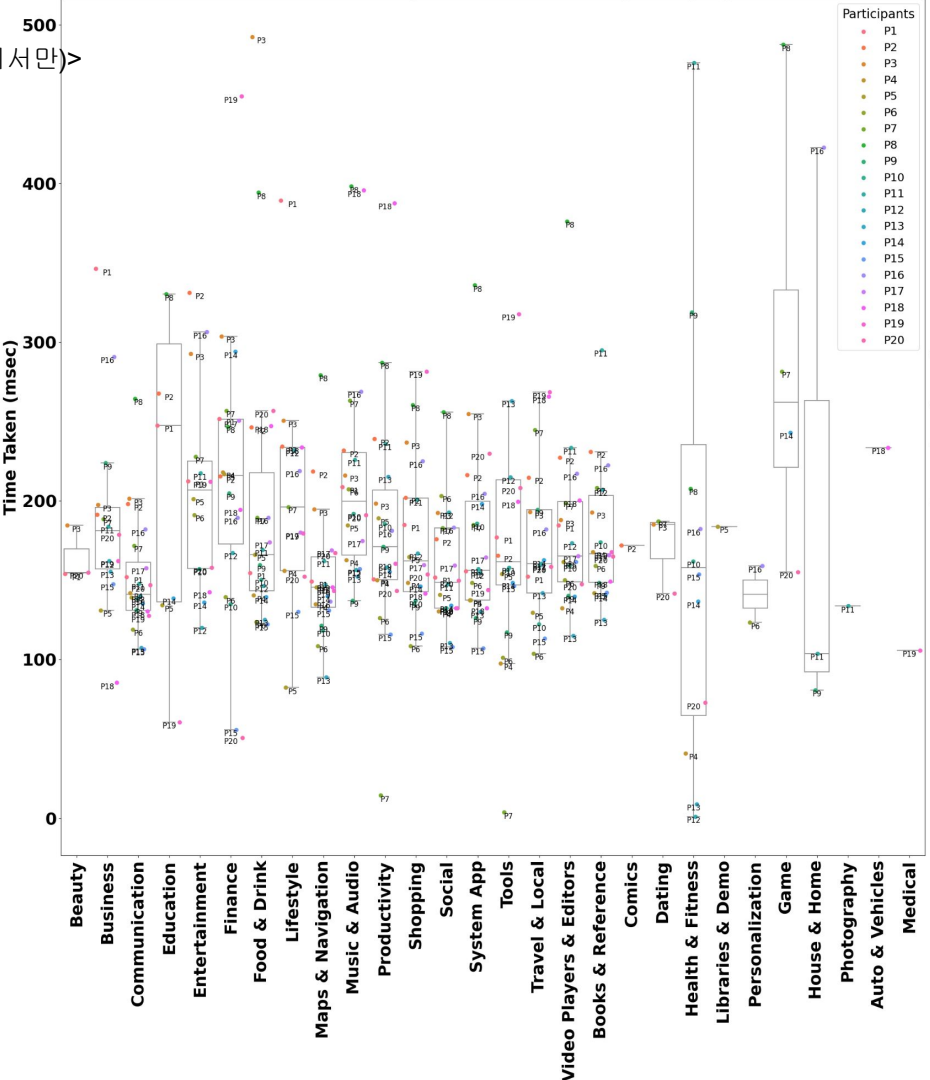


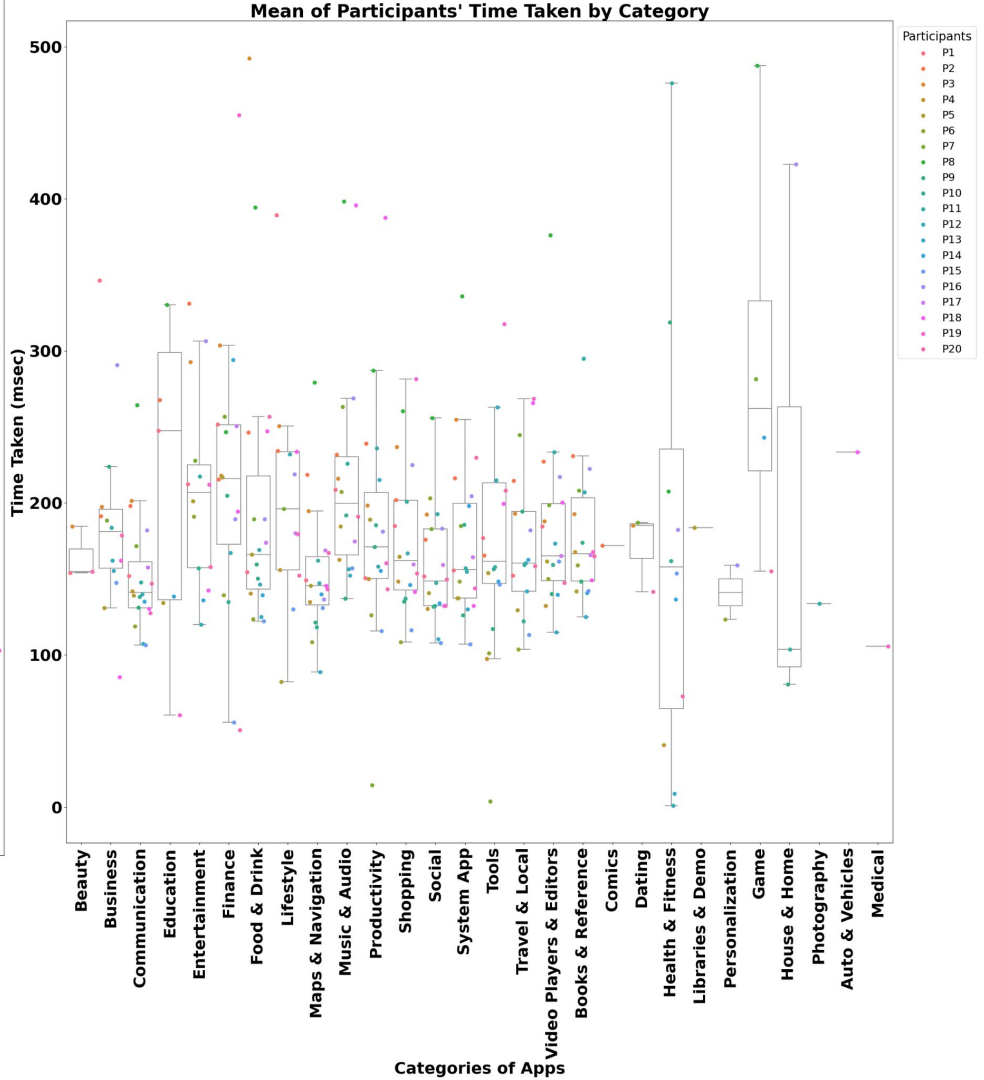
Median of Time Taken



참가자별 TimeTaken’s Mean

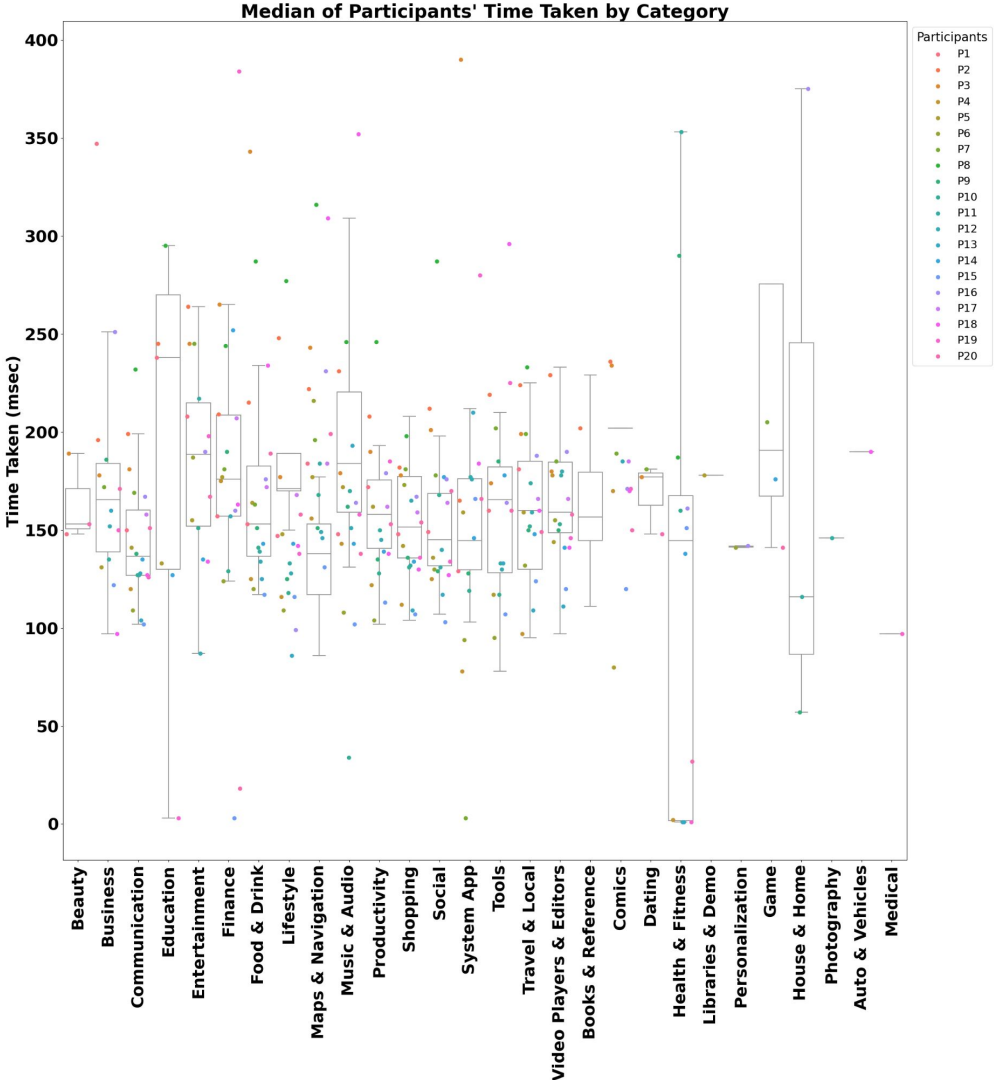
서만)>


Time Taken (msec)
Participants
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
Beauty
Business
Communication
Education
Entertainment
Finance
Food & Drink
Lifestyle
Maps & Navigation
Music & Audio
Productivity
Shopping
Social
System App
Tools
Travel & Local
Video Players & Editors
Books & Reference
Comics
Dating
Health & Fitness
Libraries & Demo
Personalization
Game
House & Home
Photography
Auto & Vehicles
Medical


Mean of Participants' Time Taken by Category
Time Taken (msec)
Participants
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
Beauty
Business
Communication
Education
Entertainment
Finance
Food & Drink
Lifestyle
Maps & Navigation
Music & Audio
Productivity
Shopping
Social
System App
Tools
Travel & Local
Video Players & Editors
Books & Reference
Comics
Dating
Health & Fitness
Libraries & Demo
Personalization
Game
House & Home
Photography
Auto & Vehicles
Medical
Categories of Apps

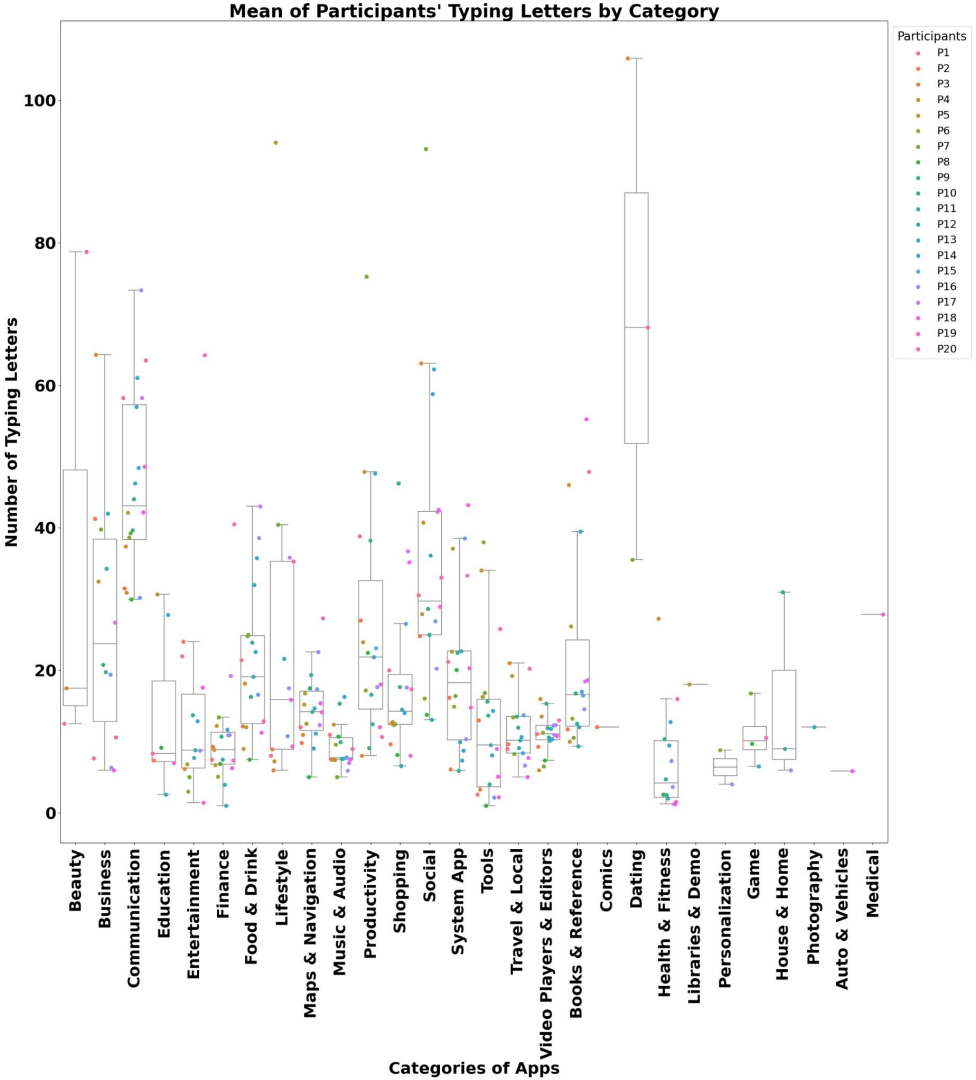
TimeTaken’s Median

글자 없는거


Median of Participants' Time Taken by Category
Time Taken (msec)
400
350
300
250
200
150
100
50
0
Beauty
Business
Communication
Education
Entertainment
Finance
Food & Drink
Lifestyle
Maps & Navigation
Music & Audio
Productivity
Shopping
Social
System App
Tools
Travel & Local
Video Players & Editors
Books & Reference
Comics
Dating
Health & Fitness
Libraries & Demo
Personalization
Game
House & Home
Photography
Auto & Vehicles
Medical
Participants
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20

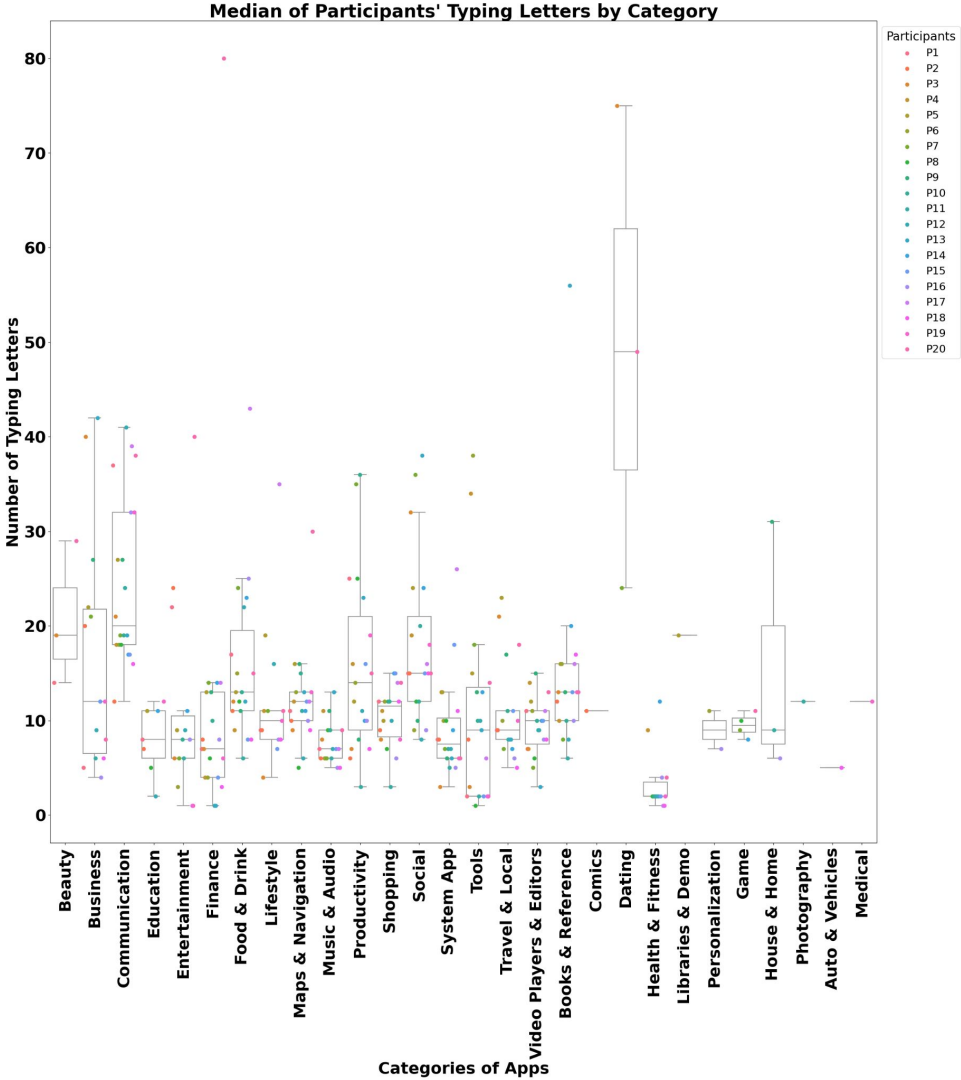
Typing Letters’ Mean

글자 없는거

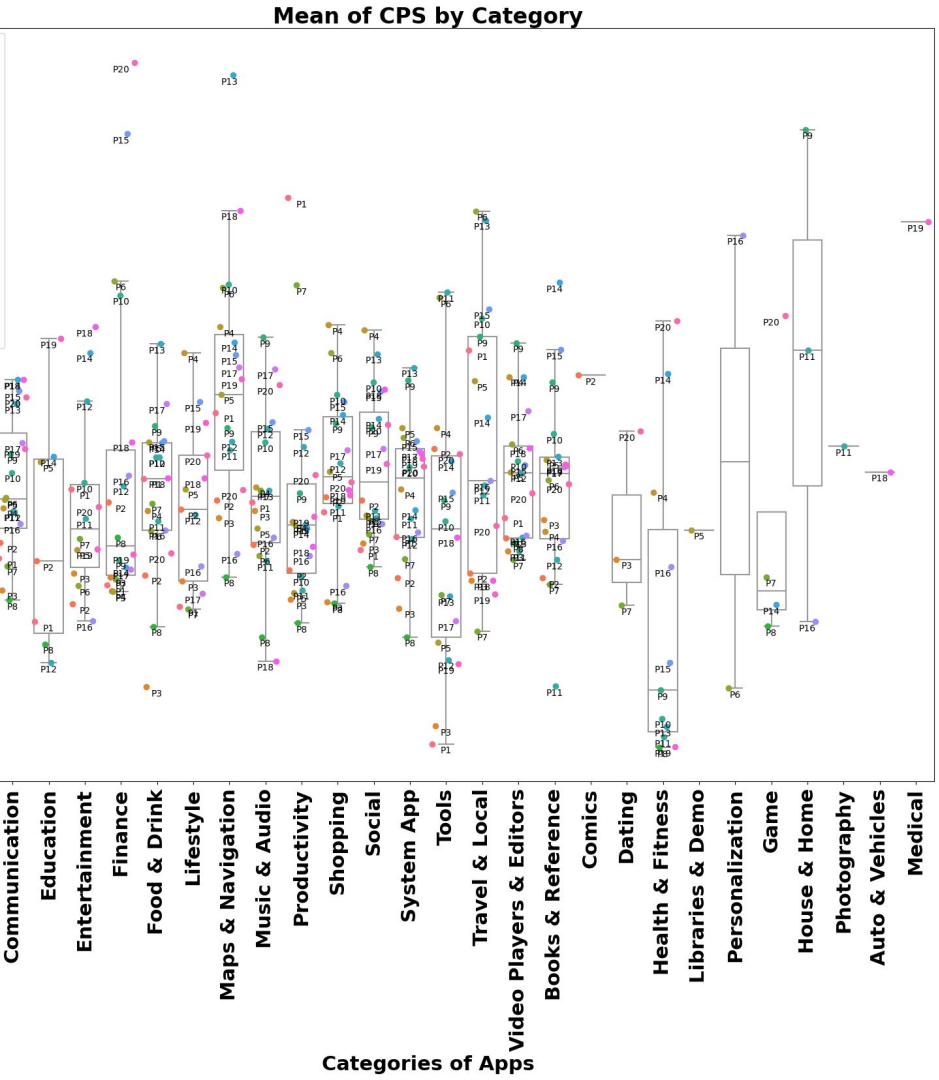

Mean of Participants' Typing Letters by Category
Number of Typing Letters
0
20
40
60
80
100
Beauty
Business
Communication
Education
Entertainment
Finance
Food & Drink
Lifestyle
Maps & Navigation
Music & Audio
Productivity
Shopping
Social
System App
Tools
Travel & Local
Video Players & Editors
Books & Reference
Comics
Dating
Health & Fitness
Libraries & Demo
Personalization
Game
House & Home
Photography
Auto & Vehicles
Medical
Categories of Apps
Participants
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20

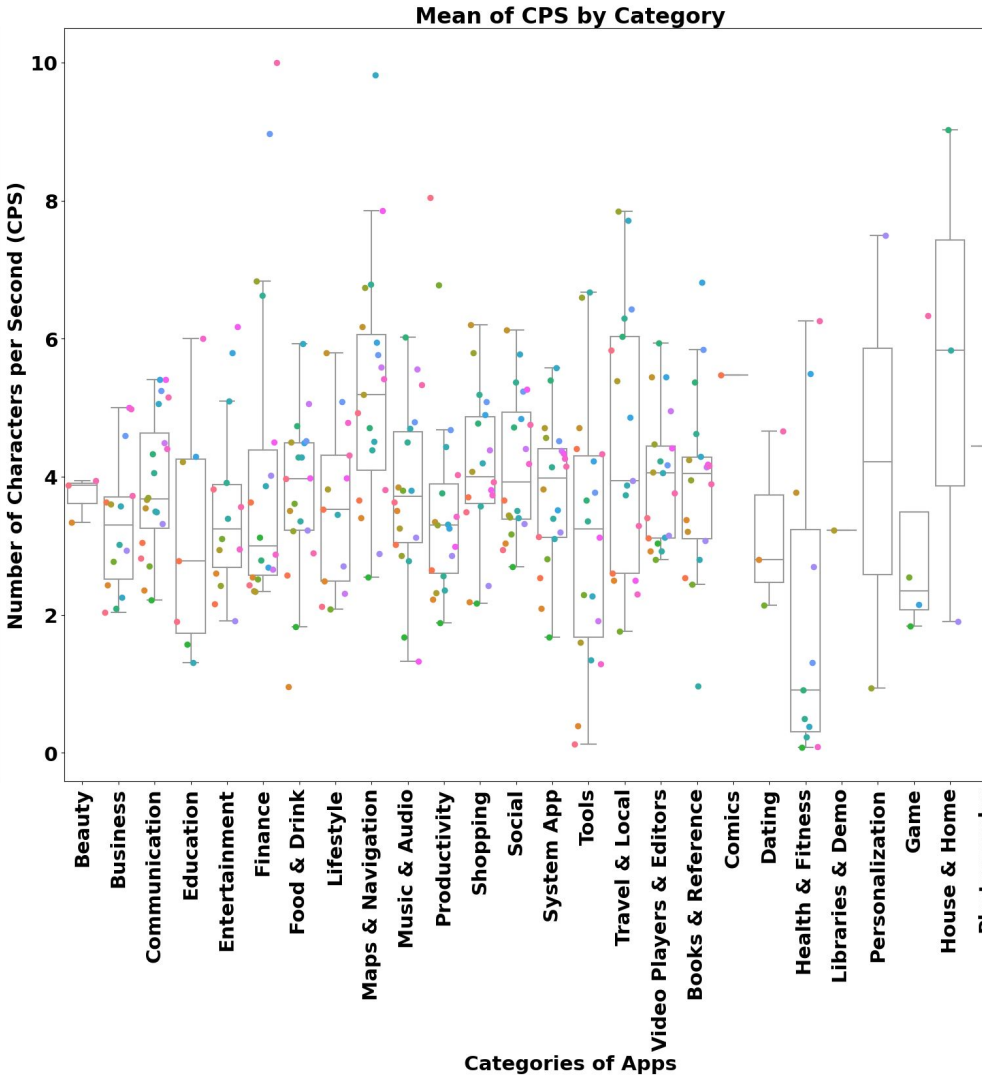
Typing Letters’ Median

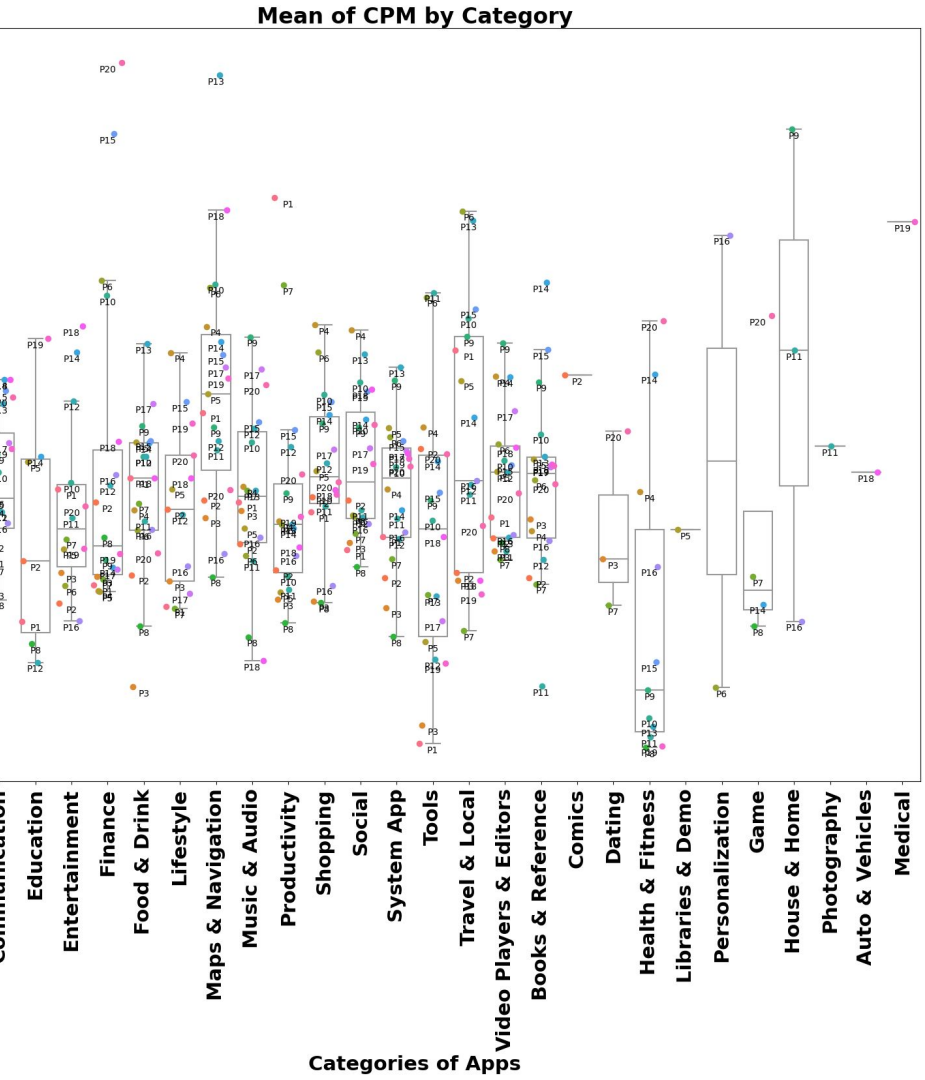
글자 없는

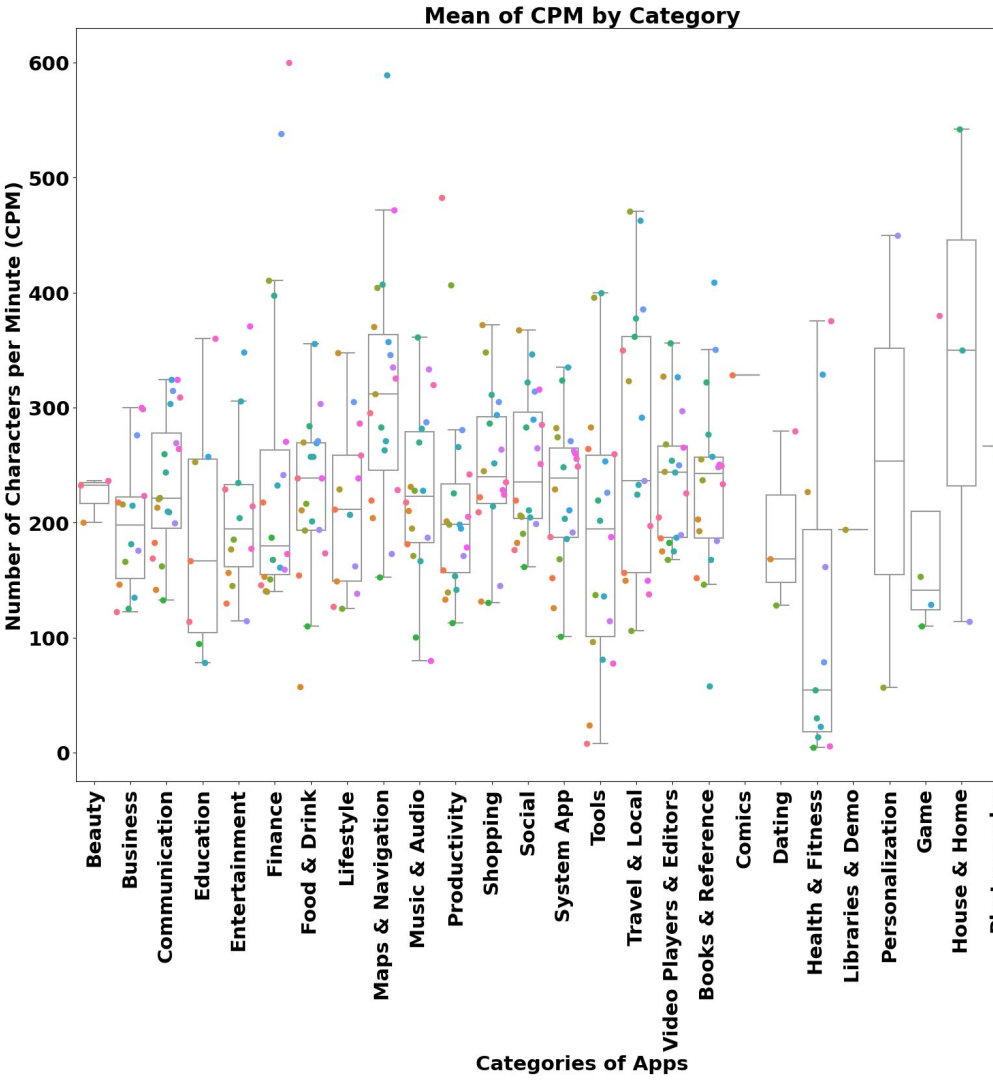

Median of Participants' Typing Letters by Category
Number of Typing Letters
0
10
20
30
40
50
60
70
80
Beauty
Business
Communication
Education
Entertainment
Finance
Food & Drink
Lifestyle
Maps & Navigation
Music & Audio
Productivity
Shopping
Social
System App
Tools
Travel & Local
Video Players & Editors
Books & Reference
Comics
Dating
Health & Fitness
Libraries & Demo
Personalization
Game
House & Home
Photography
Auto & Vehicles
Medical
Categories of Apps
Participants
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20

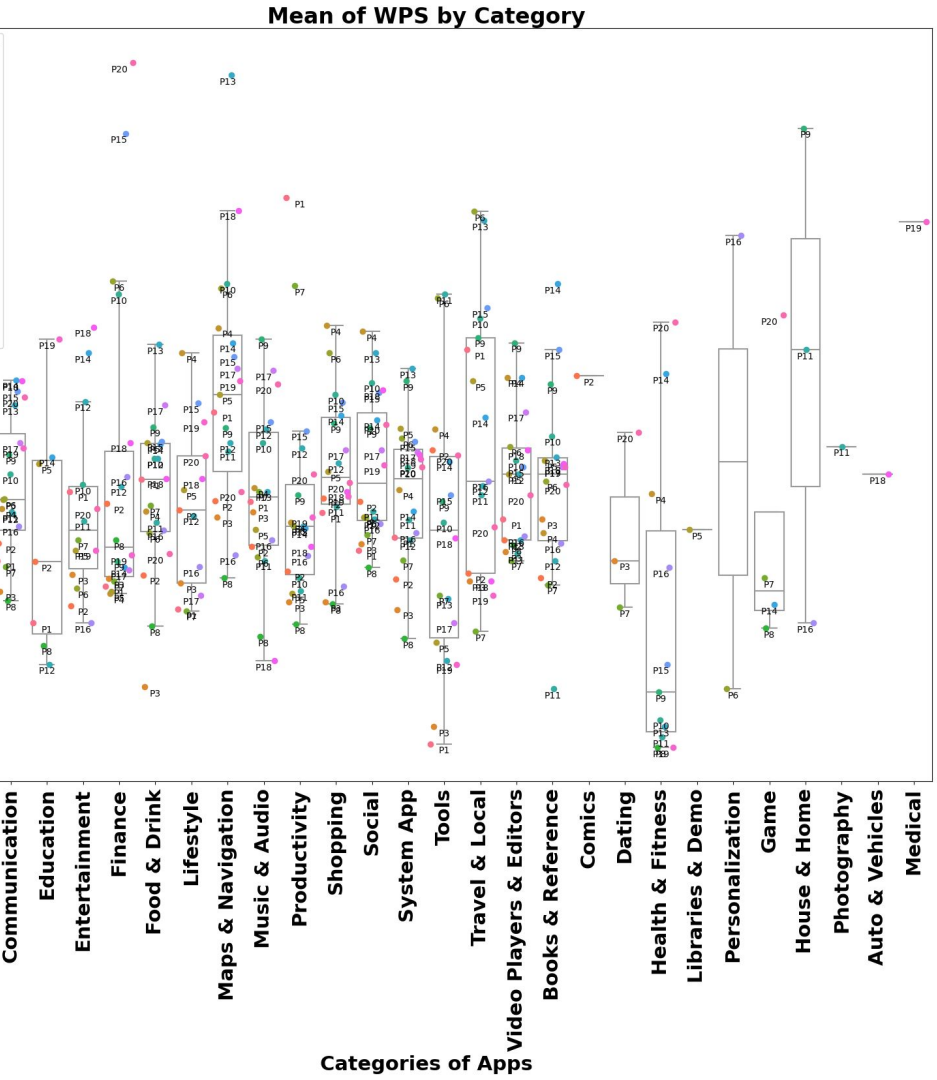
Mean of typing metric

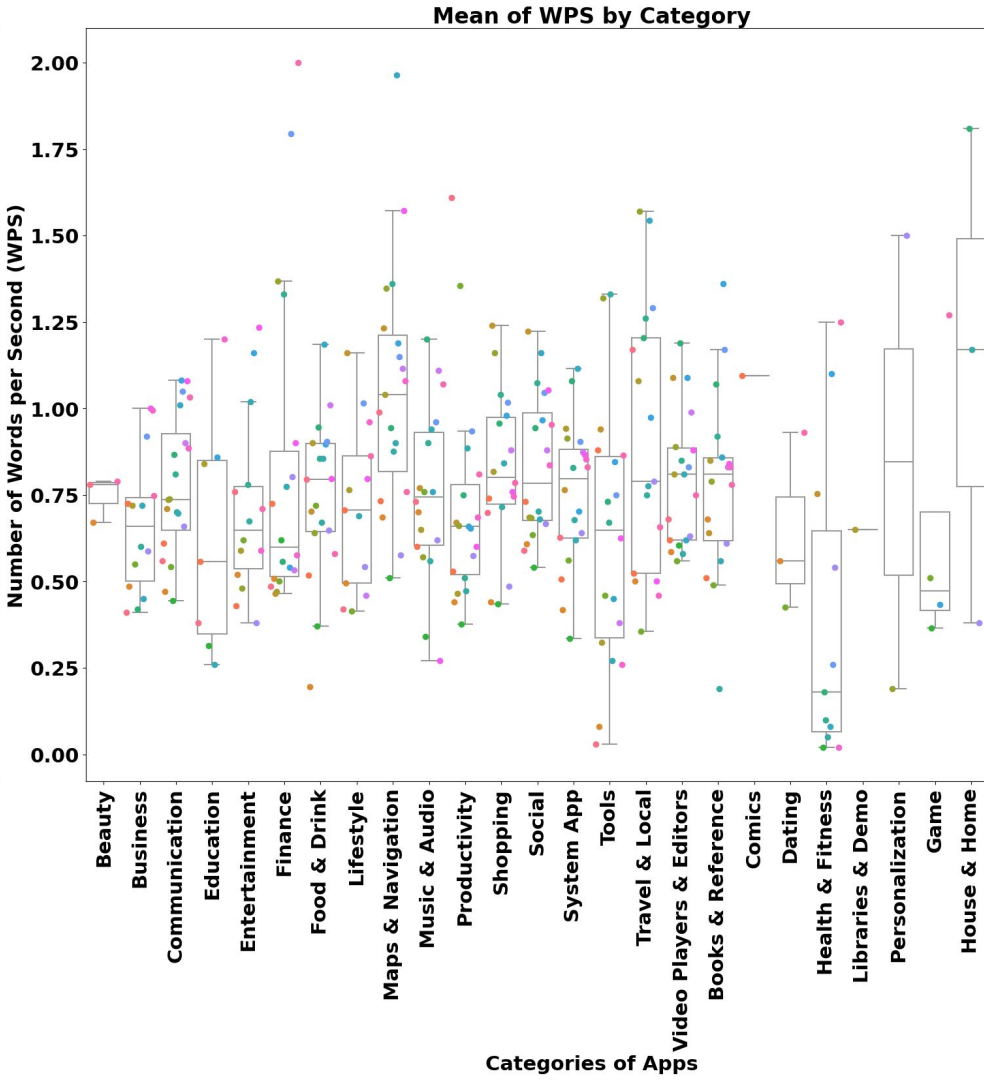

Mean of CPS by Category
Communication
Education
Entertainment
Finance
Food & Drink
Lifestyle
Maps & Navigation
Music & Audio
Productivity
Shopping
Social
System App
Tools
Travel & Local
Video Players & Editors
Books & Reference
Comics
Dating
Health & Fitness
Libraries & Demo
Personalization
Game
House & Home
Photography
Auto & Vehicles
Medical
Categories of Apps

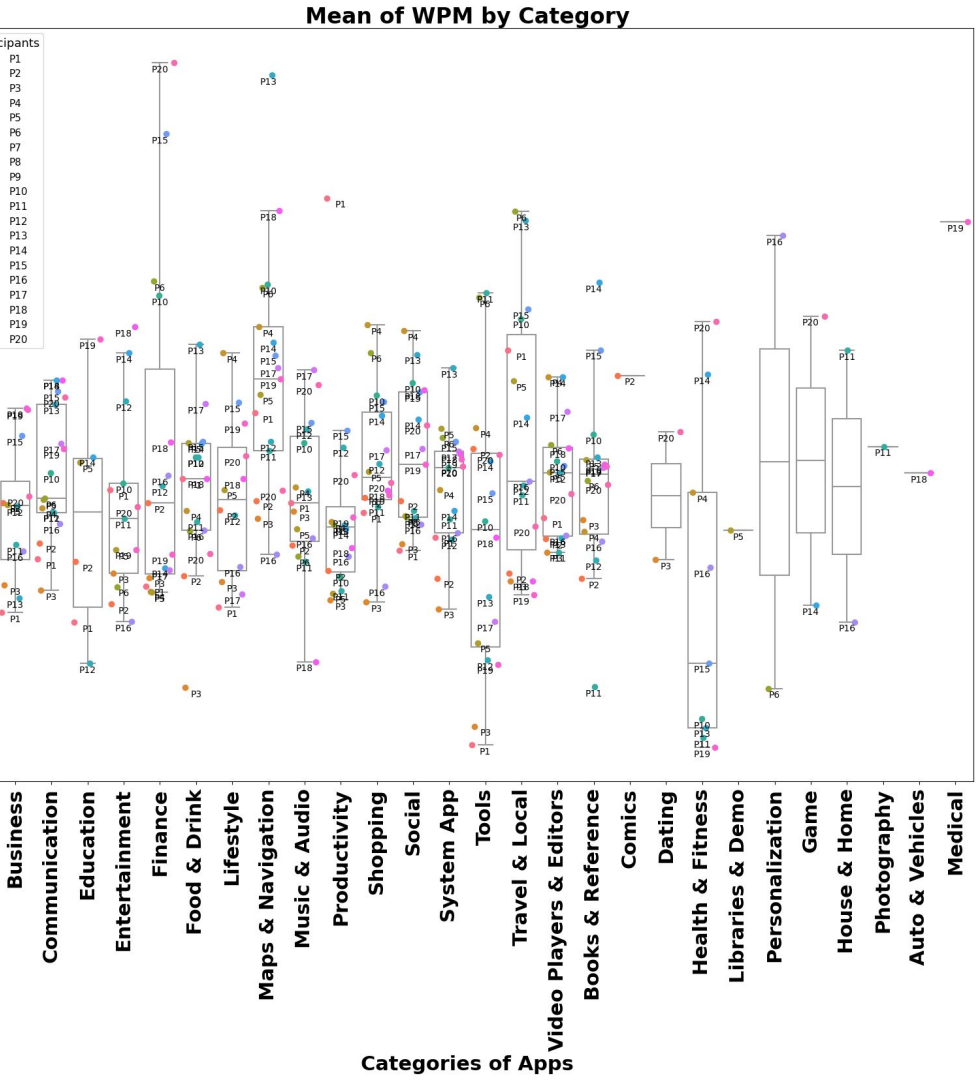

Mean of CPS by Category
Number of Characters per Second (CPS)
0
2
4
6
8
10
Beauty
Business
Communication
Education
Entertainment
Finance
Food & Drink
Lifestyle
Maps & Navigation
Music & Audio
Productivity
Shopping
Social
System App
Tools
Travel & Local
Video Players & Editors
Books & Reference
Comics
Dating
Health & Fitness
Libraries & Demo
Personalization
Game
House & Home
Categories of Apps

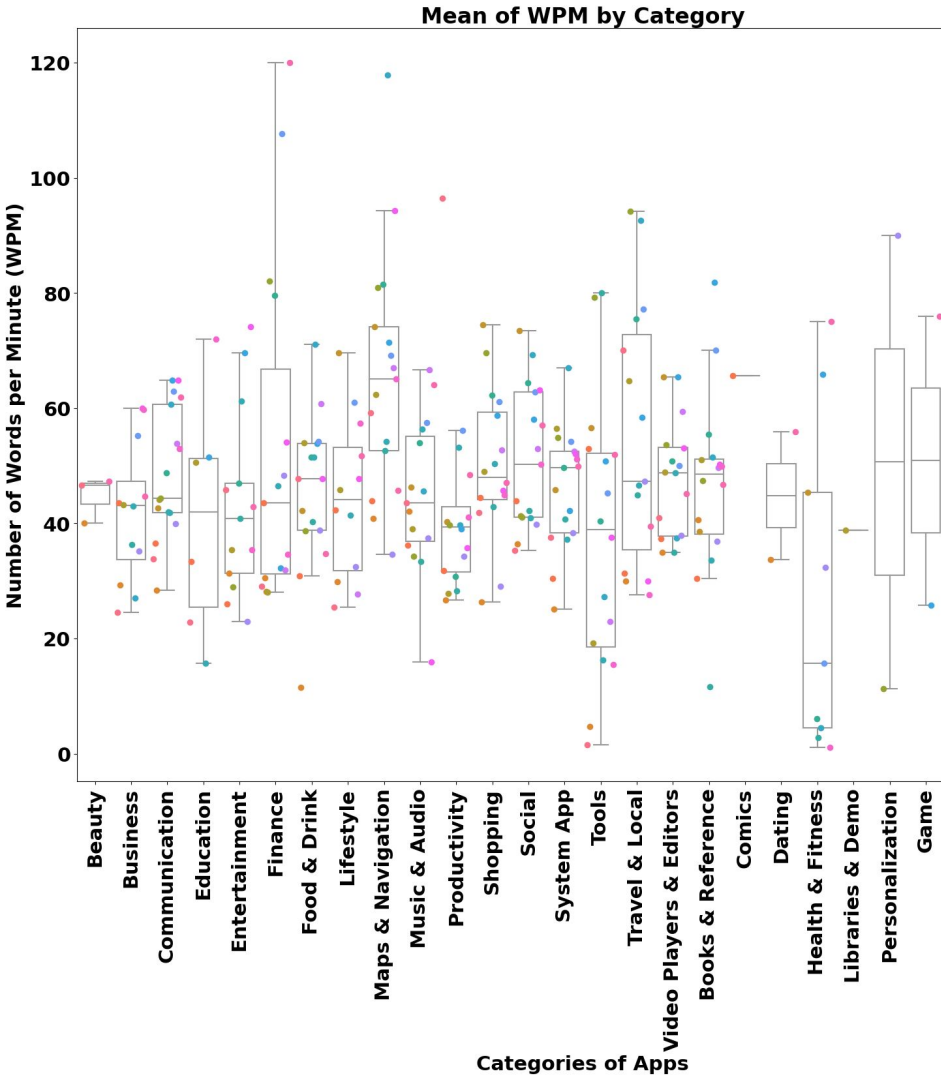

Mean of CPM by Category
Education
Entertainment
Finance
Food & Drink
Lifestyle
Maps & Navigation
Music & Audio
Productivity
Shopping
Social
System App
Tools
Travel & Local
Video Players & Editors
Books & Reference
Comics
Dating
Health & Fitness
Libraries & Demo
Personalization
Game
House & Home
Photography
Auto & Vehicles
Medical
Categories of Apps

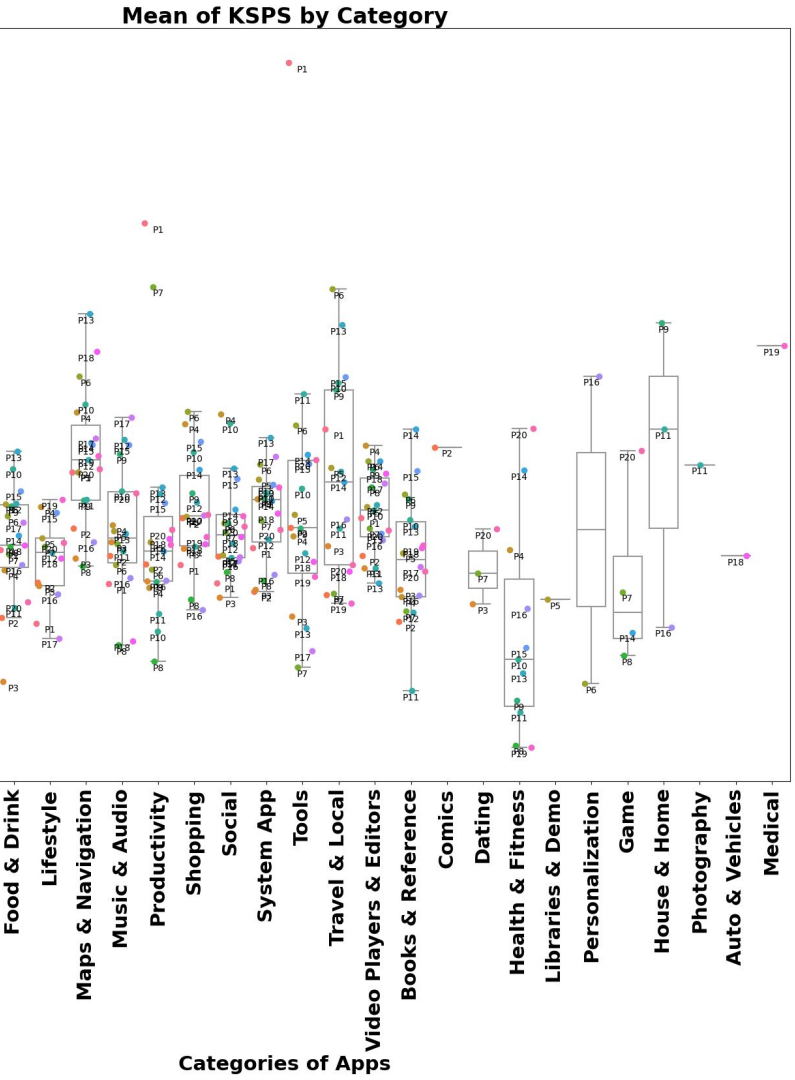

Mean of CPM by Category
Number of Characters per Minute (CPM)
0
100
200
300
400
500
600
Beauty
Business
Communication
Education
Entertainment
Finance
Food & Drink
Lifestyle
Maps & Navigation
Music & Audio
Productivity
Shopping
Social
System App
Tools
Travel & Local
Video Players & Editors
Books & Reference
Comics
Dating
Health & Fitness
Libraries & Demo
Personalization
Game
House & Home
Categories of Apps

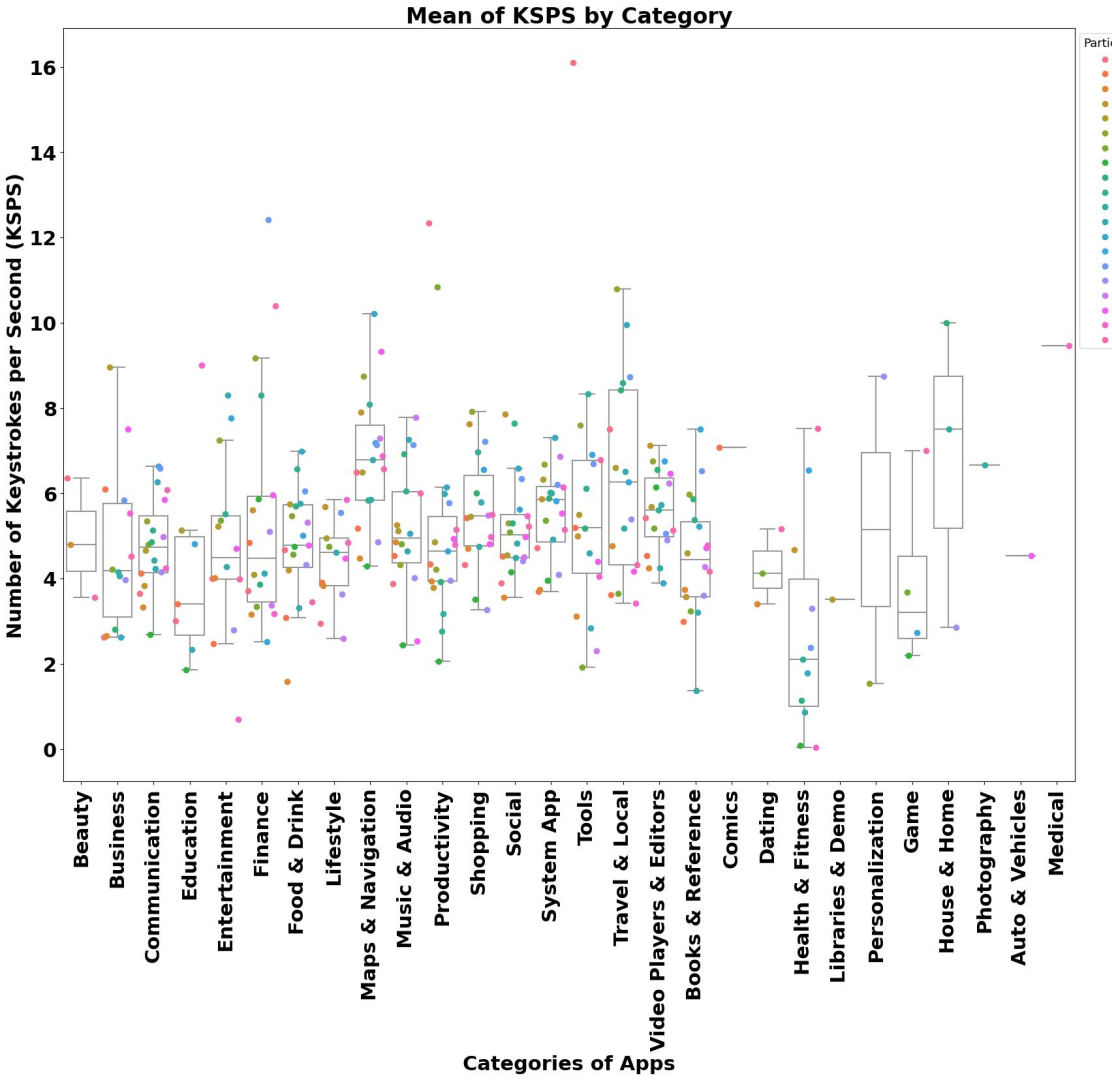

Mean of WPS by Category
Communication
Education
Entertainment
Finance
Food & Drink
Lifestyle
Maps & Navigation
Music & Audio
Productivity
Shopping
Social
System App
Tools
Travel & Local
Video Players & Editors
Books & Reference
Comics
Dating
Health & Fitness
Libraries & Demo
Personalization
Game
House & Home
Photography
Auto & Vehicles
Medical
Categories of Apps

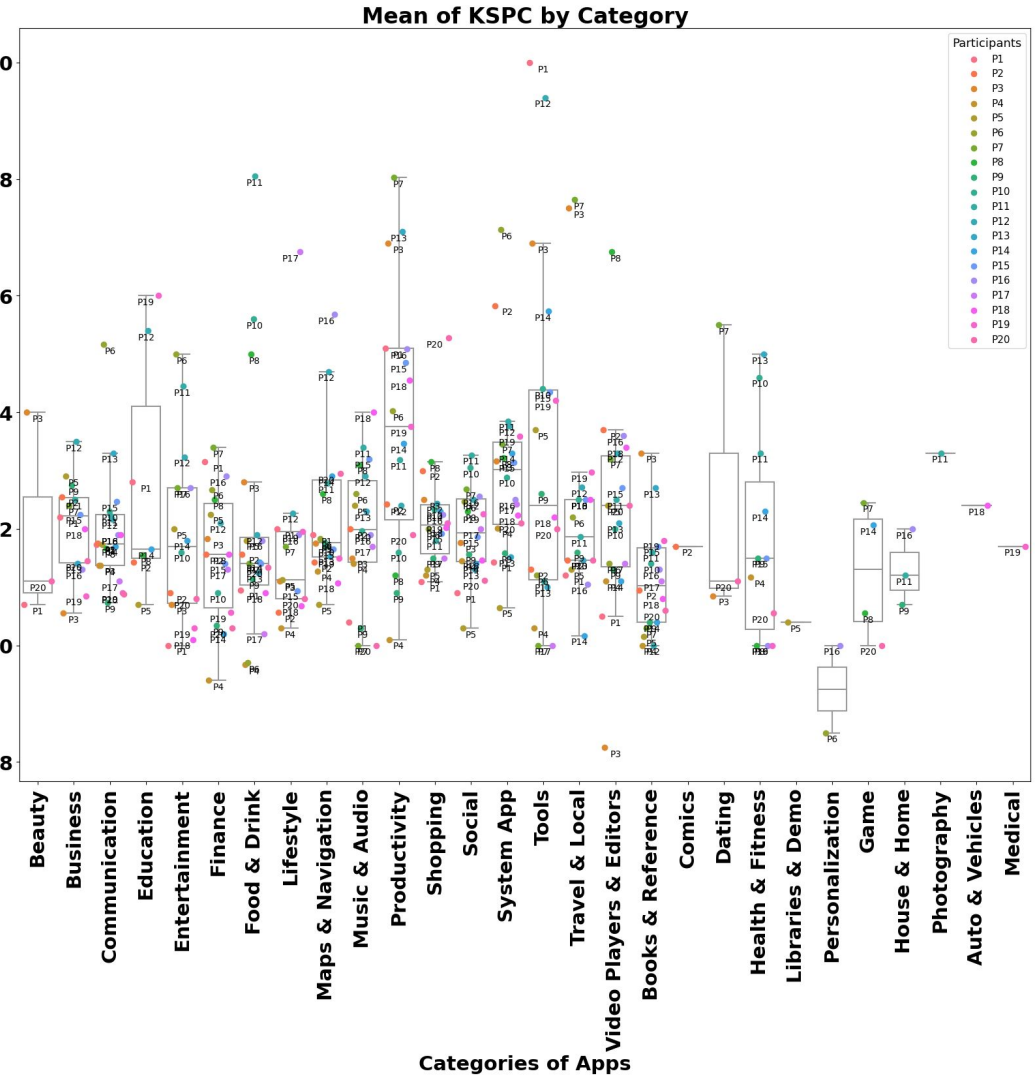

Mean of WPS by Category
Number of Words per Second (WPS)
2.00
1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00
Beauty
Business
Communication
Education
Entertainment
Finance
Food & Drink
Lifestyle
Maps & Navigation
Music & Audio
Productivity
Shopping
Social
System App
Tools
Travel & Local
Video Players & Editors
Books & Reference
Comics
Dating
Health & Fitness
Libraries & Demo
Personalization
Game
House & Home
Categories of Apps

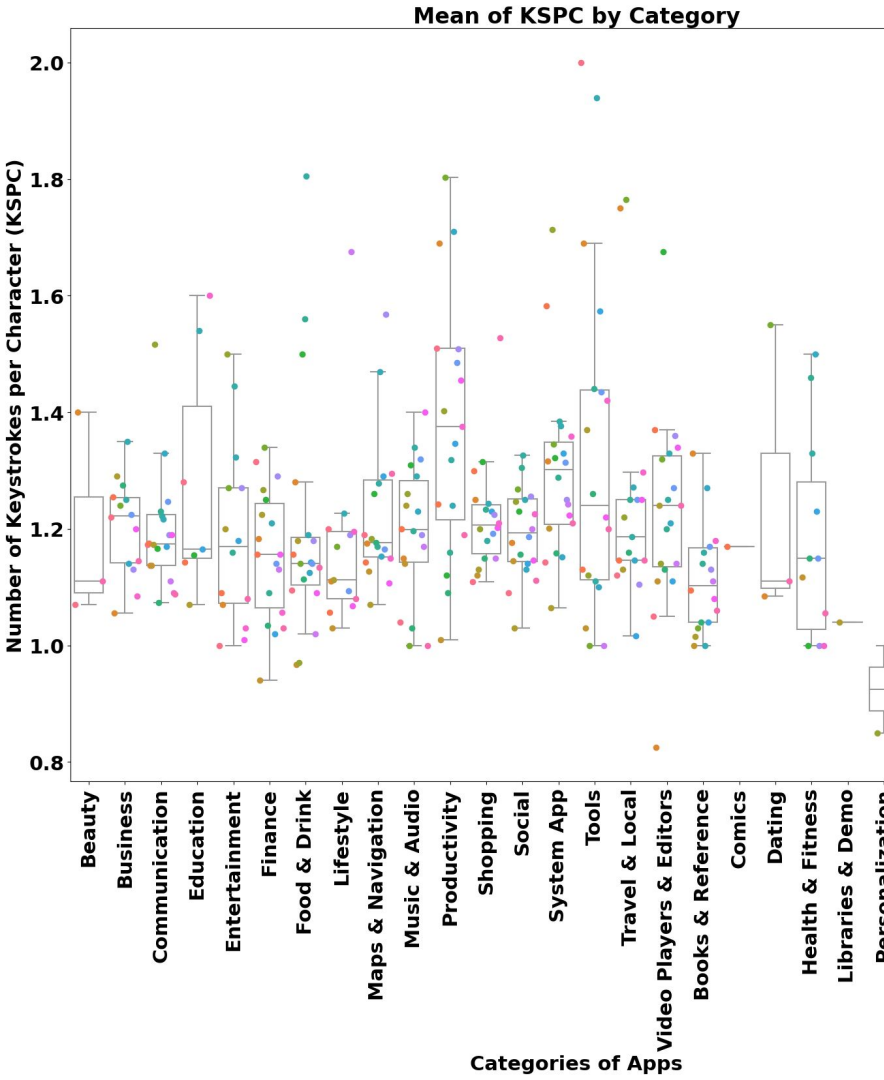

Mean of WPM by Category
cipants
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
Business
Communication
Education
Entertainment
Finance
Food & Drink
Lifestyle
Maps & Navigation
Music & Audio
Productivity
Shopping
Social
System App
Tools
Travel & Local
Video Players & Editors
Books & Reference
Comics
Dating
Health & Fitness
Libraries & Demo
Personalization
Game
House & Home
Photography
Auto & Vehicles
Medical
Categories of Apps

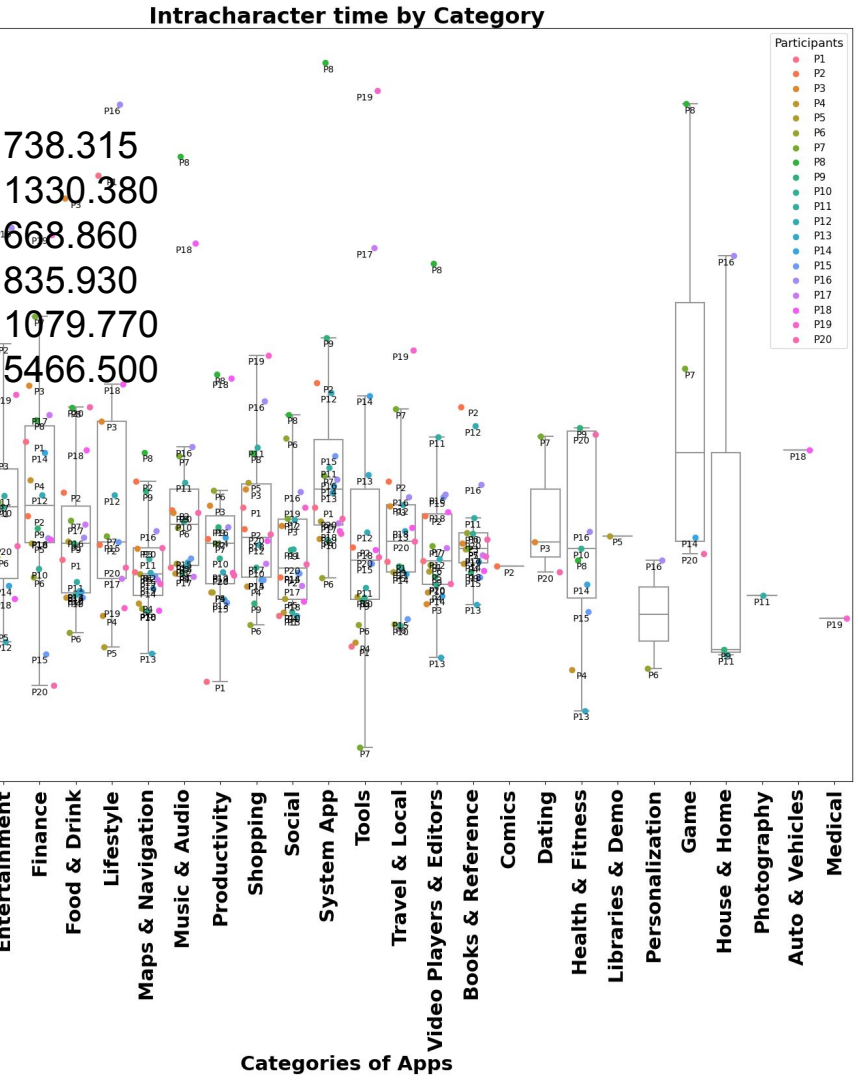

Mean of WPM by Category
Number of Words per Minute (WPM)
0
20
40
60
80
100
120
Beauty
Business
Communication
Education
Entertainment
Finance
Food & Drink
Lifestyle
Maps & Navigation
Music & Audio
Productivity
Shopping
Social
System App
Tools
Travel & Local
Video Players & Editors
Books & Reference
Comics
Dating
Health & Fitness
Libraries & Demo
Personalization
Game
Categories of Apps

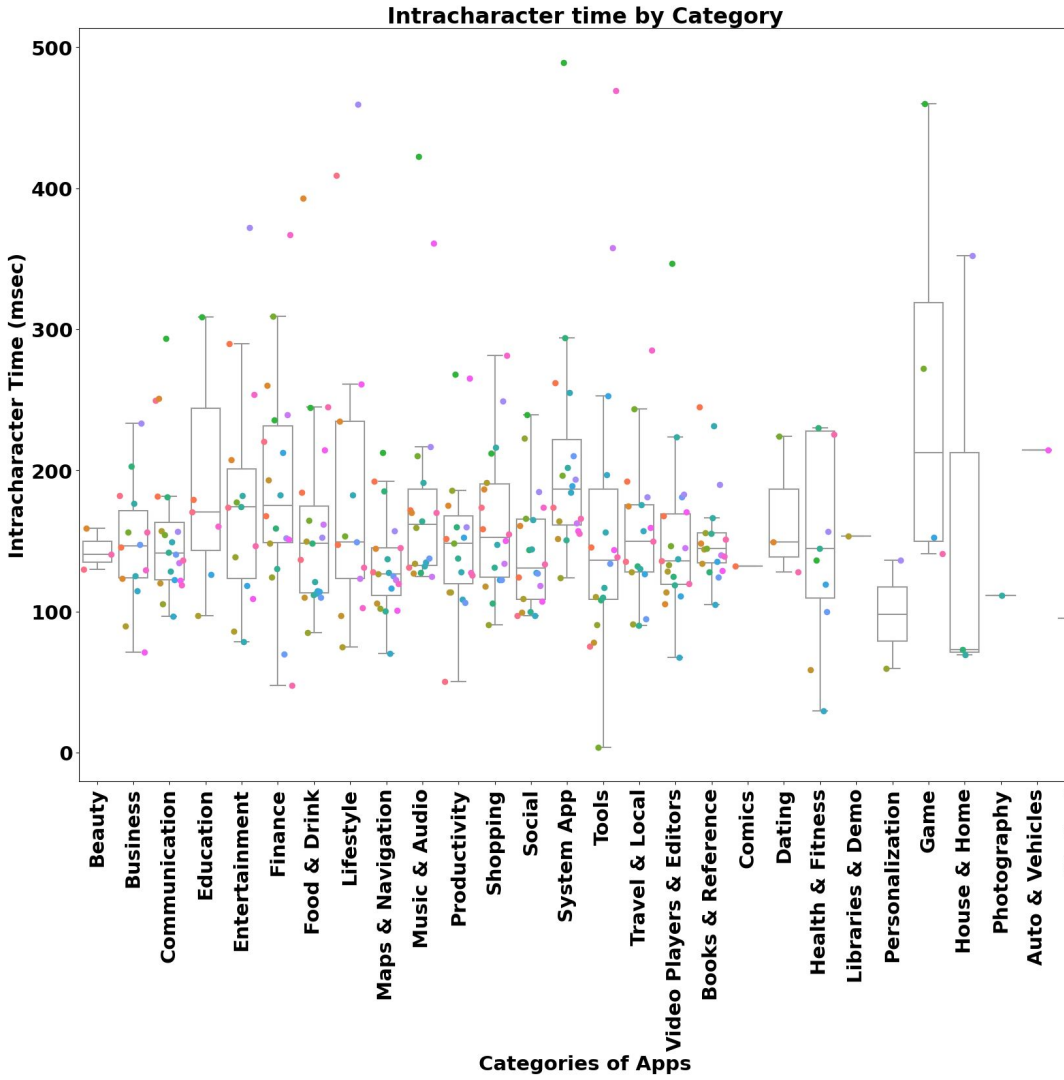

Mean of KSPS by Category
Food & Drink
Lifestyle
Maps & Navigation
Music & Audio
Productivity
Shopping
Social
System App
Tools
Travel & Local
Video Players & Editors
Books & Reference
Comics
Dating
Health & Fitness
Libraries & Demo
Personalization
Game
House & Home
Photography
Auto & Vehicles
Medical
Categories of Apps

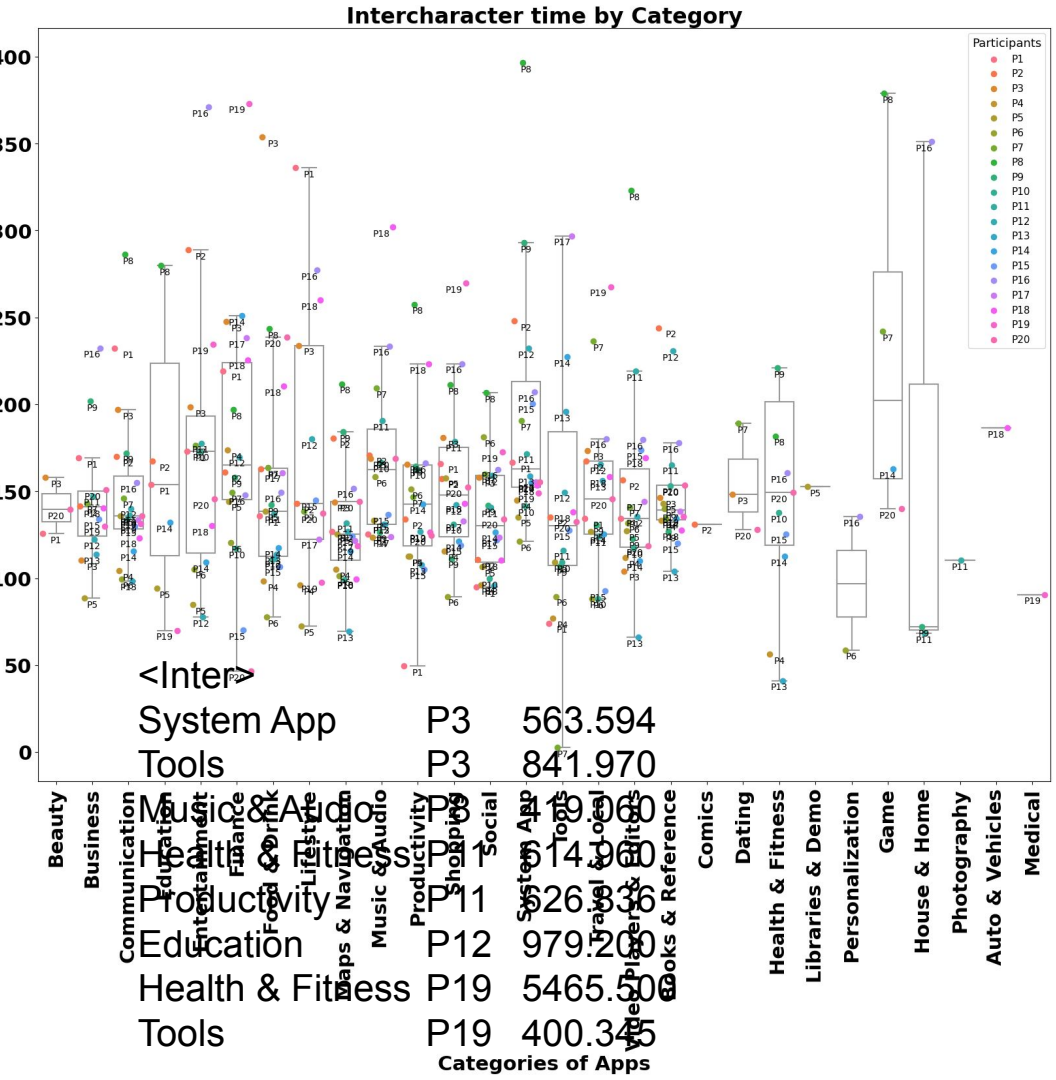

Mean of KSPS by Category
Number of Keystrokes per Second (KSPS)
0
2
4
6
8
10
12
14
16
Beauty
Business
Communication
Education
Entertainment
Finance
Food & Drink
Lifestyle
Maps & Navigation
Music & Audio
Productivity
Shopping
Social
System App
Tools
Travel & Local
Video Players & Editors
Books & Reference
Comics
Dating
Health & Fitness
Libraries & Demo
Personalization
Game
House & Home
Photography
Auto & Vehicles
Medical
Categories of Apps


Mean of KSPC by Category
Participants
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
Beauty
Business
Communication
Education
Entertainment
Finance
Food & Drink
Lifestyle
Maps & Navigation
Music & Audio
Productivity
Shopping
Social
System App
Tools
Travel & Local
Video Players & Editors
Books & Reference
Comics
Dating
Health & Fitness
Libraries & Demo
Personalization
Game
House & Home
Photography
Auto & Vehicles
Medical
Categories of Apps

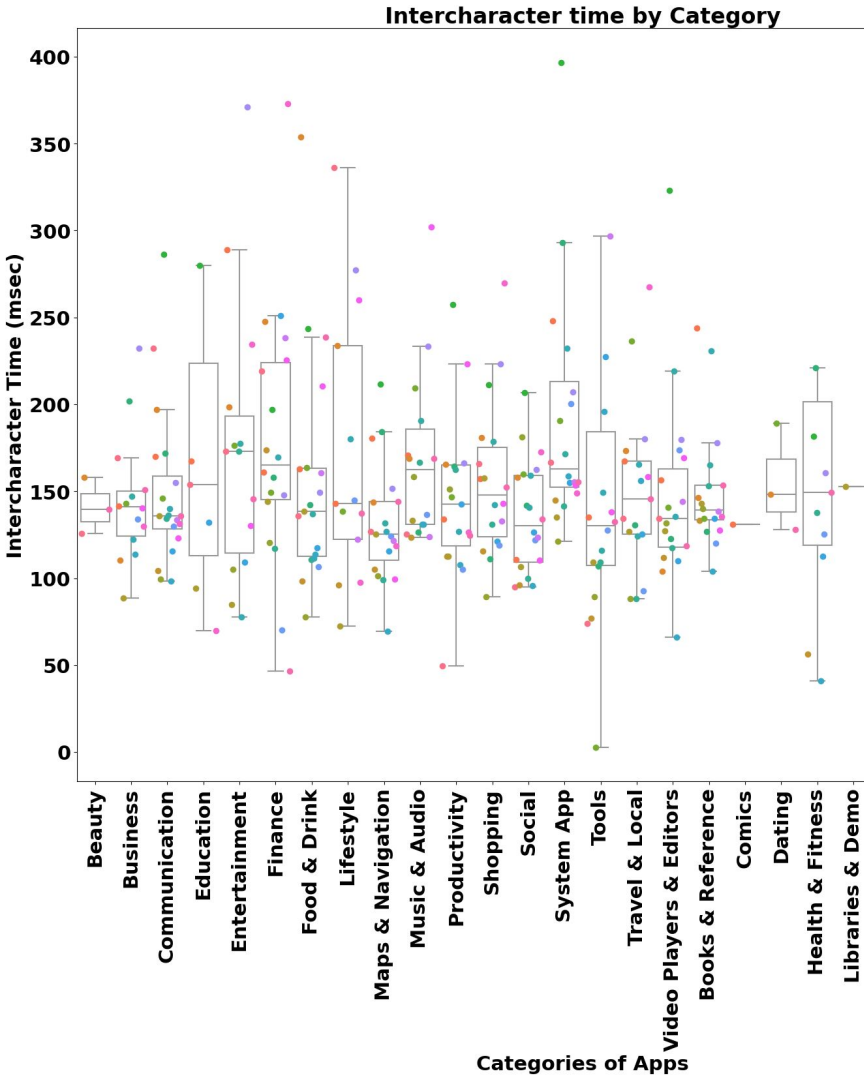

Mean of KSPC by Category
Number of Keystrokes per Character (KSPC)
2.0
1.8
1.6
1.4
1.2
1.0
0.8
Beauty
Business
Communication
Education
Entertainment
Finance
Food & Drink
Lifestyle
Maps & Navigation
Music & Audio
Productivity
Shopping
Social
System App
Tools
Travel & Local
Video Players & Editors
Books & Reference
Comics
Dating
Health & Fitness
Libraries & Demo
Categories of Apps


Intracharacter time by Category
Participants
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
738.315
1330.380
668.860
835.930
1079.770
5466.500
Entertainment
Finance
Food & Drink
Lifestyle
Maps & Navigation
Music & Audio
Productivity
Shopping
Social
System App
Tools
Travel & Local
Video Players & Editors
Books & Reference
Comics
Dating
Health & Fitness
Libraries & Demo
Personalization
Game
House & Home
Photography
Auto & Vehicles
Medical
Categories of Apps

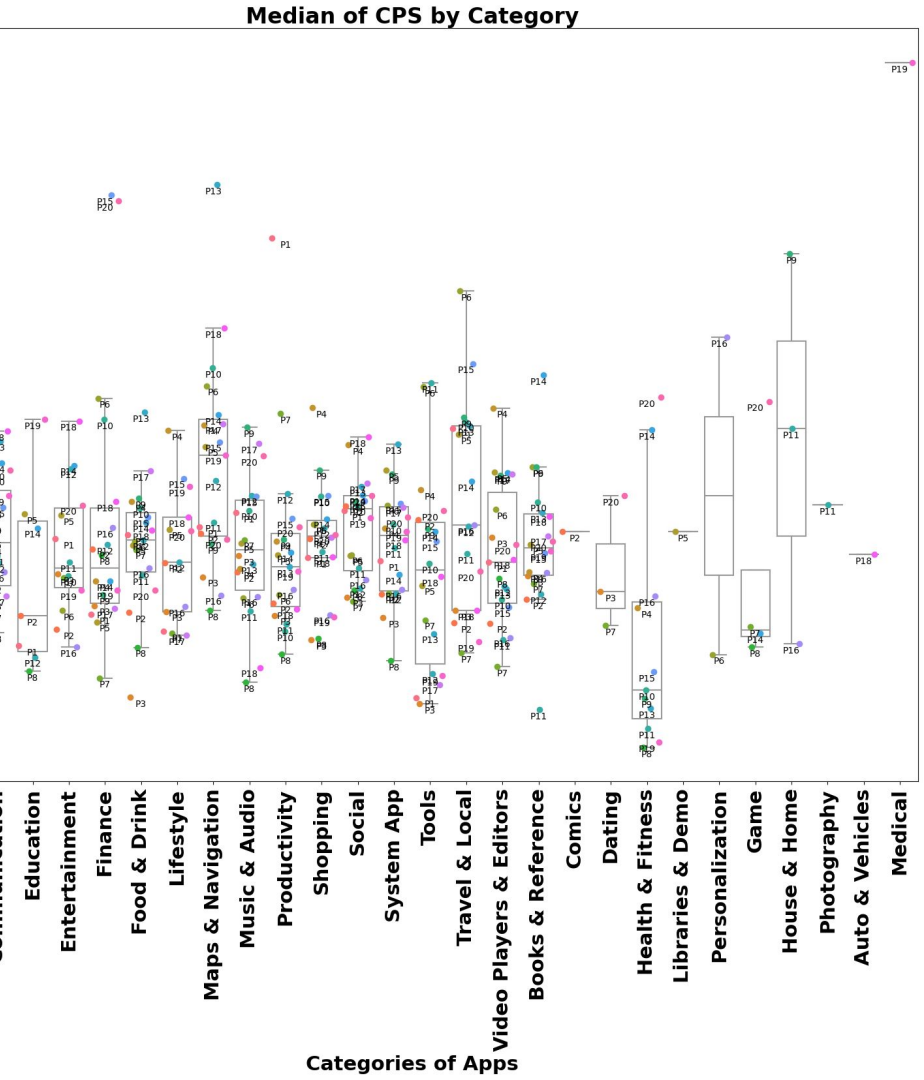

Intracharacter time by Category
Intracharacter Time (msec)
500
400
300
200
100
0
Beauty
Business
Communication
Education
Entertainment
Finance
Food & Drink
Lifestyle
Maps & Navigation
Music & Audio
Productivity
Shopping
Social
System App
Tools
Travel & Local
Video Players & Editors
Books & Reference
Comics
Dating
Health & Fitness
Libraries & Demo
Personalization
Game
House & Home
Photography
Auto & Vehicles
Categories of Apps

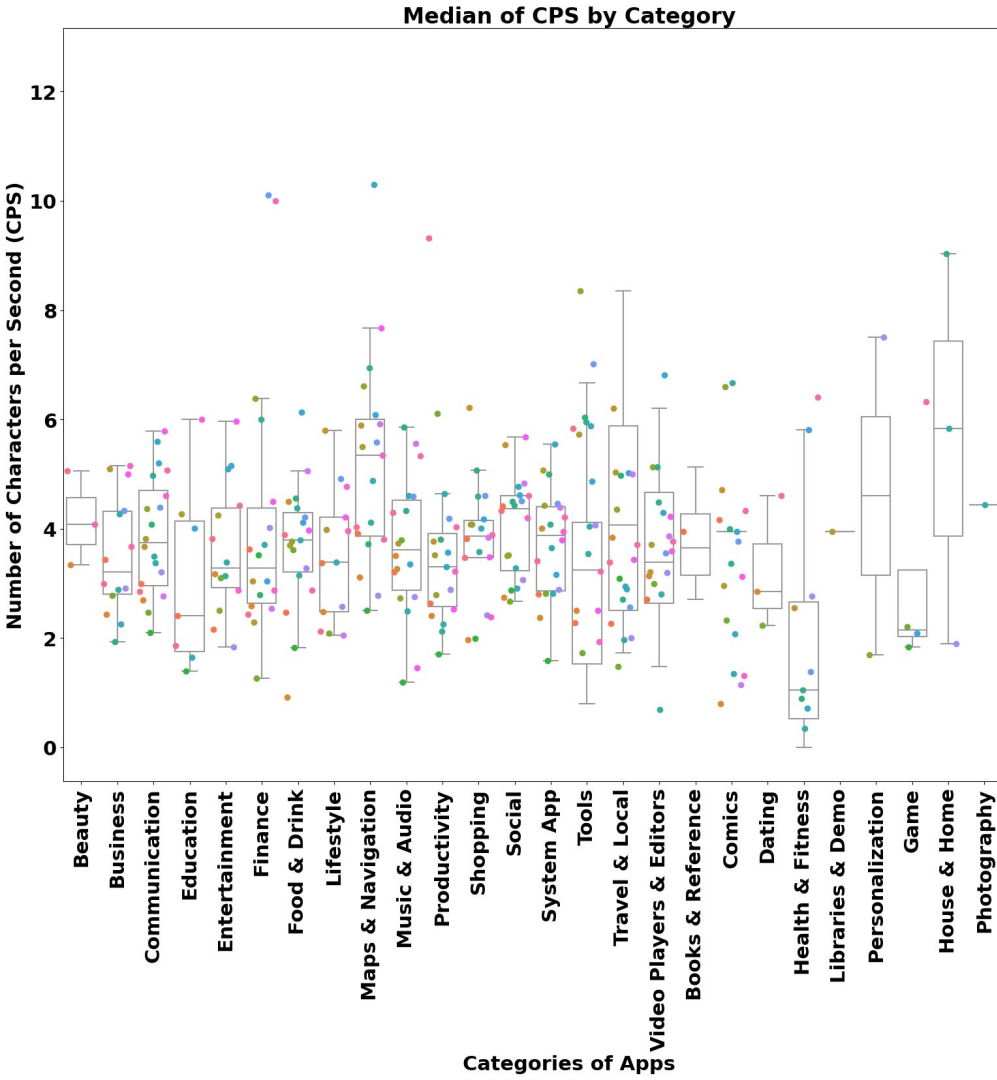


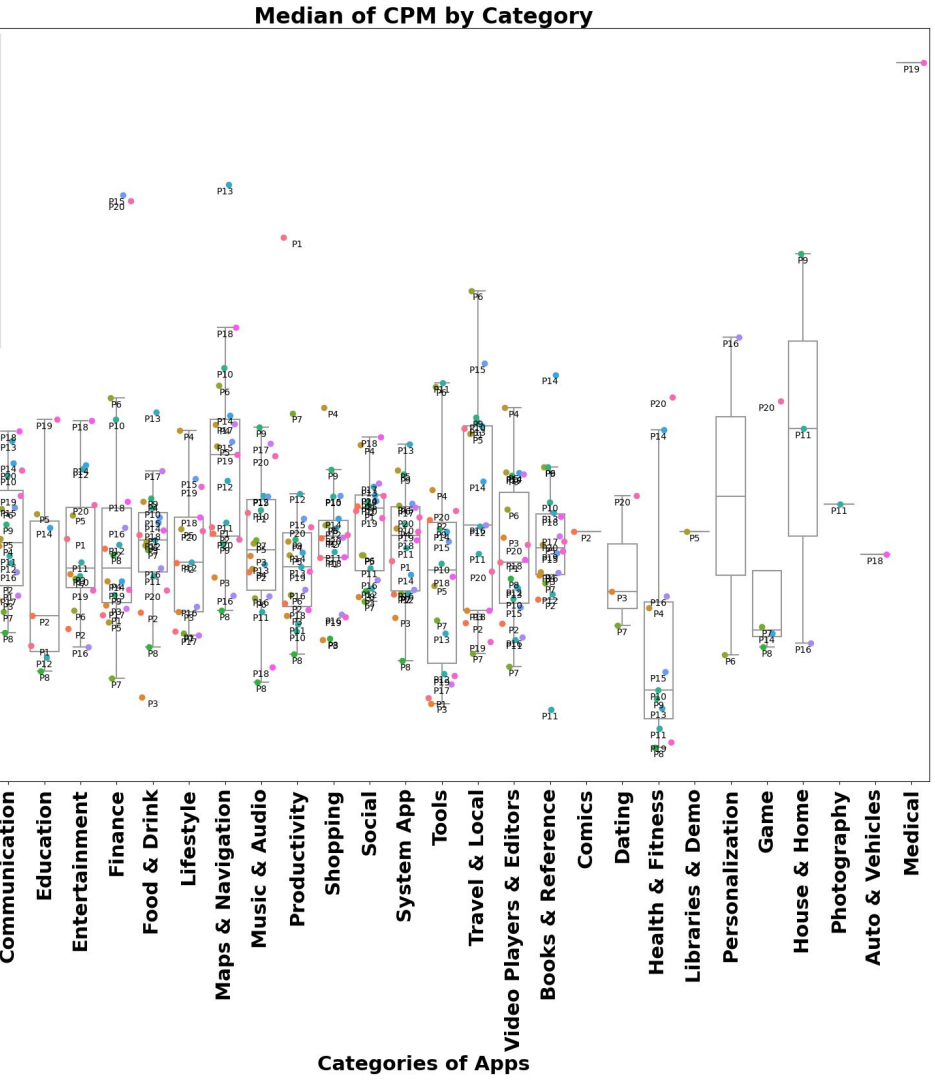
<Inter>		
System App	P3	563.594
Tools	P3	841.970
Music & Audio	P3	419.060
Health & Fitness	P11	514.960
Productivity	P11	526.336
Education	P12	979.200
Health & Fitness	P19	5465.500
Tools	P19	400.345

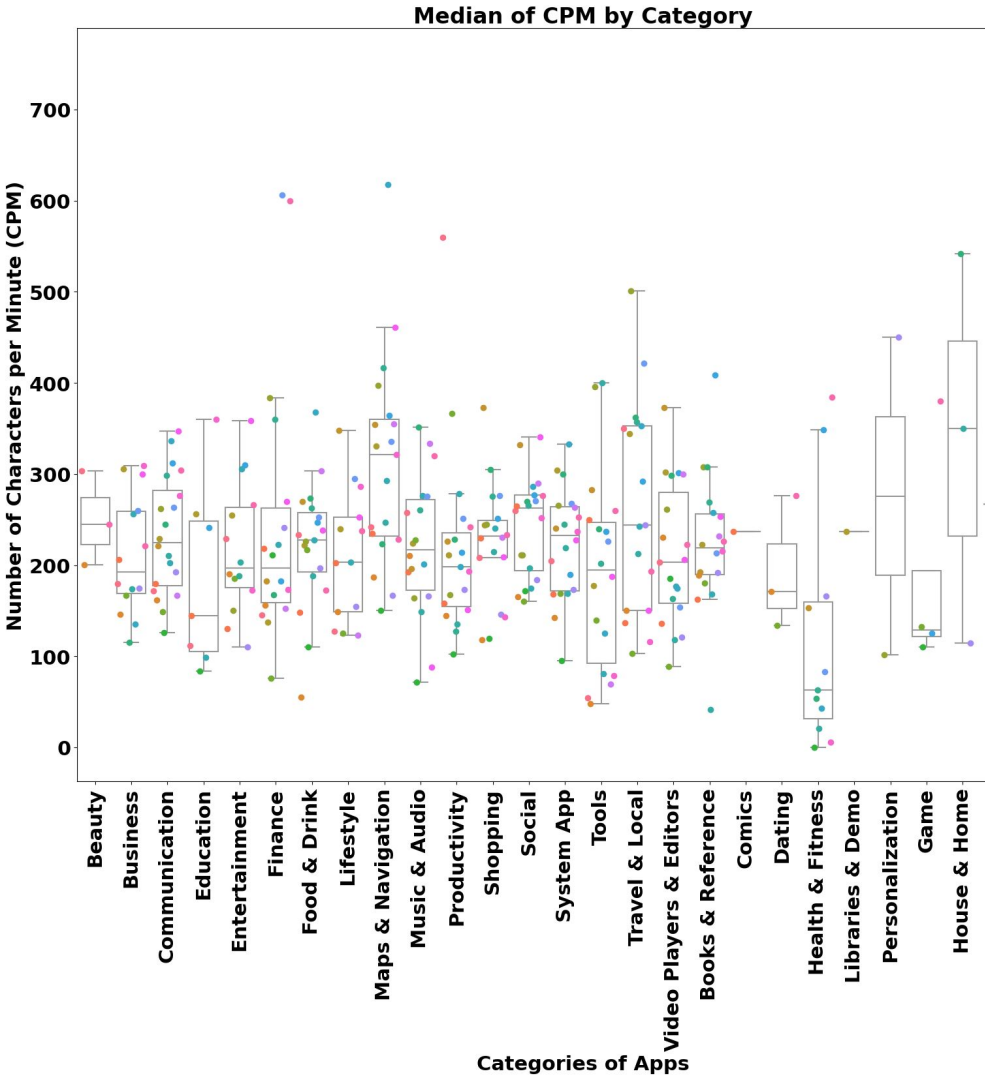


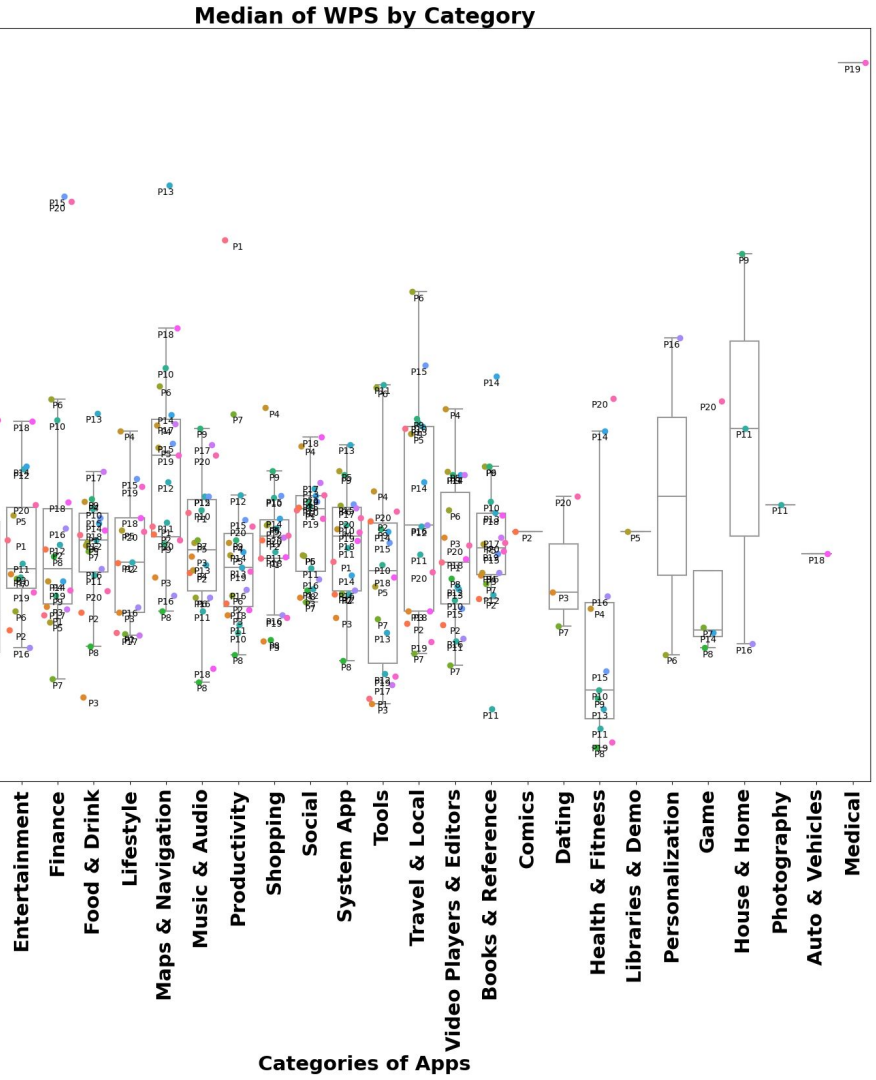
Median of typing metric

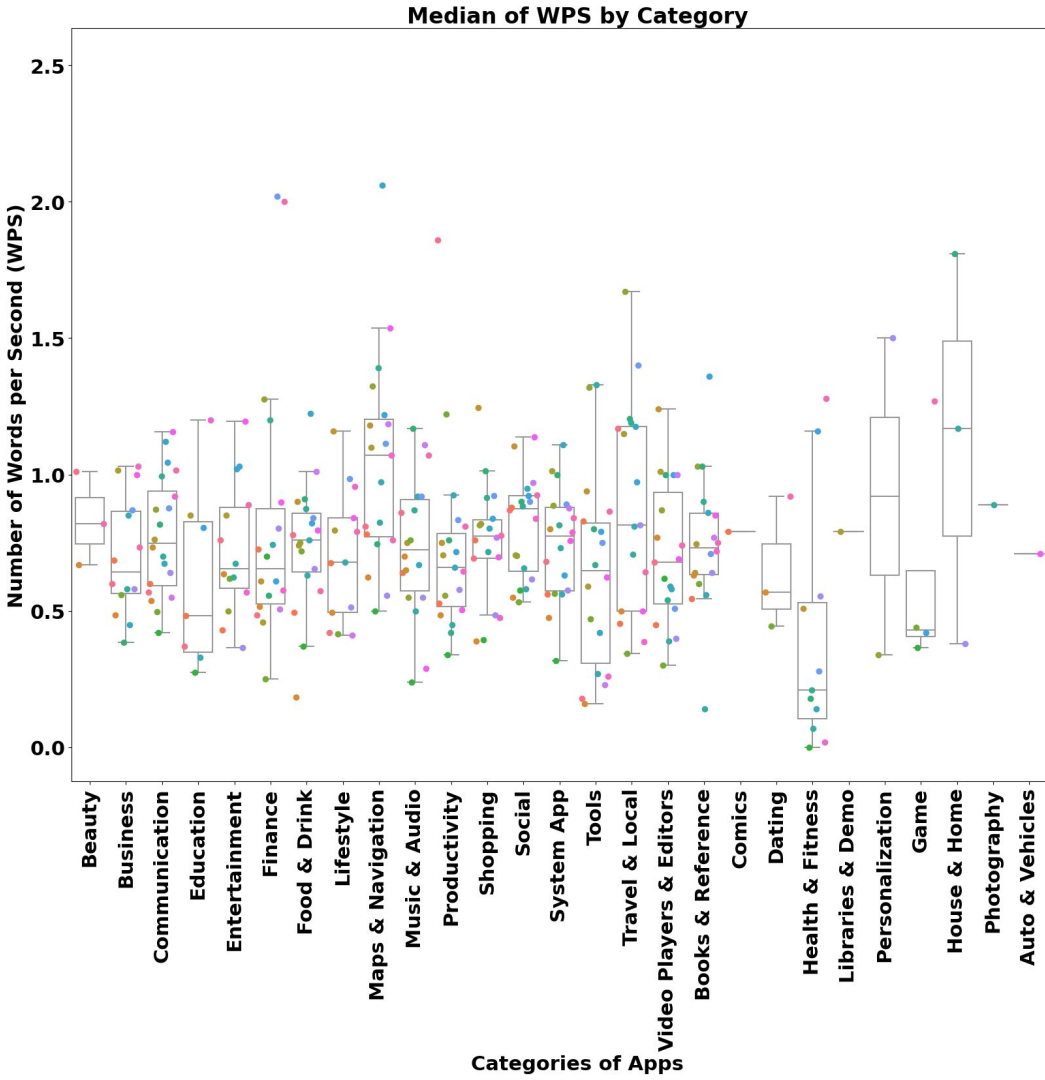

Median of CPS by Category
Education
Entertainment
Finance
Food & Drink
Lifestyle
Maps & Navigation
Music & Audio
Productivity
Shopping
Social
System App
Tools
Travel & Local
Video Players & Editors
Books & Reference
Comics
Dating
Health & Fitness
Libraries & Demo
Personalization
Game
House & Home
Photography
Auto & Vehicles
Medical
Categories of Apps

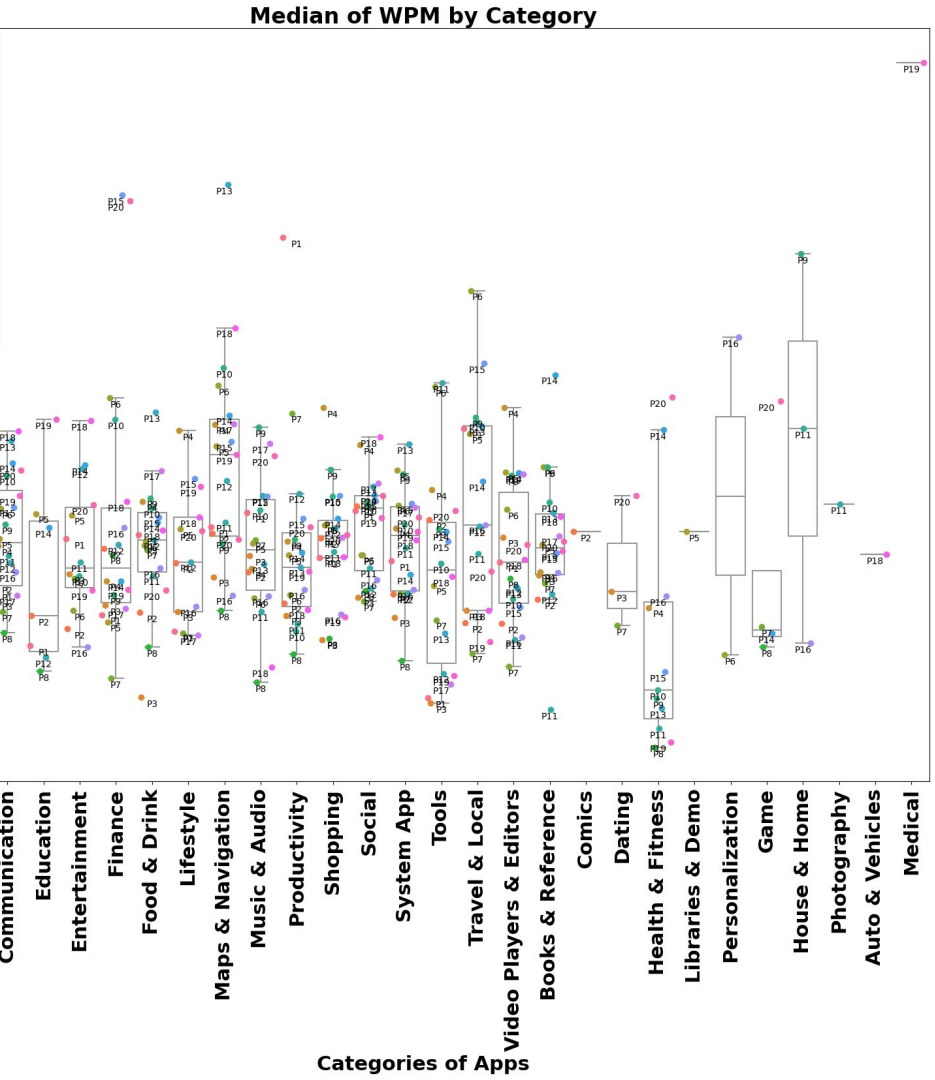

Median of CPS by Category
Number of Characters per Second (CPS)
0
2
4
6
8
10
12
Beauty
Business
Communication
Education
Entertainment
Finance
Food & Drink
Lifestyle
Maps & Navigation
Music & Audio
Productivity
Shopping
Social
System App
Tools
Travel & Local
Video Players & Editors
Books & Reference
Comics
Dating
Health & Fitness
Libraries & Demo
Personalization
Game
House & Home
Photography
Categories of Apps

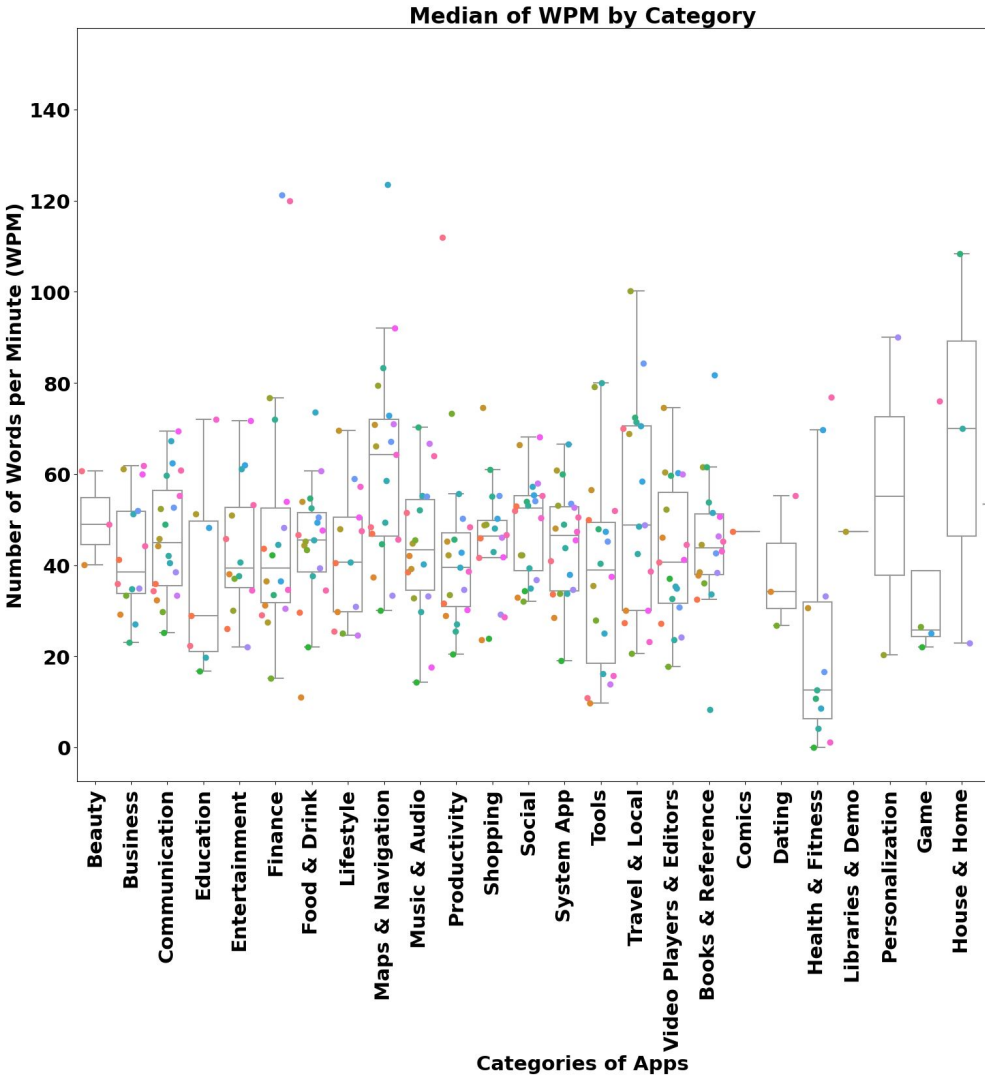

Median of CPM by Category
Communication
Education
Entertainment
Finance
Food & Drink
Lifestyle
Maps & Navigation
Music & Audio
Productivity
Shopping
Social
System App
Tools
Travel & Local
Video Players & Editors
Books & Reference
Comics
Dating
Health & Fitness
Libraries & Demo
Personalization
Game
House & Home
Photography
Auto & Vehicles
Medical
Categories of Apps


Median of CPM by Category
Number of Characters per Minute (CPM)
0
100
200
300
400
500
600
700
Beauty
Business
Communication
Education
Entertainment
Finance
Food & Drink
Lifestyle
Maps & Navigation
Music & Audio
Productivity
Shopping
Social
System App
Tools
Travel & Local
Video Players & Editors
Books & Reference
Comics
Dating
Health & Fitness
Libraries & Demo
Personalization
Game
House & Home
Categories of Apps

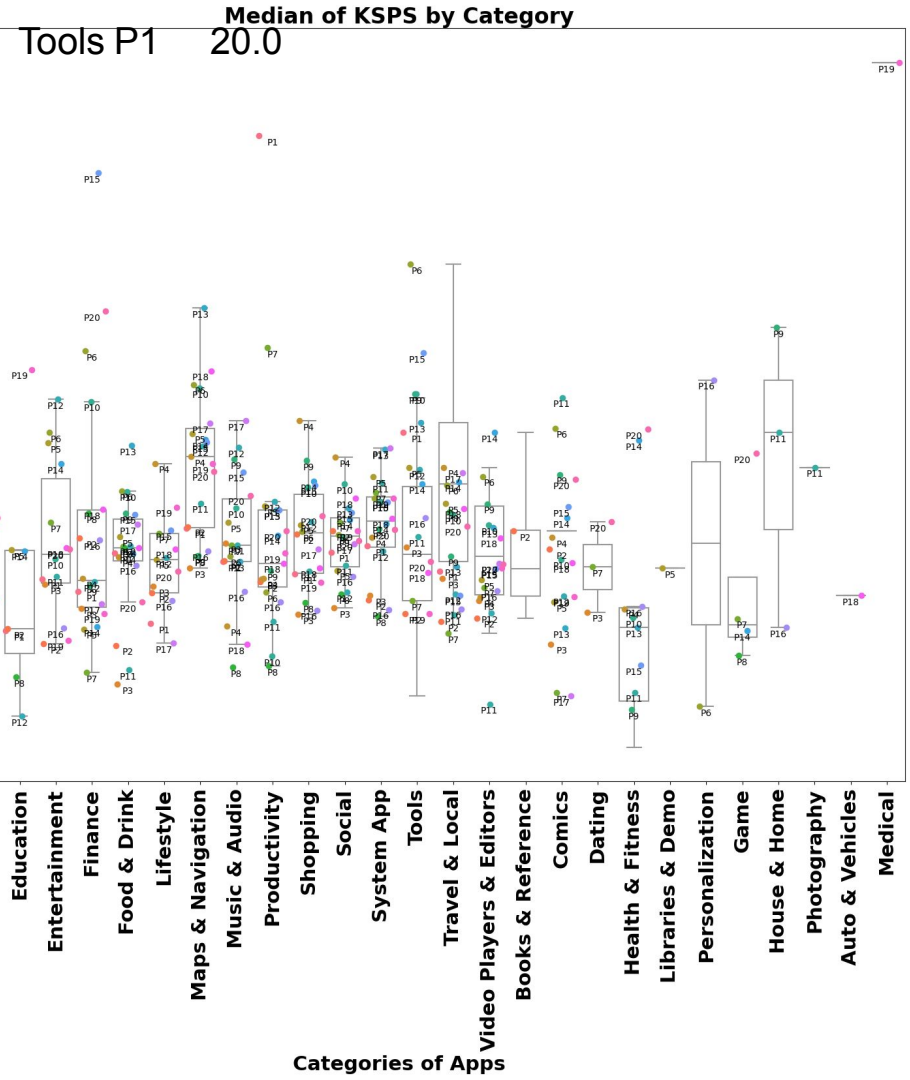

Median of WPS by Category
Entertainment
Finance
Food & Drink
Lifestyle
Maps & Navigation
Music & Audio
Productivity
Shopping
Social
System App
Tools
Travel & Local
Video Players & Editors
Books & Reference
Comics
Dating
Health & Fitness
Libraries & Demo
Personalization
Game
House & Home
Photography
Auto & Vehicles
Medical
Categories of Apps

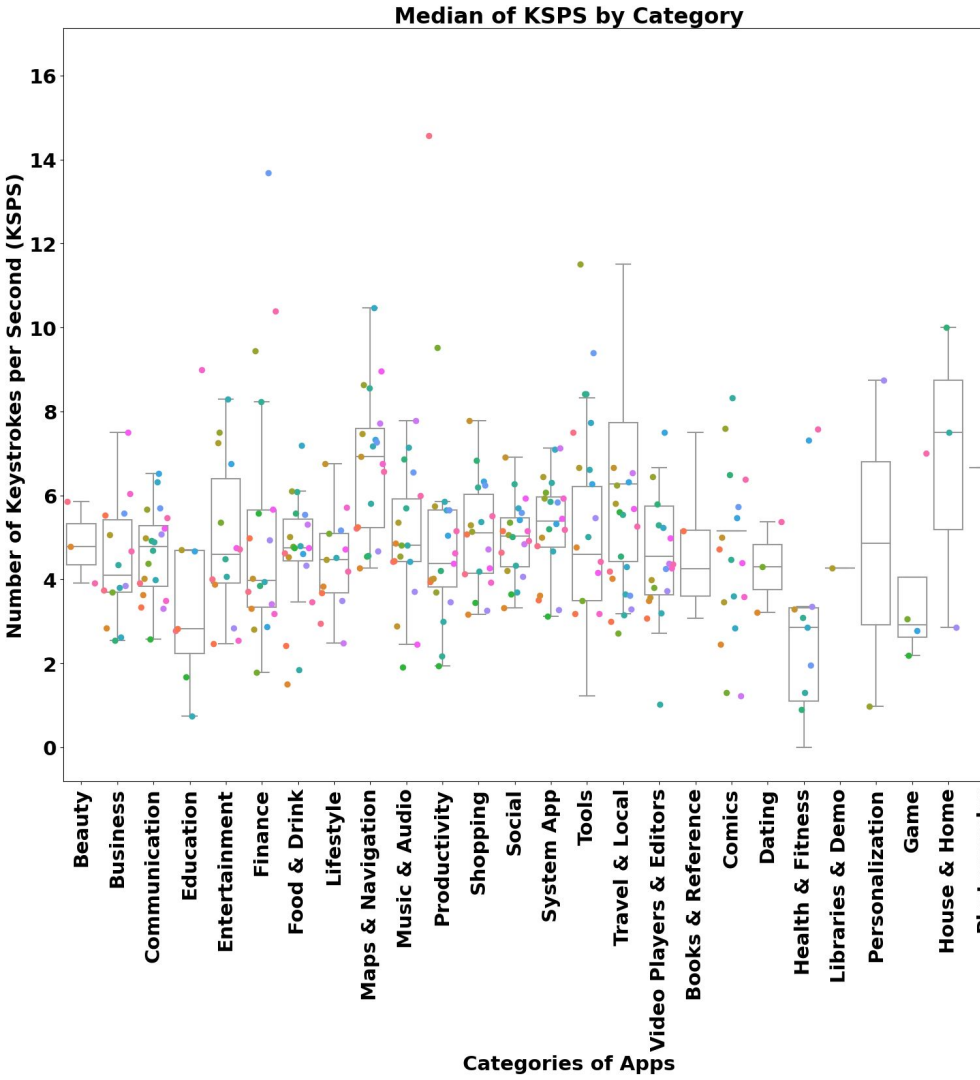

Median of WPS by Category
Number of Words per Second (WPS)
0.0
0.5
1.0
1.5
2.0
2.5
Beauty
Business
Communication
Education
Entertainment
Finance
Food & Drink
Lifestyle
Maps & Navigation
Music & Audio
Productivity
Shopping
Social
System App
Tools
Travel & Local
Video Players & Editors
Books & Reference
Comics
Dating
Health & Fitness
Libraries & Demo
Personalization
Game
House & Home
Photography
Auto & Vehicles
Categories of Apps

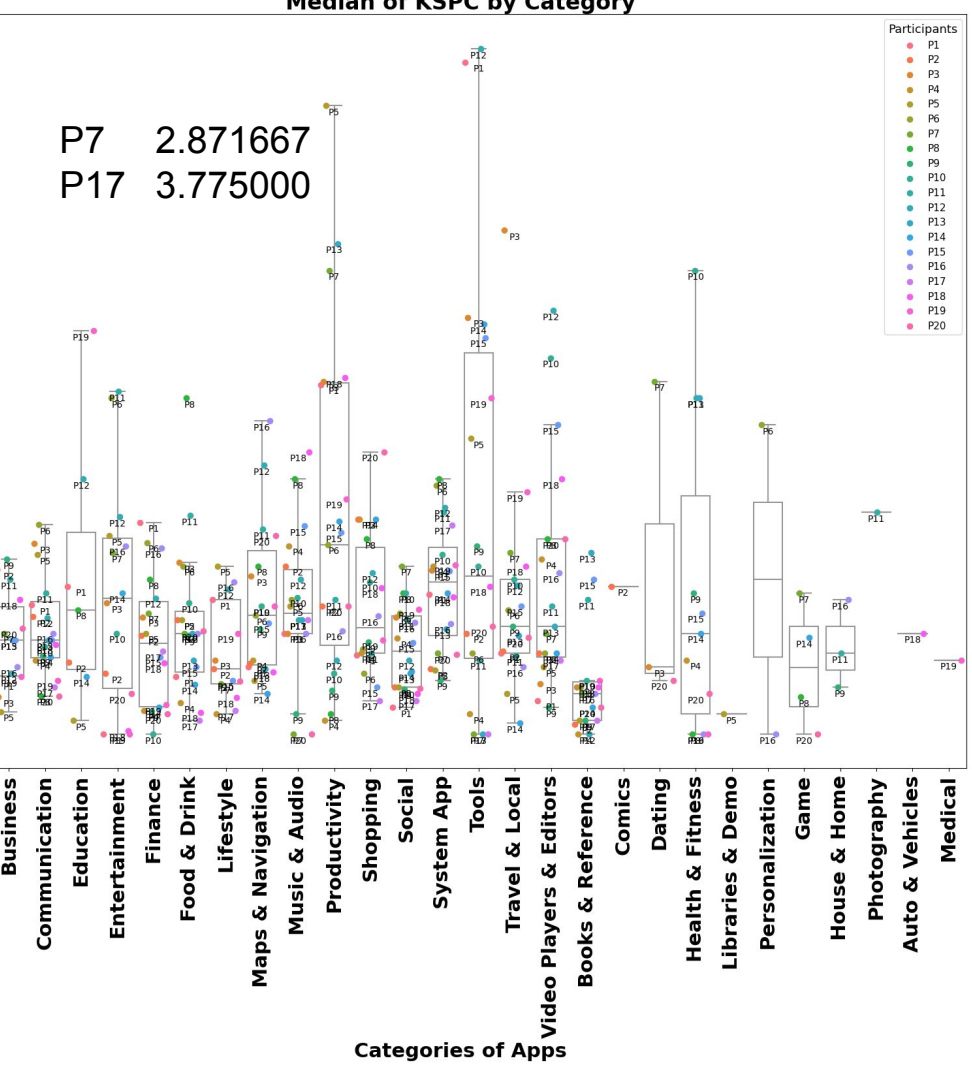

Median of WPM by Category
Communication
Education
Entertainment
Finance
Food & Drink
Lifestyle
Maps & Navigation
Music & Audio
Productivity
Shopping
Social
System App
Tools
Travel & Local
Video Players & Editors
Books & Reference
Comics
Dating
Health & Fitness
Libraries & Demo
Personalization
Game
House & Home
Photography
Auto & Vehicles
Medical
Categories of Apps

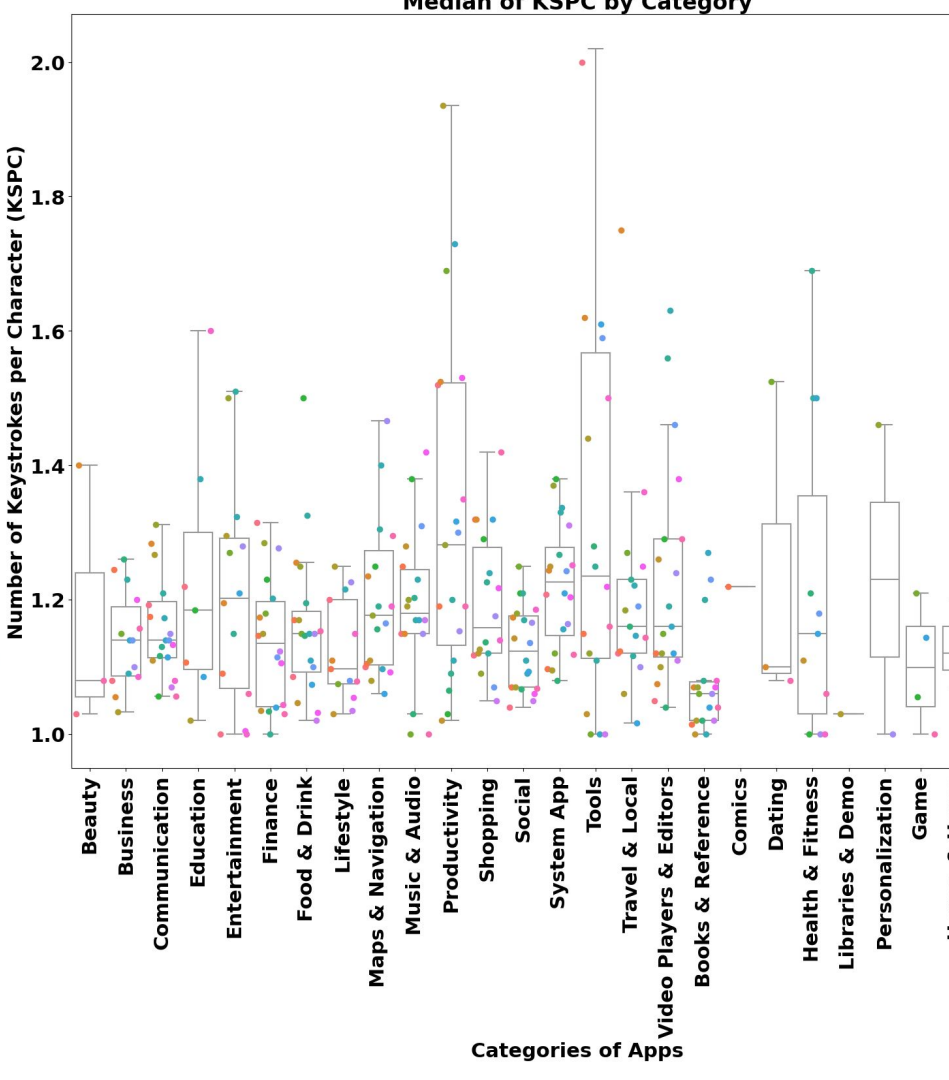

Median of WPM by Category
Number of Words per Minute (WPM)
0
20
40
60
80
100
120
140
Beauty
Business
Communication
Education
Entertainment
Finance
Food & Drink
Lifestyle
Maps & Navigation
Music & Audio
Productivity
Shopping
Social
System App
Tools
Travel & Local
Video Players & Editors
Books & Reference
Comics
Dating
Health & Fitness
Libraries & Demo
Personalization
Game
House & Home
Categories of Apps

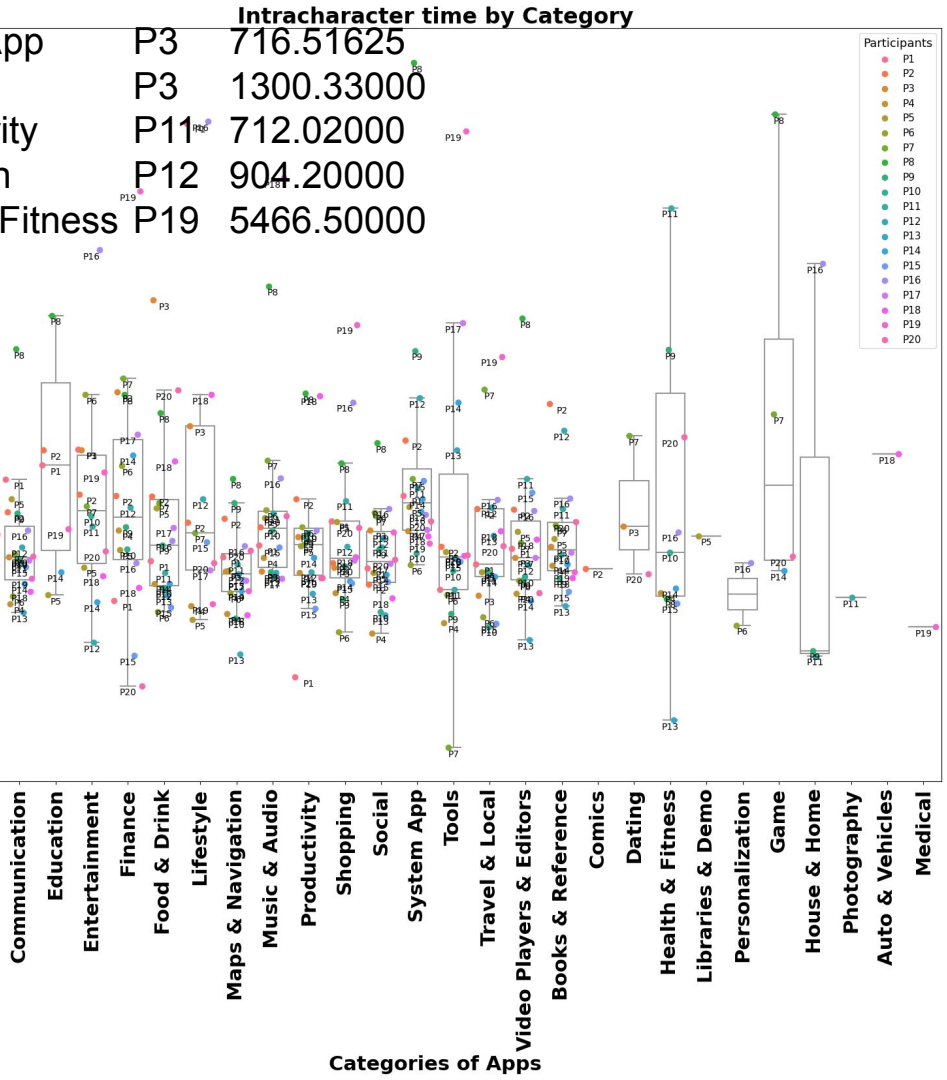
Tools P1 20.0

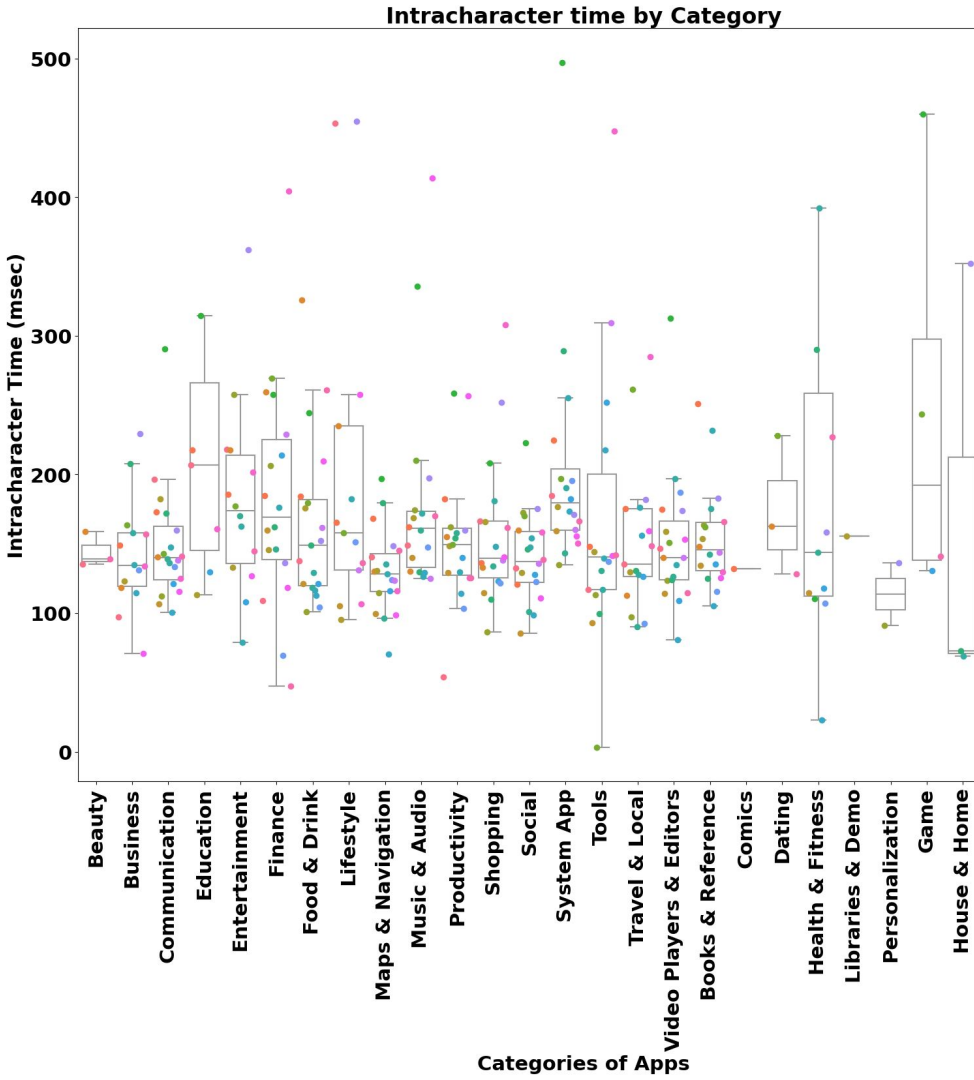

Median of KSPS by Category
Education
Entertainment
Finance
Food & Drink
Lifestyle
Maps & Navigation
Music & Audio
Productivity
Shopping
Social
System App
Tools
Travel & Local
Video Players & Editors
Books & Reference
Comics
Dating
Health & Fitness
Libraries & Demo
Personalization
Game
House & Home
Photography
Auto & Vehicles
Medical
Categories of Apps

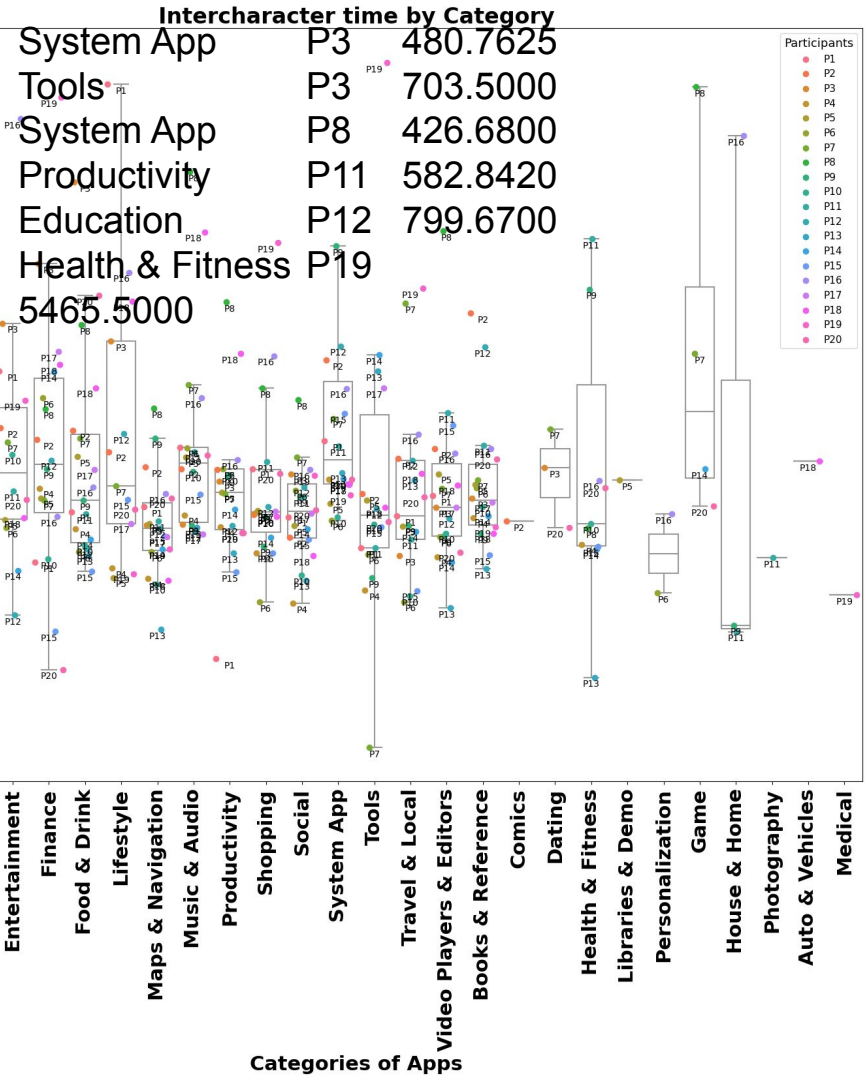

Median of KSPS by Category
Number of Keystrokes per Second (KSPS)
0
2
4
6
8
10
12
14
16
Beauty
Business
Communication
Education
Entertainment
Finance
Food & Drink
Lifestyle
Maps & Navigation
Music & Audio
Productivity
Shopping
Social
System App
Tools
Travel & Local
Video Players & Editors
Books & Reference
Comics
Dating
Health & Fitness
Libraries & Demo
Personalization
Game
House & Home
Categories of Apps

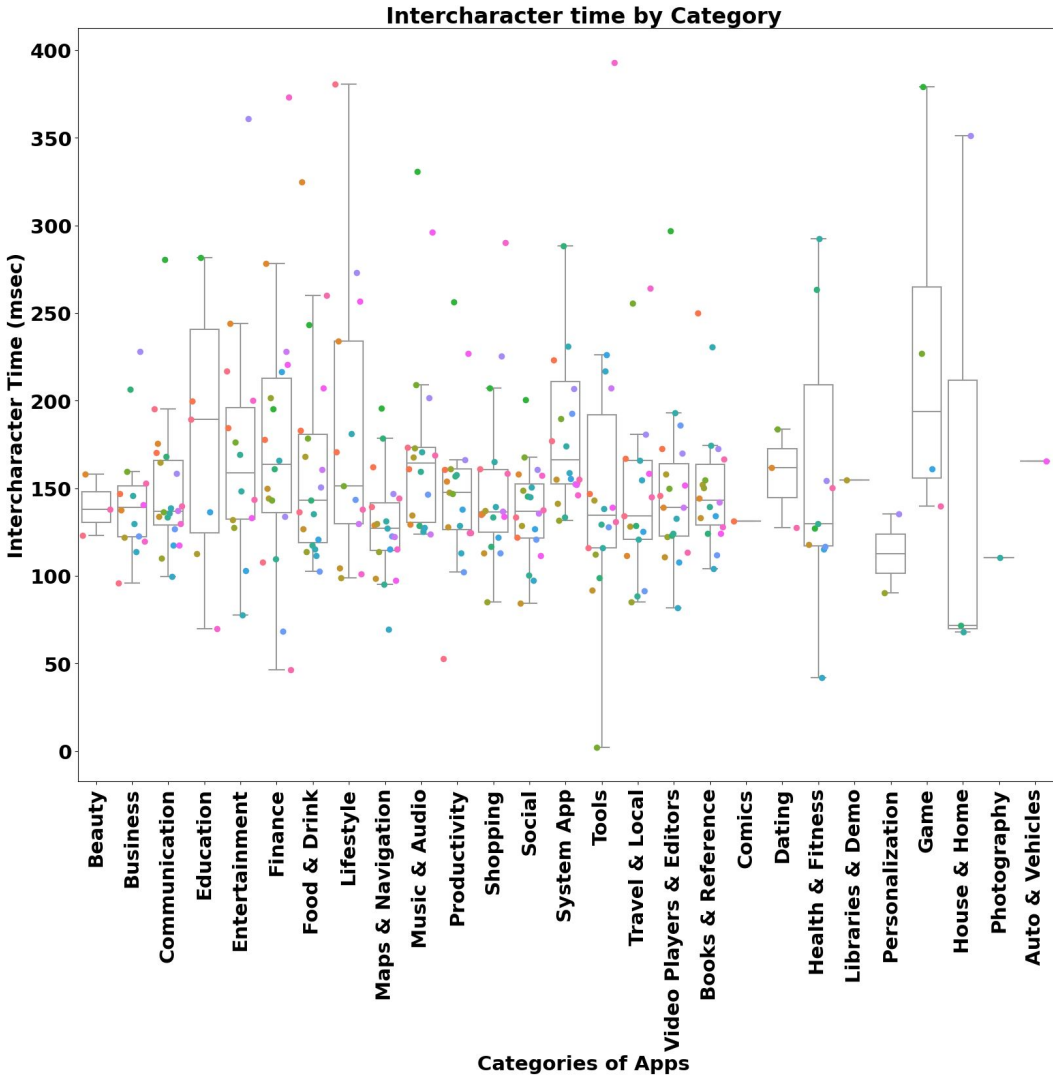

Median of KSPC by Category
P7 2.871667
P17 3.775000
Participants
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
Business
Communication
Education
Entertainment
Finance
Food & Drink
Lifestyle
Maps & Navigation
Music & Audio
Productivity
Shopping
Social
System App
Tools
Travel & Local
Video Players & Editors
Books & Reference
Comics
Dating
Health & Fitness
Libraries & Demo
Personalization
Game
House & Home
Photography
Auto & Vehicles
Medical
Categories of Apps


Median of KSPC by Category
Number of Keystrokes per Character (KSPC)
2.0
1.8
1.6
1.4
1.2
1.0
Beauty
Business
Communication
Education
Entertainment
Finance
Food & Drink
Lifestyle
Maps & Navigation
Music & Audio
Productivity
Shopping
Social
System App
Tools
Travel & Local
Video Players & Editors
Books & Reference
Comics
Dating
Health & Fitness
Libraries & Demo
Personalization
Game
Categories of Apps


Intracharacter time by Category
pp P3 716.51625
P3 1300.33000
ity P11 712.02000
n P12 904.20000
Fitness P19 5466.50000
Participants
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
Communication
Education
Entertainment
Finance
Food & Drink
Lifestyle
Maps & Navigation
Music & Audio
Productivity
Shopping
Social
System App
Tools
Travel & Local
Video Players & Editors
Books & Reference
Comics
Dating
Health & Fitness
Libraries & Demo
Personalization
Game
House & Home
Photography
Auto & Vehicles
Medical
Categories of Apps

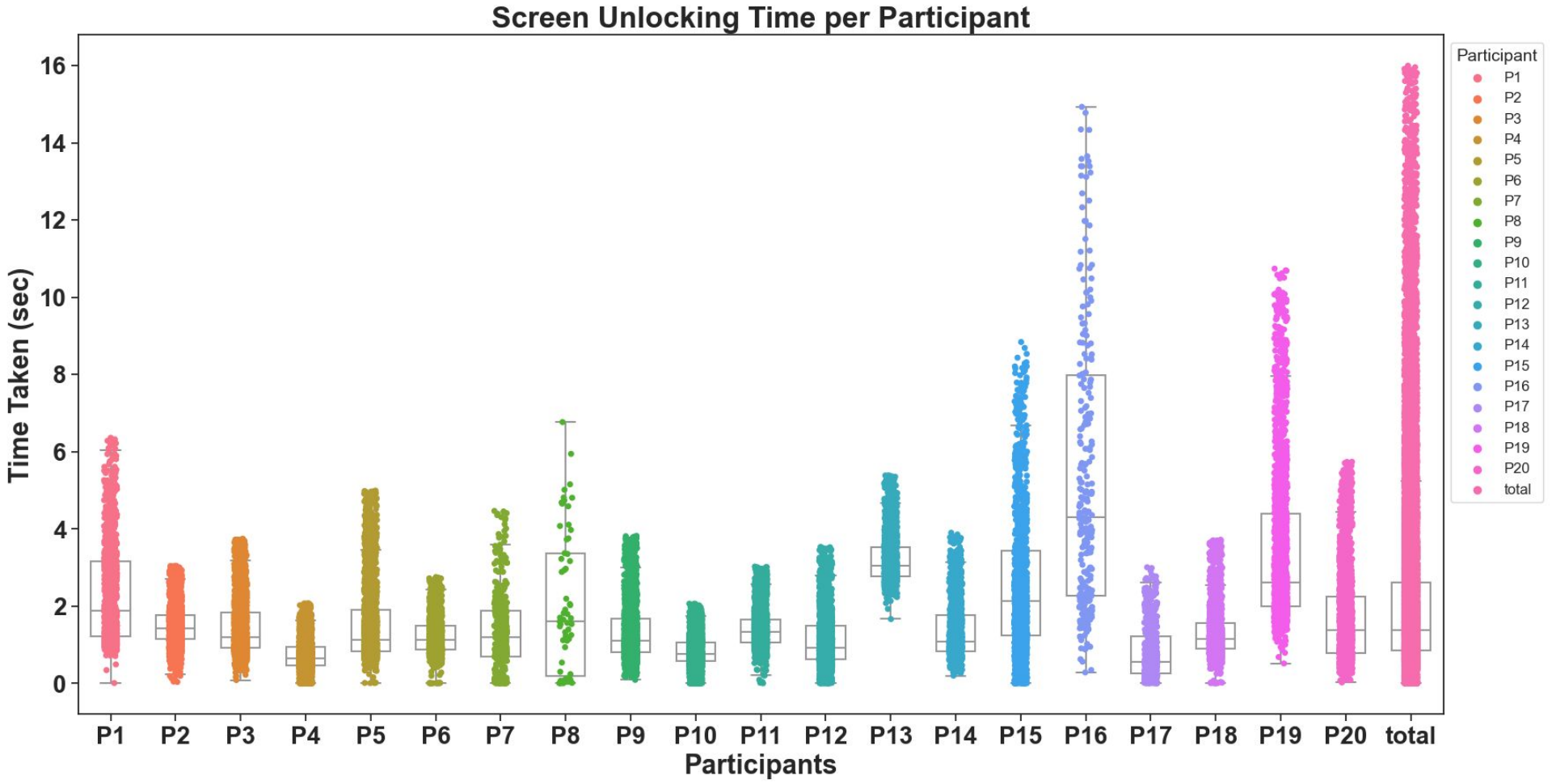

Intracharacter time by Category
Intracharacter Time (msec)
0
100
200
300
400
500
Beauty
Business
Communication
Education
Entertainment
Finance
Food & Drink
Lifestyle
Maps & Navigation
Music & Audio
Productivity
Shopping
Social
System App
Tools
Travel & Local
Video Players & Editors
Books & Reference
Comics
Dating
Health & Fitness
Libraries & Demo
Personalization
Game
House & Home
Categories of Apps

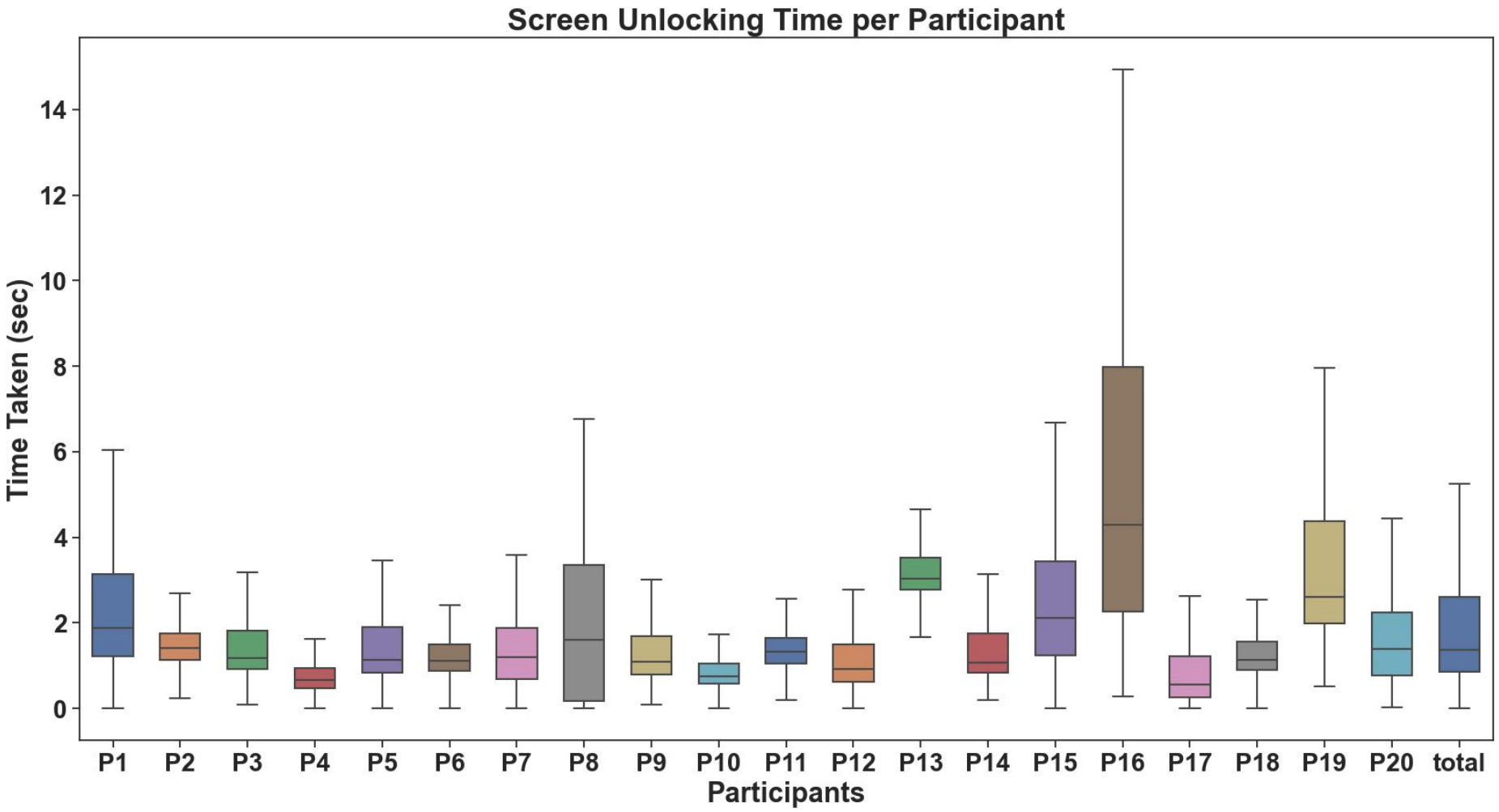

Intercharacter time by Category
System App P3 480.7625
Tools P3 703.5000
System App P8 426.6800
Productivity P11 582.8420
Education P12 799.6700
Health & Fitness P19
5465.5000
Participants
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
Entertainment
Finance
Food & Drink
Lifestyle
Maps & Navigation
Music & Audio
Productivity
Shopping
Social
System App
Tools
Travel & Local
Video Players & Editors
Books & Reference
Comics
Dating
Health & Fitness
Libraries & Demo
Personalization
Game
House & Home
Photography
Auto & Vehicles
Medical
Categories of Apps

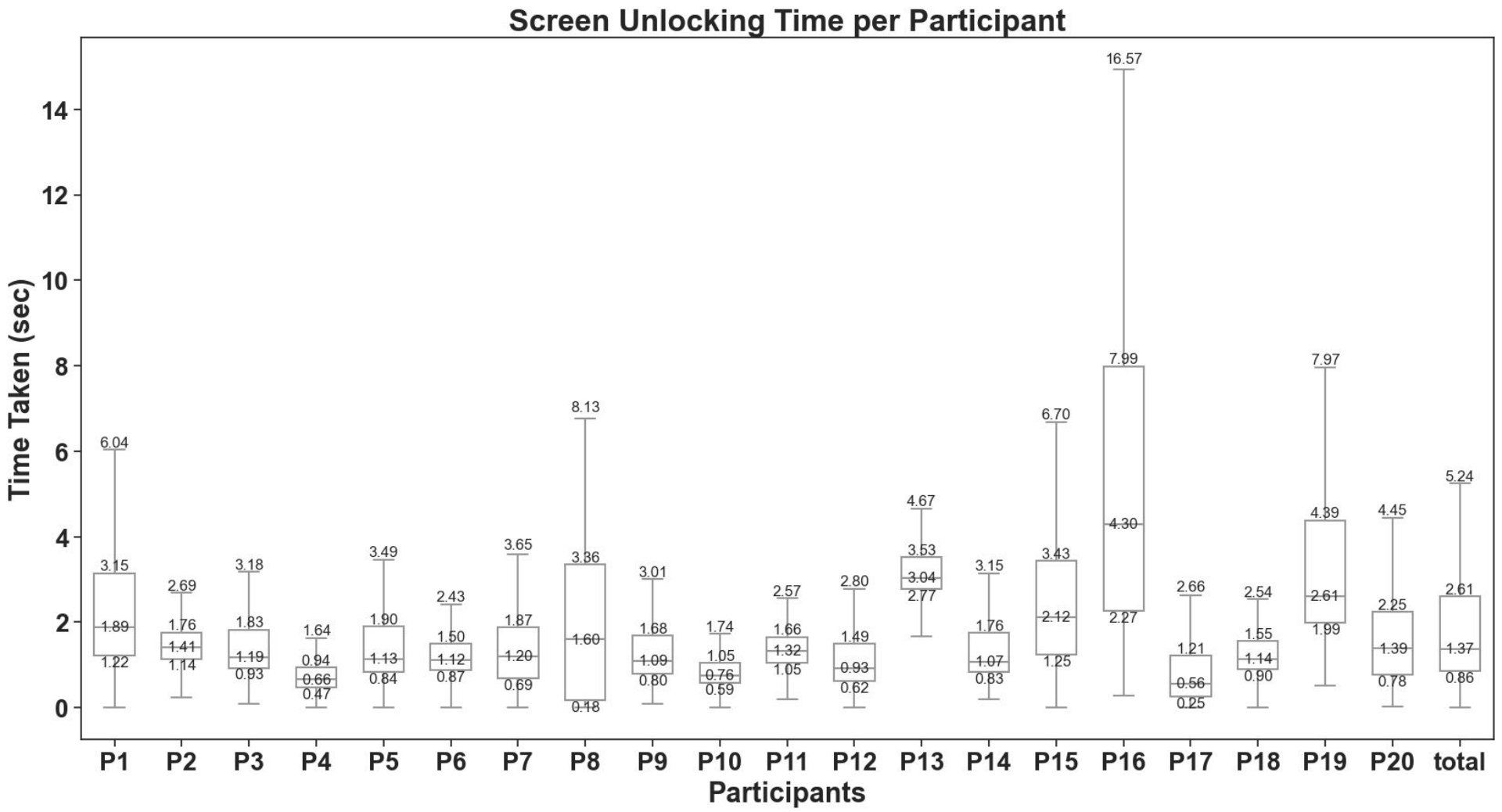

Intercharacter time by Category
Intercharacter Time (msec)
400
350
300
250
200
150
100
50
0
Beauty
Business
Communication
Education
Entertainment
Finance
Food & Drink
Lifestyle
Maps & Navigation
Music & Audio
Productivity
Shopping
Social
System App
Tools
Travel & Local
Video Players & Editors
Books & Reference
Comics
Dating
Health & Fitness
Libraries & Demo
Personalization
Game
House & Home
Photography
Auto & Vehicles
Categories of Apps

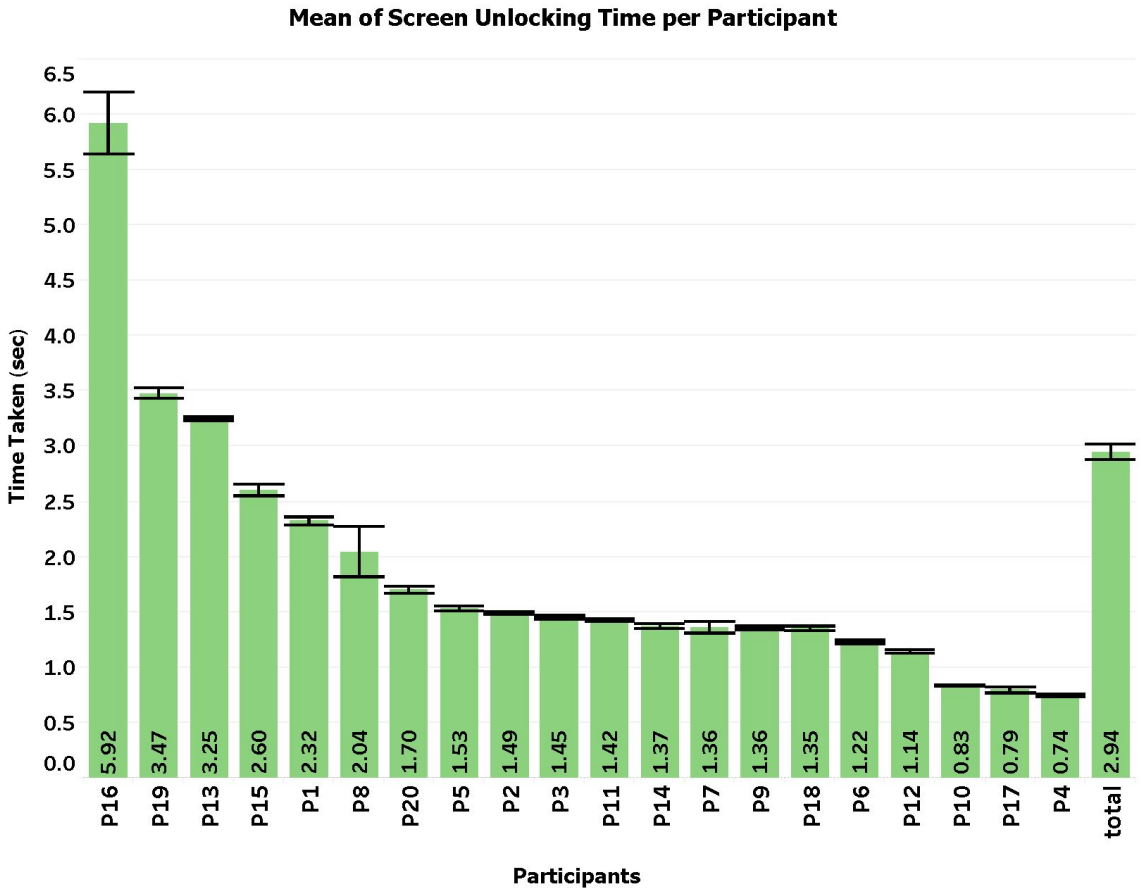
Screen Unlocking

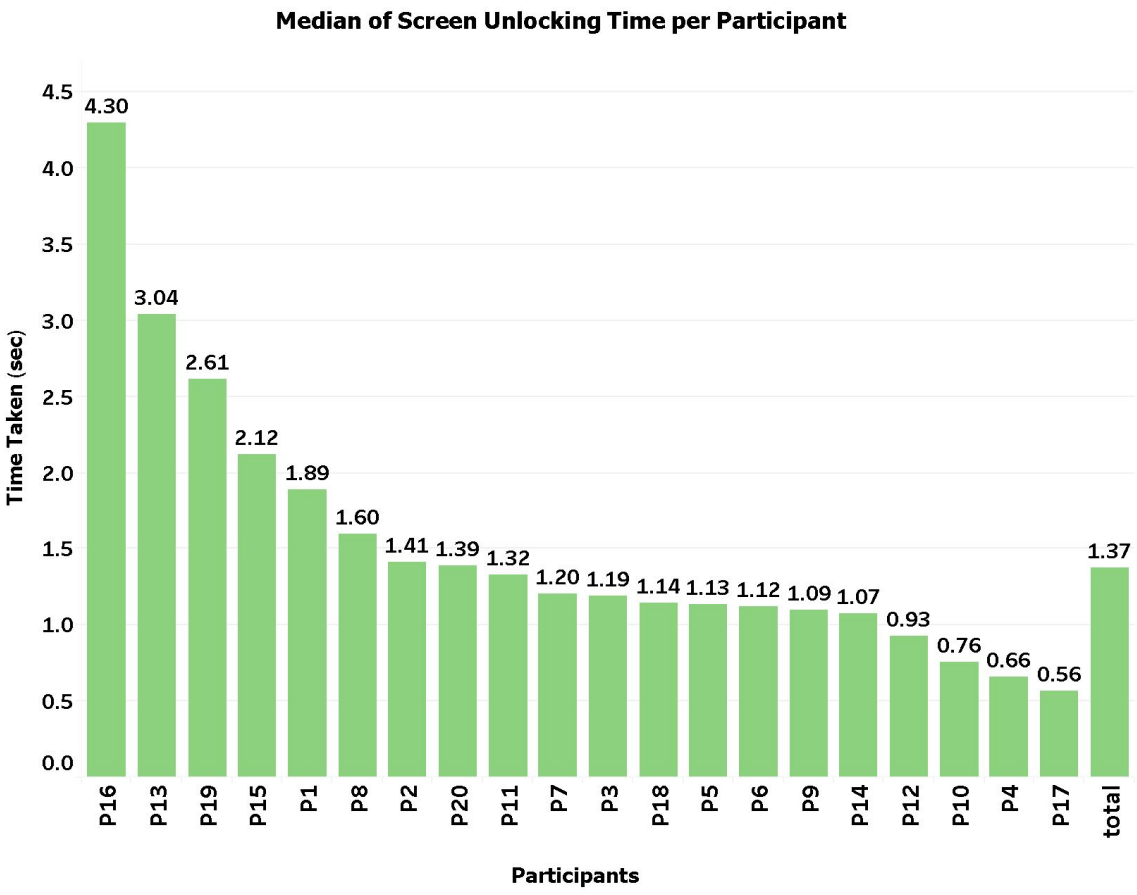
- Tester 별 수염 그래프
  - x축은 tester 번호, y축은 screen unlocking time
- Tester 막대 그래프 (평균 (막대) + std (작대기)
  - x축은 tester번호, y축은 평균 (표준편차)
  - x축은 tester번호, y축은 median (표준편차)


Screen Unlocking Time per Participant
Time Taken (sec)
0
2
4
6
8
10
12
14
16
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
total
Participants
Participant
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
total


Screen Unlocking Time per Participant
Time Taken (sec)
0
2
4
6
8
10
12
14
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
total
Participants


Screen Unlocking Time per Participant
Time Taken (sec)
0
2
4
6
8
10
12
14
P1
P2
P3
P4
P5
P6
P7
P8
P9
P10
P11
P12
P13
P14
P15
P16
P17
P18
P19
P20
total
Participants
6.04
3.15
1.89
1.22
2.69
1.76
1.41
1.14
3.18
1.83
1.19
0.93
1.64
0.94
0.66
0.47
3.49
1.90
1.13
0.84
2.43
1.50
1.12
0.87
3.65
1.87
1.20
0.69
8.13
3.36
1.60
0.18
3.01
1.68
1.09
0.80
1.74
1.05
0.76
0.59
2.57
1.66
1.32
1.05
2.80
1.49
0.93
0.62
4.67
3.53
3.04
2.77
3.15
1.76
1.07
0.83
6.70
3.43
2.12
1.25
16.57
7.99
4.30
2.27
2.66
1.21
0.56
0.25
2.54
1.55
1.14
0.90
7.97
4.39
2.61
1.99
4.45
2.25
1.39
0.78
5.24
2.61
1.37
0.86


Mean of Screen Unlocking Time per Participant
Time Taken (sec)
6.5
6.0
5.5
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
5.92
3.47
3.25
2.60
2.32
2.04
1.70
1.53
1.49
1.45
1.42
1.37
1.36
1.36
1.35
1.22
1.14
0.83
0.79
0.74
2.94
P16
P19
P13
P15
P1
P8
P20
P5
P2
P3
P11
P14
P7
P9
P18
P6
P12
P10
P17
P4
total
Participants


Median of Screen Unlocking Time per Participant
Time Taken (sec)
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
4.30
3.04
2.61
2.12
1.89
1.60
1.41
1.39
1.32
1.20
1.19
1.14
1.13
1.12
1.09
1.07
0.93
0.76
0.66
0.56
1.37
P16
P13
P19
P15
P1
P8
P2
P20
P11
P7
P3
P18
P5
P6
P9
P14
P12
P10
P4
P17
total
Participants