Car share Summery

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## From Person Datasets

* If excluding missing data, the percentage of people who has car share app is 5.2% in 2014, and the percentage of people who has car share membership is 8.9% in 2015. The number is 2.2% versus 4.8% after apply geographical weights. See Table 1 and Table 2.
* About 22.7% of the people shows interest in car share in 2015(excludes missing data). See Table 3
* In 2015 survey,4.7% people have used car2go and 2.7% have used more than once in the mouth before they conducted the survey. 11.6% have used Uberx and half of them have used more than once in the mouth before they conducted the survey. (excludes missing data). The rate for zipcar and lyft are 3.8% and 3.9%. See Table 4
* From panel dataset, 93 out of 3117 people who did not use car share app in 2014 become care share membership in 2015. Among them, 2/3 started to use car2go and the other were using Zipcar.
* From the same group who participated in both 2014 and 2015 survey, more car share trips are obeserved. See Table 5

Table 2014 Survey Result

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | info\_carshare | Freq | Percent | Percent\_w | apps\_carshare | Freq | Percent | Percent\_w |
| Wrong | -99 | 332 | 2.70% | 2.60% | -99 | 332 | 2.70% | 2.60% |
| Not selected | 0 | 5201 | 42.60% | 37.50% | 0 | 2677 | 21.90% | 17.70% |
| Selected | 1 | 208 | 1.70% | 0.70% | 1 | 151 | 1.20% | 0.40% |
| Missing | NA | 6457 | 52.90% | 59.30% | NA | 9038 | 74.10% | 79.30% |

Table 2015 Survey Carshare Membership

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | carshare\_car2go | | | carshare\_relayrides | | | carshare\_zipcar | | |
|  | **Freq** | **Percent** | **Percent\_w** | **Freq** | **Percent** | **Percent\_w** | **Freq** | **Percent** | **Percent\_w** |
| Not selected | 3585 | 74.90% | 69.60% | 3794 | 79.30% | 71.10% | 3655 | 76.40% | 70.00% |
| Selected | 215 | 4.50% | 1.60% | 6 | 0.10% | 0.10% | 145 | 3.00% | 1.20% |
| Missing | 986 | 20.60% | 28.80% | 986 | 20.60% | 28.80% | 986 | 20.60% | 28.80% |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | carshare\_none | | | carshare\_dontknow | | | carshare\_other | | |
|  | **Freq** | **Percent** | **Percent\_w** | **Freq** | **Percent** | **Percent\_w** | **Freq** | **Percent** | **Percent\_w** |
| Not selected | 339 | 7.10% | 3.40% | 3756 | 78.50% | 70.20% | 3790 | 79.20% | 71.00% |
| Selected | 3461 | 72.30% | 67.80% | 44 | 0.90% | 1.00% | 10 | 0.20% | 0.20% |
| Missing | 986 | 20.60% | 28.80% | 986 | 20.60% | 28.80% | 986 | 20.60% | 28.80% |

Table 2015 Interests of Car share

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| av\_interest\_carshare | Code | Freq | Percent | Percent\_w |
| Very interested | 1 | 369 | 7.70% | 6.30% |
| Somewhat interested | 2 | 454 | 9.50% | 8.60% |
| Neutral | 3 | 437 | 9.10% | 8.80% |
| Somewhat uninterested | 4 | 220 | 4.60% | 2.70% |
| Not at all interested | 5 | 1759 | 36.80% | 31.20% |
| Don’t know | 6 | 365 | 7.60% | 8.30% |
| NA | NA | 1182 | 24.70% | 34.00% |

Table Carshare Frequency of Use 2015

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | share\_  freq\_car2go | | share\_  freq\_relayrids | | share\_  freq\_zipcar | | share\_  freq\_othercar | | share\_  freq\_lyft | | share\_  freq\_sidecar | |
| codes | **Freq** | **Percent** | **Freq** | **Percent** | **Freq** | **Percent** | **Freq** | **Percent** | **Freq** | **Percent** | **Freq** | **Percent** |
| 1 | 1 | 0 | 1 | 0 | 1 | 0 | 1 | 0 | 3 | 0.001 | 1 | 0 |
| 2 | 4 | 0.001 |  |  |  |  | 3 | 0.001 |  |  |  |  |
| 3 | 20 | 0.004 |  |  | 3 | 0.001 | 4 | 0.001 | 5 | 0.001 | 1 | 0 |
| 4 | 15 | 0.003 | 1 | 0 | 8 | 0.002 | 3 | 0.001 | 10 | 0.002 |  |  |
| 5 | 73 | 0.015 | 1 | 0 | 38 | 0.008 | 16 | 0.003 | 65 | 0.014 | 3 | 0.001 |
| 6 | 87 | 0.018 | 15 | 0.003 | 106 | 0.022 | 17 | 0.004 | 75 | 0.016 | 12 | 0.003 |
| 7 | 3939 | 0.823 | 4121 | 0.861 | 3983 | 0.832 | 4095 | 0.856 | 3981 | 0.832 | 4122 | 0.861 |
| NA | 647 | 0.135 | 647 | 0.135 | 647 | 0.135 | 647 | 0.135 | 647 | 0.135 | 647 | 0.135 |

## From Trip Datasets

Table Car share information in Trip Data

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| vehicle | Trips | | Trips of Panel Data | |
|  | **freq15** | **freq14** | **freq14** | **freq15** |
| carshare | 50 | 51 | 11 | 25 |
| Household vehicle | 12585 | 32445 | 8059 | 7659 |
| other | 833 | 1707 | 446 | 580 |
| vanpool | 50 | 141 | 41 | 38 |
| NA | 5194 | 13574 | 3982 | 3666 |

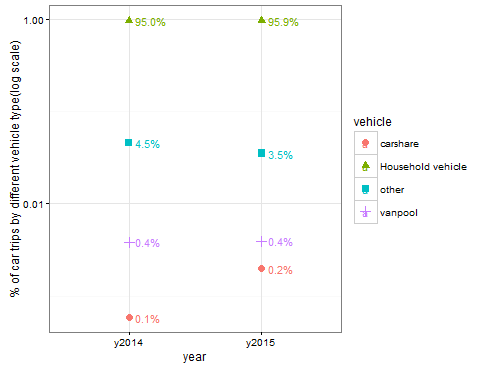
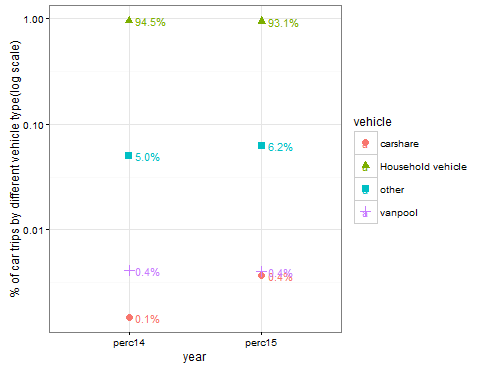


Figure Table 5 Trip Percentage by Vehicel Type(applied weights)

Figure Table 5 Trip Percentage by Vehicel Type

# Appendix Code book for car share variable in survey

|  |  |  |  |
| --- | --- | --- | --- |
| carshare\_car2go |  |  | Has carshare membership: car2go |
| *Valid Values* | 0 | Not selected |  |
|  | 1 | Selected |  |
| carshare\_relayrides |  |  | **Has carshare membership: RelayRides** |
| *Valid Values* | 0 | Not selected |  |
|  | 1 | Selected |  |
| carshare\_zipcar |  |  | **Has carshare membership: Zipcar** |
| *Valid Values* | 0 | Not selected |  |
|  | 1 | Selected |  |
| carshare\_none |  |  | **Does not have any carshare membership** |
| *Valid Values* | 0 | Not selected |  |
|  | 1 | Selected |  |
| carshare\_dontknow |  |  | **Does not know if has carshare membership** |
| *Valid Values* | 0 | Not selected |  |
|  | 1 | Selected |  |
| carshare\_other |  |  | **Has other carshare membership** |
| *Valid Values* | 0 | Not selected |  |
|  | 1 | Selected |  |

|  |  |  |  |
| --- | --- | --- | --- |
| share\_freq\_car2go |  |  | Past 30 days: How often used car2go |
| *Valid Values* | 1 | 6-7 days per week |  |
|  | 2 | 5 days per week |  |
|  | 3 | 2-4 days per week |  |
|  | 4 | 1 day per week |  |
|  | 5 | 1-3 times in the past 30 days |  |
|  | 6 | I do this, but not in the past 30 days |  |
|  | 7 | I never do this |  |
| share\_freq\_relayrides |  |  | **Past 30 days: How often used RelayRides** |
| *Valid Values* | 1 | 6-7 days per week |  |
|  | 2 | 5 days per week |  |
|  | 3 | 2-4 days per week |  |
|  | 4 | 1 day per week |  |
|  | 5 | 1-3 times in the past 30 days |  |
|  | 6 | I do this, but not in the past 30 days |  |
|  | 7 | I never do this |  |
| share\_freq\_zipcar |  |  | **Past 30 days: How often used Zipcar** |
| *Valid Values* | 1 | 6-7 days per week |  |
|  | 2 | 5 days per week |  |
|  | 3 | 2-4 days per week |  |
|  | 4 | 1 day per week |  |
|  | 5 | 1-3 times in the past 30 days |  |
|  | 6 | I do this, but not in the past 30 days |  |
|  | 7 | I never do this |  |
| share\_freq\_othercar |  |  | **Past 30 days: How often used other**  **carshare service** |
| *Valid Values* | 1 | 6-7 days per week |  |
|  | 2 | 5 days per week |  |
|  | 3 | 2-4 days per week |  |
|  | 4 | 1 day per week |  |
|  | 5 | 1-3 times in the past 30 days |  |
|  | 6 | I do this, but not in the past 30 days |  |
|  | 7 | I never do this |  |
| share\_freq\_lyft |  |  | **Past 30 days: How often used Lyft** |
| *Valid Values* | 1 | 6-7 days per week |  |
|  | 2 | 5 days per week |  |
|  | 3 | 2-4 days per week |  |
|  | 4 | 1 day per week |  |
|  | 5 | 1-3 times in the past 30 days |  |
|  | 6 | I do this, but not in the past 30 days |  |
|  | 7 | I never do this |  |
| share\_freq\_sidecar |  |  | **Past 30 days: How often used sidecar** |
| *Valid Values* | 1 | 6-7 days per week |  |
|  | 2 | 5 days per week |  |
|  | 3 | 2-4 days per week |  |
|  | 4 | 1 day per week |  |
|  | 5 | 1-3 times in the past 30 days |  |
|  | 6 | I do this, but not in the past 30 days |  |
|  | 7 | I never do this |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **vehicle** |  |  | **Has drivers license, in HH with car: Vehicle uses most often** |
| *Valid Values* | 1 | Household vehicle 1 |  |
|  | 2 | Household vehicle 2 |  |
|  | 3 | Household vehicle 3 |  |
|  | 4 | Household vehicle 4 |  |
|  | 5 | Household vehicle 5 |  |
|  | 6 | Household vehicle 6 |  |
|  | 7 | Household vehicle 7 |  |
|  | 8 | Household vehicle 8 |  |
|  | 9 | Household vehicle 9 |  |
|  | 97 | A carshare vehicle (Zipcar, Car2Go, RelayRides, etc.) |  |
|  | 98 | Other vehicle |  |
|  | 99 | None |  |

## 2014 Survey Variable

|  |  |  |
| --- | --- | --- |
| **info\_carshare** | | |
|  | | Value |
| Standard Attributes | Label | Type of travel info: Car-share availability |
| Type | Numeric |
| Measurement | Nominal |
| Valid Values | 0 | Not selected |
| 1 | Selected |

|  |  |  |
| --- | --- | --- |
| **apps\_carshare** | | |
|  | | Value |
| Standard Attributes | Label | Smartphone app for travel info: Carshare app (e.g. Car2Go, ZipCar) |
| Type | Numeric |
| Measurement | Nominal |
| Valid Values | 0 | Not selected |
| 1 | Selected |