

STATS 503—Project

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Introduction

Summary

```
## $MSSubClass
##
## 120 160 180 190 20 30 40 45 50 60 70 75 80 85 90
## 87 63 10 30 536 69 4 12 144 299 60 16 58 20 52
##
## $MSZoning
##
## C (all) FV RH RL RM
## 10 65 16 1151 218
##
## $Street
##
## Grv1 Pave
## 6 1454
##
## $Alley
##
## Grv1 None Pave
## 50 1369 41
##
## $LotShape
##
## IR1 IR2 IR3 Reg
## 484 41 10 925
##
## $LandContour
##
## Bnk HLS Low Lvl
## 63 50 36 1311
##
## $Utilities
##
## AllPub NoSeWa
## 1459 1
##
## $LotConfig
##
## Corner CulDSac FR2 FR3 Inside
## 263 94 47 4 1052
##
## $LandSlope
##
## Gtl Mod Sev
## 1382 65 13
##
## $Neighborhood
##
## Blmngtn Blueste BrDale BrkSide ClearCr CollgCr Crawfor Edwards Gilbert
```

```

##      17      2      16      58      28      150      51      100      79
## IDOTRR MeadowV Mitchel  Names NoRidge NPKvill NridgHt  NWAmes OldTown
##      37      17      49      225      41      9      77      73      113
## Sawyer SawyerW Somerst StoneBr  SWISU  Timber Veenker
##      74      59      86      25      25      38      11
##
## $Condition1
##
## Artery  Feedr  Norm  PosA  PosN  RRAe  RRAn  RRNe  RRNn
##      48      81  1260      8      19      11      26      2      5
##
## $Condition2
##
## Artery  Feedr  Norm  PosA  PosN  RRAe  RRAn  RRNn
##      2      6  1445      1      2      1      1      2
##
## $BldgType
##
## 1Fam 2fmCon Duplex  Twnhs TwnhsE
## 1220      31      52      43      114
##
## $HouseStyle
##
## 1.5Fin 1.5Unf 1Story 2.5Fin 2.5Unf 2Story SFoyer  SLvl
## 154      14      726      8      11      445      37      65
##
## $RoofStyle
##
## Flat  Gable Gambrel  Hip Mansard  Shed
## 13      1141      11      286      7      2
##
## $RoofMatl
##
## ClyTile CompShg Membran  Metal  Roll Tar&Grv WdShake WdShngl
## 1      1434      1      1      1      11      5      6
##
## $Exterior1st
##
## AsbShng AsphShn BrkComm BrkFace  CBlock CemntBd HdBoard ImStucc MetalSd
## 20      1      2      50      1      61      222      1      220
## Plywood  Stone  Stucco VinylSd Wd Sdng WdShng
## 108      2      25      515      206      26
##
## $Exterior2nd
##
## AsbShng AsphShn Brk Cmn BrkFace  CBlock CmentBd HdBoard ImStucc MetalSd
## 20      3      7      25      1      60      207      10      214
## Other Plywood  Stone  Stucco VinylSd Wd Sdng Wd Shng
## 1      142      5      26      504      197      38
##
## $MasVnrType
##
## BrkCmn BrkFace  None  Stone
## 15      445      872      128
##
## $ExterQual
##
## Ex  Fa  Gd  TA
## 52  14  488  906

```

```

##
## $ExterCond
##
##   Ex   Fa   Gd   Po   TA
##   3   28  146   1 1282
##
## $Foundation
##
## BrkTil CBlock PConc   Slab  Stone  Wood
##   146   634   647   24    6      3
##
## $BsmtQual
##
##   Ex   Fa   Gd None   TA
##  121   35  617   38  649
##
## $BsmtCond
##
##   Fa   Gd None   Po   TA
##   45   65   38    2 1310
##
## $BsmtExposure
##
##   Av   Gd   Mn   No None
##  221  134  114  953   38
##
## $BsmtFinType1
##
## ALQ BLQ GLQ LwQ None Rec Unf
##  220 148 418  74  38 133 429
##
## $BsmtFinType2
##
## ALQ BLQ GLQ LwQ None Rec Unf
##   19  33  14  46  38  54 1255
##
## $Heating
##
## Floor GasA GasW Grav OthW Wall
##    1 1428   18    7    2    4
##
## $HeatingQC
##
##   Ex   Fa   Gd   Po   TA
##  741  49 241   1  428
##
## $CentralAir
##
##   N   Y
##   95 1365
##
## $Electrical
##
## FuseA FuseF FuseP   Mix SBrkr
##    94   27    3    1  1335
##
## $KitchenQual
##
##   Ex   Fa   Gd   TA

```

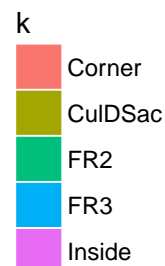
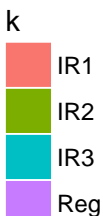
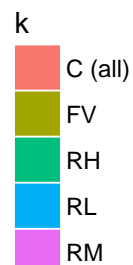
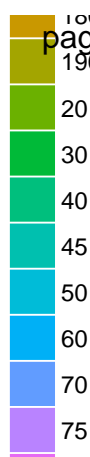
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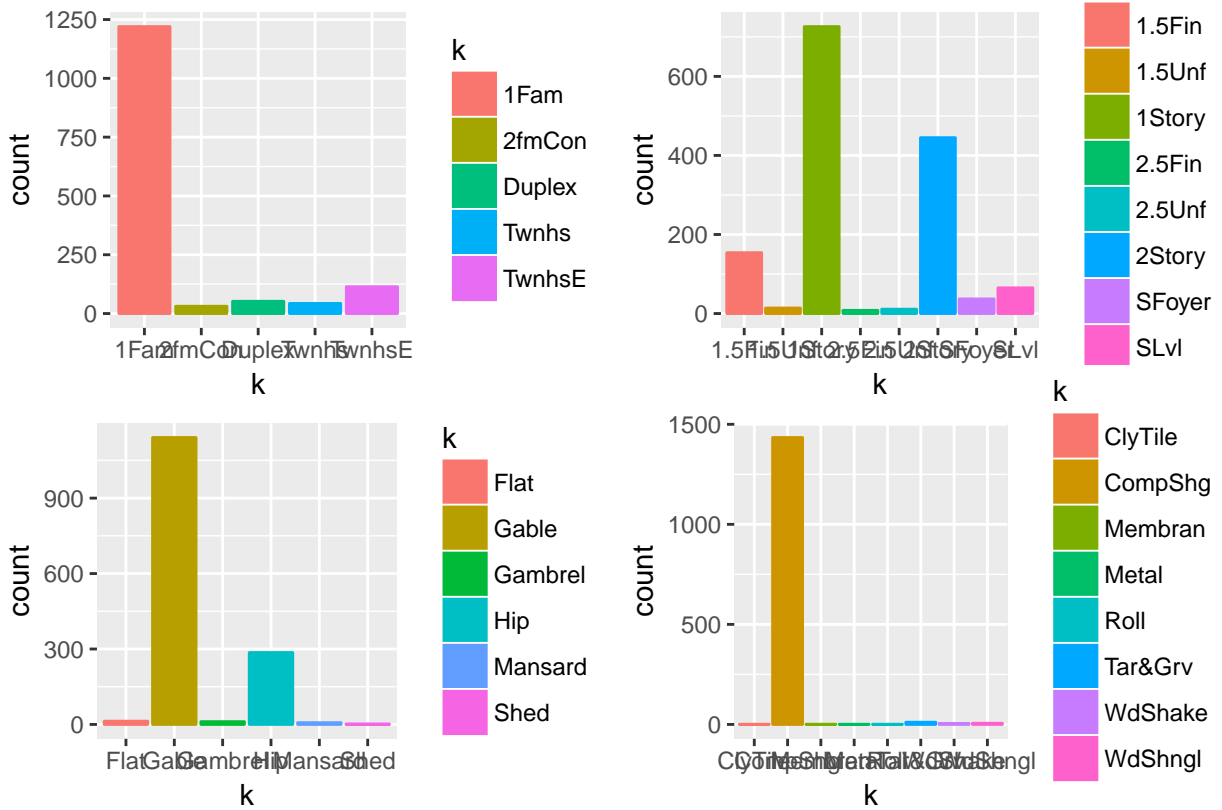
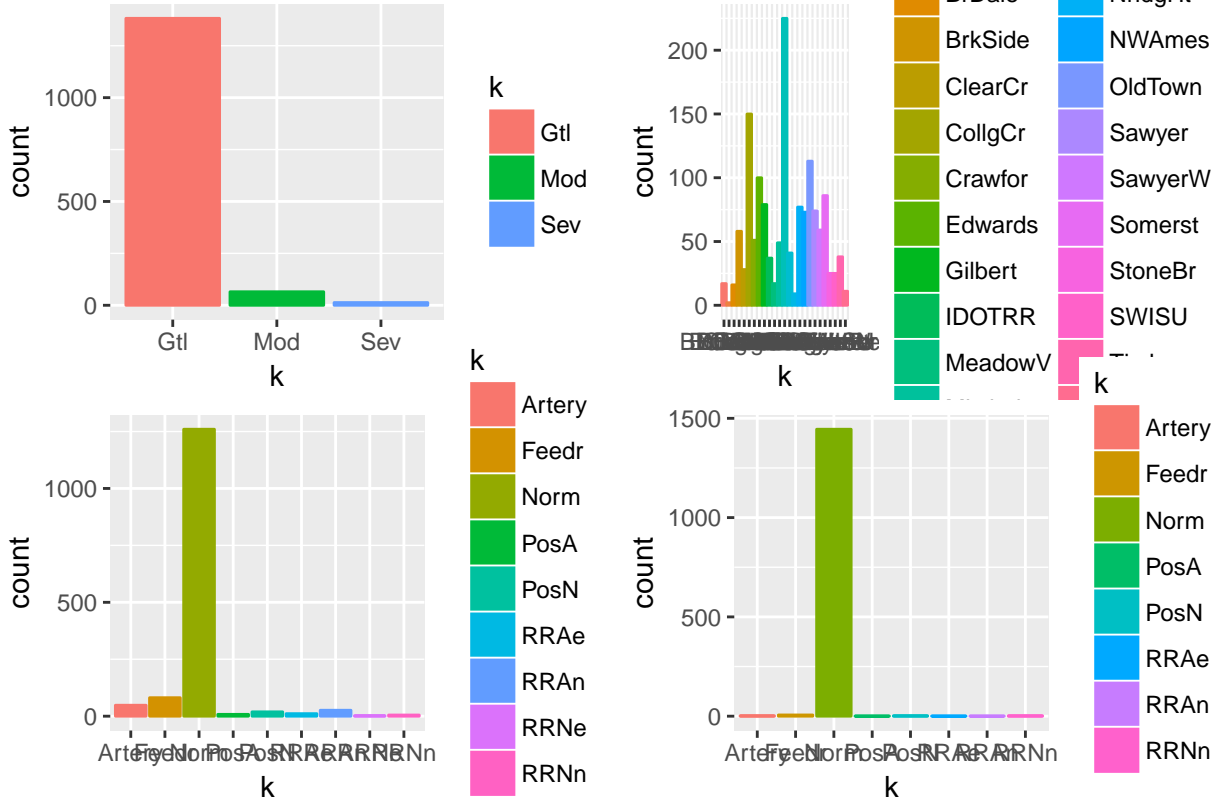
## 100 39 586 735
##
## $Functional
##
## Maj1 Maj2 Min1 Min2 Mod Sev Typ
## 14 5 31 34 15 1 1360
##
## $FireplaceQu
##
## Ex Fa Gd None Po TA
## 24 33 380 690 20 313
##
## $GarageType
##
## 2Types Attchd Basment BuiltIn CarPort Detchd None
## 6 870 19 88 9 387 81
##
## $GarageFinish
##
## Fin None RFn Unf
## 352 81 422 605
##
## $GarageQual
##
## Ex Fa Gd None Po TA
## 3 48 14 81 3 1311
##
## $GarageCond
##
## Ex Fa Gd None Po TA
## 2 35 9 81 7 1326
##
## $PavedDrive
##
## N P Y
## 90 30 1340
##
## $PoolQC
##
## Ex Fa Gd None
## 2 2 3 1453
##
## $Fence
##
## GdPrv GdWo MnPrv MnWw None
## 59 54 157 11 1179
##
## $MiscFeature
##
## Gar2 None Othr Shed TenC
## 2 1406 2 49 1
##
## $SaleType
##
## COD Con ConLD ConLI ConLw CWD New Oth WD
## 43 2 9 5 5 4 122 3 1267
##
## $SaleCondition
##

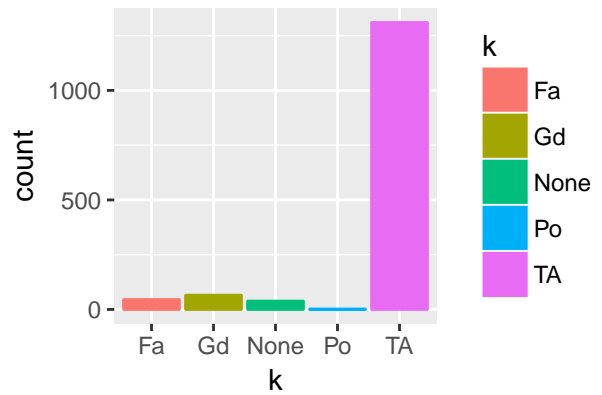
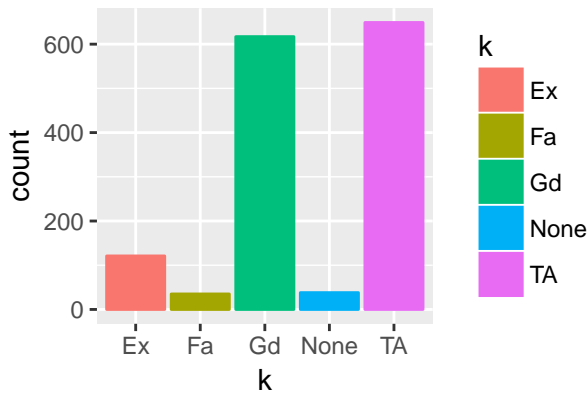
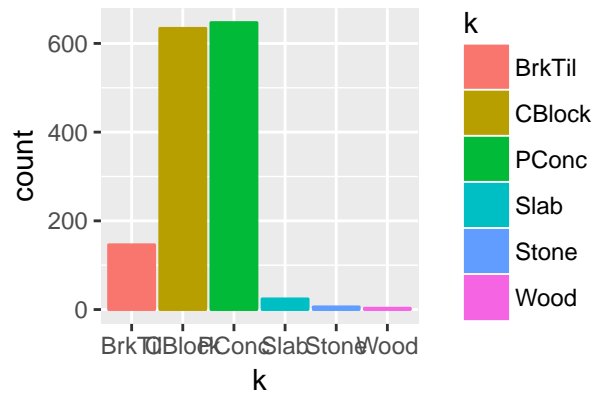
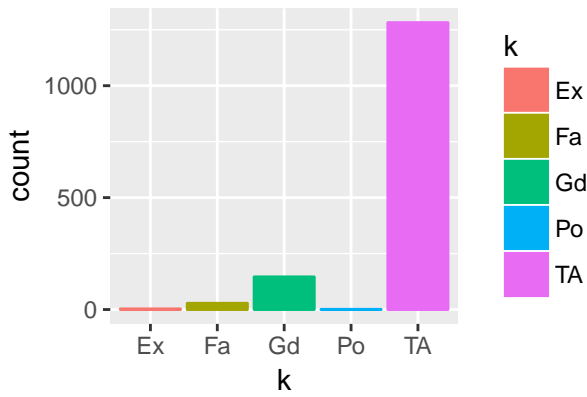
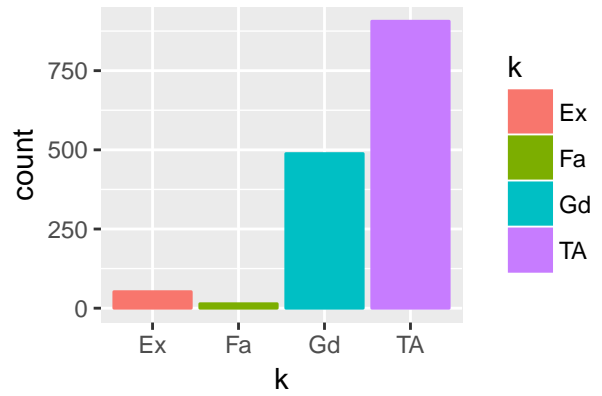
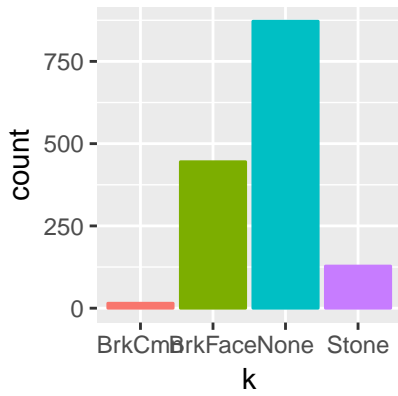
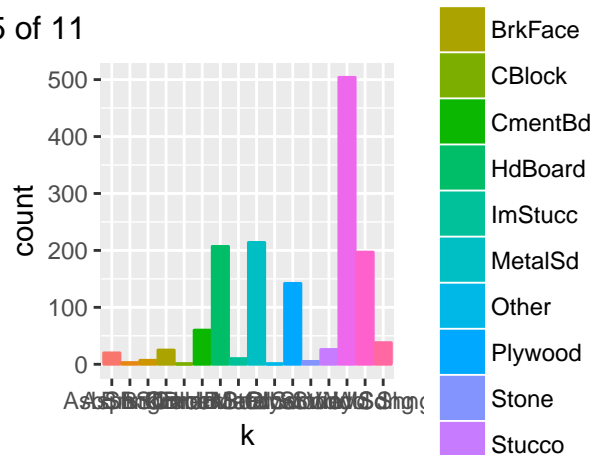
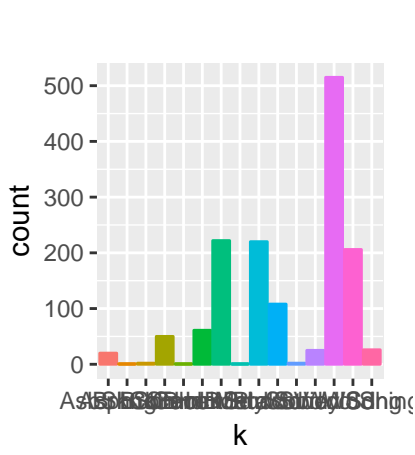
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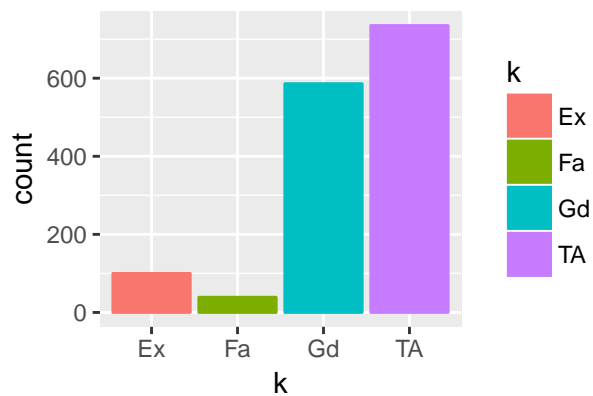
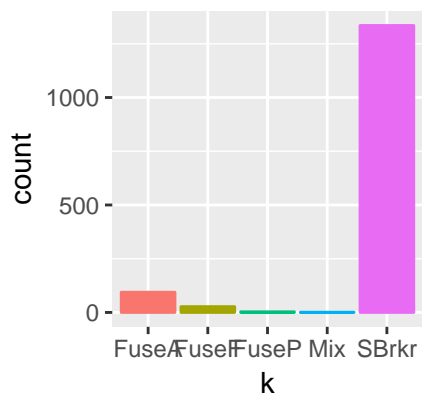
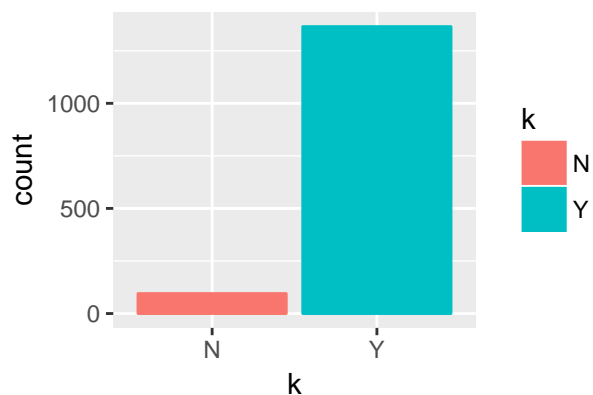
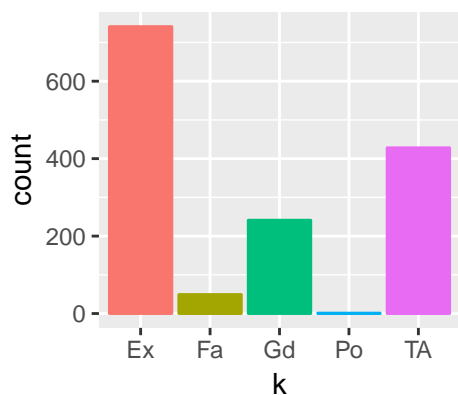
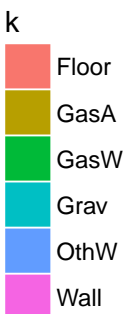
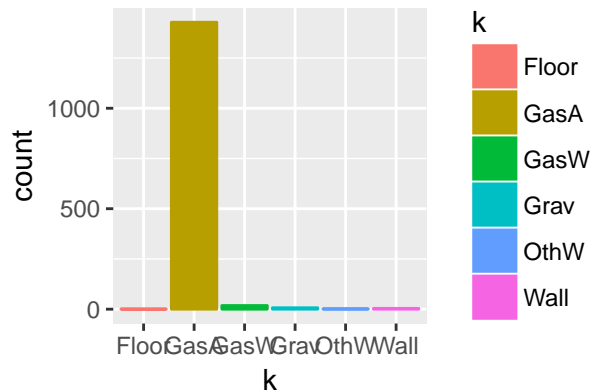
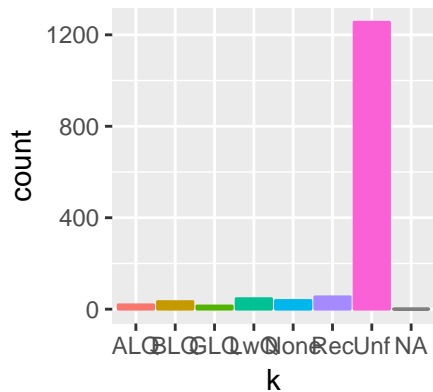
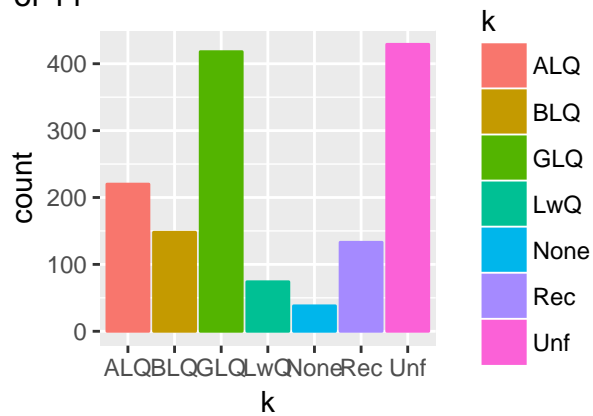
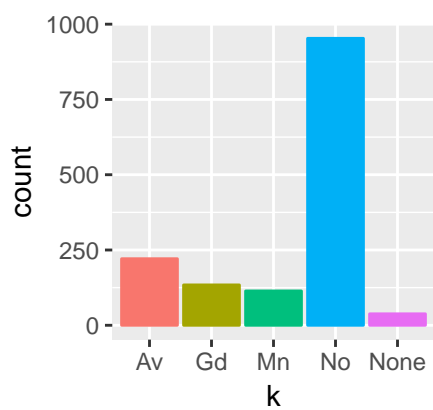
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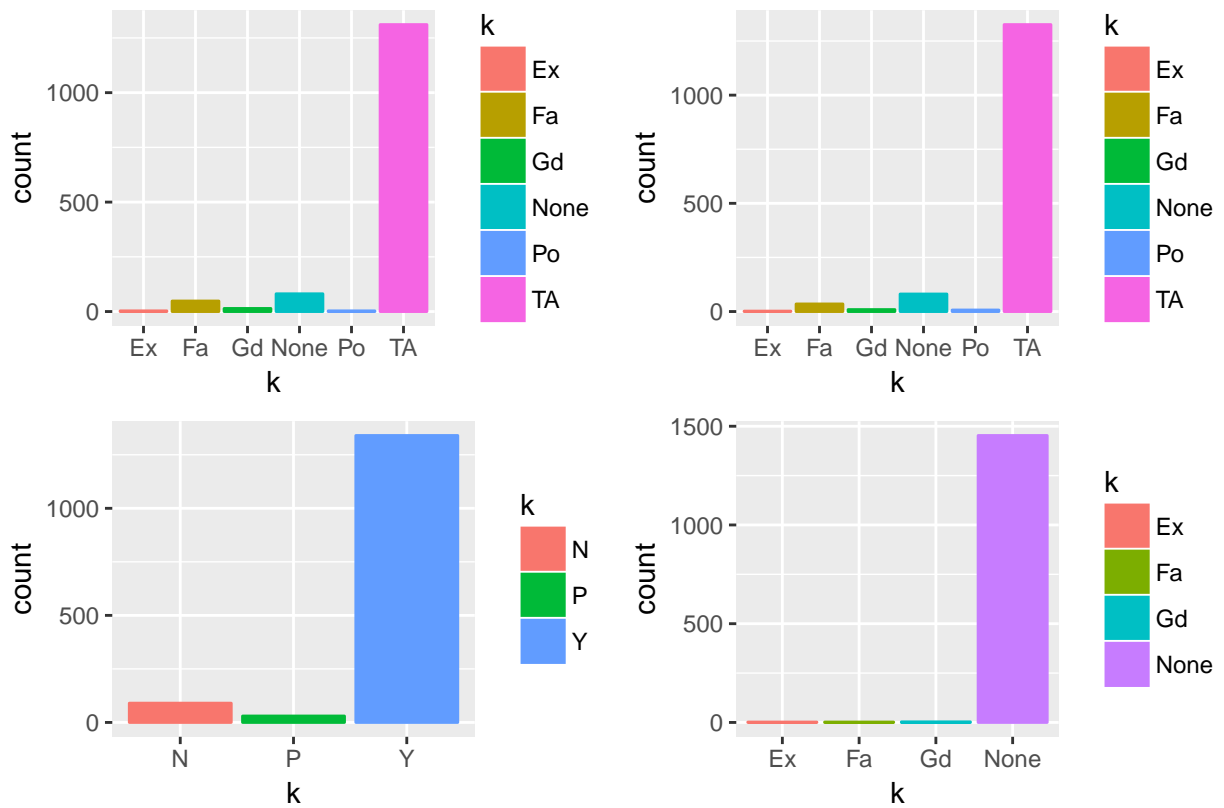
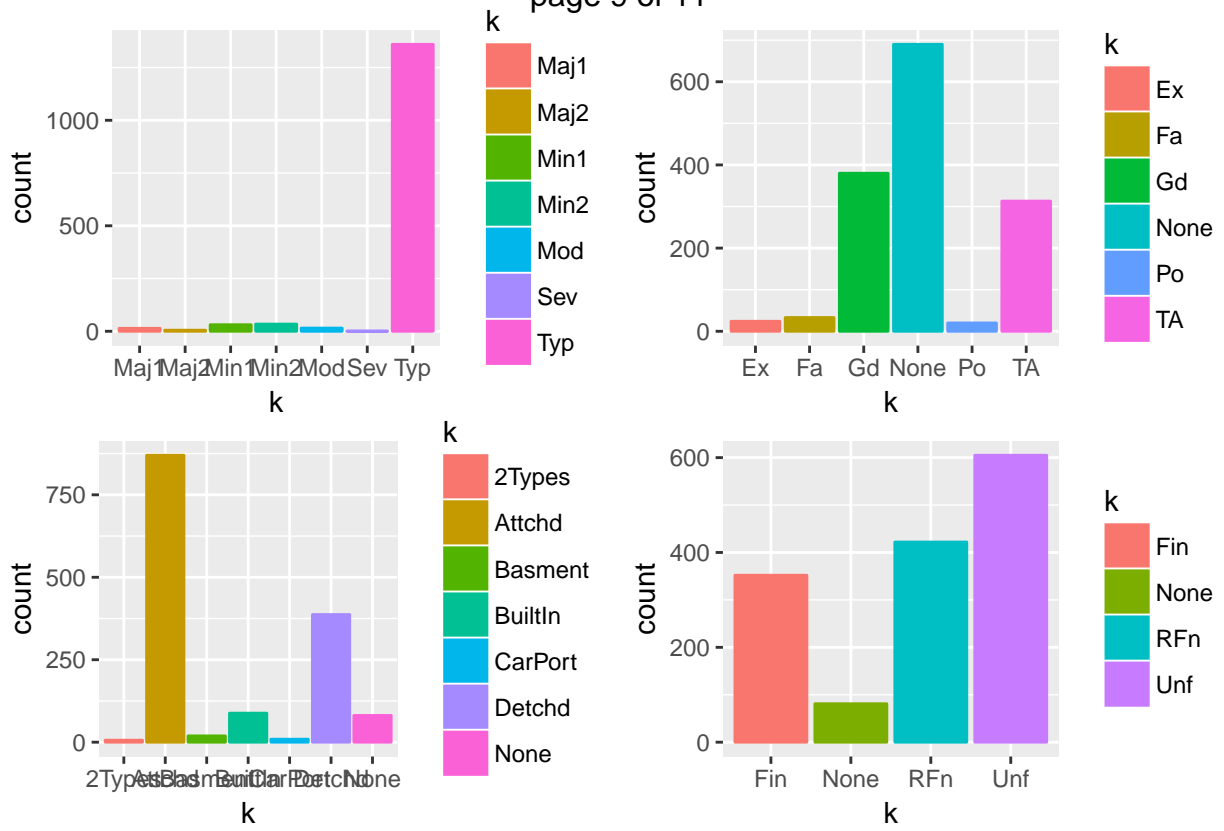
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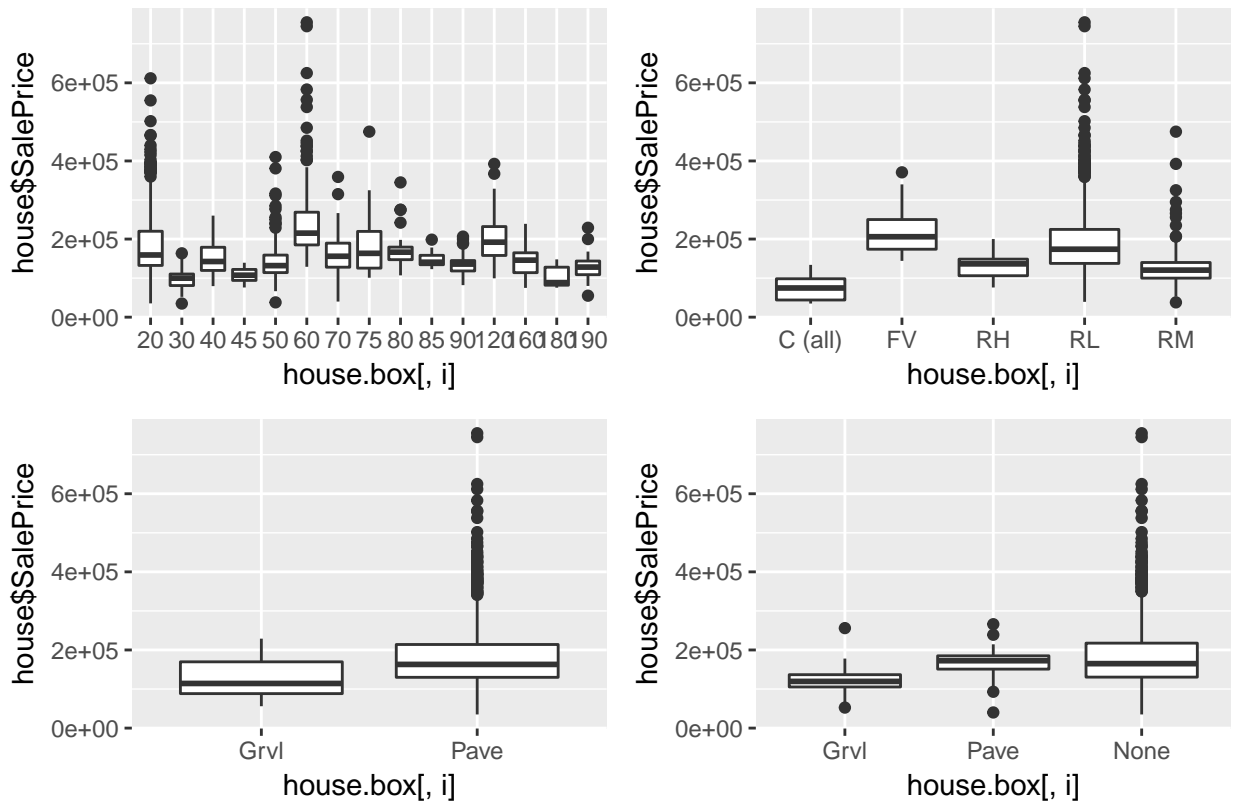
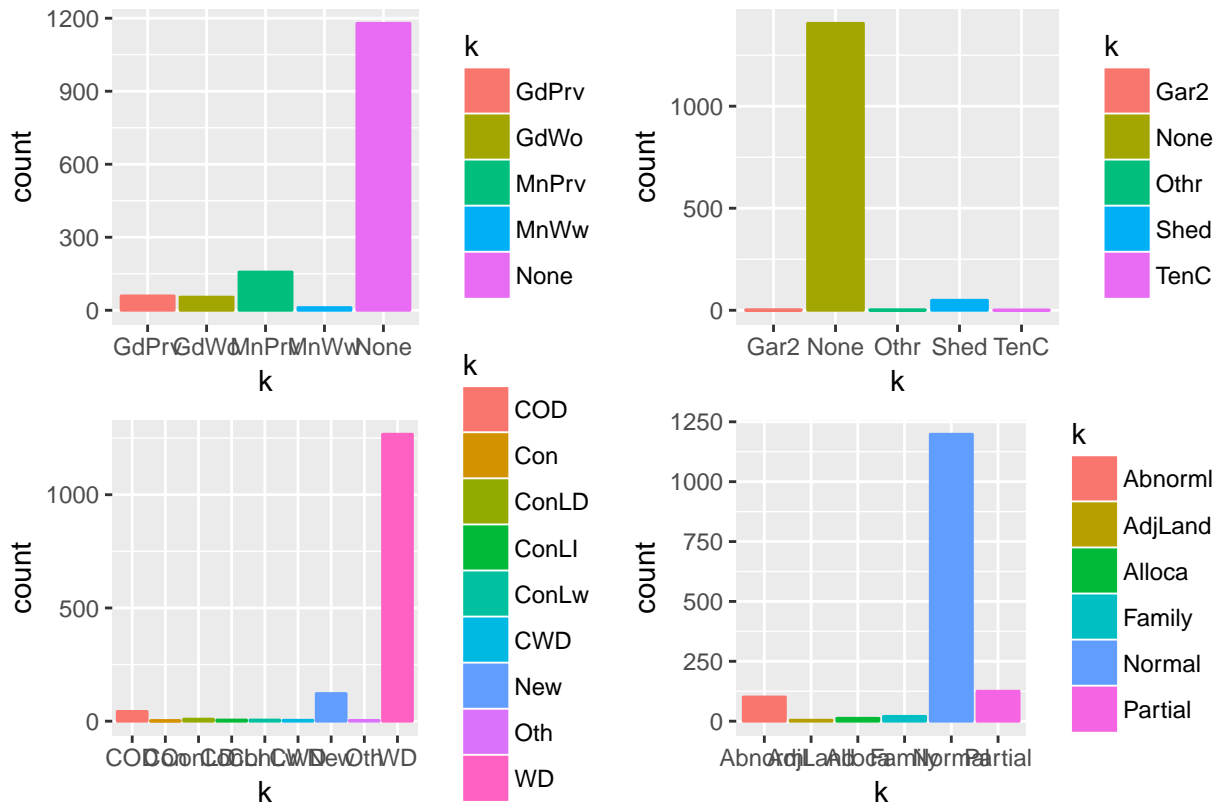


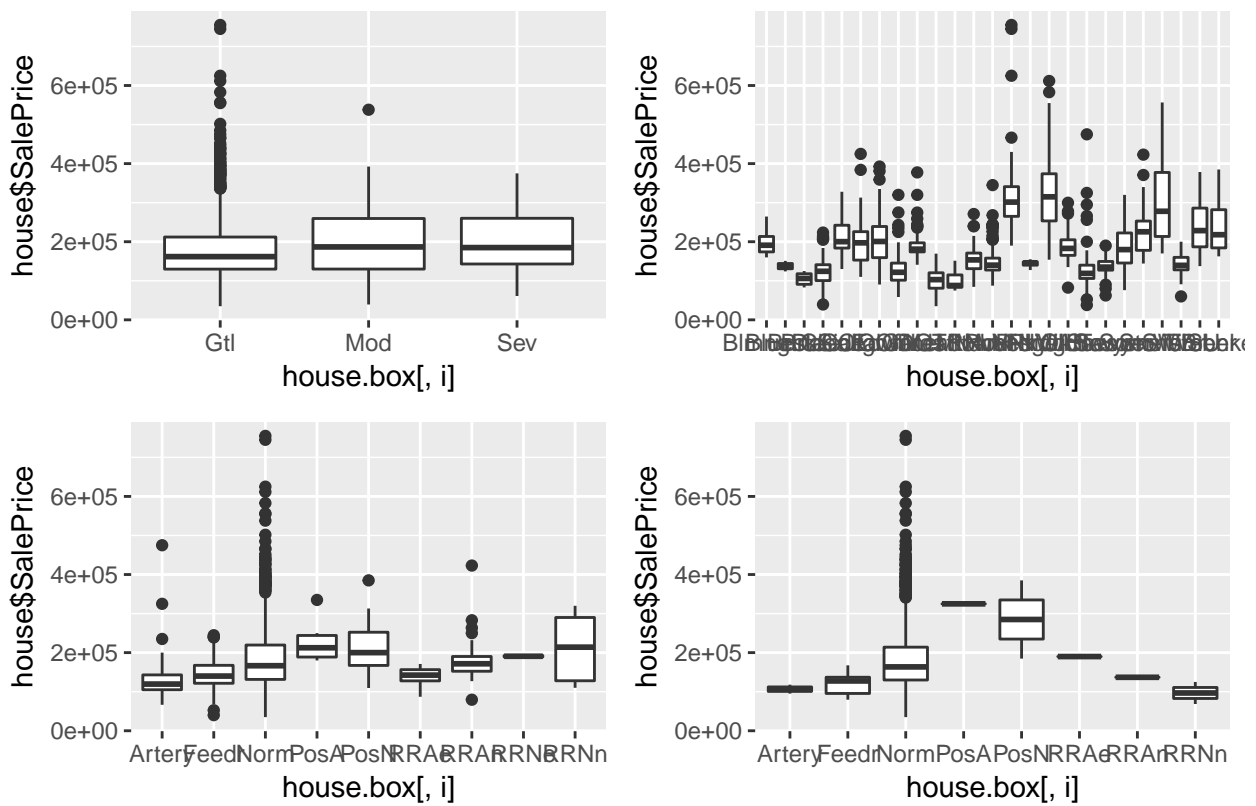


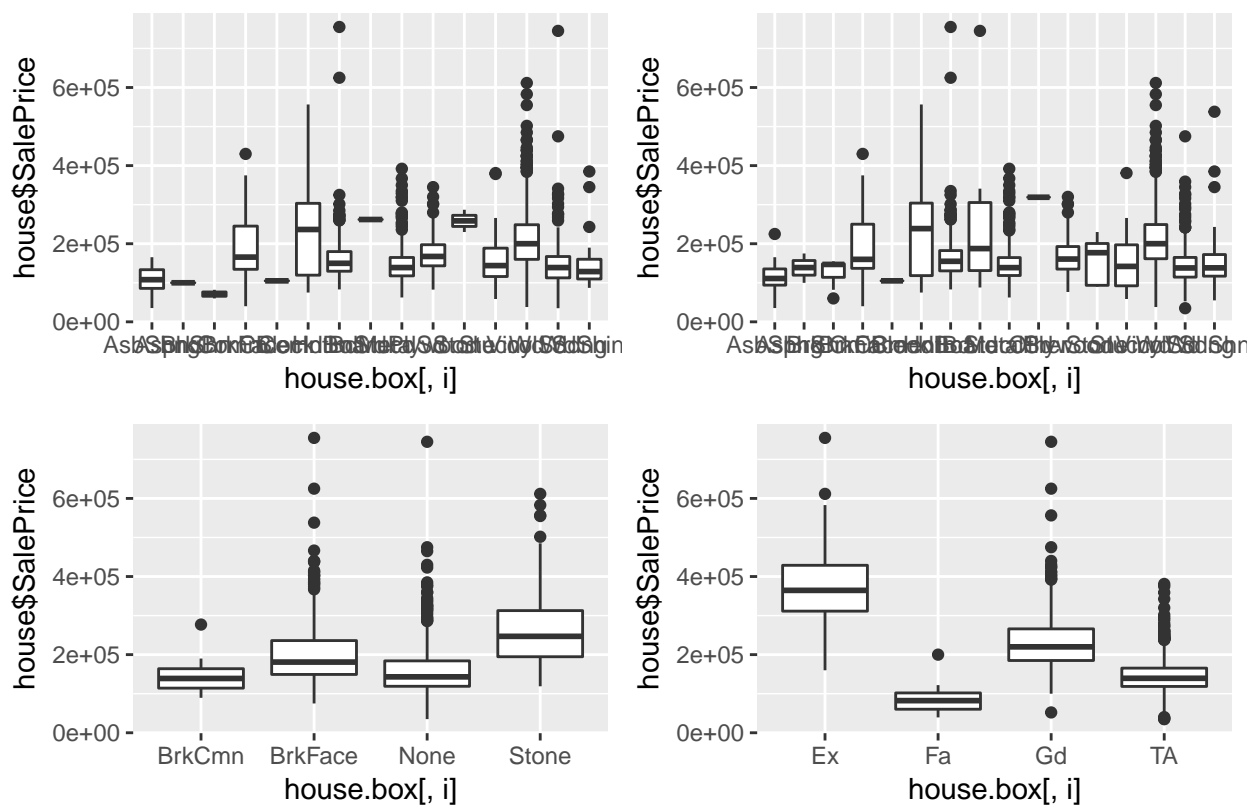
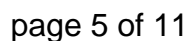


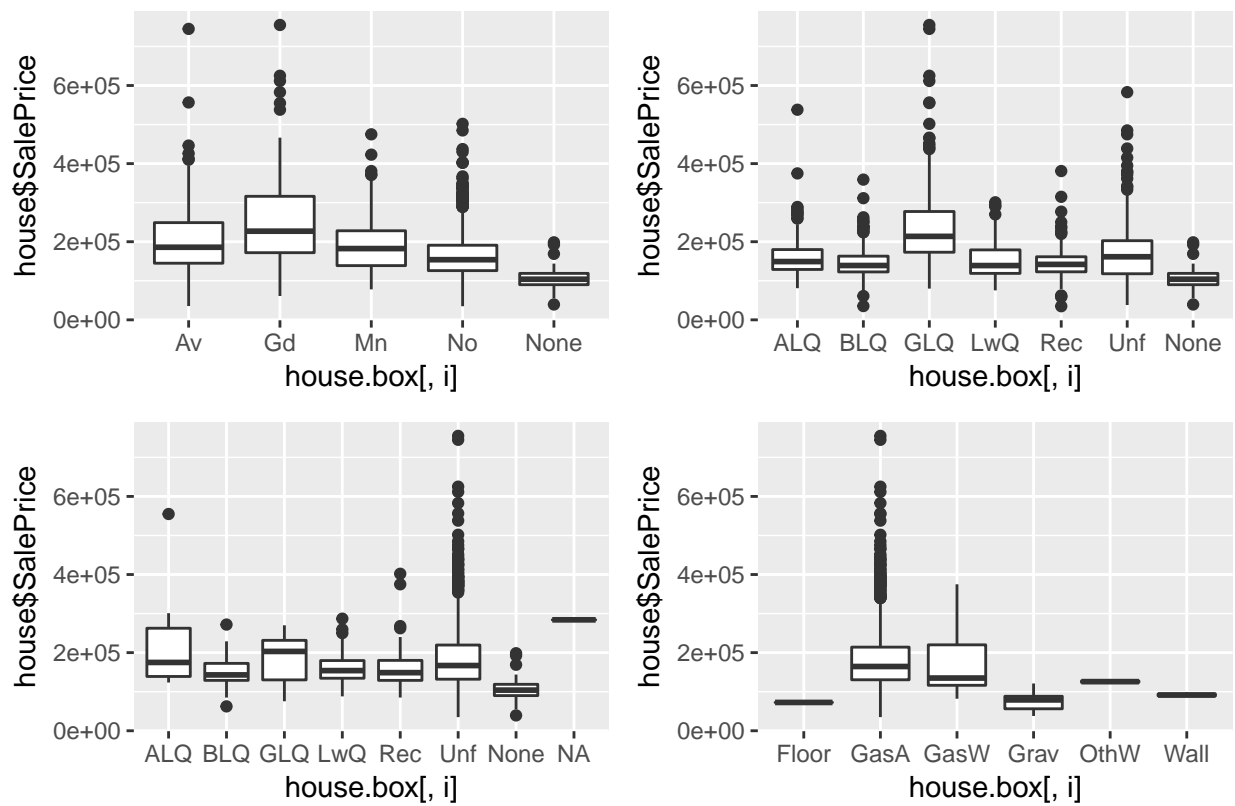
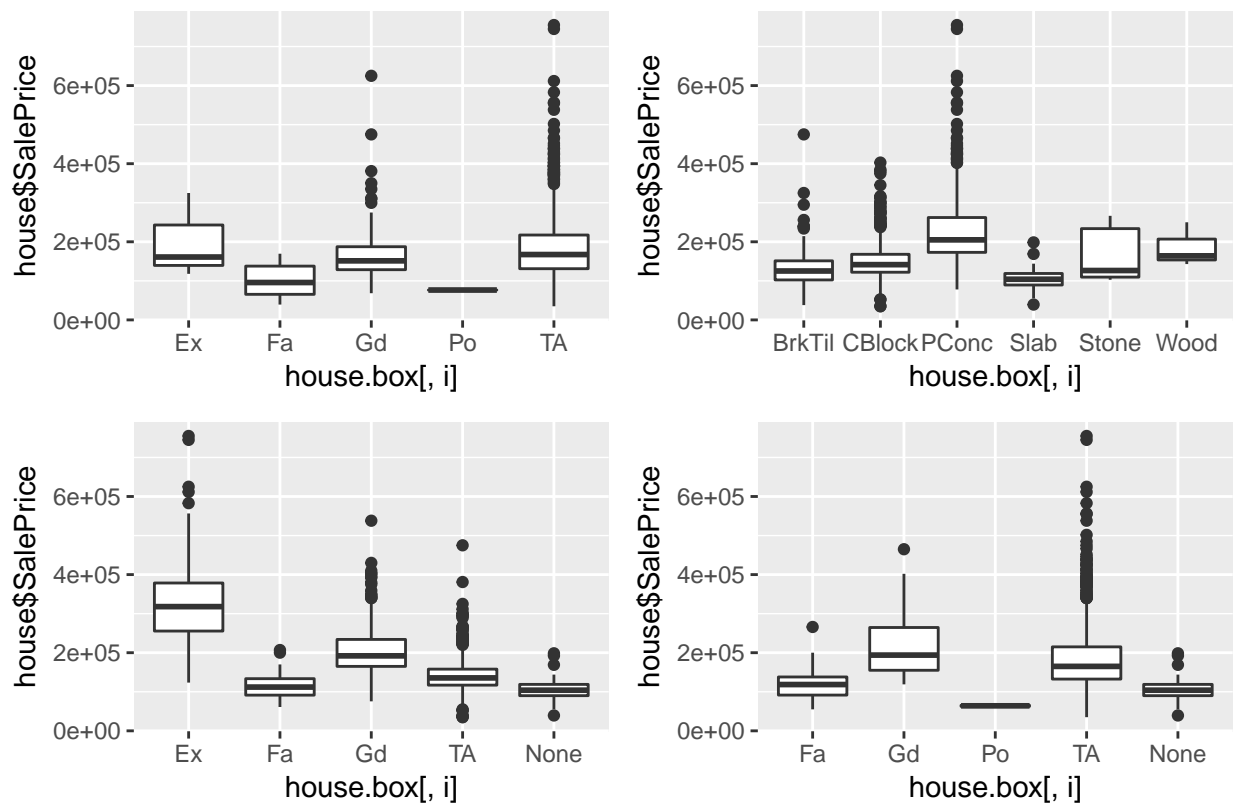


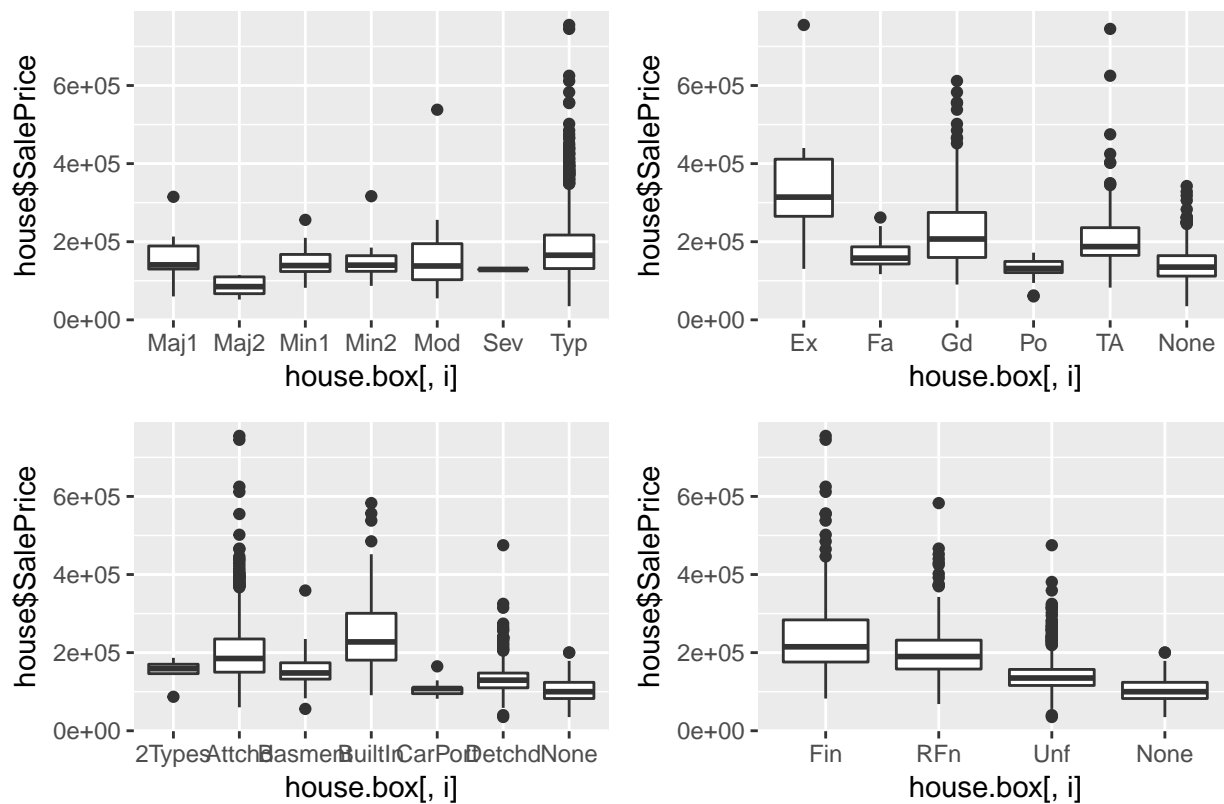
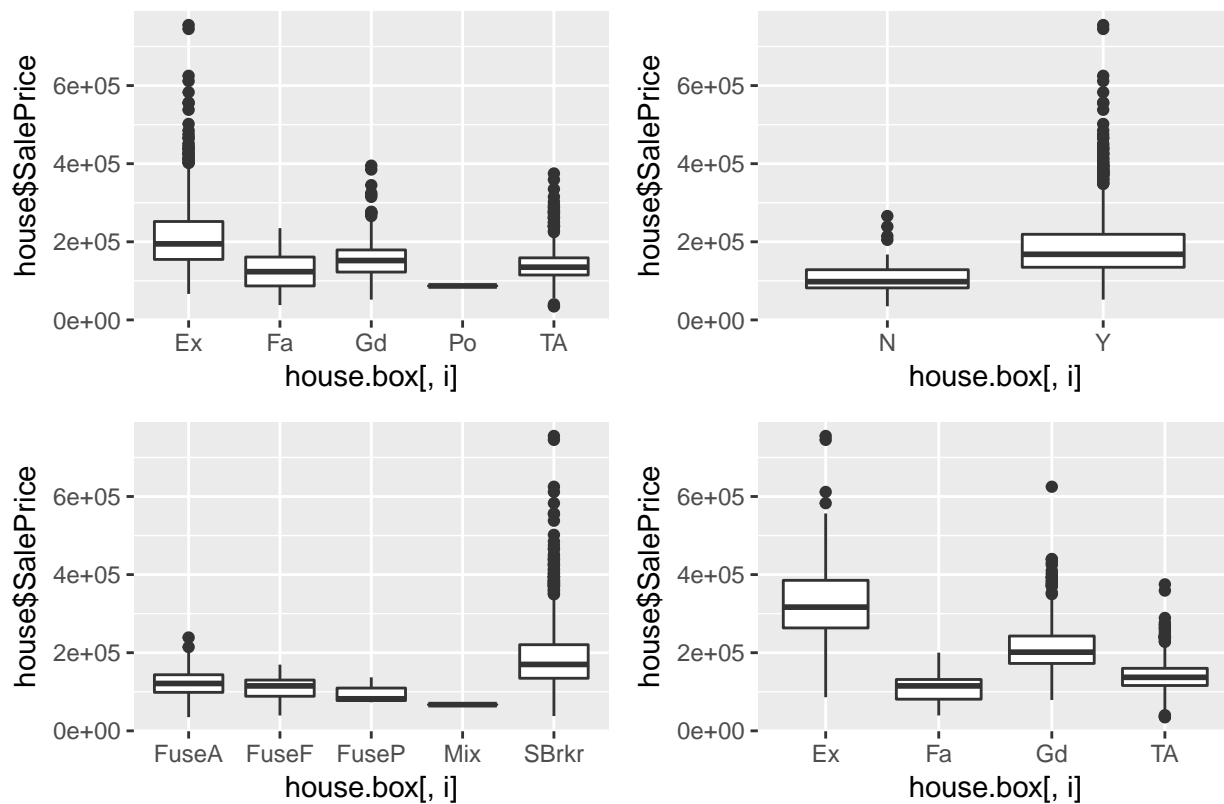


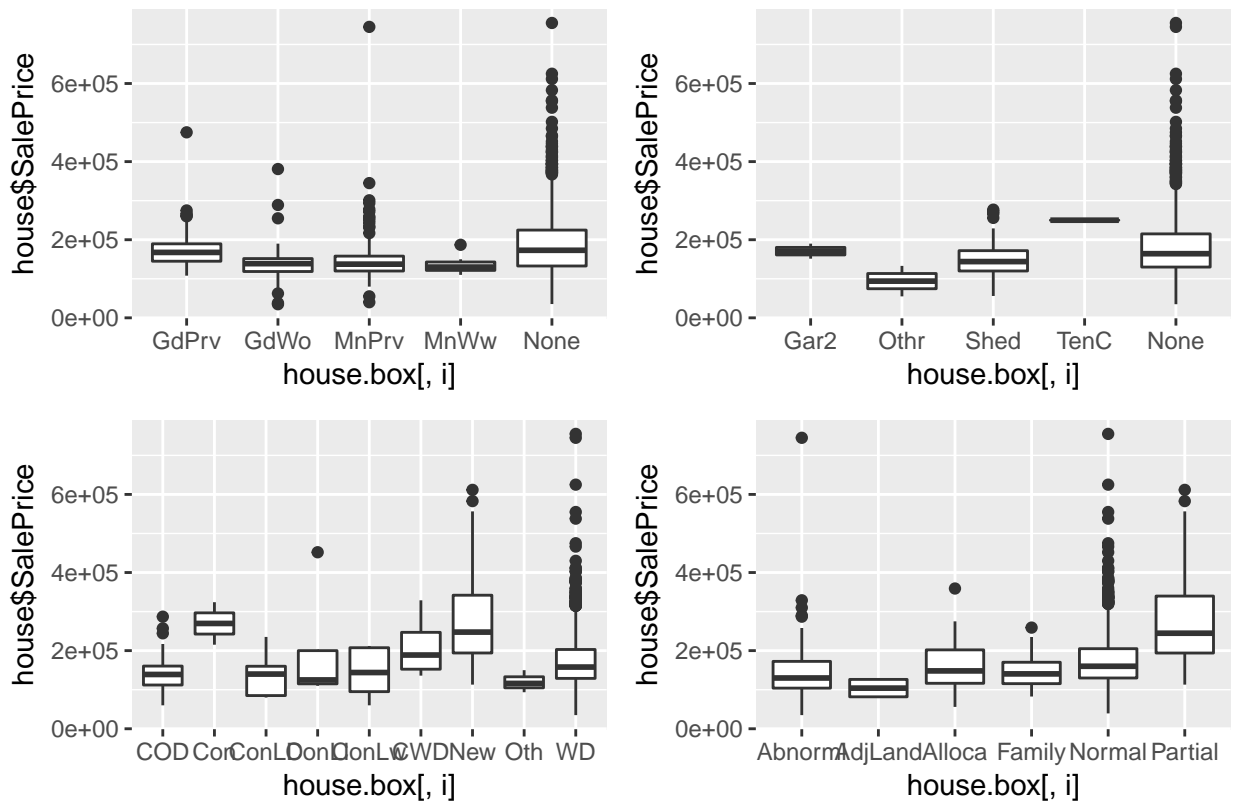
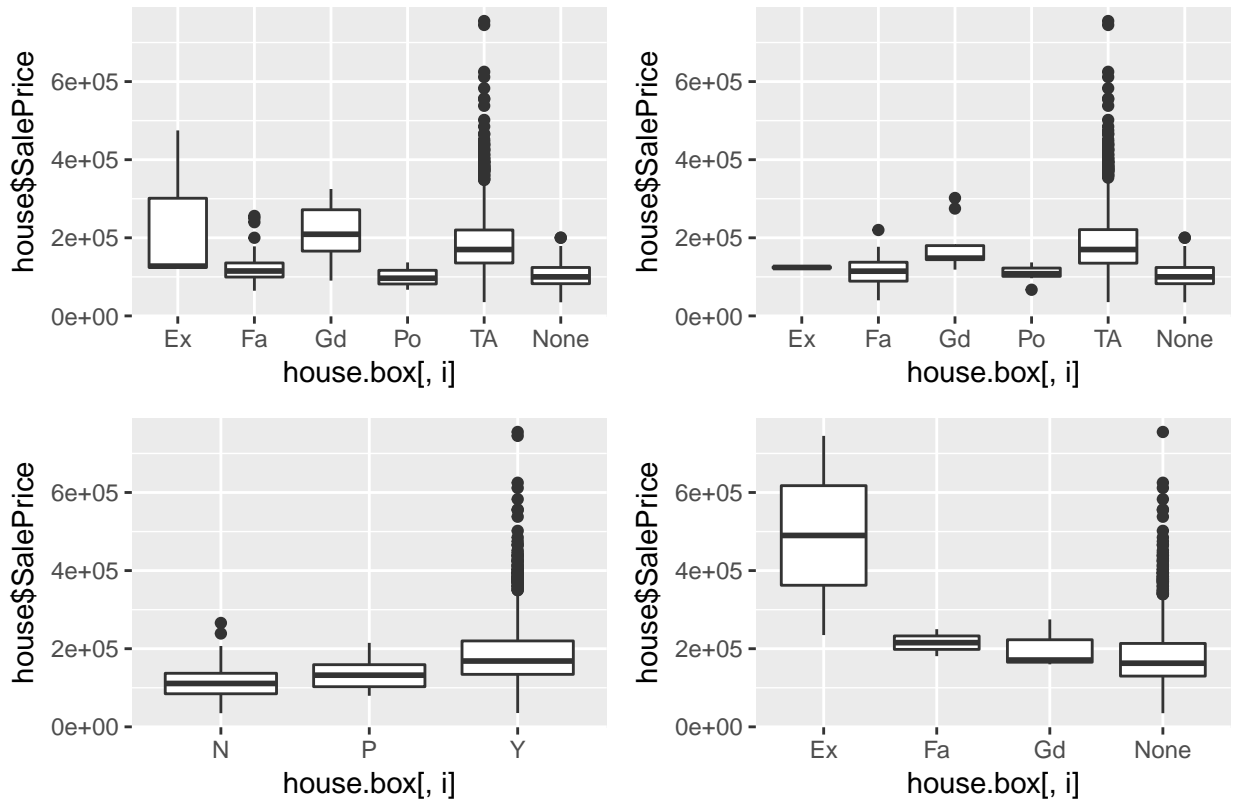






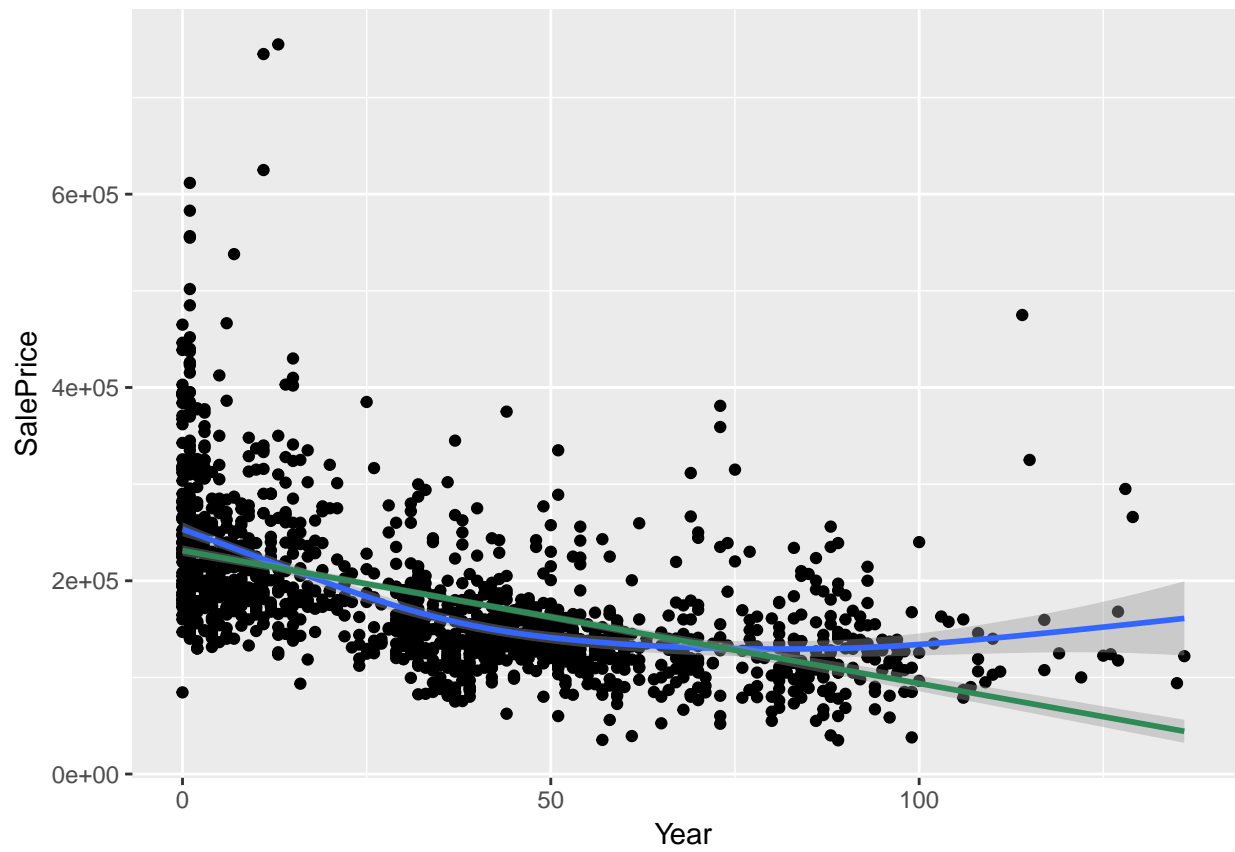






```
## [1] -0.5233504
```

```
## `geom_smooth()` using method = 'gam'
```



Conclusion

Appendix