VIsualizacion

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dfSummary(hip, plain.ascii = F)

## ### Data Frame Summary   
## \*\*hip\*\*   
## \*\*N:\*\* 2655   
## -----------------------------------------------------------------------------------------------------------  
## No Variable Stats / Values Freqs (% of Valid) Text Graph Valid Missing   
## ---- ----------- --------------------------------- ---------------------- ------------ ---------- ---------  
## 1 HIP\ mean (sd) : 21210.44 (4320.41)\ 2655 distinct values 2655\ 0\   
## [numeric] min < med < max :\ (100%) (0%)   
## 13510 < 21089 < 28887\   
## IQR (CV) : 7310 (0.2)   
##   
## 2 RA\_J2000\ mean (sd) : 4.54 (0.91)\ 2655 distinct values 2655\ 0\   
## [numeric] min < med < max :\ (100%) (0%)   
## 2.9 < 4.52 < 6.1\   
## IQR (CV) : 1.57 (0.2)   
##   
## 3 DE\_J2000\ mean (sd) : 13.9 (6.16)\ 2655 distinct values 2655\ 0\   
## [numeric] min < med < max :\ (100%) (0%)   
## 3.41 < 13.89 < 24.5\   
## IQR (CV) : 10.72 (0.44)   
##   
## 4 Plx\ mean (sd) : 8.83 (10.07)\ 1361 distinct values 2655\ 0\   
## [numeric] min < med < max :\ (100%) (0%)   
## 0.03 < 6.06 < 172.78\   
## IQR (CV) : 6.42 (1.14)   
##   
## 5 pmRA\ mean (sd) : 22.5 (74.69)\ 2245 distinct values 2655\ 0\   
## [numeric] min < med < max :\ (100%) (0%)   
## -330.66 < 4.78 < 1999.05\   
## IQR (CV) : 28.99 (3.32)   
##   
## 6 pmDE\ mean (sd) : -29.4 (72.37)\ 2196 distinct values 2655\ 0\   
## [numeric] min < med < max :\ (100%) (0%)   
## -1570.64 < -13.19 < 238.42\   
## IQR (CV) : 26.9 (-2.46)   
##   
## 7 Vmag\ mean (sd) : 8.34 (1.51)\ 656 distinct values 2655\ 0\   
## [numeric] min < med < max :\ (100%) (0%)   
## 0.45 < 8.42 < 12.66\   
## IQR (CV) : 1.8 (0.18)   
##   
## 8 B-V\ mean (sd) : 0.63 (0.46)\ 1269 distinct values 2640\ 15\   
## [numeric] min < med < max :\ (99.44%) (0.56%)   
## -0.22 < 0.56 < 3.1\   
## IQR (CV) : 0.66 (0.73)   
## -----------------------------------------------------------------------------------------------------------

summarizeColumns(hip)

## name type na mean disp median mad  
## 1 HIP numeric 0 21210.4380414 4320.4149316 21089.000000 5367.0120000  
## 2 RA\_J2000 numeric 0 4.5371564 0.9072336 4.519594 1.1515627  
## 3 DE\_J2000 numeric 0 13.8998322 6.1586976 13.892212 7.9499028  
## 4 Plx numeric 0 8.8333559 10.0671001 6.060000 4.1809320  
## 5 pmRA numeric 0 22.4966139 74.6921506 4.780000 19.1700180  
## 6 pmDE numeric 0 -29.3969190 72.3733995 -13.190000 16.4568600  
## 7 Vmag numeric 0 8.3379736 1.5058568 8.420000 1.3343400  
## 8 B-V numeric 15 0.6348864 0.4615119 0.555500 0.4529343  
## min max nlevs  
## 1 13510.000000 28887.000000 0  
## 2 2.900032 6.099316 0  
## 3 3.409683 24.495712 0  
## 4 0.030000 172.780000 0  
## 5 -330.660000 1999.050000 0  
## 6 -1570.640000 238.420000 0  
## 7 0.450000 12.660000 0  
## 8 -0.224000 3.101000 0

dfSummary(tycho, plain.ascii = F)

## ### Data Frame Summary   
## \*\*tycho\*\*   
## \*\*N:\*\* 16258   
## --------------------------------------------------------------------------------------------------------------------------  
## No Variable Stats / Values Freqs (% of Valid) Text Graph Valid Missing   
## ---- -------------- ----------------------------------- ----------------------- -------------------- ---------- ----------  
## 1 recno\ mean (sd) : 73094.02 (45031.95)\ 16258 distinct values 16258\ 0\   
## [numeric] min < med < max :\ (100%) (0%)   
## 3569 < 57089.5 < 156305\   
## IQR (CV) : 52262.5 (0.62)   
##   
## 2 TYCID1\ mean (sd) : 897.7 (535.94)\ 283 distinct values 16258\ 0\   
## [numeric] min < med < max :\ (100%) (0%)   
## 51 < 723 < 1868\   
## IQR (CV) : 638 (0.6)   
##   
## 3 TYCID2\ mean (sd) : 893.51 (635.11)\ 2616 distinct values 16258\ 0\   
## [numeric] min < med < max :\ (100%) (0%)   
## 1 < 789 < 3944\   
## IQR (CV) : 842 (0.71)   
##   
## 4 TYCID3\ mean (sd) : 1 (0.02)\ 1 : 16254 (100.0%)\ IIIIIIIIIIIIIIII \ 16258\ 0\   
## [numeric] min < med < max :\ 2 : 4 ( 0.0%) (100%) (0%)   
## 1 < 1 < 2\   
## IQR (CV) : 0 (0.02)   
##   
## 5 RA\_J2000\_24\ mean (sd) : 4.86 (0.91)\ 16258 distinct values 16258\ 0\   
## [numeric] min < med < max :\ (100%) (0%)   
## 2.9 < 5.06 < 6.1\   
## IQR (CV) : 1.49 (0.19)   
##   
## 6 DE\_J2000\ mean (sd) : 13.97 (6.24)\ 16258 distinct values 16258\ 0\   
## [numeric] min < med < max :\ (100%) (0%)   
## 3.4 < 14.05 < 24.5\   
## IQR (CV) : 11.02 (0.45)   
##   
## 7 pmRA\ mean (sd) : 6.26 (23.53)\ 1480 distinct values 16258\ 0\   
## [numeric] min < med < max :\ (100%) (0%)   
## -149.3 < 1.8 < 198.2\   
## IQR (CV) : 13 (3.76)   
##   
## 8 pmDE\ mean (sd) : -12.44 (20.92)\ 1349 distinct values 16258\ 0\   
## [numeric] min < med < max :\ (100%) (0%)   
## -199.9 < -7.6 < 177\   
## IQR (CV) : 14.2 (-1.68)   
##   
## 9 BT\ mean (sd) : 10.74 (1.22)\ 4343 distinct values 16258\ 0\   
## [numeric] min < med < max :\ (100%) (0%)   
## 2.79 < 11.04 < 12.85\   
## IQR (CV) : 1.36 (0.11)   
##   
## 10 VT\ mean (sd) : 9.94 (1.1)\ 4048 distinct values 16258\ 0\   
## [numeric] min < med < max :\ (100%) (0%)   
## 0.77 < 10.22 < 11.95\   
## IQR (CV) : 1.23 (0.11)   
##   
## 11 V\ mean (sd) : 9.87 (1.1)\ 15844 distinct values 16258\ 0\   
## [numeric] min < med < max :\ (100%) (0%)   
## 0.58 < 10.14 < 11.93\   
## IQR (CV) : 1.24 (0.11)   
##   
## 12 B-V\ mean (sd) : 0.68 (0.45)\ 3439 distinct values 16258\ 0\   
## [numeric] min < med < max :\ (100%) (0%)   
## -0.46 < 0.56 < 3.39\   
## IQR (CV) : 0.66 (0.67)   
##   
## 13 HD\ mean (sd) : 137082.43 (117395.4)\ 5751 distinct values 5758\ 10500\   
## [numeric] min < med < max :\ (35.42%) (64.58%)   
## 18019 < 39727.5 < 287468\   
## IQR (CV) : 219645 (0.86)   
##   
## 14 HIP\ mean (sd) : 21327.99 (4326.46)\ 2470 distinct values 2483\ 13775\   
## [numeric] min < med < max :\ (15.27%) (84.73%)   
## 13526 < 21257 < 28882\   
## IQR (CV) : 7368.5 (0.2)   
##   
## 15 Plx\ mean (sd) : 7.99 (6.45)\ 1135 distinct values 2253\ 14005\   
## [numeric] min < med < max :\ (13.86%) (86.14%)   
## 1.01 < 6.09 < 87.9\   
## IQR (CV) : 5.52 (0.81)   
## --------------------------------------------------------------------------------------------------------------------------

summarizeColumns(tycho)

## name type na mean disp median  
## 1 recno numeric 0 7.309402e+04 4.503195e+04 57089.50000  
## 2 TYCID1 numeric 0 8.977020e+02 5.359424e+02 723.00000  
## 3 TYCID2 numeric 0 8.935148e+02 6.351105e+02 789.00000  
## 4 TYCID3 numeric 0 1.000246e+00 1.568398e-02 1.00000  
## 5 RA\_J2000\_24 numeric 0 4.858508e+00 9.143825e-01 5.05911  
## 6 DE\_J2000 numeric 0 1.396655e+01 6.241906e+00 14.05034  
## 7 pmRA numeric 0 6.256987e+00 2.352671e+01 1.80000  
## 8 pmDE numeric 0 -1.244060e+01 2.092401e+01 -7.60000  
## 9 BT numeric 0 1.074017e+01 1.215620e+00 11.04300  
## 10 VT numeric 0 9.943303e+00 1.098952e+00 10.22300  
## 11 V numeric 0 9.871585e+00 1.100502e+00 10.14325  
## 12 B-V numeric 0 6.773385e-01 4.517625e-01 0.55590  
## 13 HD numeric 10500 1.370824e+05 1.173954e+05 39727.50000  
## 14 HIP numeric 13775 2.132799e+04 4.326456e+03 21257.00000  
## 15 Plx numeric 14005 7.991176e+00 6.454268e+00 6.09000  
## mad min max nlevs  
## 1 7.005211e+04 3569.000000 1.563050e+05 0  
## 2 8.302560e+02 51.000000 1.868000e+03 0  
## 3 6.167616e+02 1.000000 3.944000e+03 0  
## 4 0.000000e+00 1.000000 2.000000e+00 0  
## 5 9.907209e-01 2.900292 6.099769e+00 0  
## 6 8.186020e+00 3.402658 2.449985e+01 0  
## 7 8.969730e+00 -149.300000 1.982000e+02 0  
## 8 9.340380e+00 -199.900000 1.770000e+02 0  
## 9 9.281076e-01 2.787000 1.285300e+01 0  
## 10 8.347038e-01 0.769000 1.195400e+01 0  
## 11 8.502489e-01 0.581800 1.192835e+01 0  
## 12 4.095682e-01 -0.459000 3.389800e+00 0  
## 13 2.929692e+04 18019.000000 2.874680e+05 0  
## 14 5.442625e+03 13526.000000 2.888200e+04 0  
## 15 3.780630e+00 1.010000 8.790000e+01 0