An analysis was done on all SITE level tools for every WFO in the country to investigate how often each [SmartScript?](https://collaborate.nws.noaa.gov/trac/ncladt/wiki/SmartScript) method is used.

Some general statistics:

Grand Total of **26486** tools (including duplicates) were examined

Total of **12971** tools with a unique name were analyzed. Tools with duplicate names were not processed so as not to skew the results.

The table below shows how many tools call each [SmartScript?](https://collaborate.nws.noaa.gov/trac/ncladt/wiki/SmartScript) method, ranked in decreasing order.

* Methods in **BOLD** work partly, not at all, or are missing in AWIPS2 DR3 and those in *italics* are unresolved.

|  |  |
| --- | --- |
| Number of tools | Method Name |
|  |  |
| 4557 | getGrids |
| 3052 | createTimeRange |
| 2837 | **callSmartTool** |
| 1995 | createFromScratchCmd |
| 1732 | findDatabase |
| 1705 | statusBarMsg |
| 1458 | getEditArea |
| 1424 | createGrid |
| 1400 | getGridInfo |
| 1356 | encodeEditArea |
| 1034 | **eaMgr** |
| 973 | getIndex |
| 938 | deleteCmd |
| 904 | cancel |
| 837 | noData |
| 782 | getSiteID |
| 683 | mutableID |
| 632 | getGridCell |
| 489 | MagDirToUV |
| 460 | **copyCmd** |
| 445 | getParm |
| 428 | interpolateCmd |
| 427 | **UVToMagDir** |
| 422 | taperGrid |
| 417 | makeNumericSounding |
| 389 | wxMask |
| 362 | getTimeRange |
| 339 | callProcedure |
| 310 | setActiveElement |
| 298 | setToolType |
| 297 | getLatLon |
| 276 | decodeEditArea |
| 272 | setCombineMode |
| 257 | round |
| 249 | saveElements |
| 244 | unloadWE |
| 242 | getTopo |
| 210 | getSamplePoints |
| 198 | getValue |
| 196 | **copy** |
| 193 | getActiveEditArea |
| 187 | **fragmentCmd** |
| 179 | editAreaList |
| 176 | **abort** |
| 172 | getVectorEditMode |
| 171 | convertFtoK |
| 163 | **interpolate** |
| 157 | offset |
| 157 | getGridTimes |
| 152 | setVectorEditMode |
| 146 | highlightGrids |
| 126 | clearActiveEditArea |
| 123 | convertMsecToKts |
| 114 | convertFtToM |
| 104 | getConfigItem |
| 104 | combineMode |
| 102 | convertKtoF |
| 97 | timeShiftCmd |
| 96 | loadedParms |
| 93 | setActiveEditArea |
| 89 | **createFromScratch** |
| 85 | **getDatabase** |
| 84 | unCacheElements |
| 82 | **copyToCmd** |
| 76 | publishElements |
| 71 | loadParm |
| 61 | linear |
| 59 | getComposite |
| 56 | getindicies |
| 56 | getGridLoc |
| 56 | deleteGrid |
| 55 | **remove** |
| 54 | assignValueCmd |
| 52 | determineTimeShift |
| 51 | dayTime |
| 46 | **getGridHistory** |
| 44 | availableParms |
| 43 | selectedParms |
| 43 | deleteObject |
| 35 | getObject |
| 33 | **fragment** |
| 32 | **loadWEGroup** |
| 31 | splitCmd |
| 30 | saveObject |
| 30 | getExprName |
| 30 | getActiveElement |
| 28 | KtoF |
| 25 | **getDefaults** |
| 24 | lockedByMe |
| 21 | lockedByOther |
| 21 | getDiscreteKeys |
| 21 | fformat |
| 20 | gradient |
| 20 | directionTaperGrid |
| 15 | **timeShift** |
| 14 | diff2 |
| 13 | interpolateScalarValues |
| 11 | zeroCmd |
| 11 | **assignValue** |
| 10 | **makeSounding** |
| 8 | **makeHeadlineGrid** |
| 8 | cacheElements |
| 7 | getD2Dmodel |
| 7 | extrapolate |
| 7 | **errorReturn** |
| 6 | interpolateValues |
| 5 | **split** |
| 5 | saveEditArea |
| 5 | **getNumericMeanValue** |
| 4 | gfeOperatingMode |
| 4 | **getGridCellSwath** |
| 4 | FtoK |
| 3 | **zero** |
| 3 | **vtecActiveTable** |
| 3 | **setUp** |
| 3 | **getMeanValue** |
| 3 | **forceLock** |
| 2 | getSite4ID |
| 2 | agradient |
| 1 | **getSoundingValue** |
| 1 | **getGrid2DBit** |
| 0 | zonec |
| 0 | var |
| 0 | std |
| 0 | sortUglyStr |
| 0 | sign |
| 0 | raverage |
| 0 | **officeTypeFromParm** |
| 0 | **officeType** |
| 0 | ndiff |
| 0 | **myOfficeType** |
| 0 | mean |
| 0 | maverage |
| 0 | **knownOfficeTypes** |
| 0 | isnan |
| 0 | isinf |
| 0 | interpolateVectorValues |
| 0 | **getValueFromSounding** |
| 0 | getStations |
| 0 | **getModelName** |
| 0 | **getLevels** |
| 0 | **getGFESuiteVersion** |
| 0 | esat |
| 0 | diff |
| 0 | diag |
| 0 | cov |
| 0 | corrcoef |
| 0 | availableDatabases |
| 0 | around |
| 0 | amin |
| 0 | amax |
| 0 | aindex |
| 0 | [DelAxis?](https://collaborate.nws.noaa.gov/trac/ncladt/wiki/DelAxis) |