Analysis of *Mathematica* 8 Symbols and Functions

The following is quantitative analysis of *Mathematica* 8.0 in terms of what functions and symbols it contains. This includes all the AddOns package which come with *Mathematica* 8.0 outside of the kernel and have to be loaded to be used. These packages are standard packages that come with *Mathematica*, but are not inside the kernel itself. These are the packages listed in “Wolfram/Mathematica/8.0/AddOns/Packages”

Finding a list of just the functions (i.e. not just Symbols) was a bit tricky. This is how this was done
1) Run the notebook called getUsageMessages.nb, located in this folder.
2) Select all the output cells, COPY AS TEXT, then put the result in plain text file called “packagesFunctions.txt” in the same folder as this notebook
3) Open this notebook (called process.nb) and run it. It will read the text file and process it.

Thanks for John R. Fultz for suggesting in the Math group to use SyntaxInformation[] and the Usage message to help determine which Symbols are functions and which are not.

### Table showing number of Symbols in System and all other AddOns Packages

```
Get["Utilities'CleanSlate" ]
SetOptions[CleanSlate, Verbose -> False];
addOnPackages = Sort[addOnPackages];

numberOfSymbolsInPackage[nameOfPackage_] := Module[{n},
  Get[nameOfPackage <> "\n"];
  n = Length[Names[nameOfPackage <> "\n"]];
  CleanSlate[Evaluate[nameOfPackage <> "\n"]];
  n
];
```
data = Table[{i, addOnPackages[[i]], numberOfSymbolsInPackage[addOnPackages[[i]]]], {i, 1, Length[addOnPackages]}];
data = Prepend[data, {0, "System", Length[Names["System`*"]]}];

General::compat:
Combinatorica Graph and Permutations functionality has been superseded by preloaded functionality. The package now being loaded may conflict with this. Please see the Compatibility Guide for details.

TableForm[data, TableHeadings -> {None, "#", "Context", "Number of symbols"}]
Print["Total number of symbols = ", Total[data[[All, 3]]]]

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Total number of symbols = 5856
Finding the functions in System and all other AddOns packages

```mathematica
isFunction[name_String] := Module[{m},
    m = SyntaxInformation[Symbol[name]];
    If[Length[m] > 0, True, False]
]

getFunctionsInSystem[] := Module[{data, result, i, funs},
    funs = Names["System`*"];
    data = Table[If[isFunction[funs[[i]]], funs[[i]], ""], {i, 1, Length[funs]}];
    result = Flatten[Select[data, StringLength[#] > 0 &]];
    result = Table[{"System", result[[i]]}, {i, 1, Length[result]}]
]

getFunctionsInPackage[pkgName_, data_] := Module[{result, i},
    result = StringCases[data, RegularExpression["^\w*\""];
    result = Union[result];
    result = Flatten[Select[result, Length[#] > 0 &]];
    result = StringReplace[result, x__ ~~ "" -> x];
    result = Table[{StringTake[pkgName, {2, -1}], result[[i]]}, {i, 1, Length[result]}]
]

We be in the same folder as the data file, this command below changes directories so that the current
directory becomes the same as where this notebook is saved. Which should be also the same folder where this text file is.

SetDirectory[ToFileName[Extract[
    "FileName" /. NotebookInformation[EvaluationNotebook[]], {1}, FrontEnd`FileName]]]
G:\nabbasi\data\nabbasi_web_Page\my_notes\compare_mathematica\version_8

data = ReadList["packagesFunctions.txt", String];

r = StringCases[data, RegularExpression["^<"]];
r = Position[r, "<"][[{All, 1}]];
r = Append[r, Length[data] + 1];

result = Table[
    Table[{data[[x[[j]]]], data[[k]]}, {k, x[[j]] + 1, x[[j + 1]] - 1}],
    {j, 1, Length[r] - 1}]
]

result = Table[getFunctionsInPackage[result[[i, 1, 1]], result[[i, All, 2]]],
    {i, 1, Length[result]}];
result = Flatten[result, 1];

resultForSystem = getFunctionsInSystem[];
result = Union[resultForSystem, result];
result = Table[{i, result[[i, 1]], result[[i, 2]]}, {i, 1, Length[result]}];
TableForm[result, TableHeadings -> {None, {"#", "Context", "Function Name"}}]
```

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Equivalent:::shdw:
Symbol [At Line = 26, the input was:; resultForSystem = getFunctionsInSystem[]]; Equivalent appears in multiple contexts
(At Line = 26, the input was:; resultForSystem = getFunctionsInSystem[]; Experimental`, System`); definitions in context (At Line = 26, the input was:; resultForSystem = getFunctionsInSystem[]; Experimental`) may shadow or be shadowed by other definitions. »

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Combinatorica
CartesianProduct

Combinatorica
ChangeEdges

Combinatorica
ChangeVertices

Combinatorica
ChromaticNumber

Combinatorica
ChromaticPolynomial

Combinatorica
CirculantGraph

Combinatorica
CircularEmbedding

Combinatorica
CircularVertices

Combinatorica
CliqueQ

Combinatorica
CoarserSetPartitionQ

Combinatorica
CodeToLabeledTree

Combinatorica
Cofactor

Combinatorica
CompleteBinaryTree

Combinatorica
CompleteGraph

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CompleteKaryTree

Combinatorica
CompleteKPartiteGraph

Combinatorica
CompleteQ

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ConnectedComponents

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ConnectedQ

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ConstructTableau

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Contract

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Cycle

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CycleIndex

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161 Combinatorica HeapSort
162 Combinatorica HideCycles
163 Combinatorica Highlight
164 Combinatorica Hypercube
165 Combinatorica IdenticalQ
166 Combinatorica IdentityPermutation
167 Combinatorica IncidenceMatrix
168 Combinatorica InDegree
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170 Combinatorica Index
171 Combinatorica InduceSubgraph
172 Combinatorica InitializeUnionFind
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203 Combinatorica MakeUndirected
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206 Combinatorica MaximumClique
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208 Combinatorica MaximumSpanningTree
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