
NAME

PyMOLUtil

SYNOPSIS

import PyMOLUtil

DESCRIPTION

PyMOLUtil module provides the following functions:

CalculateCenterOfMass, ConvertFileFormat, ConvertPMLFileToPSEFile, GetChains, GetChainsAndLigandsInfo, GetInorganicResiduesInfo, GetLargestLigand, GetLigandResiduesInfo, GetLigands, GetMolecules, GetPocketInorganicResiduesInfo, GetPocketPolymerResiduesInfo, GetPocketSolventResiduesInfo, GetPolymerResiduesInfo, GetSolventResiduesInfo, ProcessChainsAndLigandsOptionsInfo, SetupPMLForAlignment, SetupPMLForBFactorPuttyView, SetupPMLForBallAndStickView, SetupPMLForEnableDisable, SetupPMLForGroup, SetupPMLForHydrophobicSurfaceView, SetupPMLForInorganicView, SetupPMLForLigandPocketInorganicView, SetupPMLForLigandPocketSolventView, SetupPMLForLigandPocketView, SetupPMLForLigandView, SetupPMLForPolarContactsView, SetupPMLForPolymerChainComplexView, SetupPMLForPolymerChainView, SetupPMLForPolymerComplexView, SetupPMLForSolventView, SetupPMLForSurfaceView, SetupPMLHeaderInfo

FUNCTIONS**CalculateCenterOfMass**

```
CalculateCenterOfMass(Selection = "all", Quiet = 0)
```

Calculate center of mass for a selection.

Arguments:

Selection (str): A PyMOL selection.
Quiet (int): Print information.

Returns:

list: X, Y, Z coordinates for center of mass.

ConvertFileFormat

```
ConvertFileFormat(Infile, Outfile, Reinitialize = True, OutputFeedback = True)
```

Convert infile to outfile by automatically detecting their formats from the file extensions.
The formats of both input and output files must be a valid format supported by PyMOL.

Arguments:

Infile (str): Name of input file.
Outfile (str): Name of outfile file.
Reinitialize (bool): Reinitialize PyMOL before loading input file.
OutputFeedback (bool): Control output feedback.

ConvertPMLFileToPSEFile

```
ConvertPMLFileToPSEFile(PMLFile, PSEFile, Reinitialize = True, OutputFeedback = True)
```

Convert PML file to PME file.

Arguments:

PMLFile (str): Name of PML file.
PSEFile (str): Name of PSE file.
Reinitialize (bool): Reinitialize PyMOL before loading PML file.
OutputFeedback (bool): Control output feedback.

GetChains

```
GetChains(MoleculeName, RemoveEmpty = True)
```

Get chain identifiers present in a molecule.

Arguments:

MoleculeName (str): Name of a PyMOL molecule object.
RemoveEmpty (bool): Remove empty chain ID from the list of chain IDs

returned by PyMOL.

Returns:

list: Names of chains present in a molecule, sorted alphabetically in a ascending order.

GetChainsAndLigandsInfo

```
GetChainsAndLigandsInfo(Infile, MolName, Quite = False, LigandSortBy = "Size",
LigandSortOrder = "Auto", LigandIgnoreHydrogens = "Yes")
```

Get chain identifiers present in a molecule along with names of the ligands present in chains. Ligands are identified using PyMOL 'organic' selection.

Arguments:

Infile (str) : Name of a file.
MolName (str) : Name to use for PyMOL molecule object.
Quite (bool) : Flag
LigandSortBy (str): Sort ligand names alphabetically or by size. Possible values: Alphabetical or Size
LigandSortOrder (str): Sort order for sorting ligands. Possible values: Ascending, Descending, Auto. The 'Auto' value implies automatic determination of sort order based on the value of 'SortBy'.
Automatic defaults: Descending for SortBy value of Size; Ascending for SortBy value of Alphabetical.
LigandIgnoreHydrogens (str): Ignore hydrogens during determination of ligand size.

Returns:

dict: A dictionary containing list of chain identifiers and dictionaries of chains containing lists of ligand names for each chain. Names of ligands present in chain for a molecule sorted by size or alphabetically.

Example(s):

```
ChainsAndLigandsInfo = GetChainsAndLigandsInfo(Infile, MolName)
for ChainID in ChainsAndLigandsInfo["ChainIDs"]:
    for LigandID in ChainsAndLigandsInfo["LigandIDs"][ChainID]:
        MiscUtil.PrintInfo("ChainID: %s; LigandID: %s" % (ChainID,
LigandID))
```

GetInorganicResiduesInfo

```
GetInorganicResiduesInfo(MoleculeName, ChainName)
```

Get information for inorganic residues present in a chain of a molecule. Inorganic residues are identified using PyMOL 'inorganic' selection.

Arguments:

MoleculeName (str): Name of a PyMOL molecule object.
ChainName (str): Name of a chain in a molecule.

Returns:

dict: A dictionary containing list of residue names and dictionaries of residue numbers and residue count for each residue. Names of residues in the dictionary are not sorted.

Example(s):

```
ResiduesInfo = GetInorganicResiduesInfo(MolName, ChainName)
for ResName in ResiduesInfo["ResNames"]:
    ResCount = ResiduesInfo["ResCount"][ResName]
    ResNums = ResiduesInfo["ResNum"][ResName]
    MiscUtil.PrintInfo("ResName: %s; ResCount: %s; ResNums: %s" %
(ResName, ResCount, ResNums))
```

GetLargestLigand

```
GetLargestLigand(MoleculeName, ChainName, IgnoreHydrogens = 'Yes')
```

Get name of the largest ligand for a chain present in a molecule. Ligands are identified using PyMOL 'organic' selection.

Arguments:

IgnoreHydrogens (str): Ignore hydrogens during determination of ligand size.

Returns:

str: Name of the largest ligand present in a chain.

GetLigandResiduesInfo

```
GetLigandResiduesInfo(MoleculeName, ChainName)
```

Get information for ligand residues present in a chain of a molecule. Ligands are identified using PyMOL 'organic' selection.

Arguments:

MoleculeName (str): Name of a PyMOL molecule object.

ChainName (str): Name of a chain in a molecule.

Returns:

dict: A dictionary containing list of residue names and dictionaries of residue numbers and residue count for each residue. Names of residues in the dictionary are not sorted.

Example(s):

```
ResiduesInfo = GetLigandResiduesInfo(MolName, ChainName)
for ResName in ResiduesInfo["ResNames"]:
    ResCount = ResiduesInfo["ResCount"][ResName]
    ResNums = ResiduesInfo["ResNum"][ResName]
    MiscUtil.PrintInfo("ResName: %s; ResCount: %s; ResNums: %s" %
        (ResName, ResCount, ResNums))
```

GetLigands

```
GetLigands(MoleculeName, ChainName, SortBy = "Size", SortOrder = "Auto",
IgnoreHydrogens = "Yes")
```

Get names of ligands present in a chain of a molecule. Ligands are identified using PyMOL 'organic' selection.

Arguments:

MoleculeName (str): Name of a PyMOL molecule object.

ChainName (str): Name of a chain in a molecule.

SortBy (str): Sort ligand names alphabetically or by size. Possible values: Alphabetical or Size

SortOrder (str): Sort order for sorting ligands. Possible values: Ascending, Descending, Auto. The 'Auto' value implies automatic determination of sort order based on the value of 'SortBy'. Automatic defaults: Descending for SortBy value of Size; Ascending for SortBy value of Alphabetical.

IgnoreHydrogens (str): Ignore hydrogens during determination of ligand size.

Returns:

list: Names of ligands present in chain for a molecule sorted by size or alphabetically.

GetMolecules

```
GetMolecules(Selection = "all")
```

Get names of molecule objects in a selection or all molecule objects.

Arguments:

Selection: (str): A PyMOL selection.

Returns:

list: Names of molecule objects.

GetPocketInorganicResiduesInfo

```
GetPocketInorganicResiduesInfo(MoleculeName, ChainName, LigandResName,
                                LigandResNum, PocketDistanceCutoff)
```

Get information for inorganic residues present in a pocket around a ligand in a molecule. Inorganic residues are identified using PyMOL 'inorganic' selection.

Arguments:

MoleculeName (str): Name of a PyMOL molecule object.
 ChainName (str): Name of a chain in a molecule.
 LigandResName (str): Residue name of a ligand in a chain.
 LigandResNum (str): Residue number of a ligand in a chain.
 PocketDistanceCutoff (float): Distance around a ligand to identify pocket residues.

Returns:

dict: A dictionary containing list of residue names and dictionaries of residue numbers and residue count for each residue. Names of residues in the dictionary are not sorted.

Example(s):

```
ResiduesInfo = GetPocketInorganicResiduesInfo(MolName, ChainName)
for ResName in ResiduesInfo["ResNames"]:
    ResCount = ResiduesInfo["ResCount"][ResName]
    ResNums = ResiduesInfo["ResNum"][ResName]
    MiscUtil.PrintInfo("ResName: %s; ResCount: %s; ResNums: %s" %
                       (ResName, ResCount, ResNums))
```

GetPocketPolymerResiduesInfo

```
GetPocketPolymerResiduesInfo(MoleculeName, ChainName, LigandResName, LigandResNum,
                              PocketDistanceCutoff)
```

Get information for chain residues present in a pocket around a ligand in a molecule. Polymer residues are identified using negation of PyMOL selection operators 'organic', 'solvent', and 'inorganic'.

Arguments:

MoleculeName (str): Name of a PyMOL molecule object.
 ChainName (str): Name of a chain in a molecule.
 LigandResName (str): Residue name of a ligand in a chain.
 LigandResNum (str): Residue number of a ligand in a chain.
 PocketDistanceCutoff (float): Distance around ligand to identify pocket residues.

Returns:

dict: A dictionary containing list of residue names and dictionaries of residue numbers and residue count for each residue. Names of residues in the dictionary are not sorted.

Example(s):

```
ResiduesInfo = GetPocketPolymerResiduesInfo(MolName, ChainName)
for ResName in ResiduesInfo["ResNames"]:
    ResCount = ResiduesInfo["ResCount"][ResName]
    ResNums = ResiduesInfo["ResNum"][ResName]
    MiscUtil.PrintInfo("ResName: %s; ResCount: %s; ResNums: %s" %
                       (ResName, ResCount, ResNums))
```

GetPocketSolventResiduesInfo

```
GetPocketSolventResiduesInfo(MoleculeName, ChainName, LigandResName, LigandResNum,
                              PocketDistanceCutoff)
```

Get information for solvent residues present in a pocket around a ligand in a molecule. Solvent residues are identified using PyMOL 'solvent' selection.

Arguments:

MoleculeName (str): Name of a PyMOL molecule object.
 ChainName (str): Name of a chain in a molecule.
 LigandResName (str): Residue name of a ligand in a chain.
 LigandResNum (str): Residue number of a ligand in a chain.
 PocketDistanceCutoff (float): Distance around ligand to identify pocket residues.

Returns:

dict: A dictionary containing list of residue names and dictionaries of residue numbers and residue count for each residue. Names of residues in the dictionary are not sorted.

Example(s):

```
ResiduesInfo = GetPocketSolventResiduesInfo(MolName, ChainName)
for ResName in ResiduesInfo["ResNames"]:
    ResCount = ResiduesInfo["ResCount"][ResName]
    ResNums = ResiduesInfo["ResNum"][ResName]
    MiscUtil.PrintInfo("ResName: %s; ResCount: %s; ResNums: %s" %
                      (ResName, ResCount, ResNums))
```

GetPolymerResiduesInfo

```
GetPolymerResiduesInfo(MoleculeName, ChainName)
```

Get information for residues present in a chain of a molecule. Chains are identified using PyMOL 'polymer' selection.

Arguments:

MoleculeName (str): Name of a PyMOL molecule object.
 ChainName (str): Name of a chain in a molecule.

Returns:

dict: A dictionary containing list of residue names and dictionaries of residue numbers and residue count for each residue. Names of residues in the dictionary are not sorted.

Example(s):

```
ResiduesInfo = GetPolymerResiduesInfo(MolName, ChainName)
for ResName in ResiduesInfo["ResNames"]:
    ResCount = ResiduesInfo["ResCount"][ResName]
    ResNums = ResiduesInfo["ResNum"][ResName]
    MiscUtil.PrintInfo("ResName: %s; ResCount: %s; ResNums: %s" %
                      (ResName, ResCount, ResNums))
```

GetSolventResiduesInfo

```
GetSolventResiduesInfo(MoleculeName, ChainName)
```

Get information for solvent residues present in a chain of a molecule. Solvents are identified using PyMOL 'solvent' selection.

Arguments:

MoleculeName (str): Name of a PyMOL molecule object.
 ChainName (str): Name of a chain in a molecule.

Returns:

dict: A dictionary containing list of residue names and dictionaries of residue numbers and residue count for each residue. Names of residues in the dictionary are not sorted.

Example(s):

```
ResiduesInfo = GetSolventResiduesInfo(MolName, ChainName)
for ResName in ResiduesInfo["ResNames"]:
    ResCount = ResiduesInfo["ResCount"][ResName]
    ResNums = ResiduesInfo["ResNum"][ResName]
    MiscUtil.PrintInfo("ResName: %s; ResCount: %s; ResNums: %s" %
                      (ResName, ResCount, ResNums))
```

```
(ResName, ResCount, ResNums))
```

ProcessChainsAndLigandsOptionsInfo

```
ProcessChainsAndLigandsOptionsInfo(ChainsAndLigandsInfo, ChainsOptionName,
ChainsOptionValue, LigandsOptionName = None, LigandsOptionValue = None)
```

Process specified chain and ligand IDs using command line options.

Arguments:

```
ChainsAndLigandsInfo (dict): A dictionary containing information
    existing chains and ligands.
ChainsOptionName (str): Name of command line chains option.
ChainsOptionValue (str): Value for command line chains option.
LigandsOptionName (str): Name of command line ligands option.
LigandsOptionValue (str): Value for command line ligands option.
```

Returns:

```
dict: A dictionary containing list of chain identifiers and dictionaries
    of chains containing lists of ligand names for each chain.
```

Example(s):

```
ChainsAndLigandsInfo = ProcessChainsAndLigandsOptionsInfo(Infile,
    MolName)
for ChainID in ChainsAndLigandsInfo["ChainIDs"]:
    for LigandID in ChainsAndLigandsInfo["LigandIDs"][ChainID]:
        MiscUtil.PrintInfo("ChainID: %s; LigandID: %s" % (ChainID,
            LigandID))
```

SetupPMLForAlignment

```
SetupPMLForAlignment(Method, RefSelection, FitSelection)
```

Setup PML commands for aligning a pair of selection using a specified alignment method.

Arguments:

```
Method (str): Alignment method. Possible values: align, cealign, super.
RefSelection (str): Name of reference selection which stays stationary.
FitSelection (str): Name of selection to align to reference selection.
```

Returns:

```
str: PML commands for aligning a pair of selections.
```

SetupPMLForBFactorPuttyView

```
SetupPMLForBFactorPuttyView(Name, Selection, ColorPalette = "blue_white_red",
Enable = True)
```

Setup PML commands for creating a B factor putty view for a specified selection. The B factor values must be available for the atoms. The atoms are colored using a color spectrum corresponding to a specified color palette. Any valid PyMOL color palette name may be used.

Arguments:

```
Name (str): Name of a new PyMOL B factor putty object.
Selection (str): Name of PyMOL selection.
ColorPalette (str): Name of color palette to use for color spectrum.
Enable (bool): Display status of B factor putty object.
```

Returns:

```
str: PML commands for B factor putty view.
```

SetupPMLForBallAndStickView

```
SetupPMLForBallAndStickView(Name, Selection, Enable = True, SphereScale = 0.3,
StickRadius = 0.2)
```

Setup PML commands for creating a ball and stick view for a specified selection.

Arguments:

Name (str): Name of a new PyMOL ball and stick object.
Selection (str): Name of PyMOL selection.
Enable (bool): Display status of ball and stick object.
SphereScale (float): Scaling factor for sphere radii.
StickScale (float): Scaling factor for stick radii.

Returns:

str: PML commands for ball and stick view.

SetupPMLForEnableDisable

```
SetupPMLForEnableDisable(Name, Enable = True)
```

Setup PML command for enabling or disabling display of a PyMOL object.

Arguments:

Name (str): Name of a PyMOL object.
Enable (bool): Display status.

Returns:

str: PML command for enabling or disabling display of an object.

SetupPMLForGroup

```
SetupPMLForGroup(GroupName, GroupMembersList, Enable = None, Action = None)
```

Setup PML commands for creating a group from a list of group members. The display and open status of the group may be optionally set. The 'None' values for Enable and Action imply usage of PyMOL defaults for the creation of group.

Arguments:

GroupName (str): Name of a PyMOL group.
GroupMembersList (list): List of group member names.
Enable (bool): Display status of group.
Action (str): Open or close status of group object.

Returns:

str: PML commands for creating a group object.

SetupPMLForHydrophobicSurfaceView

```
SetupPMLForHydrophobicSurfaceView(Name, Selection, ColorPalette = "RedToWhite",  
Enable = True)
```

Setup PML commands for creating a hydrophobic surface view for a specified selection. The surfaces are colored using a specified color palette. This is only valid for amino acids.

Arguments:

Name (str): Name of a new PyMOL hydrophobic surface object.
Selection (str): Name of PyMOL selection.
ColorPalette (str): Name of color palette to use for coloring surfaces.
Possible values: RedToWhite or WhiteToGreen for most hydrophobic
to least hydrophobic amino acids.
Enable (bool): Display status of surface object.

Returns:

str: PML commands for hydrophobic surface view.

SetupPMLForInorganicView

```
SetupPMLForInorganicView(Name, Selection, Enable = True)
```

Setup PML commands for creating an inorganic view corresponding to inorganic residues present in a selection. The inorganic residues are identified using inorganic selection operator available in PyMOL. The inorganic residues are displayed as 'lines' and 'nonbonded'.

Arguments:

Name (str): Name of a new PyMOL inorganic object.
Selection (str): Name of PyMOL selection.

Enable (bool): Display status of inorganic object.

Returns:

str: PML commands for inorganic view.

SetupPMLForLigandPocketInorganicView

SetupPMLForLigandPocketInorganicView(Name, Selection, LigandSelection, DistanceCutoff, Enable = True)

Setup PML commands for creating a ligand binding pocket view corresponding to only inorganic residues present in a selection within a specified distance from a ligand selection. The inorganic pocket residues are shown as 'lines' and 'nonbonded'.

Arguments:

Name (str): Name of a new PyMOL solvent binding pocket object.
Selection (str): PyMOL selection containing binding pocket residues.
LigandSelection (str): PyMOL selection containing ligand.
DistanceCutoff (float): Distance cutoff from ligand for selecting binding pocket inorganic residues.
Enable (bool): Display status of binding pocket object.

Returns:

str: PML commands for a ligand binding pocket view only showing inorganic residues.

SetupPMLForLigandPocketSolventView

SetupPMLForLigandPocketSolventView(Name, Selection, LigandSelection, DistanceCutoff, Enable = True)

Setup PML commands for creating a ligand binding pocket view corresponding to only solvent residues present in a selection within a specified distance from a ligand selection. The solvent pocket residues are shown as 'lines' and 'nonbonded'.

Arguments:

Name (str): Name of a new PyMOL solvent binding pocket object.
Selection (str): PyMOL selection containing binding pocket residues.
LigandSelection (str): PyMOL selection containing ligand.
DistanceCutoff (float): Distance cutoff from ligand for selecting binding pocket solvent residues.
Enable (bool): Display status of binding pocket object.

Returns:

str: PML commands for a ligand binding pocket view only showing solvent residues.

SetupPMLForLigandPocketView

SetupPMLForLigandPocketView(Name, Selection, LigandSelection, DistanceCutoff, Enable = True)

Setup PML commands for creating a ligand binding pocket view corresponding all residues present in a selection within a specified distance from a ligand selection. The solvent and inorganic portions of the selection are not included in the binding pocket. The pocket residues are shown as 'lines'. The hydrogen atoms are not displayed.

Arguments:

Name (str): Name of a new PyMOL binding pocket object.
Selection (str): PyMOL selection containing binding pocket residues.
LigandSelection (str): PyMOL selection containing ligand.
DistanceCutoff (float): Distance cutoff from ligand for selecting binding pocket residues.
Enable (bool): Display status of binding pocket object.

Returns:

str: PML commands for a ligand binding pocket view.

SetupPMLForLigandView

```
SetupPMLForLigandView(Name, Selection, LigandResName, Enable = True)
```

Setup PML commands for creating a ligand view corresponding to a ligand present in a selection. The ligand is identified using organic selection operator available in PyMOL in conjunction with the specified ligand ID. The ligand is colored by atom types and displayed as 'sticks'.

Arguments:

Name (str): Name of a new PyMOL ligand object.
Selection (str): PyMOL selection containing ligand.
LigandResName (str): Ligand ID.
Enable (bool): Display status of ligand object.

Returns:

str: PML commands for a ligand view.

SetupPMLForPolarContactsView

```
SetupPMLForPolarContactsView(Name, Selection1, Selection2, Enable = True, Color = "yellow")
```

Setup PML commands for creating polar contacts view between a pair of selections. The polar contact view is generated using 'util.dist' command. The distance labels are shown by default.

Arguments:

Name (str): Name of a new PyMOL polar contacts object.
Selection1 (str): First PyMOL selection.
Selection2 (str): Second PyMOL selection.
Enable (bool): Display status of polar contacts object.
Color (str): Color for polar contact lines and labels.

Returns:

str: PML commands for polar contacts view between a pair of selections.

SetupPMLForPolymerChainComplexView

```
SetupPMLForPolymerChainComplexView(ChainComplexName, Selection, ChainName, Enable = True, ShowSolvent = True, ShowInorganic = True, ShowLines = True)
```

Setup PML commands for creating a polymer chain complex view for a specified chain in a selection. The solvent and inorganic residues are also shown by default. The polymer chain is displayed as 'cartoon'. The 'line' display for the polymer chain is also shown and may be turned off. The organic residues are displayed as 'sticks'. The solvent and inorganic residues are displayed as 'nonbonded' and 'lines'.

Arguments:

ChainComplexName (str): Name of a new PyMOL polymer chain complex.
Selection (str): Name of PyMOL selection.
ChainName (str): Name of a chain.
Enable (bool): Display status of chain object.
ShowSolvent (bool): Display solvent residues.
ShowInorganic (bool): Display inorganic residues.
ShowLines (bool): Display lines for polymer chain.

Returns:

str: PML commands for polymer chain complex view.

SetupPMLForPolymerChainView

```
SetupPMLForPolymerChainView(Name, Selection, Enable = True)
```

Setup PML commands for creating a polymer chain view corresponding to backbone and sidechain residues in a selection. The polymer chain is displayed as 'cartoon'.

Arguments:

Name (str): Name of a new PyMOL polymer chain object.
Selection (str): Name of PyMOL selection.
Enable (bool): Display status of chain object.

Returns:

str: PML commands for polymer chain view.

SetupPMLForPolymerComplexView

```
SetupPMLForPolymerComplexView(MoleculeName, PDBFile, Enable = True, ShowSolvent = True, ShowInorganic = True, ShowLines = True)
```

Setup PML commands for creating a polymer complex view for all chains in a PDB file. The solvent and inorganic residues are also shown by default. The polymer chains are displayed as 'cartoon'. The 'line' display for the polymer chains is also shown and may be turned off. The organic residues are displayed as 'sticks'. The solvent and inorganic residues are displayed as 'nonbonded' and 'lines'.

Arguments:

MoleculeName (str): Name of a new PyMOL molecule object.
PDBFile (str): Name of PDB file.
Enable (bool): Display status of chain object.
ShowSolvent (bool): Display solvent residues.
ShowInorganic (bool): Display inorganic residues.
ShowLines (bool): Display lines for polymer chains.

Returns:

str: PML commands for polymer complex view.

SetupPMLForSolventView

```
SetupPMLForSolventView(Name, Selection, Enable = True)
```

Setup PML commands for creating a solvent view corresponding to solvent residues present in a selection. The solvent residues are identified using solvent selection operator available in PyMOL. The solvent residues are displayed as 'nonbonded'.

Arguments:

Name (str): Name of a new PyMOL solvent object.
Selection (str): Name of PyMOL selection.
Enable (bool): Display status of inorganic object.

Returns:

str: PML commands for solvent view.

SetupPMLForSurfaceView

```
SetupPMLForSurfaceView(Name, Selection, Enable = True)
```

Setup PML commands for creating a molecular surface view for a specified selection.

Arguments:

Name (str): Name of a new PyMOL molecular surface object.
Selection (str): Name of PyMOL selection.
Enable (bool): Display status of surface object.

Returns:

str: PML commands for molecular surface view.

SetupPMLHeaderInfo

```
SetupPMLHeaderInfo(ScriptName = None, IncludeLocalPython = True)
```

Setup header information for generating PML files. The local Python functions are optionally embedded in the header information for their **Arguments**:

ScriptName (str): Name of script calling the function.
IncludeLocalPython (bool): Include local Python functions.

Returns:

str: Text containing header information for generating PML files.

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The functionality available in this file is implemented using PyMOL, a molecular visualization system on an open source foundation originally developed by Warren DeLano.

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