

A grassgis language definition for the listings packages

```

1 % listings
2 \usepackage{listings}
3 \renewcommand{\lstlistingname}{List of Listings} % Fix the List of Listings title
4
5 \AtBeginDocument{% Beginning of AtBegin -->
6
7 % "define" grassgis
8 \lstdefinlanguage{grassgis}{
9   alsoletter=-.,
10  alsoother={\{=\}},
11
12  % d
13  morekeywords=[1]{d.barscale, d.colorlist, d.colortable, d.correlate, d.erase, d.font, \
14    d.fontlist, d.geodesic, d.graph, d.grid, d.his, d.histogram, d.info, d.labels, d\
15    .legend, d.linegraph, d.mon, d.northarrow, d.out.file, d.path, d.polar, d.\
16    profile, d.rast, d.rast.arrow, d.rast.edit, d.rast.leg, d.rast.num, d.redraw, d\
17    rgb, d.rhumblin, d.shadedmap, d.text, d.thematic.area, d.title, d.to.rast, d\
18    vect, d.vect.chart, d.vect.thematic, d.what.rast, d.what.vect, d.where},
19
20  % db
21  morekeywords=[2]{db.columns, db.connect, db.copy, db.createdb, db.databases, db.\
22    describe, db.drivers, db.dropcolumn, db.dropdb, db.droptable, db.execute, db.in.\
23    ogr, db.login, db.out.ogr, db.select, db.tables, db.test, db.univar},
24
25  % g
26  morekeywords=[3]{g.access, g.cairocomp, g.copy, g.dirseps, g.extension, g.extension.\
27    all, g.filename, g.findetc, g.findfile, g.gisenv, g.gui, g.gui.animation, g.gui.\
28    dbmgr, g.gui.gcp, g.gui.gmodeler, g.gui.iclass, g.gui.mapswipe, g.gui.psmmap, g.\
29    gui.rlsetup, g.gui.timeline, g.gui.vdigit, g.list, g.manual, g.mapset, g.\
30    mapsets, g.message, g.mkfontcap, g.parser, g.pnmcomp, g.ppmtopng, g.proj, g.\
31    region, g.remove, g.rename, g.tempfile, g.version},
32
33  % i
34  morekeywords=[4]{i.albedo, i.aster.toar, i.atcorr, i.biomass, i.cca, i.cluster, i.\
35    colors.enhance, i.eb.eta, i.eb.evapfr, i.eb.hsebal01, i.eb.netrad, i.eb.\
36    soilheatflux, i.emissivity, i.evapo.mh, i.evapo.pm, i.evapo.pt, i.evapo.time, i.\
37    fft, i.gensig, i.gensigset, i.group, i.his.rgb, i.iff, i.image.mosaic, i.in.\
38    spotvgt, i.landsat.acca, i.landsat.toar, i.maxlik, i.modis.qc, i.oif, i.ortho.\
39    camera, i.ortho.elev, i.ortho.rectify, i.pansharpen, i.pca, i.rectify, i.rgb.his\
40    , i.segment, i.smap, i.spectral, i.target, i.tasscap, i.topo.corr, i.vi, i.zc},
41
42  % m
43  morekeywords=[5]{m.cogo, m.measure, m.nviz.image, m.nviz.script, m.proj, m.transform},
44
45  % ps
46  morekeywords=[6]{ps.map},
47
48  % r
49  morekeywords=[7]{r.basins.fill, r.blend, r.buffer, r.buffer.lowmem, r.carve, r.\
50    category, r.circle, r.clump, r.coin, r.colors, r.colors.out, r.colors.stddev, r.\
51    composite, r.compress, r.contour, r.cost, r.covar, r.cross, r.describe, r.\
52    distance, r.drain, r.external, r.external.out, r.fill.dir, r.fillnulls, r.flow, \
53    r.grow, r.grow.distance, r.gwflow, r.his, r.horizon, r.in.ascii, r.in.aster, r.\
54    in.bin, r.in.gdal, r.in.gridatb, r.in.lidar, r.in.mat, r.in.png, r.in.poly, r.in\
55    .srtm, r.in.wms, r.in.xyz, r.info, r.kappa, r.lake, r.latlong, r.li, r.li.cwed, \
56    r.li.daemon, r.li.dominance, r.li.edgedensity, r.li.mpa, r.li.mps, r.li.padc, r\
57    .li.padrage, r.li.padsd, r.li.patchdensity, r.li.patchnum, r.li.pielou, r.li.\
58    renyi, r.li.richness, r.li.shannon, r.li.shape, r.li.simpson, r.mapcalc, r.mask,\
59    r.mfilter, r.mode, r.neighbors, r.null, r.out.ascii, r.out.bin, r.out.gdal, r.\
60    out.gridatb, r.out.mat, r.out.mpeg, r.out.png, r.out.pov, r.out.ppm, r.out.ppm3,\
61    r.out.vrml, r.out.vtk, r.out.xyz, r.pack, r.param.scale, r.patch, r.plane, r.\
62    profile, r.proj, r.quant, r.quantile, r.random, r.random.cells, r.random.surface\
63    , r.reclass, r.reclass.area, r.recode, r.region, r.regression.line, r.regression\
64    .multi, r.report, r.resamp.bspline, r.resamp.filter, r.resamp.interp, r.resamp.\
65    rst, r.resamp.stats, r.resample, r.rescale, r.rescale.eq, r.rgb, r.ros, r.series\
66    , r.series.accumulate, r.series.interp, r.shaded.relief, r.sim.sediment, r.sim.\
67    water, r.slope.aspect, r.solute.transport, r.spread, r.spreadpath, r.statistics,\
68    r.stats, r.stats.quantile, r.stats.zonal, r.stream.extract, r.sun, r.sunhours, \
69    r.sunmask, r.support, r.support.stats, r.surf.area, r.surf.contour, r.surf.\
70    fractal, r.surf.gauss, r.surf.idw, r.surf.idw2, r.surf.random, r.terraflow, r.\
71    texture, r.thin, r.tile, r.tileset, r.timestamp, r.to.rast3, r.to.rast3elev, r.\
72    to.vect, r.topidx, r.topmodel, r.transect, r.univar, r.unpack, r.uslek, r.usler,\
73    r.viewshed, r.volume, r.walk, r.water.outlet, r.watershed, r.what, r.what.color\
74    },
75
76  % r3
77  morekeywords=[8]{r3.colors, r3.colors.out, r3.cross.rast, r3.gwflow, r3.in.ascii, r3.\
78    in.bin, r3.in.v5d, r3.in.xyz, r3.info, r3.mapcalc, r3.mask, r3.mkdspf, r3.\
79    neighbors, r3.null, r3.out.ascii, r3.out.bin, r3.out.netcdf, r3.out.v5d, r3.out.\
80    vtk, r3.retile, r3.stats, r3.support, r3.timestamp, r3.to.rast, r3.univar},
81
82  % t

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28 morekeywords=[9]{t.connect, t.create, t.info, t.list, t.merge, t.rast.accdetect, t.\
    rast.accumulate, t.rast.aggregate, t.rast.aggregate.ds, t.rast.colors, t.rast.\
    export, t.rast.extract, t.rast.gapfill, t.rast.import, t.rast.list, t.rast.\
    mapcalc, t.rast.neighbors, t.rast.out.vtk, t.rast.series, t.rast.to.rast3, t.\
    rast.univar, t.rast3d.extract, t.rast3d.list, t.rast3d.mapcalc, t.rast3d.univar,\
    t.register, t.remove, t.rename, t.sample, t.shift, t.snap, t.support, t.\
    topology, t.unregister, t.vect.db.select, t.vect.export, t.vect.extract, t.vect.\
    import, t.vect.list, t.vect.observe.strds, t.vect.univar, t.vect.what.strds},
29
30 % v
morekeywords=[10]{v.buffer, v.build, v.build.all, v.build.polylines, v.category, v.\
    centroids, v.class, v.clean, v.colors, v.colors.out, v.convert, v.convert.all, v.\
    .db.addcolumn, v.db.addtable, v.db.connect, v.db.dropcolumn, v.db.dropprow, v.db.\
    droptable, v.db.join, v.db.reconnect.all, v.db.renamecolumn, v.db.select, v.db.\
    univar, v.db.update, v.delaunay, v.dissolve, v.distance, v.drape, v.edit, v.\
    external, v.external.out, v.extract, v.extrude, v.generalize, v.hull, v.in.ascii\
    , v.in.db, v.in.dxf, v.in.e00, v.in.geonames, v.in.gns, v.in.lidar, v.in.lines, \
    v.in.mapgen, v.in.ogr, v.in.region, v.in.wfs, v.info, v.kcv, v.kernel, v.krige, \
    v.label, v.lidar.correction, v.lidar.edgedetection, v.lidar.growing, v.lrs.\
    create, v.lrs.label, v.lrs.segment, v.lrs.where, v.mkgrid, v.neighbors, v.net, v\
    .net.alloc, v.net.allpairs, v.net.bridge, v.net.centrality, v.net.components, v.\
    net.connectivity, v.net.distance, v.net.flow, v.net.iso, v.net.path, v.net.\
    salesman, v.net.spanningtree, v.net.steiner, v.net.timetable, v.net.visibility, \
    v.normal, v.out.ascii, v.out.dxf, v.out.gps, v.out.ogr, v.out.postgis, v.out.pov\
    , v.out.svg, v.out.vtk, v.outlier, v.overlay, v.pack, v.parallel, v.patch, v.\
    perturb, v.proj, v.qcount, v.random, v.rast.stats, v.reclass, v.rectify, v.\
    report, v.sample, v.segment, v.select, v.split, v.support, v.surf.bspline, v.\
    surf.idw, v.surf.rst, v.timestamp, v.to.3d, v.to.db, v.to.lines, v.to.points, v.\
    to.rast, v.to.rast3, v.transform, v.type, v.univar, v.unpack, v.vect.stats, v.\
    vol.rst, v.voronoi, v.what, v.what.rast, v.what.rast3, v.what.vect},
31
32 % parameters
morekeywords=[11]{region=, zoom=, nsres=, ewres=, MASK=, input=, in=, dsn=, rast=, map\
    =, output=, out=, type=, use=, attrcolumn=, rgbcolumn=, labelcolumn=, method=, \
    size=, title=, color=, null()=, S=, N=, W=, E=, -f, -g, n=, s=, w=, e=, --o, -c,\
    -e, -s, -ca, -h, --help},
33
34 % variables
morekeywords=[12]{APPDATA, ASCII, CELL, DCELL, DEBUG, FCELL, GISBASE, GISDBASE, GISRC,\
    GIS_ERROR_LOG, GIS_LOCK, GRASS_ADDON_BASE, GRASS_ADDON_ETC, GRASS_ADDON_PATH, \
    GRASS_BATCH_JOB, GRASS_DB_ENCODING, GRASS_ENCODING, GRASS_ERROR_MAIL, GRASS_FONT\
    , GRASS_FONT_CAP, GRASS_GNUPLOT, GRASS_GUI, GRASS_HTML_BROWSER, GRASS_INT_ZLIB, \
    GRASS_MESSAGE_FORMAT, GRASS_MOUSE_BUTTON, GRASS_NO_GX_PBUFFERS, GRASS_NO_GX\
    PIXMAPS, GRASS_OVERWRITE, GRASS_PAGER, GRASS_PERL, GRASS_PYTHON, GRASS_REGION, \
    GRASS_RENDER_FRAME, GRASS_RENDER_HEIGHT, GRASS_RENDER_IMMEDIATE, GRASS_RENDER\
    LINE_WIDTH, GRASS_RENDER_TEXT_SIZE, GRASS_RENDER_WIDTH, GRASS_SH, GRASS_SIGSEGV\
    ON_ERROR, GRASS_SKIP_MAPSET_OWNER_CHECK, GRASS_UI_TERM, GRASS_VECTOR_EXTERNAL\
    IGNORE, GRASS_VECTOR_EXTERNAL_IMMEDIATE, GRASS_VECTOR_LOWMEM, GRASS_VECTOR_OGR, \
    GRASS_VECTOR_TEMPORARY, GRASS_VERBOSE, GRASS_VERSION, GRASS_WXBUNDLED, GRASS\
    XTERM, GRASS_ZLIB_LEVEL, GUI, LOCATION, LOCATION_NAME, MAPSET, OMP_NUM_THREADS, \
    OVERWRITE, SIGSEGV, TEMP, TMP, TMPDIR, WIND_OVERRIDE, WX_DEBUG, wxGUI},
35
36 %
37 sensitive=true,
38 morestring=[b]"
39
40 % Default settings for code listings
41 % morecomment=[n]{\keywordstyle[{}]}).
42 \lstset{
43   language=Python
44 }
45 \lstset{
46   aboveskip=3mm,
47   belowskip=3mm,
48   backgroundcolor={\color{lightgray3}},
49   basicstyle={\small\ttfamily},
50   breaklines=true,
51   prebreak={\textbackslash},
52   columns=fullflexible,
53   fillcolor=\color{grassy},
54   frame=l,
55   framexleftmargin=1em,
56   framexrightmargin=0em,
57   framextopmargin=1em,
58   framexbottommargin=1em,
59   framerule=0em,
60   language=grassgis,
61   literate={}{\bfseries\color{greenblue}=}}1},
62   commentstyle={\itshape\color{lightgray}},
63   stringstyle=\color{orange},

```

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63 keywordstyle=[1]\bfseries\color{grassy},
64 keywordstyle=[2]\bfseries\color{grassy},
65 keywordstyle=[3]\bfseries\color{grassy},
66 keywordstyle=[4]\bfseries\color{grassy},
67 keywordstyle=[5]\bfseries\color{grassy},
68 keywordstyle=[6]\bfseries\color{grassy},
69 keywordstyle=[7]\bfseries\color{grassy},
70 keywordstyle=[8]\bfseries\color{grassy},
71 keywordstyle=[9]\bfseries\color{grassy},
72 keywordstyle=[10]\bfseries\color{grassy},
73 keywordstyle=[11]\color{darkgreen},
74 keywordstyle=[12]\color{magenta},
75 numbers=left,
76 numberstyle=\tiny\ttfamily,
77 numbersep=3em,
78 keepspaces=true,
79 showstringspaces=false,
80 tab=BADTAB,
81 showtabs=true,
82 upquote=true
83 }
84 } \see: <http://tex.stackexchange.com/a/145868/8272>

```