examples

August 25, 2017

0.1 Python

SOURCE

```
notebooks\01-intro\notebook-train.ipynbNotebookNotebook
```

SOURCE

```
scpy2.utils.nbmagicsNotebooknotebooks\01-intro\scpy2-magics.ipynb
```

0.2 NumPy-

```
In [5]: %exec_python -m scpy2.numpy.array_index_demo
```

0.3 SciPy-

SOURCE

```
scpy2.scipy.hrd_solvercsgraph
```

```
In [1]: %exec_python -m scpy2.scipy.hrd_solver
```

0.4 matplotlib-

SOURCE

```
scpy2/matplotlib/chinese_fonts.py1MTTF
```

```
In [21]: %exec_python -m scpy2.matplotlib.chinese_fonts
```

SOURCE

```
scpy2.common.GraphvizMatplotlibmatplotlibref:fig-next
```

SOURCE

```
scpy2.matplotlib.svg_pathSVGPatch
```

SOURCE

```
scpy2.matplotlib.ImageDrawerRendererAgg
```

SOURCE

```
scpy2.matplotlib.key_event_show_key
```

In [1]: %exec_python -m scpy2.matplotlib.key_event_show_key

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```
scpy2.matplotlib.key_event_change_color
```

In [1]: %exec_python -m scpy2.matplotlib.key_event_change_color

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```
scpy2.matplotlib.mouse_event_show_info
```

In [3]: %exec_python -m scpy2.matplotlib.mouse_event_show_info

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```
scpy2.matplotlib.mouse_event_move_polygonPatch
```

In [4]: %exec_python -m scpy2.matplotlib.mouse_event_move_polygon

SOURCE

```
scpy2.matplotlib.pick_event_demo
```

In [7]: %exec_python -m scpy2.matplotlib.pick_event_demo

SOURCE

```
scpy2.matplotlib.mouse_event_highlight_curve
```

In [4]: %exec_python -m scpy2.matplotlib.mouse_event_highlight_curve

SOURCE

```
scpy2.matplotlib.gui_panelTKQTTkSliderPanelQtSliderPaneltk_panel_demo.pyqt_panel_demo.py
```

In [2]: %exec_python -m scpy2.matplotlib.tk_panel_demo

In [3]: %exec_python -m scpy2.matplotlib.qt_panel_demo

0.5 Pandas-

0.6 SymPy-

0.7 Traits & TraitsUI-

> **SOURCE**
>
> traitsuidemo.demoTraitsUI

```
In [4]: %exec_python -m traitsuidemo.demo
```

> **SOURCE**
>
> scpy2.traits.traitsui_editorsTraitsUI

```
In [19]: %exec_python -m scpy2.traits.traitsui_editors
```

> **SOURCE**
>
> scpy2.traits.traitsui_componentTraitsUI

```
In [21]: %exec_python -m scpy2.traits.traitsui_component
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> **SOURCE**
>
> scpy2.traits.traitsui_component_multi_view

```
In [12]: %exec_python -m scpy2.traits.traitsui_component_multi_view
```

> **SOURCE**
>
> scpy2.traits.traitsui_function_plotterTraitsUI

```
In [1]: %exec_python -m scpy2.traits.traitsui_function_plotter
```

0.8 TVTKMayavi-

> **SOURCE**
>
> scpy2.tvtk.tvtk_class_docTVTK

```
In [2]: %exec_python -m scpy2.tvtk.tvtk_class_doc
```

> **SOURCE**
>
> scpy2.tvtk.figure_imagedataref:fig-prev

```
In [1]: %exec_python -m scpy2.tvtk.figure_imagedata
```

> **SOURCE**
>
> scpy2.tvtk.figure_rectilineargridref:fig-prev

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In [2]: %exec_python -m scpy2.tvtk.figure_rectilineargrid

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    scpy2.tvtk.figure_structuredgridref:fig-prev

In [3]: %exec_python -m scpy2.tvtk.figure_structuredgrid

    SOURCE

    scpy2.tvtk.figure_polydataref:fig-prev

In [4]: %exec_python -m scpy2.tvtk.figure_polydata

    SOURCE

    scpy2.tvtk.example_cut_plane

In [35]: %exec_python -m scpy2.tvtk.example_cut_plane

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    scpy2.tvtk.example_contours

In [6]: %exec_python -m scpy2.tvtk.example_contours

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    scpy2.tvtk.example_streamline

In [7]: %exec_python -m scpy2.tvtk.example_streamline

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    scpy2.tvtk.example_tube_intersection

In [83]: %exec_python -m scpy2.tvtk.example_tube_intersection

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    scpy2.tvtk.mlab_scalar_field

In [2]: %exec_python -m scpy2.tvtk.mlab_scalar_field

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    scpy2.tvtk.mlab_vector_field

In [11]: %exec_python -m scpy2.tvtk.mlab_vector_field

    SOURCE

    scpy2.tvtk.example_embed_tubeTVTKTraitsUI

In [3]: %exec_python -m scpy2.tvtk.example_tube

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    scpy2.tvtk.example_embed_fieldviewerMayaviTraitsUI

In [4]: %exec_python -m scpy2.tvtk.example_embed_fieldviewer
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0.9 OpenCV-

SOURCE

```
scpy2.opencv.fourccFOURCC
```

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In [8]: %exec_python -m scpy2.opencv.fourcc
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```
scpy2.opencv.filter2d_demo'
```

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In [8]: %exec_python -m scpy2.opencv.filter2d_demo
```

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```
scpy2.opencv.morphology_demoOpenCV
```

```
In [59]: %exec_python -m scpy2.opencv.morphology_demo
```

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```
scpy2.opencv.floodfill_demofloodFill()
```

```
In [60]: %exec_python -m scpy2.opencv.floodfill_demo
```

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```
scpy2.opencv.inpaint_demoinpaint()
```

```
In [14]: %exec_python -m scpy2.opencv.inpaint_demo
```

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scpy2.opencv.warp_demo
```

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In [2]: %exec_python -m scpy2.opencv.warp_demo
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scpy2.opencv.remap_demoremap()
```

```
In [11]: %exec_python -m scpy2.opencv.remap_demo
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```
scpy2.opencv.fft2d_demo
```

```
In [25]: %exec_python -m scpy2.opencv.fft2d_demo
```

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```
scpy2.opencv.stereo_demo
```

In [27]: %**exec_python** -m scpy2.opencv.stereo_demo

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   `scpy2.opencv.hough_demo`

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   `scpy2.opencv.watershed_demo""`

In [20]: %**exec_python** -m scpy2.opencv.watershed_demo

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   `scpy2.opencv.surf_demoSURF`

In [1]: %**exec_python** -m scpy2.opencv.surf_demo

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   `scpy2.opencv.findcontours_demo`

In [2]: %**exec_python** -m scpy2.opencv.findcontours_demo

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   `codes\pyopencv_srccv2`

0.10   Cython-Python

   SOURCE

   `scpy2.cython.fast_curve_drawmatplotlibscpy2.cython.get_peaks()`

In [25]: %**exec_python** -m scpy2.cython.fast_curve_draw

   SOURCE

   `scpy2.cython.multisearch`Cahocorasick

0.11

   SOURCE

   `scpy2.examples.possion`TraitsUI`scpy2.matplotlib.freedraw_widget`ImageMaskDrawer

In [12]: %**exec_python** -m scpy2.examples.possion

   SOURCE

   `scpy2.examples.catenary`TraitsUI

```
In [4]: %exec_python -m scpy2.examples.catenary

    SOURCE

    scpy2.examples.fft_demo

In [1]: %exec_python -m scpy2.examples.fft_demo

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    scpy2.examples.spectrogram_realtimeTraitsUIPyAudio

In [1]: %exec_python -m scpy2.examples.spectrogram_realtime

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    scpy2.examples.sudoku_solvermatplotlib

In [17]: %exec_python -m scpy2.examples.sudoku_solver

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    scpy2.examples.automineWindows 799""""""

In [5]: %exec_python -m scpy2.examples.automine

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    scpy2.examples.fractal.mandelbrot_demoTraitsUImatplotlibMandelbrot

In [2]: %exec_python -m scpy2.examples.fractal.mandelbrot_demo

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    scpy2.examples.fractal.ifs_demo

In [3]: %exec_python -m scpy2.examples.fractal.ifs_demo

In [ ]:
```