
My Configs

Release

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Personal note for keeping track of my computer **configs**, which I sync using symlinks.

Also enjoy being able to version control all of my `rc` files.

For source files, go to <https://github.com/wtak23/configs/tree/master/source>

Note:

- github has an excellent *file finder* system. Just type `t` at a repository to activate it (basically filters by filename you type in)
- type `?` at a github repos page to see all the cool keyboard shortcut it has

HTML last built: September 12, 2016

PYTHON (PYTHON.RST)

Last updated: 08-27-2016 (22:35)

1.1 sbia workstation (py-sbia.rst)

Python setup - sbia-pc125 workstation

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1.1.1 symlink summary

```
1 SOURCE="${HOME}/Dropbox/git/configs/source/python/sbia"
2
3 # === spyder template file ===
4 ln -s "${SOURCE}/template.py" "${HOME}/.spyder2/"
5
6 # === matplotlib rc ===
7 MPL_TARGET=$(ipython -c "import matplotlib as mpl; from os.path import dirname; print dirname(mpl.mat
8 ln -s "${SOURCE}/matplotlibrc" "${MPL_TARGET}"
9
10 # === custom.js ===
11 # (I need to remind myself what exactly this was for...)
12 ln -s "${SOURCE}/custom.js" "${HOME}/.ipython/profile_default/static/custom/"
13
14 #=====#
15 # symlinks for ipython
16 #=====#
17 TARGET="${HOME}/.ipython"
18
```

```
19 # extensions directory
20 ln -s "${SOURCE}/ipython/extensions" "${TARGET}"
21
22 # ipython extension files (entire directory symlink'ed)
23 ln -s "${SOURCE}/ipython/extensions" "${TARGET}"
24
25 # startup files (entire directory symlink'ed)
26 ln -s "${SOURCE}/ipython/profile_default/startup" "${TARGET}/profile_default"
27
28 # global conf
29 ln -s "${SOURCE}/ipython/profile_default/ipython_config.py" "${TARGET}/profile_default"
30
31 # kernel file (gives me handle on default mplrc on jupyter notebook)
32 ln -s "${SOURCE}/ipython/profile_default/ipython_kernel_config.py" "${TARGET}/profile_default"
33
34 # forgot what these are, but hey, why not (can't hurt)
35 ln -s "${SOURCE}/ipython/profile_default/ipython_qtconsole_config.py" "${TARGET}/profile_default"
36 ln -s "${SOURCE}/ipython/profile_default/ipython_notebook_config.py" "${TARGET}/profile_default"
37
38 #####
39 # sitecustomize.py (for spyder and for general python)
40 #####
41 # general python startup (I first needed to use this for building with Sphinx)
42 ln -s "${HOME}/Dropbox/git/configs/source/python/sbia/sitecustomize.py" \
43     "${HOME}/.local/lib/python2.7/site-packages"
44
45 # spyder startup
46 ln -s "${HOME}/Dropbox/git/configs/source/python/sbia/sitecustomize_spyder.py" \
47     "${HOME}/anaconda2/lib/python2.7/site-packages/spyderlib/widgets/externalshell/sitecustomize.py"
```

1.1.2 ipython setup

- <https://ipython.org/ipython-doc/1/config/overview.html>

Locating profile path

```
$ ipython locate
/home/takanori/.ipython

$ ipython locate profile
/home/takanori/.ipython/profile_default

$ ipython locate profile foo
/home/you/.ipython/profile_foo
```

Note: Why I bother with `ipython_kernel_config.py`

- to configure `matplotlibrc` parameters in `ipynb`
 - <http://stackoverflow.com/questions/17230797/how-to-set-the-matplotlib-figure-default-size-in-ipython-notebook>
-

Content of `ipython_kernel_config`

```
.. literalinclude:: sbia/ipython/profile_default/ipython_kernel_config.py
   :language: diff
   :linenos:
   :diff: sbia/ipython/profile_default/ipython_kernel_config_original.py
```

```
1  --- sbia/ipython/profile_default/ipython_kernel_config_original.py
2  +++ sbia/ipython/profile_default/ipython_kernel_config.py
3  @@ -406,3 +406,308 @@
4   # Metadata dictionary, which serves as the default top-level metadata dict for
5   # each message.
6   # c.Session.metadata = {}
7   +
8   +=====#
9   +# This block is my stuff
10  +# http://stackoverflow.com/questions/21176731/automatically-run-matplotlib-inline-in-ipython-notebook
11  +#=====#
12  +c.InlineBackend.rc = {
13  +    'figure.figsize': (6.0,4.0),
14  +    'font.weight': 'bold',
15  +    'axes.labelsize': 15.0,
16  +    'axes.titlesize': 15.0,
17  +    'axes.titleweight': 'bold',
18  +    'legend.fontsize': 10.0,
19  +    'xtick.labelsize': 10.0,
20  +    'ytick.labelsize': 10.0,
21  +    'figure.facecolor': 'white',
22  +    'lines.linewidth': 3.0,
23  +    'image.cmap': 'RdBu_r',
24  +    'image.interpolation' : 'none',
25  +    'axes.color_cycle': ['b', 'g', 'r', 'c', 'm', 'y', 'k', '#00FF00', '#008B8B', '#483D8B', '#F4A460',
26  +    # 'savefig.dpi': 72,
27  +    # 'figure.subplot.bottom': 0.125,
28  +    # 'figure.edgecolor': 'white',
29  +}
30  +
31  +# c.InlineBackend.rc = {
32  +#     'figure.figsize': (10.0,8.0),
33  +#     'font.weight': 'bold',
34  +#     'axes.labelsize': 16.0,
35  +#     'axes.titlesize': 16.0,
36  +#     'axes.titleweight': 'bold',
37  +#     'legend.fontsize': 14.0,
38  +#     'xtick.labelsize': 14.0,
39  +#     'ytick.labelsize': 14.0,
40  +#     'figure.facecolor': 'white',
41  +#     'lines.linewidth': 3.0,
42  +#     # 'savefig.dpi': 72,
43  +#     # 'figure.subplot.bottom': 0.125,
44  +#     # 'figure.edgecolor': 'white',
45  +# }
46  +
47  +#=====#
48  +# here's a full list of options
49  +# mpl.rc_params()
50  +#     RcParams({'agg.path.chunksize': 0,
51  +    #           'animation.avconv_args': [],
```

```

52 + # 'animation.avconv_path': 'avconv',
53 + # 'animation.bitrate': -1,
54 + # 'animation.codec': 'mpeg4',
55 + # 'animation.convert_args': [],
56 + # 'animation.convert_path': 'convert',
57 + # 'animation.ffmpeg_args': [],
58 + # 'animation.ffmpeg_path': 'ffmpeg',
59 + # 'animation.frame_format': 'png',
60 + # 'animation.mencoder_args': [],
61 + # 'animation.mencoder_path': 'mencoder',
62 + # 'animation.writer': 'ffmpeg',
63 + # 'axes.axisbelow': False,
64 + # 'axes.color_cycle': ['b', 'g', 'r', 'c', 'm', 'y', 'k'],
65 + # 'axes.edgecolor': 'k',
66 + # 'axes.facecolor': 'w',
67 + # 'axes.formatter.limits': [-7, 7],
68 + # 'axes.formatter.use_locale': False,
69 + # 'axes.formatter.use_mathtext': False,
70 + # 'axes.formatter.useoffset': True,
71 + # 'axes.grid': False,
72 + # 'axes.grid.which': 'major',
73 + # 'axes.hold': True,
74 + # 'axes.labelcolor': 'k',
75 + # 'axes.labelsize': 'medium',
76 + # 'axes.labelweight': 'normal',
77 + # 'axes.linewidth': 1.0,
78 + # 'axes.titlesize': 'large',
79 + # 'axes.titleweight': 'normal',
80 + # 'axes.unicode_minus': True,
81 + # 'axes.xmargin': 0.0,
82 + # 'axes.ymargin': 0.0,
83 + # 'axes3d.grid': True,
84 + # 'backend': 'agg',
85 + # 'backend.qt4': 'PyQt4',
86 + # 'backend.qt5': 'PyQt5',
87 + # 'backend_fallback': True,
88 + # 'contour.negative_linestyle': 'dashed',
89 + # 'datapath': '/home/takanori/anaconda/lib/python2.7/site-packages/matplotlib/mpl-
90 + # 'docstring.hardcopy': False,
91 + # 'examples.directory': '',
92 + # 'figure.autolayout': False,
93 + # 'figure.dpi': 80.0,
94 + # 'figure.edgecolor': 'w',
95 + # 'figure.facecolor': '0.75',
96 + # 'figure.figsize': [8.0, 6.0],
97 + # 'figure.frameon': True,
98 + # 'figure.max_open_warning': 20,
99 + # 'figure.subplot.bottom': 0.1,
100 + # 'figure.subplot.hspace': 0.2,
101 + # 'figure.subplot.left': 0.125,
102 + # 'figure.subplot.right': 0.9,
103 + # 'figure.subplot.top': 0.9,
104 + # 'figure.subplot.wspace': 0.2,
105 + # 'font.cursive': ['Apple Chancery',
106 + #                  'Textile',
107 + #                  'Zapf Chancery',
108 + #                  'Sand',
109 + #                  'cursive'],

```

```

110 + # 'font.family': ['sans-serif'],
111 + # 'font.fantasy': ['Comic Sans MS',
112 + # 'Chicago',
113 + # 'Charcoal',
114 + # 'ImpactWestern',
115 + # 'fantasy'],
116 + # 'font.monospace': ['Bitstream Vera Sans Mono',
117 + # 'DejaVu Sans Mono',
118 + # 'Andale Mono',
119 + # 'Nimbus Mono L',
120 + # 'Courier New',
121 + # 'Courier',
122 + # 'Fixed',
123 + # 'Terminal',
124 + # 'monospace'],
125 + # 'font.sans-serif': ['Bitstream Vera Sans',
126 + # 'DejaVu Sans',
127 + # 'Lucida Grande',
128 + # 'Verdana',
129 + # 'Geneva',
130 + # 'Lucid',
131 + # 'Arial',
132 + # 'Helvetica',
133 + # 'Avant Garde',
134 + # 'sans-serif'],
135 + # 'font.serif': ['Bitstream Vera Serif',
136 + # 'DejaVu Serif',
137 + # 'New Century Schoolbook',
138 + # 'Century Schoolbook L',
139 + # 'Utopia',
140 + # 'ITC Bookman',
141 + # 'Bookman',
142 + # 'Nimbus Roman No9 L',
143 + # 'Times New Roman',
144 + # 'Times',
145 + # 'Palatino',
146 + # 'Charter',
147 + # 'serif'],
148 + # 'font.size': 12.0,
149 + # 'font.stretch': 'normal',
150 + # 'font.style': 'normal',
151 + # 'font.variant': 'normal',
152 + # 'font.weight': 'normal',
153 + # 'grid.alpha': 1.0,
154 + # 'grid.color': 'k',
155 + # 'grid.linestyle': ':',
156 + # 'grid.linewidth': 0.5,
157 + # 'image.aspect': 'equal',
158 + # 'image.cmap': 'jet',
159 + # 'image.interpolation': 'bilinear',
160 + # 'image.lut': 256,
161 + # 'image.origin': 'upper',
162 + # 'image.resample': False,
163 + # 'interactive': False,
164 + # 'keymap.all_axes': ['a'],
165 + # 'keymap.back': ['left', 'c', 'backspace'],
166 + # 'keymap.forward': ['right', 'v'],
167 + # 'keymap.fullscreen': ['f', 'ctrl+f'],

```

```

168 + # 'keymap.grid': ['g'],
169 + # 'keymap.home': ['h', 'r', 'home'],
170 + # 'keymap.pan': ['p'],
171 + # 'keymap.quit': ['ctrl+w', 'cmd+w'],
172 + # 'keymap.save': ['s', 'ctrl+s'],
173 + # 'keymap.xscale': ['k', 'L'],
174 + # 'keymap.yscale': ['l'],
175 + # 'keymap.zoom': ['o'],
176 + # 'legend.borderaxespad': 0.5,
177 + # 'legend.borderpad': 0.4,
178 + # 'legend.columnspacing': 2.0,
179 + # 'legend.fancybox': False,
180 + # 'legend.fontsize': 'large',
181 + # 'legend.framealpha': None,
182 + # 'legend.frameon': True,
183 + # 'legend.handleheight': 0.7,
184 + # 'legend.handlelength': 2.0,
185 + # 'legend.handletextpad': 0.8,
186 + # 'legend.isaxes': True,
187 + # 'legend.labelspacing': 0.5,
188 + # 'legend.loc': 'upper right',
189 + # 'legend.markerscale': 1.0,
190 + # 'legend.numpoints': 2,
191 + # 'legend.scatterpoints': 3,
192 + # 'legend.shadow': False,
193 + # 'lines.antialiased': True,
194 + # 'lines.color': 'b',
195 + # 'lines.dash_capstyle': 'butt',
196 + # 'lines.dash_joinstyle': 'round',
197 + # 'lines.linestyle': '-',
198 + # 'lines.linewidth': 1.0,
199 + # 'lines.marker': 'None',
200 + # 'lines.markeredgewidth': 0.5,
201 + # 'lines.markersize': 6.0,
202 + # 'lines.solid_capstyle': 'projecting',
203 + # 'lines.solid_joinstyle': 'round',
204 + # 'mathtext.bf': 'serif:bold',
205 + # 'mathtext.cal': 'cursive',
206 + # 'mathtext.default': 'it',
207 + # 'mathtext.fallback_to_cm': True,
208 + # 'mathtext.fontset': 'cm',
209 + # 'mathtext.it': 'serif:italic',
210 + # 'mathtext.rm': 'serif',
211 + # 'mathtext.sf': 'sans\\-serif',
212 + # 'mathtext.tt': 'monospace',
213 + # 'nbgg.transparent': True,
214 + # 'patch.antialiased': True,
215 + # 'patch.edgecolor': 'k',
216 + # 'patch.facecolor': 'b',
217 + # 'patch.linewidth': 1.0,
218 + # 'path.effects': [],
219 + # 'path.simplify': True,
220 + # 'path.simplify_threshold': 0.1111111111111111,
221 + # 'path.sketch': None,
222 + # 'path.snap': True,
223 + # 'pdf.compression': 6,
224 + # 'pdf.fonttype': 3,
225 + # 'pdf.inheritcolor': False,

```

```

226 + # 'pdf.use14corefonts': False,
227 + # 'pgf.debug': False,
228 + # 'pgf.preamble': [],
229 + # 'pgf.rcfonts': True,
230 + # 'pgf.texsystem': 'xelatex',
231 + # 'plugins.directory': '.matplotlib_plugins',
232 + # 'polaraxes.grid': True,
233 + # 'ps.distiller.res': 6000,
234 + # 'ps.fonttype': 3,
235 + # 'ps.papersize': 'letter',
236 + # 'ps.useafm': False,
237 + # 'ps.usedistiller': False,
238 + # 'savefig.bbox': None,
239 + # 'savefig.directory': '~',
240 + # 'savefig.dpi': 100.0,
241 + # 'savefig.edgecolor': 'w',
242 + # 'savefig.facecolor': 'w',
243 + # 'savefig.format': 'png',
244 + # 'savefig.frameon': True,
245 + # 'savefig.jpeg_quality': 95,
246 + # 'savefig.orientation': 'portrait',
247 + # 'savefig.pad_inches': 0.1,
248 + # 'savefig.transparent': False,
249 + # 'svg.fonttype': 'path',
250 + # 'svg.image_inline': True,
251 + # 'svg.image_noscale': False,
252 + # 'text.antialiased': True,
253 + # 'text.color': 'k',
254 + # 'text.dvipnghack': None,
255 + # 'text.hinting': True,
256 + # 'text.hinting_factor': 8,
257 + # 'text.latex.preamble': [],
258 + # 'text.latex.preview': False,
259 + # 'text.latex.unicode': False,
260 + # 'text.usetex': False,
261 + # 'timezone': 'UTC',
262 + # 'tk.window_focus': False,
263 + # 'toolbar': 'toolbar2',
264 + # 'verbose.fileo': 'sys.stdout',
265 + # 'verbose.level': 'silent',
266 + # 'webagg.open_in_browser': True,
267 + # 'webagg.port': 8988,
268 + # 'webagg.port_retries': 50,
269 + # 'xtick.color': 'k',
270 + # 'xtick.direction': 'in',
271 + # 'xtick.labelsize': 'medium',
272 + # 'xtick.major.pad': 4.0,
273 + # 'xtick.major.size': 4.0,
274 + # 'xtick.major.width': 0.5,
275 + # 'xtick.minor.pad': 4.0,
276 + # 'xtick.minor.size': 2.0,
277 + # 'xtick.minor.width': 0.5,
278 + # 'ytick.color': 'k',
279 + # 'ytick.direction': 'in',
280 + # 'ytick.labelsize': 'medium',
281 + # 'ytick.major.pad': 4.0,
282 + # 'ytick.major.size': 4.0,
283 + # 'ytick.major.width': 0.5,

```

```
284 + # 'ytick.minor.pad': 4.0,
285 + # 'ytick.minor.size': 2.0,
286 + # 'ytick.minor.width': 0.5}
287 + #=====#
288 +
289 + # ... Any other configurables you want to set
290 + c.InteractiveShellApp.matplotlib = "inline"
291 + # c.InteractiveShellApp.matplotlib = "qt4"
292 +
293 + #=====#
294 + # change default browser
295 + # https://ipython.org/ipython-doc/2/config/options/notebook.html
296 + #-----#
297 + # http://stackoverflow.com/questions/15632663/launch-ipython-notebook-with-selected-browser
298 + # http://stackoverflow.com/questions/16704588/changing-browser-for-ipython-notebook-from-system-defa
299 + # http://stackoverflow.com/questions/6042335/calling-chrome-web-browser-from-the-webbrowser-get-in-p
300 + #=====#
301 + # # import webbrowser
302 + # # webbrowser.register('firefox', None, webbrowser.GenericBrowser(u'/usr/bin/firefox %s'))
303 + # # c.NotebookApp.browser = u'/usr/bin/firefox %s'
304 + # c.NotebookApp.browser = u'firefox'
305 + # # NotebookApp.browser : Unicode
306 +
307 +
308 + import pandas as pd
309 + # pd.set_option('display.max_rows', 3)
310 + # pd.set_option('precision', 4)
311 + pd.set_option('display.max_columns', 500)
```

1.1.3 matplotlibrc

```
# get path to rc file
$ ipython -c "import matplotlib as mpl; from os.path import dirname; print dirname(mpl.matplotlib_fname())"
/home/takanori/anaconda2/lib/python2.7/site-packages/matplotlib/mpl-data

#=====#
# create symlink
#=====#
SOURCE="${HOME}/Dropbox/git/configs/source/python/sbia"
MPL_TARGET=$(ipython -c "import matplotlib as mpl; from os.path import dirname; print dirname(mpl.matplotlib_fname())")

# matplotlibrc
ln -s "${SOURCE}/matplotlibrc" "${MPL_TARGET}"
```

Content of matplotlibrc

```
.. literalinclude:: sbia/matplotlibrc
   :language: diff
   :diff: sbia/matplotlibrc_original
   :linenos:
```

```
1 --- sbia/matplotlibrc_original
2 +++ sbia/matplotlibrc
3 @@ -66,7 +66,7 @@
4  # you if backend_fallback is True
```

```

5  #backend_fallback: True
6
7  -#interactive : False
8  +interactive : True
9  #toolbar      : toolbar2    # None | toolbar2 ("classic" is deprecated)
10 #timezone     : UTC         # a pytz timezone string, e.g., US/Central or Europe/Paris
11
12 @@ -78,7 +78,7 @@
13 ### LINES
14 # See http://matplotlib.org/api/artist\_api.html#module-matplotlib.lines for more
15 # information on line properties.
16 -#lines.linewidth : 1.0      # line width in points
17 +lines.linewidth : 2.5 #1.0    # line width in points
18 #lines.linestyle  : -        # solid line
19 #lines.color      : blue     # has no affect on plot(); see axes.color_cycle
20 #lines.marker     : None     # the default marker
21 @@ -139,14 +139,14 @@
22 #font.family      : sans-serif
23 #font.style       : normal
24 #font.variant     : normal
25 -#font.weight      : medium
26 +font.weight      : bold #medium
27 #font.stretch     : normal
28 # note that font.size controls default text sizes. To configure
29 # special text sizes tick labels, axes, labels, title, etc, see the rc
30 # settings for axes and ticks. Special text sizes can be defined
31 # relative to font.size, using the following values: xx-small, x-small,
32 # small, medium, large, x-large, xx-large, larger, or smaller
33 -#font.size        : 12.0
34 +font.size        : 20.0 #12.0 #<- controls the "displaytip size"
35 #font.serif       : Bitstream Vera Serif, New Century Schoolbook, Century Schoolbook L, Utopia, L
36 #font.sans-serif  : Bitstream Vera Sans, Lucida Grande, Verdana, Geneva, Lucid, Arial, Helvetica,
37 #font.cursive     : Apple Chancery, Textile, Zapf Chancery, Sand, cursive
38 @@ -235,14 +235,14 @@
39 # default font sizes for tick labels, and so on. See
40 # http://matplotlib.org/api/axes\_api.html#module-matplotlib.axes
41 #axes.hold        : True     # whether to clear the axes by default on
42 -#axes.facecolor   : white    # axes background color
43 +axes.facecolor   : white    # axes background color
44 #axes.edgecolor   : black    # axes edge color
45 -#axes.linewidth   : 1.0      # edge linewidth
46 -#axes.grid        : False    # display grid or not
47 -#axes.titlesize   : large    # fontsize of the axes title
48 -#axes.labelsize   : medium   # fontsize of the x any y labels
49 -#axes.labelweight : normal   # weight of the x and y labels
50 -#axes.labelcolor  : black
51 +axes.linewidth   : 1.5 #1.0    # edge linewidth
52 +axes.grid        : False    # display grid or not
53 +axes.titlesize   : 18.0 #large  # fontsize of the axes title
54 +axes.labelsize   : 10.0 #medium # fontsize of the x any y labels
55 +axes.labelweight : bold #normal # weight of the x and y labels
56 +axes.labelcolor  : black #black # <- controls xlabel and ylabel font color
57 #axes.axisbelow   : False    # whether axis gridlines and ticks are below
58 # the axes elements (lines, text, etc)
59
60 @@ -264,7 +264,8 @@
61 #axes.unicode_minus : True    # use unicode for the minus symbol
62 # rather than hyphen. See

```

```

63                                     # http://en.wikipedia.org/wiki/Plus_and_minus_signs#Character_codes
64 -#axes.color_cycle      : b, g, r, c, m, y, k # color cycle for plot lines
65 +#| this gives warning that color cyle is deprecated...
66 +# axes.color_cycle     : b, r, g, m, c, y, k # color cycle for plot lines
67                                     # as list of string colorspecs:
68                                     # single letter, long name, or
69                                     # web-style hex
70 @@ -283,7 +284,7 @@
71 #xtick.major.pad        : 4          # distance to major tick label in points
72 #xtick.minor.pad        : 4          # distance to the minor tick label in points
73 #xtick.color            : k          # color of the tick labels
74 -#xtick.labelsize       : medium # fontsize of the tick labels
75 +xtick.labelsize        : 10.0 #medium # fontsize of the tick labels
76 #xtick.direction        : in        # direction: in, out, or inout
77
78 #ytick.major.size       : 4          # major tick size in points
79 @@ -293,7 +294,7 @@
80 #ytick.major.pad        : 4          # distance to major tick label in points
81 #ytick.minor.pad        : 4          # distance to the minor tick label in points
82 #ytick.color            : k          # color of the tick labels
83 -#ytick.labelsize       : medium # fontsize of the tick labels
84 +ytick.labelsize        : 10.0 #medium # fontsize of the tick labels
85 #ytick.direction        : in        # direction: in, out, or inout
86
87
88 @@ -308,7 +309,7 @@
89                                     # legend, else a rectangle
90 #legend.isaxes          : True
91 #legend.numpoints       : 2          # the number of points in the legend line
92 -#legend.fontsize        : large
93 +legend.fontsize         : 16.0 #large
94 #legend.borderpad       : 0.5        # border whitespace in fontsize units
95 #legend.markerscale     : 1.0        # the relative size of legend markers vs. original
96 # the following dimensions are in axes coords
97 @@ -325,13 +326,13 @@
98
99 ### FIGURE
100 # See http://matplotlib.org/api/figure_api.html#matplotlib.figure.Figure
101 -#figure.figsize         : 8, 6      # figure size in inches
102 +figure.figsize          : 10, 8 #8, 6 # figure size in inches
103 #figure.dpi              : 80        # figure dots per inch
104 -#figure.facecolor       : 0.75      # figure facecolor; 0.75 is scalar gray
105 +figure.facecolor        : white #0.75 # figure facecolor; 0.75 is scalar gray
106 #figure.edgecolor        : white     # figure edgecolor
107 #figure.autolayout       : False     # When True, automatically adjust subplot
108                                     # parameters to make the plot fit the figure
109 -#figure.max_open_warning : 20       # The maximum number of figures to open through
110 +#figure.max_open_warning : 12       # The maximum number of figures to open through
111                                     # the pyplot interface before emitting a warning.
112                                     # If less than one this feature is disabled.
113
114 @@ -346,8 +347,8 @@
115
116 ### IMAGES
117 #image.aspect            : equal      # equal | auto | a number
118 -#image.interpolation     : bilinear   # see help(imshow) for options
119 -#image.cmap              : jet        # gray | jet etc...
120 +image.interpolation      : none      # see help(imshow) for options

```



```

121 +image.cmap      : RdBu_r #jet                # gray | jet etc...
122 #image.lut       : 256                # the size of the colormap lookup table
123 #image.origin    : upper                # lower | upper
124 #image.resample  : False
125 @@ -456,17 +457,17 @@
126 # Customize these settings according to your needs.
127 # Leave the field(s) empty if you don't need a key-map. (i.e., fullscreen : '')
128
129 -#keymap.fullscreen : f                # toggling
130 -#keymap.home       : h, r, home       # home or reset mnemonic
131 +keymap.fullscreen : f                # toggling
132 +keymap.home       : h, r, home       # home or reset mnemonic
133 #keymap.back       : left, c, backspace # forward / backward keys to enable
134 #keymap.forward    : right, v         # left handed quick navigation
135 -#keymap.pan        : p                # pan mnemonic
136 +keymap.pan        : p                # pan mnemonic
137 #keymap.zoom        : o                # zoom mnemonic
138 #keymap.save        : s                # saving current figure
139 #keymap.quit        : ctrl+w, cmd+w    # close the current figure
140 -#keymap.grid       : g                # switching on/off a grid in current axes
141 -#keymap.yscale     : l                # toggle scaling of y-axes ('log'/'linear')
142 -#keymap.xscale     : L, k             # toggle scaling of x-axes ('log'/'linear')
143 +keymap.grid       : g                # switching on/off a grid in current axes
144 +keymap.yscale     : l                # toggle scaling of y-axes ('log'/'linear')
145 +keymap.xscale     : L, k             # toggle scaling of x-axes ('log'/'linear')
146 #keymap.all_axes   : a                # enable all axes
147
148 # Control location of examples data files
149 @@ -491,3 +492,7 @@
150 #animation.convert_path: 'convert' # Path to ImageMagick's convert binary.
151                                     # On Windows use the full path since convert
152                                     # is also the name of a system tool.
153 +#=====
154 +# my stuffs below
155 +#=====
156 +#axes.titleweight=bold

```

1.1.4 New - symlink to sitecustomize.py

Basically stuffs I want python to run at program startup (in case I am not using ipython)

```

# general python startup (I first needed to use this for building with Sphinx)
ln -s "${HOME}/Dropbox/git/configs/source/python/sbia/sitecustomize.py" \
    "${HOME}/.local/lib/python2.7/site-packages"

# spyder startup
ln -s "${HOME}/Dropbox/git/configs/source/python/sbia/sitecustomize_spyder.py" \
    "${HOME}/anaconda2/lib/python2.7/site-packages/spyderlib/widgets/externalshell/sitecustomize.py"

```

Current content of sitecustomize.py

```

.. literalinclude:: sbia/sitecustomize.py
   :language: python

```

```
# # http://stackoverflow.com/questions/9942594/unicodeencodeerror-ascii-codec-cant-encode-character-
# # http://masasuzu.hatenablog.jp/entry/20110313/1299997912
# import sys

# #| reload is somehow needed to get ``setdefaultencoding`` method
# #| http://stackoverflow.com/questions/2276200/changing-default-encoding-of-python
# reload(sys)

# # default is 'ascii', which raises EncodingError with some programs that uses UTF-8.
# sys.setdefaultencoding('UTF8')
```

what does sitecustomize.py do?

- <http://stackoverflow.com/questions/10693706/creating-a-secondary-site-packages-directory-and-loading-packages-from-pth-fil>
- <http://masasuzu.hatenablog.jp/entry/20110313/1299997912>
- http://nedbatchelder.com/blog/201001/running_code_at_python_startup.html
 - this one was the most informative

Current content of sitecustomize_spyder.py

```
.. literalinclude:: sbia/sitecustomize_spyder.py
   :language: diff
   :linenos:
   :diff: sbia/sitecustomize_spyder_original.py
```

```
1  --- sbia/sitecustomize_spyder_original.py
2  +++ sbia/sitecustomize_spyder.py
3  @@ -11,6 +11,14 @@
4      import pdb
5      import bdb
6
7  +#=====#
8  +# MY SNIPPETS (TAK)
9  +#=====#
10 +# empty for now.
11 +
12 +#-----#
13 +# \end tak snippets
14 +#-----#
15
16 PY2 = sys.version[0] == '2'
17
```

1.1.5 Changes with _original

Use diff or better yet, colordiff to see the changes I made

```
$ colordiff sitecustomize_spyder.py sitecustomize_original.py
14,23d13
< #=====#
< # MY SNIPPETS (TAK)
```

```
< #=====#  
< import sys  
< reload(sys)  
< sys.setdefaultencoding('UTF8')  
<  
< #-----#  
< # \end tak snippets  
< #-----#
```

1.2 Windows machine (py-win.rst)

Note: (from old notes)

```
# mklink syntax is reverse of ln -s  
mklink "C:\Users\takanori\.spyder2\template.py" "C:\Users\takanori\Dropbox\git\configs_master\sbia-p  
mklink "C:\Users\takanori\Anaconda2\lib\site-packages\matplotlib\mpl-data\matplotlibrc" "C:\Users\tak
```

1.2.1 pip installs

Below may be incomplete...

```
pip install bctpy --user  
pip install nimfa --user  
pip install nilearn --user  
pip install seaborn --user  
pip install numpydoc --user  
pip install sphinx_rtd_theme --user
```

1.2.2 Rollback Sphinx to Version 1.3.5

To get copybutton.js working, among bunch of other things.

Below ran in cygwin

```
git clone https://github.com/sphinx-doc/sphinx  
cd sphinx  
git checkout tags/1.3.5  
python setup.py install --user
```

1.3 old-notes (py-old.rst)

Important: Below are my some setups I ran a while ago...not sure I'll use them in the future but kept as referece.

Contents

- Feb 24, 2016
- *Stuffs installed after 03-30-2016*
 - Bleeding edge version of lasagne (04/11/2016)
 - Reupdate theano to 0.8 (04/1/2016)
- *Stuffs installed (11/30/2015)*
- *module-install: VERY old modules install*
 - `./module-installs/install_modules.sh`
 - `./module-installs/pyinstall.sh`
 - `./module-installs/spams_install.sh`
 - `./module-installs/tak_install.sh`

1.3.1 Feb 24, 2016

Updating keras via pip messed up my spyder config (gets the “kernel died unexpectedly”)...so did a reinstall of spyder as follows:

```
1 cd ~/Downloads
2 bash Anaconda-2.3.0-Linux-x86_64.sh
3
4 cd ~/Dropbox/git/configs_master/sbia-pc125-cinn/python/module-installs
5 ./install_modules.sh
6 ./spams_install.sh
7
8 pip install bctpy --user
9 yes | pip install theano --user
10 yes | pip install nimfa --user
11
12 # install keras
13 cd ~/work-local/external-python-modules/keras
14 python setup.py install #--user
15
16 # mpl setup
17 cp ~/Dropbox/git/configs_master/sbia-pc125-cinn/python/matplotlibrc ~/anaconda/lib/python2.7/site-pa
```

Also had to turn off `memory_profiler` in

Note: `cuda-mat` install procedure skipped...if needed, see my evernote comments on how to do this.

1.3.2 Stuffs installed after 03-30-2016

On local machine

```
1 # http://lasagne.readthedocs.org/en/latest/user/installation.html
2 #pip install Lasagne==0.1
3 #^^^appears not to contain Lasagne/dnn.py...installed bleeding edge via github repos
4 # 04-03-2016 (01:22)
5 cd /home/takanori/work-local/external-python-modules/
6 git clone https://github.com/Lasagne/Lasagne
7 cd Lasagne
8 python setup.py install
9
10 #derp another issue...above requires cuDNN
```

```

11 #^ solved foloowing instructions in http://deeplearning.net/software/theano/library/sandbox/cuda/dnn
12 # added these to my .bashrc file
13 export LD_LIBRARY_PATH=$LD_LIBRARY_PATH:/home/takanori/data/cuda/lib64
14 export CPATH=$CPATH:/home/takanori/data/cuda/include
15 export LIBRARY_PATH=$LD_LIBRARY_PATH:/home/takanori/data/cuda/lib64
16
17 pip install git+https://github.com/dnouri/nolearn.git@master#egg=nolearn==0.7.git

```

On the server end

```

1 pip install --user Lasagne==0.1
2 pip install --user git+https://github.com/dnouri/nolearn.git@master#egg=nolearn==0.7.git
3
4 #| theano udpate (needed to install from repos...below didn't do it)
5 #pip install --user --upgrade --no-deps theano
6
7 #| i did below on 04-03-2016 (21:32)
8 cd ~/tmp
9 git clone https://github.com/Theano/Theano
10 cd Theano
11 python setup.py install --user

```

Getting junk to work on the server 04-03-2016 (22:48)

tabulate package kept complaining, so did this:

```

pip install --upgrade tabulate --user

# then copy and paste these from sftp://watanabt@cbica-cluster.uphs.upenn.edu/cbica/home/watanabt/.1
sftp://watanabt@cbica-cluster.uphs.upenn.edu/cbica/home/watanabt/python_modules/tabulate-0.7.5.dist-
sftp://watanabt@cbica-cluster.uphs.upenn.edu/cbica/home/watanabt/python_modules/tabulate.py
sftp://watanabt@cbica-cluster.uphs.upenn.edu/cbica/home/watanabt/python_modules/tabulate.pyc

```

Bleeding edge version of lasagne (04/11/2016)

```

pip install --upgrade https://github.com/Theano/Theano/archive/master.zip --user
pip install --upgrade https://github.com/Lasagne/Lasagne/archive/master.zip --user

```

Reupdate theano to 0.8 (04/1/2016)

When working on nolearn, i got the error

```

runfile('/home/takanori/Dropbox/work/sbia_work/python/analysis/gen/rev_nolearn_dnouri_0401_demo1.py',
Reloaded modules: tmp0pJ_Wq.5d8bc519f141ed95f4115e5e8c5d9ef9, tmp0pJ_Wq
Traceback (most recent call last):

  File "<ipython-input-145-fa2aa542ecbe>", line 1, in <module>
    runfile('/home/takanori/Dropbox/work/sbia_work/python/analysis/gen/rev_nolearn_dnouri_0401_demo1

  File "/home/takanori/anaconda/lib/python2.7/site-packages/spyderlib/widgets/externalshell/sitecusto
    execfile(filename, namespace)

  File "/home/takanori/anaconda/lib/python2.7/site-packages/spyderlib/widgets/externalshell/sitecusto
    builtins.execfile(filename, *where)

```

```
File "/home/takanori/Dropbox/work/sbia_work/python/analysis/gen/rev_nolearn_dnouri_0401_demo1.py",
    net0.fit(X,y)

File "/home/takanori/anaconda/lib/python2.7/site-packages/nolearn/lasagne/base.py", line 527, in f
    self.initialize()

File "/home/takanori/anaconda/lib/python2.7/site-packages/nolearn/lasagne/base.py", line 367, in i
    self.y_tensor_type,

File "/home/takanori/anaconda/lib/python2.7/site-packages/nolearn/lasagne/base.py", line 504, in _
    allow_input_downcast=True,

File "/home/takanori/anaconda/lib/python2.7/site-packages/theano/compile/function.py", line 290, in
    "In() instances and tuple inputs trigger the old "

NotImplementedError: In() instances and tuple inputs trigger the old semantics, which disallow using
```

According to this [link](#), I need to update Theano.

So on my local machine, did

```
pip install --upgrade --no-deps theano
```

1.3.3 Stuffs installed (11/30/2015)

```
# these were installed to get graph printouts in theano to work
conda install pydot
conda install graphviz
```

1.3.4 moduel-install: VERY old modules install

Note: moduel-install — contains my own module installer scripts when I first started using Python.

So yeah, I was a rookie then, so take whatever I did with a huge grain of salt.

./module-installs/install_modules.sh

```
1  #!/usr/bin/env bash
2  yes | conda install mayavi
3  yes | pip install seaborn
4  yes | conda install wxpython
5  yes | pip install pydicom
6  yes | pip install visvis
7  # yes | pip install ipywidgets # <- seems to screw up things
8  yes | pip install mpldatacursor
9  yes | pip install units # for basic_units module
10
11  #==== Continuum conda acceleraator ====#
12  yes | conda update conda
13  yes | conda install accelerate
14  yes | conda install iopro
15
```

```

16 yes | pip install line-profiler
17 yes | pip install -U memory_profiler
18
19 # 10/01/2015
20 yes | pip install ipdb
21
22 yes | pip install skdata
23
24
25 #===== INSTALL SHITS ON =====#
26 dirpath=/home/takanori/work-local/external-python-modules
27
28 # http://www.cyberciti.biz/faq/bash-for-loop-array/
29 dirList=('cvxopt'
30         'cvxpy'
31         'dipy'
32         'hyperopt'
33         'hyperopt-sklearn'
34         'nibabel'
35         'nilearn'
36         'nipy'
37         'proxTV'
38         'pyqtgraph'
39         'vispy'
40         'xy_python_utils')
41 for i in "${dirList[@]}; do
42     # echo $i
43     # echo "cd ${dirpath}/${i}"
44     cd ${dirpath}/${i}
45     # echo "Now dir: " $(pwd)
46     python setup.py build
47     python setup.py install
48 done

```

./module-installs/pyinstall.sh

```

1  #!/usr/bin/env bash
2  dirpath=/home/takanori/work-local/external-python-modules
3
4  # http://www.cyberciti.biz/faq/bash-for-loop-array/
5  dirList=('cvxopt'
6          'cvxpy'
7          'dipy'
8          'nibabel'
9          'nilearn'
10         'nipy'
11         'proxTV'
12         'pyqtgraph'
13         'vispy'
14         'xy_python_utils')
15 for i in "${dirList[@]}; do
16     # echo $i
17     # echo "cd ${dirpath}/${i}"
18     cd ${dirpath}/${i}
19     # echo "Now dir: " $(pwd)
20     python setup.py build
21     python setup.py install

```

22 **done**

`./module-installs/spams_install.sh`

```
1 cd /home/takanori/work-local/external-python-modules/spams-python
2 python setup.py install --prefix=/home/takanori/anaconda/lib/python2.7/site-packages
```

`./module-installs/tak_install.sh`

```
1 #!/usr/bin/env bash
2 yes | conda install mayavi
3 yes | pip install seaborn
4
5 yes | pip install units # for basic_units module
6 yes | pip install mpldatacursor
7 yes | conda install wxpython
8 yes | pip install pydicom
9 yes | pip install visvis
10
11
12 # yes | pip install ipywidgets # <- seems to screw up things
13
14 #==== Continuum conda acceleraator ====#
15 yes | conda update conda
16 yes | conda install accelerate
17 yes | conda install iopro
18
19 yes | pip install line-profiler
20 yes | pip install -U memory_profiler
21
22 # 10/01/2015
23 yes | pip install ipdb
24
25 #=====#
26 # notebook extensions (this also seem to screw things up....)
27 # yes | pip install jupyter_core
28 # yes | pip install notebook
29 # yes | conda install jupyter
30 # yes | pip install feedparser
31 # yes | pip install boilerpipe
32 #-----#
33 # trying to build from https://github.com/ipython-contrib/IPython-notebook-extensions
34 # prerequiresites
35 # **** Tak: NOPE, THIS DIDNT WORK EITHER....GIVE UP ON NBEXTENSIONS...
36 # yes | pip install jupyter_core
37 # yes | conda install jupyter
38 # yes | conda install patchelf
39 # yes | conda install psutil
40
41 #| then do this
42 # takanori@sbia-pc125 ~/work-local/external-python-modules $ conda build IPython-notebook-extensions
43 #-----#
44 # for now, following these two steps allows me to use
45 # https://github.com/spyder-ide/spyder/issues/2626
46 # https://github.com/spyder-ide/spyder/issues/2626
```



```
47 # yes | conda install jupyter
48 # yes | pip install --upgrade spyder
49 #=====#
50
51
52 # to unscrew things https://github.com/spyder-ide/spyder/issues/2608
53 # yes| conda update spyder
```


BASH CONFIG FILES (BASH_CONFIG.RST)

Github

2.1 SBIA Workstation (bash-sbia.rst)

Contents

- *Symlinks*
- *bashrc contents*
- *gitconfig content*

2.1.1 Symlinks

Last updated: 08-28-2016 (00:36)

```
SOURCE="${HOME}/Dropbox/git/configs/source/bash_config/sbia-pc-125"

ln -s "${SOURCE}/.bashrc" ~/.bashrc
ln -s "${SOURCE}/.bash_aliases" ~/.bash_aliases

# git configs
ln -s "${SOURCE}/.gitconfig" ~/.gitconfig
ln -s "${SOURCE}/.gitignore" ~/.gitignore

# to colorize my $less command
ln -s "${SOURCE}/.lessfilter" ~/.lessfilter
```

2.1.2 bashrc contents

Github

```
.. literalinclude:: ./sbia-pc-125/.bashrc
   :language: bash
   :linenos:
```

```
1 #*****#
2 # Did a cleanup on 09-02-2016
3 # (the indentation is to allow code-folding in sublime-text)
4 #*****#
```

```

5 alias bsource="source ${HOME}/.bashrc" # bash-source
6
7 #=====#
8 # Set env-vars
9 #-----#
10 # http://serverfault.com/questions/606/what-is-the-best-way-to-set-an-environment-variable-in-bashrc
11 #=====#
12 ____bookmark_ENVVARS____(){ echo "I'm just a bookmark"; }
13 # added by Anaconda2 4.0.0 installer
14 export PATH="/home/takanori/anaconda2/bin:$PATH"
15
16 export CUDA_ROOT=/usr/local/cuda-6.5
17
18 export PATH=$PATH:/home/takanori/mybin/Slicer-4.4.0-linux-amd64
19 export PATH=$PATH:/home/takanori/mybin/ImageJ
20
21 export PATH=$PATH:~/mybin/itksnap-3.2.0-20141023-Linux-x86_64/bin/
22 export PATH=$PATH:/usr/local/cuda-6.5/bin
23 export LD_LIBRARY_PATH=$LD_LIBRARY_PATH:/usr/local/cuda-6.5/lib64
24
25 # BLAS/LAPACK Setups
26 export BLAS=/usr/local/lib/libopenblas.a
27 export LAPACK=/usr/local/lib/libopenblas.a
28 export LD_LIBRARY_PATH=$LD_LIBRARY_PATH:/usr/local/lib/
29
30 # https://bbs.archlinux.org/viewtopic.php?id=180833
31 export GLPATH=/usr/lib make
32
33 # python imports
34 export PYTHONPATH=/home/takanori/Dropbox/work/external-pymodules
35 export PYTHONPATH=$PYTHONPATH:/home/takanori/Dropbox/work/sbia_work/python/modules
36
37 # LD_LIBRARY_PATH=/usr/local/MATLAB/R2013a/sys/os/glnxa64:/usr/local/MATLAB/R2013a/bin/glnxa64
38
39 #-----#
40 # matlab
41 #-----#
42 MLM_LICENSE_FILE=27000@olympus.uphs.upenn.edu
43 # export PATH=$PATH:/usr/local/MATLAB/R2014b/bin
44 export PATH=$PATH:/usr/local/MATLAB/R2013a/bin
45 export PATH=$PATH:~/abin
46 alias m2014='/usr/local/MATLAB/R2014b/bin/matlab &'
47
48 #=====#
49 # Pyspark
50 #=====#
51 export PATH=$PATH:/home/takanori/mybin/spark-2.0.0-bin-hadoop2.7/bin
52
53 # include pyspark to my python module 07-31-2016 (16:17)
54 export PYTHONPATH=$PYTHONPATH:/home/takanori/mybin/spark-2.0.0-bin-hadoop2.7/python/
55 export PYTHONPATH=$PYTHONPATH:/home/takanori/mybin/spark-2.0.0-bin-hadoop2.7/python/pyspark
56
57 #=====#
58 # to get deepnet working
59 # https://github.com/nitishsrivastava/deepnet/blob/master/INSTALL.txt
60 #=====#
61 export CUDA_ROOT=/usr/local/cuda-6.5
62 export CUDA_BIN=/usr/local/cuda-6.5/bin

```

```

63 export CUDA_LIB=/usr/local/cuda-6.5/lib64
64 export PATH=${CUDA_BIN}:${PATH}
65 export LD_LIBRARY_PATH=${CUDA_LIB}:${LD_LIBRARY_PATH}
66
67 # protocole buffer (type $ which protoc)
68 export PATH=/usr/local/bin/protoc:${PATH}
69
70 # (3) SET ENVIRONMENT VARIABLES
71 export LD_LIBRARY_PATH=$LD_LIBRARY_PATH:/home/takanori/work-local/external-python-modules/deepnet
72 export PYTHONPATH=$PYTHONPATH:/home/takanori/work-local/external-python-modules/deepnet
73
74 #=====
75 # mozi stuff
76 # https://github.com/hycis/Mozi
77 #=====
78 # export PYTHONPATH=~/.work-local/external-python-modules/Mozi:$PYTHONPATH
79 # export MOZI_DATA_PATH=~/.data/mozi/data
80 # export MOZI_SAVE_PATH=~/.data/mozi/database
81 # export MOZI_DATABASE_PATH=~/.data/mozi/save
82 # export PYLEARN2_DATA_PATH=/home/takanori/data/deep_learning/pylearn2
83
84 #=====
85 # alias to change default options of a command
86 #=====
87 ____bookmark_default_options____(){ echo ""; }
88 # alias less='less -r' # raw control characters
89 alias whence='type -a' # where, of a sort
90 alias grep='grep -P --color=always' # use perl engine as default
91 alias egrep='egrep --color=always' # show differences in colour
92 alias fgrep='fgrep --color=always' # show differences in colour
93
94 # Some shortcuts for different directory listings
95 #alias ls='ls -hF --color=tty' # classify files in colour
96 alias ls='ls --color -h --group-directories-first' # http://superuser.com/questions/109537/unix-ls
97 alias dir='ls --color=auto --format=vertical'
98 alias vdir='ls --color=auto --format=long'
99 alias ll='ls -l' # long list
100 alias la='ls -A' # all but . and ..
101 alias l='ls -CF' #
102 # alias ipynb='ipython notebook --browser=/usr/bin/firefox'
103
104 alias gcc='/sbia/sbiasfw/external/gcc/4.7.1/bin/gcc'
105
106 #=====
107 # General convenience commands (most will go here)
108 #=====
109 ____bookmark_convenience____(){ echo ""; }
110 alias cpucheck='ps uU takanori --sort %cpu'
111 alias cpucheck2='ps aux --sort %cpu'
112
113 #-----#
114 # disk space
115 #-----#
116 alias dspace='du -h --max-depth=1'
117 alias dspace2='du --max-depth=1 | sort -n | cut -f2- | xargs du -hs'
118 alias dspace3='du --max-depth=1 | sort -n | cut -f2- | xargs du -ahs'
119
120 #http://stackoverflow.com/questions/1412423/display-only-files-and-folders-that-are-symbolic-links

```

```

121 alias ls_sym='ls -l $(find ./ -maxdepth 1 -type l -print)'
122
123 #http://stackoverflow.com/questions/17066250
124 alias print_time='echo $(date +%Y-%m-%d_%H:%M:%S)'
125
126 #http://stackoverflow.com/questions/7110119 (history with no line-numbers)
127 alias hist_nonum='history | cut -c 8-'
128
129 tw_print_function_name(){
130     #=====#
131     # print function names defined here
132     # (since these don't show up in $ alias
133     #=====#
134     # http://stackoverflow.com/questions/1184268/unix-sort-treatment-of-underscore-character
135     # LC_COLLATE=C will make underscore sorted as well
136     # (grep looks from () followed by {
137     # sed shaves off all the last character following ")" bracket
138     # http://stackoverflow.com/questions/3675169/how-to-shave-off-last-character-using-sed
139     cat ~/.bashrc | grep "\(\)\(?\=\{\)" | env LC_COLLATE=C sort -f | \
140         sed "s/().*$/( )/" | stripcolors
141 }
142
143 tw_csvhead(){
144     head -1 $1 | tr ',' '\n'
145 }
146
147 #=====#
148 # ssh
149 #=====#
150 ____bookmark_ssh____(){ echo "" ; }
151 alias tak='ssh takanori@takanori.eecs.umich.edu'
152 alias caen='ssh takanori@login.engin.edu'
153 alias itd='ssh takanori@login.engin.edu'
154 alias newberry='ssh takanori@newberry.eecs.umich.edu'
155 alias itd='ssh -Y -l takanori stat.itd.umich.edu'
156 alias sbia='ssh -Y -l watanabt cbica-cluster.uphs.upenn.edu'
157
158 #=====#
159 # run in bg
160 #=====#
161 ____bookmark_background____(){ echo ""; }
162 alias gitkl='gitk &'
163 alias spyder='spyder --new-instance &'
164 alias matlabl='matlab &'
165
166 #=====#
167 # my "go" aliases to move around frequently used directories
168 #=====#
169 ____bookmark_go____(){ echo ""; }
170 alias godrop='cd ~/Dropbox'
171 alias gogit='cd ~/Dropbox/git'
172 alias goipynb='cd ~/Dropbox/work/ipynb-notes'
173 alias gotex='cd ~/Dropbox/research_dropbox/latex'
174 alias gowork='cd ~/Dropbox/work/sbia_work/'
175
176 # 3 sphinx notebooks I use quite often
177 alias goconf='cd ~/Dropbox/git/configs'
178 alias gonotes='cd ~/Dropbox/git/coding_notes'

```

```

179 alias gossnippets='cd ~/Dropbox/git/snippet'
180
181 # location of the python modules from anacaonda
182 alias gopymodules='cd ~/anaconda2/lib/python2.7/site-packages'
183 alias golocalpymod='cd ~/.local/lib/python2.7/site-packages'
184
185 #=====#
186 # handling clipboards....
187 #=====#
188 _____bookmark_clipboards____(){ echo " " ; }
189
190 # http://stackoverflow.com/questions/5130968/how-can-i-copy-the-output-of-a-command-directly-into-r
191 alias c="xclip -selection clipboard"
192 alias v="xclip -o -selection clipboard"
193
194 #-----#
195 # Neat function I grabbed from:
196 # http://madebynathan.com/2011/10/04/a-nicer-way-to-use-xclip/
197 #-----#
198 cb() {
199     local _scs_col="\e[0;32m"; local _wrn_col='\e[1;31m'; local _trn_col='\e[0;33m'
200     # Check that xclip is installed.
201     if ! type xclip > /dev/null 2>&1; then
202         echo -e "$_wrn_col""You must have the 'xclip' program installed.\e[0m"
203         # Check user is not root (root doesn't have access to user xorg server)
204     elif [[ "$USER" == "root" ]]; then
205         echo -e "$_wrn_col""Must be regular user (not root) to copy a file to the clipboard.\e[0m"
206     else
207         # If no tty, data should be available on stdin
208         if ! [[ "$( tty )" == /dev/* ]]; then
209             input="$(< /dev/stdin)"
210             # Else, fetch input from params
211         else
212             input="$*"
213         fi
214         if [ -z "$input" ]; then # If no input, print usage message.
215             echo "Copies a string to the clipboard."
216             echo "Usage: cb <string>"
217             echo "      echo <string> | cb"
218         else
219             # Copy input to clipboard
220             echo -n "$input" | xclip -selection c
221             # Truncate text for status
222             if [ ${#input} -gt 80 ]; then input="$(echo $input | cut -c1-80)$_trn_col...\e[0m"; fi
223             # Print status.
224             echo -e "$_scs_col""Copied to clipboard:\e[0m $input"
225         fi
226     fi
227 }
228
229 #-----#
230 # Aliases / functions leveraging the cb() function
231 #-----#
232 function cbf() { cat "$1" | cb; } # Copy contents of a file
233 alias cbssh="cbf ~/.ssh/id_rsa.pub" # Copy SSH public key
234 alias cbwd="pwd | cb" # Copy current working directory
235 alias cbhs="cat $HISTFILE | tail -n 1 | cb" # Copy most recent command in bash history
236

```

```

237 #=====#
238 # Dealing with **colors**
239 #=====#
240 ____bookmark_colors____(){ echo "" ; }
241
242 #=====#
243 # git related
244 #=====#
245 #http://stackoverflow.com/questions/7066325/list-git-aliases
246 alias git_alias='git config --get-regexp alias | pygmentize -l sh'
247
248 #| added 08-24-2016 (16:11)
249 # remove color from stdout (wow, harder than i expected)
250 #http://stackoverflow.com/questions/17998978/removing-colors-from-output
251 #http://unix.stackexchange.com/questions/111899/how-to-strip-color-codes-out-of-stdout-and-pipe-to-
252 alias stripcolors='sed "s/\x1B\[([0-9]\{1,2\}\(;[0-9]\{1,2\}\)\)?\)\?[mGK]//g"'
253
254 #=====#
255 # to get colored output from ``less`` on scripts
256 # http://superuser.com/questions/117841/get-colors-in-less-command
257 #=====#
258 myless(){
259     pygmentize $1 | less
260 }
261
262 pyg_sh(){
263     # pygmentize shell code
264     pygmentize -l sh $1
265 }
266
267 pyg_py(){
268     # pygmentize python code
269     pygmentize -l python $1
270 }
271
272 #=====#
273 # Git related functions
274 #=====#
275 ____bookmark_git____(){ echo "" ; }
276 git_anonymize(){
277     git config user.name "noname"
278     git config user.email noname@example.com
279 }
280 alias twsphinx_check='google-chrome build/html/index.html' # 08-17-2016 (13:33)
281 alias twalias='alias | pygmentize -l sh' # 08-17-2016 (13:37)
282
283 git_clear_author_history(){
284     git filter-branch -f --env-filter '
285
286     CORRECT_NAME="your name"
287     CORRECT_EMAIL="your_email@example.com"
288
289     export GIT_COMMITTER_NAME="$CORRECT_NAME"
290     export GIT_COMMITTER_EMAIL="$CORRECT_EMAIL"
291
292     export GIT_AUTHOR_NAME="$CORRECT_NAME"
293     export GIT_AUTHOR_EMAIL="$CORRECT_EMAIL"
294     ' --tag-name-filter cat -- --branches --tags

```



```

295 }
296
297 git_author_history_tak(){
298     git filter-branch -f --env-filter '
299
300     CORRECT_NAME="Takanori Watanabe (sbia-pc125)"
301     CORRECT_EMAIL="Takanori.Watanabe@uphs.upenn.edu"
302
303     export GIT_COMMITTER_NAME="$CORRECT_NAME"
304     export GIT_COMMITTER_EMAIL="$CORRECT_EMAIL"
305
306     export GIT_AUTHOR_NAME="$CORRECT_NAME"
307     export GIT_AUTHOR_EMAIL="$CORRECT_EMAIL"
308     ' --tag-name-filter cat -- --branches --tags
309 }
310
311 #=====#
312 # Sublime and Sphinx related
313 #=====#
314 ____bookmark_subl_sphinx____(){ echo " " ; }
315
316 #alias open_sphinx_html='firefox _build/html/index.html'
317
318 subl(){ # open both snippets and configs
319     subl -n
320     subl -a ~/Dropbox/git/configs/
321     subl -a ~/Dropbox/git/snippet/
322     subl -a ~/Dropbox/git/coding_notes/
323 }
324
325 # modify snippets via sublime text
326 alias subl_snip='subl -n -a ~/Dropbox/git/snippet'
327
328 # to publish in github
329 alias nojekyll='touch .nojekyll'
330
331 #=====#
332 # SNIPPETS to print out (as a self reminder)
333 #=====#
334 # just a bunch of reminder snippets i can print out in the shell
335 ____bookmark_snip____(){ echo 'no functionality. just a bookmark for sublime (use ctrl+r to navigate)
336     _snip_find(){
337         echo '
338         find $DIR # recursively print out file directories
339         find $PWD | grep helper.md
340         find $PWD | grep helper.html | xclip
341         find $PWD -maxdepth 1
342         find . -iname "*chrome*" # case insensitive
343         find . -name "*chrome*" # case sensitive
344         find . -iname "*chrome*" # print filenames, followed by a NULL character instead of the "newline"
345
346         # ignore any file containing "est" (even in the directory name) and print out rest
347         # (note: -o is the OR operator...see "operator" list below)
348         find . -wholename '*est*' -prune -o -print
349
350         # stuffs with -type option
351         find . d # list directories
352         find . f # list regular files

```

```

353 find . | # list symlinks
354
355 #=====#
356 # name vs. whilename
357 # - suppose i have file /Data_Science/test.txt
358 #=====#
359 find . -iwholename "*Sci*.txt"
360     # this will find the above file
361 find . -iname "*Sci*.txt"
362     # this will NOT find the above file
363 List filenames ending in .mp3, searching in the music folder and subfolders:
364 $ find ./music -name "*.mp3"
365
366 Find .doc files that also start with 'questionnaire' (AND)
367 $ find . -name '*.doc' -name questionnaire*
368
369 Find .doc files that do NOT start with 'Accounts' (NOT)
370 $ find . -name '*.doc' ! -name Accounts*
371 ' | pygmentize -l sh
372 }
373
374 _snip_for(){
375     echo '
376     for run in {1..10}
377     do
378         command
379     done
380
381     # single line
382     for run in {1..30}; do ipython t_0809c_enet_tobpnc_age.py; done
383     ' | pygmentize -l sh
384 }
385
386 _snip_rename(){
387     echo '
388     #http://unix.stackexchange.com/questions/146743/processing-multiple-extensions
389     #https://www.gnu.org/software/bash/manual/html_node/Brace-Expansion.html
390
391     # rename the filename part "Array" with "_PCA" for all files ending with extension .mat
392     rename Array _PCA *.mat
393
394     # rename png "prefix" with "normalized" in files with .png extensions
395     rename '""'s/prefix/normalized/'""' *.png
396
397     # rename files with either .png or .pkl extension (see link on brace expansion above)
398     # (-n will do a dry run, letting me check the rename will do what i want it to do )
399     rename -n '""'s/normalized/test/'""' *.{png,pkl}
400
401     # use -n to check rename will do what i want it to do
402     rename -n '""'s/graphnet/elasticnet/'""' *.m # check
403     rename -v '""'s/graphnet/elasticnet/'""' *.m # run verbosely after checking
404
405     #=====#
406     # add suffix/prefix to files
407     # see 2nd answer in http://stackoverflow.com/questions/208181/how-to-rename-with-prefix-suffix
408     #=====#
409     # rename files with extensions (to avoid directory...not robust, but does what i want most of t
410     for filename in *.*; do echo $filename; done;

```

```

411     for filename in *; do echo $filename; done; # <- this includes directory, which me not like
412
413     for filename in *\.*; do mv "${filename}" "prefix_${filename}"; done;
414     ' | pygmentize -l sh
415 }
416
417 _snip_scp(){
418     echo '
419     #=====
420     # relevant options
421     #=====
422     #| -r : recursive
423     #| -v : verbose (i probably won''''t need)
424     #| -q : quiet
425
426     #=====
427     # demos
428     #=====
429     # Copy dummy.txt to home directory in remote host:
430     touch ~/dummy.txt
431     scp ~/dummy.txt watanabt@cbica-cluster.uphs.upenn.edu:~/
432
433     # copy dummy.txt on server as dummy_cp.txt to local home folder
434     scp watanabt@cbica-cluster.uphs.upenn.edu:~/dummy.txt ~/dummy_cp.txt
435     ' | pygmentize -l sh
436 }
437
438 _snip_mogrify(){
439     echo '
440     mogrify -resize 50% *.png
441     mogrify -resize 500! *.png      => changes only x-axis
442     mogrify -resize 500 *.png      => changes (x,y) axis in proportion
443     mogrify -trim *.png
444
445     #| http://arcoleo.org/dsawiki/Wiki.jsp?page=Recursively%20run%20Mogrify%20on%20a%20Directory
446     #| Mogrify is an image tool that comes with ImageMagick. It is useful for resizing, compressing
447     $ find ./ -name "*.png" -exec mogrify -some_option {} \;
448     $ find ./ -name "*.png" -exec mogrify -resize 40% {} \;
449     ' | pygmentize -l sh
450 }
451
452 _snip_pipedream(){
453     echo '
454     #http://unix.stackexchange.com/questions/41740/find-exec-vs-find-xargs-which-one-to-choose
455
456     the -exec "{}" \; approach seems to be specific to find (i prefer unity with xargs)
457
458     #http://stackoverflow.com/questions/4509624/how-to-limit-depth-for-recursive-file-list
459     # http://ss64.com/bash/find.html
460     find . -maxdepth 1 -type d -exec ls -ld "{}" ";"
461     find . -maxdepth 1 -type d -exec ls -ld \{\} \; # same as above
462     find . -maxdepth 1 -type d | xargs ls -ld # same as above (i find this the most intuitive)
463     ls -ld $(find . -maxdepth 1 -type d) # same as above
464
465     # this doesnt give the same result as "xargs" approach...figure out why later
466     find . -maxdepth 1 -type d | ls -ld
467     ' | pygmentize -l sh
468 }

```

```
469
470 _snip_grep_recursively(){
471     echo '
472     grep -r "textthere" .
473
474     # You can also mention files to exclude with --exclude.
475     grep -r --include "*.txt" textthere .
476
477     # use brace expansion to allow multiple extension
478     grep -r --include=*.py,m} test .
479     ' | pygmentize -l sh
480 }
481
482 _snip_demo_sed(){
483     echo '
484     # replace white-string with newline
485     bash 0622_2016_rename_tobvols.sh | sed '""'s/ /\n/g'""'
486
487     echo $PYTHONPATH
488     /home/takanori/Dropbox/work/external-pymodules:/home/takanori/Dropbox/work/sbia_work/python/mod
489
490     # recall, g for global replacement
491     echo $PYTHONPATH | sed '""'s/ :/\n/g'""'
492     /home/takanori/Dropbox/work/external-pymodules
493     /home/takanori/Dropbox/work/sbia_work/python/modules
494     /home/takanori/work-local/external-python-modules/deepnet
495     /home/takanori/mybin/spark-2.0.0-bin-hadoop2.7/python/pyspark
496     ' | pygmentize -l sh
497 }
498
499 _snip_demo_awk(){
500     echo '
501     ls -l | awk '""'{printf $5 "\t" $9"\n"}'""'
502
503     http://stackoverflow.com/questions/2021982/awk-without-printing-newline
504     http://askubuntu.com/questions/231995/how-to-separate-fields-with-space-or-tab-in-awk
505     http://www.catonmat.net/blog/awk-one-liners-explained-part-one/
506     http://www.staff.science.uu.nl/~oostri102/docs/nawk/nawk_41.html
507     ' | pygmentize -l sh
508 }
509
510 _snip_computer_info(){
511     echo '
512     # get cpu information
513     cat /proc/cpuinfo
514
515     #-- see gnome version ---
516     gnome-shell --version
517     lsb_release -a
518
519     # to figure out which linux distribution you are using
520     # (ref: http://www.cyberciti.biz/faq/find-linux-distribution-name-version-number/)
521     cat /etc/*-release
522
523     locate libfortran.so
524     ' | pygmentize -l sh
525 }
526
```

```

527 __snip_demo_timestamp(){
528     echo '
529     echo $(date +"%Y-%m-%d_%H:%M:%S")
530     ' | pygmentize -l sh
531 }
532
533 __snip_ls_symlink_only(){
534     echo '
535     # aliased as ls_sym
536     ls -l $(find ./ -maxdepth 1 -type l -print)
537     ' | pygmentize -l sh
538 }
539
540 __snip_github_clone_branch(){
541     echo '
542     #http://stackoverflow.com/questions/1911109/clone-a-specific-git-branch
543     # skeleton
544     git clone -b my-branch git@github.com:user/myproject.git local_folder_name
545
546     # actual run
547     git clone -b minimalist https://github.com/wtak23/sphinx_skeleton.git jinja2
548     ' | pygmentize -l sh
549 }
550
551 __snip_moving_and_copying(){
552     echo '
553     # rename a directory (note '/' after directory name has NO impact here, there are cases I should
554     mv /home/user/oldname /home/user/newname
555
556     #=== cp helper ===#
557     # copy files *inside* the folder "test/" inside folder "target"
558     gosnippets; cd tests; mkdir source target; cd source; touch a b c; cd ..
559
560     # copy files *inside* the folder "test/" inside folder "target" (note: -R and -r are the same here)
561     cp -r source/* target
562
563     # copy entire folder *source* into *target* (without ``-r``, the subdirectories wont get copied)
564     cp -r source* target
565
566     #--- cleanup test files from above---#
567     cd ..; rm -r tests/*
568
569
570     #--- remove entire directory including files inside recursively ---#
571     rm -rf test/
572     ' | pygmentize -l sh
573 }
574
575 __snip_ps(){
576     echo '
577     # a <- includes ``root`` in userprocess
578     # u <- include ``username`` column
579     # x <- list all processes owned by me
580     ps aux
581     ' | pygmentize -l sh
582 }
583
584 __snip_git_localname(){

```

```
585     echo '  
586     # change user name in local repository  
587     # https://git-scm.com/book/en/v2/Customizing-Git-Git-Configuration  
588     git config user.name "noname"  
589     git config user.email noname@example.com  
590     ' | pygmentize -l sh  
591 }  
592  
593 _snip_stdout_stderr(){  
594     echo '  
595     #*****  
596     # Output stdout and stderr to terminal and logfile  
597     #  
598     # http://stackoverflow.com/questions/418896/how-to-redirect-output-to-a-file-and-stdout  
599     # http://stackoverflow.com/questions/18460186/writing-outputs-to-log-file-and-console  
600     #*****  
601     # save stdout and stderr to a file  
602     bash mymake.sh >> log.txt 2>&1  
603  
604     # save logfile like above, but also print on terminal screen  
605     bash mymake.sh 2>&1 | tee log.txt  
606     ' | pygmentize -l sh  
607 }  
608  
609 _snip_logout(){ # just a wrapper to _snip_stdout_stderr (this one may have better mnemonic)  
610     _snip_stdout_stderr  
611 }  
612  
613 _snip_python_simple_http_server(){  
614     echo '  
615     # for status messages, see: http://www.w3schools.com/tags/ref_httpmessages.asp  
616     python -m SimpleHTTPServer 8000 &  
617     firefox "http://localhost:8000/"  
618     ' | pygmentize -l sh  
619 }  
620  
621 #*****  
622 # Everything below here are unsorted. Categorized later.  
623 # Last organized: 02 September 2016 (Friday)  
624 #*****  
625 ____bookmark_unsorted____(){ echo "I'm unsorted" ; }
```

2.1.3 gitconfig content

Todo

clean this unholy mess...

Github

```
.. literalinclude:: ./sbia-pc-125/.gitconfig  
   :language: bash  
   :linenos:
```

```

1  #| http://stackoverflow.com/questions/2183900/how-do-i-prevent-git-diff-from-using-a-pager
2  #| last update: 2/26/2013
3  [user]
4      name = Takanori Watanabe (sbia-pc125)
5      email = Takanori.Watanabe@uphs.upenn.edu
6  [core]
7      #editor = "emacs -nw"
8      editor = subl -n -w # http://stackoverflow.com/questions/22631863/setting-up-sublimetext-3-a
9      pager = cat
10     symlinks = false
11     autocrlf = false # see Progit pdf-pg.152
12     filemode = false # to suppress unix file permission change in windows
13 [color]
14     branch = true
15     diff = true
16     status = true
17     pager = true
18 [alias]
19     #####
20     # Things i added post july2015
21     #####
22     # http://stackoverflow.com/questions/3801321/git-list-only-untracked-files-also-custom-command
23     lsi = "!git ls-files -o --exclude-standard $1"
24     # aaaa = !git add $(git ls-files -o --exclude-standard)
25
26     #=====
27     # Useful references
28     # - https://git.wiki.kernel.org/index.php/Aliases
29     #=====
30     sortdiff = !sh -c 'git diff "$@" | grep "^[+-]" | sort --key=1,2 | uniq -u -s1'
31     unstage = "!git reset HEAD $"
32
33     pu = push -u
34     s = status
35
36     #####
37     # ls-files are handy for showing only: (08/20/2014)
38     #         -d: deleted files
39     #         -m: modified files
40     #         -o: untracked files
41     #-----#
42     # - use less as default, lsc to output on terminal (c for cat)
43     #-----#
44     ls = "!git ls-files $1 | less -rN"
45     lsc = "!git ls-files $1"
46     #####
47
48     sl = "!git status | less -rN"
49     ##### add #####
50     ai = add -i
51     aa = add -A
52     # au = add -u
53
54     #| add all and comment (use with care)
55     aac = "!git add -A && git commit -m"
56
57     #| add, then display status
58     a = "!git add $1 && git status"

```

```

##### branches #####
b = branch
ba = branch -a
bav = branch -av

#| show commit history of branches (http://www.kernel.org/pub//software/scm/git/docs/git-show)
sb = "!git show-branch --color=always | less -rN"

#| same as above, but for remote branches
sbr = "!git show-branch -r --color=always | less -rN"

#| same as above, but for all branches
sbr = "!git show-branch -a --color=always | less -rN"

#| display only the names of the files that went through changes between two branches (remote)
#| Example: $ git dfname branch1 branch2
#|           => this will show the file changed FROM branch1 to branch2
#|           => (eg: D file1.txt --- file1 that was in branch1 is deleted in branch2)
dfname = "!git diff --name-status $1..$2"
# A: addition of a file
# C: copy of a file into a new one
# D: deletion of a file
# M: modification of the contents or mode of a file
# R: renaming of a file
# T: change in the type of the file
# U: file is unmerged (you must complete the merge before it can be committed)
# X: "unknown" change type (most probably a bug, please report it)

##### commits ##### (9/23/2013 - added --reset-author so that amended commit)
c = commit
ca = commit --amend --reset-author
can = commit --amend --no-edit --reset-author # (09/19/2013) http://stackoverflow.com/question
call = "!git add -A && git commit --amend --no-edit --reset-author" # (09/22/2013) add all a
# cm = "!git commit -m $1" #| don't know how to allow argument with quotations...ask Dan in v
cm = commit -m
cam = commit --amend -m

r = remote
rv = remote -v

##### diffs #####
d = diff --color=always
dc = diff --cached --color=always

#| suffix "l" for "less"
dl = "!git diff --color=always | less -rN"
dcl = "!git diff --cached --color=always | less -rN"

##### logs ##### (see progit-pdf-pg25)
#| suffix "n" for "number"
ln = "!git log $1 --graph --pretty=format:'%Cred%h%Creset -%C(yellow)%d%Creset %s %Cgreen(%cr) %s'"
ll = "!git log --graph --pretty=format:'%Cred%h%Creset -%C(yellow)%d%Creset %s %Cgreen(%cr) %s'"
l = "!git log -5 --graph --pretty=format:'%Cred%h%Creset -%C(yellow)%d%Creset %s %Cgreen(%cr) %s'"

##### other useful commands #####
#| checkout a file from a different branch, and give it a new file name
#| ($1 = branch-names, $2 = filename $3 = output filename)

```



```

117     #!/ Example: $ git cho takanori-pc/develop tinit.m tinit_tmp.m
118
119     #!/ ERROR: output ends messed up...
120     #!/ Apparently it's not recognizing colon character ":" ...
121     #!/ manually do this...easy enough =)
122     #!/ Example:
123     #!/ $ git show takanori-pc/master:tinit.m > tinit_pc.m
124     #cho = "!git show $1:$2 > $3"
125     #sfile = "!git show $1:$2 --color=always" #! manually do pipe to output
126
127     #!/ display the latest commits fo all branches (with their commit time)
128     ball = "!bash git_bra.sh"
129
130     fall = fetch --all
131 [push]
132     default = matching

```

2.2 Cygwin setup (bash-cygwin.rst)

bash_cygwin.rst

Contents

- *symlink setup*
- *bashrc content*
- *bash_aliases content*
- *apt-cyg*
 - *Things I install on most of my computers*
- *git related stuffs*
 - *github sshkey*
 - *git code completion*
- *Random overflows*
 - *to get git gui working...*
 - *xming setup*
 - *disable annoying bell sound in cygwin*

2.2.1 symlink setup

Note: Syntax for creating symlinks in Windows (run as admin):

```

mklink SOURCE_FILE TARGET_FILE # for individual files
mklink /d SOURCE_DIR TARGET_DIR # for entire directory

```

CRITICAL CHANGE (2016-09-04)

Changed \$HOME in cygwin to my actual windows home directory in .bashrc. Target of the symlink below have now changed.

Updated version

```
mklink "c:\Users\takanori\.gitignore" "C:\Users\takanori\Dropbox\git\configs\source\bash_config\cygwin\c:\Users\takanori\.gitignore"
mklink "c:\Users\takanori\.gitconfig" "C:\Users\takanori\Dropbox\git\configs\source\bash_config\cygwin\c:\Users\takanori\.gitconfig"
mklink "c:\Users\takanori\.bash_aliases" "C:\Users\takanori\Dropbox\git\configs\source\bash_config\cygwin\c:\Users\takanori\.bash_aliases"
mklink "c:\Users\takanori\.bashrc" "C:\Users\takanori\Dropbox\git\configs\source\bash_config\cygwin\c:\Users\takanori\.bashrc"
mklink "c:\Users\takanori\.inputrc" "C:\Users\takanori\Dropbox\git\configs\source\bash_config\cygwin\c:\Users\takanori\.inputrc"
mklink "c:\Users\takanori\.emacs" "C:\Users\takanori\Dropbox\git\configs\source\bash_config\cygwin\c:\Users\takanori\.emacs"
```

(old version) Below ran on ASUS on 09-01-2016 (17:57)

```
mklink "c:\cygwin64\home\takanori\.gitignore" "C:\Users\takanori\Dropbox\git\configs\source\bash_config\cygwin\c:\cygwin64\home\takanori\.gitignore"
mklink "c:\cygwin64\home\takanori\.gitconfig" "C:\Users\takanori\Dropbox\git\configs\source\bash_config\cygwin\c:\cygwin64\home\takanori\.gitconfig"
mklink "c:\cygwin64\home\takanori\.bash_aliases" "C:\Users\takanori\Dropbox\git\configs\source\bash_config\cygwin\c:\cygwin64\home\takanori\.bash_aliases"
mklink "c:\cygwin64\home\takanori\.bashrc" "C:\Users\takanori\Dropbox\git\configs\source\bash_config\cygwin\c:\cygwin64\home\takanori\.bashrc"
mklink "c:\cygwin64\home\takanori\.emacs" "C:\Users\takanori\Dropbox\git\configs\source\bash_config\cygwin\c:\cygwin64\home\takanori\.emacs"
```

2.2.2 bashrc content

Github

```
.. literalinclude:: ./cygwin/.bashrc
   :language: bash
   :linenos:
```

```
1  #!/----- Problem with bash complaining "\r command not found" -----|/
2  #!/http://stackoverflow.com/questions/11616835/cygwin-r-command-not-found-bashrc-bash-profile
3  (set -o igncr) 2>/dev/null && set -o igncr; # this comment is needed
4  # To the extent possible under law, the author(s) have dedicated all
5  # copyright and related and neighboring rights to this software to the
6  # public domain worldwide. This software is distributed without any warranty.
7  # You should have received a copy of the CC0 Public Domain Dedication along
8  # with this software.
9  # If not, see <http://creativecommons.org/publicdomain/zero/1.0/>.
10
11 # base-files version 4.1-1
12
13 # ~/.bashrc: executed by bash(1) for interactive shells.
14
15 # The latest version as installed by the Cygwin Setup program can
16 # always be found at /etc/defaults/etc/skel/.bashrc
17
18 # Modifying /etc/skel/.bashrc directly will prevent
19 # setup from updating it.
20
21 # The copy in your home directory (~/.bashrc) is yours, please
22 # feel free to customise it to create a shell
23 # environment to your liking. If you feel a change
24 # would be benifitial to all, please feel free to send
25 # a patch to the cygwin mailing list.
26
27 # User dependent .bashrc file
28
29 # If not running interactively, don't do anything
30 [[ "$-" != *i* ]] && return
31
32 # Shell Options
33 #
```

```

34 # See man bash for more options...
35 #
36 # Don't wait for job termination notification
37 # set -o notify
38 #
39 # Don't use ^D to exit
40 # set -o ignoreeof
41 #
42 # Use case-insensitive filename globbing
43 # shopt -s nocaseglob
44 #
45 # Make bash append rather than overwrite the history on disk
46 # shopt -s histappend
47 #
48 # When changing directory small typos can be ignored by bash
49 # for example, cd /vr/lgo/apaache would find /var/log/apache
50 # shopt -s cdspell
51
52 # Completion options
53 #
54 # These completion tuning parameters change the default behavior of bash_completion:
55 #
56 # Define to access remotely checked-out files over passwordless ssh for CVS
57 # COMP_CVS_REMOTE=1
58 #
59 # Define to avoid stripping description in --option=description of './configure --help'
60 # COMP_CONFIGURE_HINTS=1
61 #
62 # Define to avoid flattening internal contents of tar files
63 # COMP_TAR_INTERNAL_PATHS=1
64 #
65 # Uncomment to turn on programmable completion enhancements.
66 # Any completions you add in ~/.bash_completion are sourced last.
67 # [[ -f /etc/bash_completion ]] && . /etc/bash_completion
68
69 # History Options
70 #
71 # Don't put duplicate lines in the history.
72 # export HISTCONTROL=$HISTCONTROL${HISTCONTROL+,}ignoredups
73 #
74 # Ignore some controlling instructions
75 # HISTIGNORE is a colon-delimited list of patterns which should be excluded.
76 # The '&' is a special pattern which suppresses duplicate entries.
77 # export HISTIGNORE='${ \t}*:&:[fb]g:exit'
78 # export HISTIGNORE='${ \t}*:&:[fb]g:exit:ls' # Ignore the ls command as well
79 #
80 # Whenever displaying the prompt, write the previous line to disk
81 # export PROMPT_COMMAND="history -a"
82
83 # Aliases
84
85 # Some people use a different file for aliases
86 if [ -f "${HOME}/.bash_aliases" ]; then
87     source "${HOME}/.bash_aliases"
88 fi
89 #
90 # Some example alias instructions
91 # If these are enabled they will be used instead of any instructions

```

```
92 # they may mask. For example, alias rm='rm -i' will mask the rm
93 # application. To override the alias instruction use a \ before, ie
94 # \rm will call the real rm not the alias.
95 #
96 # Interactive operation...
97 # alias rm='rm -i'
98 # alias cp='cp -i'
99 # alias mv='mv -i'
100 #
101 # Default to human readable figures
102 # alias df='df -h'
103 # alias du='du -h'
104 #
105 # Misc :)
106 # alias less='less -r' # raw control characters
107 # alias whence='type -a' # where, of a sort
108 # alias grep='grep --color=always' # show differences in colour
109 # alias egrep='egrep --color=auto' # show differences in colour
110 # alias fgrep='fgrep --color=auto' # show differences in colour
111 # #
112 # # Some shortcuts for different directory listings
113 # alias ls='ls -hF --color=tty' # classify files in colour
114 # alias dir='ls --color=auto --format=vertical'
115 # alias vdir='ls --color=auto --format=long'
116 # alias ll='ls -l' # long list
117 # alias la='ls -A' # all but . and ..
118 # alias l='ls -CF' #
119
120 # Umask
121 #
122 # /etc/profile sets 022, removing write perms to group + others.
123 # Set a more restrictive umask: i.e. no exec perms for others:
124 # umask 027
125 # Paranoid: neither group nor others have any perms:
126 # umask 077
127
128 # Functions
129 #
130 # Some people use a different file for functions
131 # if [ -f "${HOME}/.bash_functions" ]; then
132 #     source "${HOME}/.bash_functions"
133 # fi
134 #
135 # Some example functions:
136 #
137 # a) function setttitle
138 # setttitle ()
139 # {
140 #     echo -ne "\e]2;${@}\e]1;${@}\a";
141 # }
142 #
143 # b) function cd_func
144 # This function defines a 'cd' replacement function capable of keeping,
145 # displaying and accessing history of visited directories, up to 10 entries.
146 # To use it, uncomment it, source this file and try 'cd --'.
147 # acd_func 1.0.5, 10-nov-2004
148 # Petar Marinov, http://geocities.com/h2428, this is public domain
149 # cd_func ()
```

```

150 # {
151 #   local x2 the_new_dir adir index
152 #   local -i cnt
153 #
154 #   if [[ $1 == "--" ]]; then
155 #     dirs -v
156 #     return 0
157 #   fi
158 #
159 #   the_new_dir=$1
160 #   [[ -z $1 ]] && the_new_dir=$HOME
161 #
162 #   if [[ ${the_new_dir:0:1} == '-' ]]; then
163 #     #
164 #     # Extract dir N from dirs
165 #     index=${the_new_dir:1}
166 #     [[ -z $index ]] && index=1
167 #     adir=$(dirs +$index)
168 #     [[ -z $adir ]] && return 1
169 #     the_new_dir=$adir
170 #   fi
171 #
172 #   #
173 #   # '~' has to be substituted by ${HOME}
174 #   [[ ${the_new_dir:0:1} == '~' ]] && the_new_dir="${HOME}${the_new_dir:1}"
175 #
176 #   #
177 #   # Now change to the new dir and add to the top of the stack
178 #   pushd "${the_new_dir}" > /dev/null
179 #   [[ $? -ne 0 ]] && return 1
180 #   the_new_dir=$(pwd)
181 #
182 #   #
183 #   # Trim down everything beyond 11th entry
184 #   popd -n +11 2>/dev/null 1>/dev/null
185 #
186 #   #
187 #   # Remove any other occurrence of this dir, skipping the top of the stack
188 #   for ((cnt=1; cnt <= 10; cnt++)); do
189 #     x2=$(dirs +${cnt} 2>/dev/null)
190 #     [[ $? -ne 0 ]] && return 0
191 #     [[ ${x2:0:1} == '~' ]] && x2="${HOME}${x2:1}"
192 #     if [[ "${x2}" == "${the_new_dir}" ]]; then
193 #       popd -n +$cnt 2>/dev/null 1>/dev/null
194 #       cnt=cnt-1
195 #     fi
196 #   done
197 #
198 #   return 0
199 # }
200 #
201 # alias cd=cd_func
202
203
204 #=====
205 # From here, tak's custom commands (08/13/2014 2:35:AM)
206 #=====
207 # http://superuser.com/questions/109537/unix-ls-how-to-sort-first-directories-then-files-etc

```

```
208 alias ls='ls --color -h --group-directories-first'
```

2.2.3 bash_aliases content

Github

```
.. literalinclude:: ./cygwin/.bash_aliases
   :language: bash
   :linenos:
```

```
1  #|----- Problem with bash complaining "\r command not found" -----|#
2  #|http://stackoverflow.com/questions/11616835/cygwin-r-command-not-found-bashrc-bash-profile
3  (set -o igncr) 2>/dev/null && set -o igncr; # this comment is needed
4
5  #| The bash startup files: http://www.linuxfromscratch.org/blfs/view/6.3/postlfs/profile.html
6
7  #=====#
8  # cygwin/windows specific setup
9  # (part that's difference from my bashrc file on my linux comptuers)
10 #=====#
11 ____bookmark_windows_specific_configs____(){ echo "windows specific" ; }
12 #-----#
13 # How to use gitk in cygwin
14 # http://stackoverflow.com/questions/9393462/cannot-launch-git-gui-using-cygwin-on-windows
15 #-----#
16 export DISPLAY=:0.0
17 # export DISPLAY=Cygwin:0.0
18
19 # to enable git auto complete (pdf-pg37 progit, 3.7.1)
20 source /etc/bash_completion.d/git
21 alias bsource="source ${HOME}/.bashrc"
22
23 #-----#
24 # change HOME to windows home (not cygwin)
25 #-----#
26 export HOME="/cygdrive/c/Users/takanori"
27 export HOME_WIN="/cygdrive/c/Users/takanori"
28 export HOME_CYG="/home/takanori"
29
30 #=====#
31 # convert windows directory to cygwin type
32 #-----#
33 # ref:
34 # http://stackoverflow.com/questions/19999562/bash-script-to-convert-windows-path-to-linux-path
35 # http://stackoverflow.com/questions/11814374/shell-reading-backslash-in-command-line-parameters
36 #=====#
37 # cdwin(){
38 #     set $(history | tail -1 )
39 #     shift 2
40 #     path="$*"
41 #     cd $(cygpath "$path") #<- never knew about ``cygpath`` command
42 # }
43
44 #| deprecated...I'd have to include quotes to the argument everytime using below, which is tedious
45 # cdwin(){
46 #     echo "I receive the variable --> $1"
47 #     line=$(sed -e 's#^J:##' -e 's#\|\\#/#g' <<< "$1")
```

```

48 #     echo "$line"
49 # }
50
51 #-----#
52 # foxit reader
53 # - can't invoke by relative path (eg: ``$foxit ./dir/file.pdf`` won't work)
54 # - hence call by full absolute path
55 #-----#
56 # (10/10/2014)
57 # - found out about ``cygpath``, very useful!
58 #-----#
59 #| Need a function that converts cygdrive-bash directories into windows directory form...good ex
60 foxit(){ # example usage: $foxit hwl/soll.pdf
61     if [ -z $1 ]; then
62         echo "Hey Tak, give an argument!"
63     else
64         #-----#
65         # first convert input to full path in windows filesystem form
66         #-----#
67         set $(history | tail -1 )
68         shift 2
69         path="$*"
70         foxitEx="/cygdrive/C/Program Files (x86)/Foxit Software/Foxit Reader/Foxit Reader.exe"
71
72         # echo $(cygpath -w "$PWD$1")
73         # echo $foxitEx $(cygpath -w "$PWD\\$1")
74         "$foxitEx" $(cygpath -w "$PWD\\$1") &
75
76         # echo $(cygpath "$path")
77         # "/cygdrive/C/Program Files (x86)/Foxit Software/Foxit Reader/Foxit Reader.exe" $1 & <-
78
79         # echo "/cygdrive/C/Program Files (x86)/Foxit Software/Foxit Reader/Foxit Reader.exe $PWD$1"
80         # echo "/cygdrive/C/Program Files (x86)/Foxit Software/Foxit Reader/Foxit Reader.exe" "$1"
81         # "/cygdrive/C/Program Files (x86)/Foxit Software/Foxit Reader/Foxit Reader.exe" $pwd$1 &
82     fi
83 }
84
85 #| when i want to pass full-file-path in windows directory system
86 winfoxit(){ # example usage: $winfoxit C:\Users\takanori\Dropbox\research_dropbox\latex\eeecs545_
87     if [ -z $1 ]; then
88         echo "Hey Tak, give an argument!"
89     else
90         set $(history | tail -1 )
91         shift 2
92         path="$*"
93         foxitEx="/cygdrive/C/Program Files (x86)/Foxit Software/Foxit Reader/Foxit Reader.exe"
94
95         # echo $(cygpath -w "$PWD$1")
96         echo $foxitEx $(cygpath -w "$1")
97         "$foxitEx" $(cygpath -w "$1") &
98     fi
99 }
100
101 winSumatra(){ # example usage: $winsumatra C:\Users\takanori\Dropbox\research_dropbox\latex\eeecs
102     set $(history | tail -1 )
103     shift 2
104     path="$*"
105     # echo "/cygdrive/C/Program Files (x86)/SumatraPDF/SumatraPDF.exe" $(cygpath -w "$1")

```

```

106     "/cygdrive/C/Program Files (x86)/SumatraPDF/SumatraPDF.exe" $(cygpath -w "$1") &
107 }
108
109 winsublime(){
110     set $(history | tail -1 )
111     shift 2
112     path="$*"
113     # echo "/cygdrive/C/Program Files/Sublime Text 3/sublime_text.exe" $(cygpath -w "$1")
114     "/cygdrive/C/Program Files/Sublime Text 3/sublime_text.exe" $(cygpath -w "$1") &
115 }
116
117 #=====
118 # wrapper aliases to invoke programs from cygwin 09-02-2016 (15:21)
119 #=====
120 ____bookmark_winprogram____(){ echo " " ; }
121 alias sumatra="/cygdrive/C/Program Files (x86)/SumatraPDF/SumatraPDF.exe"
122 alias chrome="/cygdrive/C/Program Files (x86)/Google/Chrome/Application/chrome.exe"
123 alias google-chrome="/cygdrive/C/Program Files (x86)/Google/Chrome/Application/chrome.exe"
124 alias subl="/cygdrive/C/Program Files/Sublime Text 3/sublime_text.exe"
125
126 #=====
127 # Set env-vars
128 #-----
129 # http://serverfault.com/questions/606/what-is-the-best-way-to-set-an-environment-variable-in-bashrc
130 #=====
131 ____bookmark_ENVVARS____(){ echo "I'm just a bookmark"; }
132 #export PATH=$PATH:"C:\Program Files\Amazon\AWSCLI"
133 # http://docs.aws.amazon.com/cli/latest/userguide/installing.html#install-msi-on-windows
134 export PATH=$PATH:"/cygdrive/c/Program Files/Amazon/AWSCLI"
135 export DIR_GIT="/cygdrive/c/Users/takanori/Dropbox/git"
136 export DIR_DB="/cygdrive/c/Users/takanori/Dropbox"
137
138 #| set path for my custom shell
139 export PATH=$PATH:"${DIR_GIT}/configs/source/bash_config/bin"
140
141 # added to get conda from cygwin (2016-08-22)
142 PATH=/cygdrive/c/Users/takanori/Anaconda2:$PATH
143 PATH=/cygdrive/c/Users/takanori/Anaconda2/Scripts:$PATH
144
145 #| for javac
146 #| Ref: http://stackoverflow.com/questions/4918830/how-can-i-set-my-cygwin-path-to-find-javac
147 export PATH=$PATH:"/cygdrive/C/Program Files/Java/jdk1.8.0_20/bin/"
148
149 #| to run ipython.bat that shipped with enthought canopy
150 #export PATH=$PATH:"/cygdrive/c/users/takanori/appdata/local/enthought/canopy/user/scripts/"
151
152 #=====
153 # alias to change default options of a command
154 #=====
155 ____bookmark_default_options____(){ echo " " ; }
156 # alias less='less -r' # raw control characters
157 alias whence='type -a' # where, of a sort
158 alias grep='grep -P --color=always' # use perl engine as default
159 alias egrep='egrep --color=always' # show differences in colour
160 alias fgrep='fgrep --color=always' # show differences in colour
161
162 # Some shortcuts for different directory listings
163 #alias ls='ls -hF --color=tty' # classify files in colour

```



```

164 alias ls='ls --color -h --group-directories-first' # http://superuser.com/questions/109537/unix-ls
165 alias dir='ls --color=auto --format=vertical'
166 alias vdir='ls --color=auto --format=long'
167 alias ll='ls -l' # long list
168 alias la='ls -A' # all but . and ..
169 alias l='ls -CF' #
170
171 #=====#
172 # General convenience commands (most will go here)
173 #=====#
174 ____bookmark_convenience____(){ echo ""; }
175 #-----#
176 # disk space
177 #-----#
178 alias dspace='du -h --max-depth=1'
179 alias dspace2='du -h --max-depth=1 | sort -h'
180 alias dspace3='du -ah --max-depth=1 | sort -h'
181
182 #http://stackoverflow.com/questions/1412423/display-only-files-and-folders-that-are-symbolic-links
183 alias ls_sym='ls -l $(find ./ -maxdepth 1 -type l -print)'
184
185 #http://stackoverflow.com/questions/17066250
186 alias print_time='echo $(date +"%Y-%m-%d_%H:%M:%S")'
187
188 #http://stackoverflow.com/questions/7110119 (history with no line-numbers)
189 alias hist_nonum='history | cut -c 8-'
190
191 #| added 08-24-2016 (16:11)
192 # remove color from stdout (wow, harder than i expected)
193 #http://stackoverflow.com/questions/17998978/removing-colors-from-output
194 #http://unix.stackexchange.com/questions/111899/how-to-strip-color-codes-out-of-stdout-and-pipe-to-
195 alias stripcolors='sed "s/\x1B\[([0-9]\{1,2\}\(;[0-9]\{1,2\}\)\)\{0,1\}[mGK]//g"'
196 tw_print_function_name(){
197     #=====#
198     # print function names defined here
199     # (since these don't show up in $ alias
200     #=====#
201     # http://stackoverflow.com/questions/1184268/unix-sort-treatment-of-underscore-character
202     # LC_COLLATE=C will make underscore sorted as well
203     # (grep looks from () followed by {
204     # sed shaves off all the last character following "()" bracket
205     # http://stackoverflow.com/questions/3675169/how-to-shave-off-last-character-using-sed
206     cat ~/.bash_aliases | grep "\(\)\{0,1\}[mGK]//g" | env LC_COLLATE=C sort -f | \
207         sed "s/().*$/()/" | stripcolors
208 }
209
210 tw_csvhead(){
211     head -1 $1 | tr ',' '\n'
212 }
213
214 # http://stackoverflow.com/questions/1305237/how-to-list-variables-declared-in-script-in-bash
215 alias takPrintVars='( set -o posix ; set )'
216
217 #=====#
218 # ssh aliases
219 #=====#
220 ____bookmark_ssh____(){ echo "" ; }
221 #alias tak='ssh takanori@takanori.eecs.umich.edu'

```

```

222 #alias newberry='ssh takanori@newberry.eecs.umich.edu'
223 #alias freewill='ssh slab@freewill.psych.med.umich.edu' # connection only supported from umich domain
224 #alias sshtak='ssh -L 5901:localhost:5933 takanori@takanori.eecs.umich.edu'
225 #alias sshfree='ssh -L 5903:freewill.psych.med.umich.edu:5933 takanori@takanori.eecs.umich.edu'
226
227 # ssh_to_tak() {
228 #     ssh -L $1:localhost:$2 takanori@takanori.eecs.umich.edu
229 # }
230 # alias sshtak=ssh_to_tak
231
232 #=====
233 # run in bg (my "lazy" aliases)
234 #=====
235 ____bookmark_background____(){ echo ""; }
236 alias gitkl='gitk &'
237
238
239 #=====
240 # my "go" aliases to move around frequently used directories
241 #=====
242 ____bookmark_go_aliases____(){ echo "I'm just a bookmark for sublmetext"; }
243 alias godrop='cd "${HOME_WIN}/Dropbox"'
244 alias gogit='cd "${HOME_WIN}/Dropbox/git"'
245 alias godrive='cd "${HOME_WIN}/Google Drive"'
246 alias gowork='cd "${HOME_WIN}/Dropbox/work/sbia_work"'
247
248 # windows specific ones
249 alias goahk='cd "${HOME_WIN}/Dropbox/git/configs\source\windows\autohotkey"'
250 alias gohome='cd "${HOME_WIN}"'
251 alias godesk='cd "${HOME_WIN}/Desktop"'
252
253 # 3 sphinx notebooks I use quite often
254 alias goconf='cd "${HOME_WIN}/Dropbox/git/configs"'
255 alias gonotes='cd "${HOME_WIN}/Dropbox/git/coding_notes"'
256 alias gosnippets='cd "${HOME_WIN}/Dropbox/git/snippet"'
257
258 # location of the python modules from anacaonda
259 alias gopymodules='cd "${HOME_WIN}/Anaconda2/Lib/site-packages"'
260 alias golocalpymod='cd "${HOME_WIN}\\AppData\\Roaming\\Python\\Python27\\site-packages"'
261 # oh neat, double-backslash also recognized in cygwin ^^^^^^^^^^^^^^^^^
262
263 # sublime config location
264 alias gosublime='cd "${HOME_WIN}\\AppData\\Roaming\\Sublime Text 3\\Packages\\User"'
265
266 #=====
267 # handling clipboards....
268 #=====
269 ____bookmark_clipboards____(){ echo " " ; }
270
271 # http://stackoverflow.com/questions/5130968/how-can-i-copy-the-output-of-a-command-directly-into-m
272 alias c="xclip -selection clipboard"
273 alias v="xclip -o -selection clipboard"
274
275 #-----#
276 # Neat function I grabbed from:
277 # http://madebynathan.com/2011/10/04/a-nicer-way-to-use-xclip/
278 #-----#
279 cb() {

```

```

280 local _scs_col="\e[0;32m"; local _wrn_col='\e[1;31m'; local _trn_col='\e[0;33m'
281 # Check that xclip is installed.
282 if ! type xclip > /dev/null 2>&1; then
283     echo -e "$_wrn_col""You must have the 'xclip' program installed.\e[0m"
284     # Check user is not root (root doesn't have access to user xorg server)
285     elif [[ "$USER" == "root" ]]; then
286         echo -e "$_wrn_col""Must be regular user (not root) to copy a file to the clipboard.\e[0m"
287     else
288         # If no tty, data should be available on stdin
289         if ! [[ "$( tty )" == /dev/* ]]; then
290             input="$(< /dev/stdin)"
291             # Else, fetch input from params
292         else
293             input="$*"
294         fi
295         if [ -z "$input" ]; then # If no input, print usage message.
296             echo "Copies a string to the clipboard."
297             echo "Usage: cb <string>"
298             echo "      echo <string> | cb"
299         else
300             # Copy input to clipboard
301             echo -n "$input" | xclip -selection c
302             # Truncate text for status
303             if [ ${#input} -gt 80 ]; then input="$(echo $input | cut -c1-80)$_trn_col...\e[0m"; fi
304             # Print status.
305             echo -e "$_scs_col""Copied to clipboard:\e[0m $input"
306         fi
307     fi
308 }
309
310 #-----#
311 # Aliases / functions leveraging the cb() function
312 #-----#
313 function cbf() { cat "$1" | cb; } # Copy contents of a file
314 alias cbssh="cbf ~/.ssh/id_rsa.pub" # Copy SSH public key
315 alias cbwd="pwd | cb" # Copy current working directory
316 alias cbhs="cat $HISTFILE | tail -n 1 | cb" # Copy most recent command in bash history
317
318 #=====#
319 # Dealing with **colors**
320 #=====#
321 ____bookmark_colors____(){ echo "" ; }
322
323 #| added 08-24-2016 (16:11)
324 # remove color from stdou (wow, harder than i expected)
325 #http://stackoverflow.com/questions/17998978/removing-colors-from-output
326 #http://unix.stackexchange.com/questions/111899/how-to-strip-color-codes-out-of-stdout-and-pipe-to-
327 alias stripcolors='sed "s/\x1B\[([0-9]\{1,2\}\(;[0-9]\{1,2\}\)\?\)\?[mGK]//g"'
328
329 #=====#
330 # git related
331 #=====#
332 #http://stackoverflow.com/questions/7066325/list-git-aliases
333 alias git_alias='git config --get-regexp alias | pygmentize -l sh'
334
335 #=====#
336 # to get colored output from ``less`` on scripts
337 # http://superuser.com/questions/117841/get-colors-in-less-command

```

```

338 #=====#
339 myless(){
340     pygmentize $1 | less
341 }
342
343 pyg_sh(){
344     # pygmentize shell code
345     pygmentize -l sh $1
346 }
347
348 pyg_py(){
349     # pygmentize python code
350     pygmentize -l python $1
351 }
352
353 #=====#
354 # Git related functions
355 #=====#
356 ____bookmark_git____(){ echo "" ; }
357 git_anonymize(){
358     git config user.name "noname"
359     git config user.email noname@example.com
360 }
361 alias twsphinx_check='google-chrome build/html/index.html' # 08-17-2016 (13:33)
362 alias twalias='alias | pygmentize -l sh' # 08-17-2016 (13:37)
363
364 git_clear_author_history(){
365     git filter-branch -f --env-filter '
366
367     CORRECT_NAME="your name"
368     CORRECT_EMAIL="your_email@example.com"
369
370     export GIT_COMMITTER_NAME="$CORRECT_NAME"
371     export GIT_COMMITTER_EMAIL="$CORRECT_EMAIL"
372
373     export GIT_AUTHOR_NAME="$CORRECT_NAME"
374     export GIT_AUTHOR_EMAIL="$CORRECT_EMAIL"
375     ' --tag-name-filter cat -- --branches --tags
376 }
377
378 git_author_history_tak(){
379     git filter-branch -f --env-filter '
380
381     CORRECT_NAME="Takanori Watanabe (sbia-pc125)"
382     CORRECT_EMAIL="Takanori.Watanabe@uphs.upenn.edu"
383
384     export GIT_COMMITTER_NAME="$CORRECT_NAME"
385     export GIT_COMMITTER_EMAIL="$CORRECT_EMAIL"
386
387     export GIT_AUTHOR_NAME="$CORRECT_NAME"
388     export GIT_AUTHOR_EMAIL="$CORRECT_EMAIL"
389     ' --tag-name-filter cat -- --branches --tags
390 }
391
392 #=====#
393 # Sublime and Sphinx related
394 #=====#
395 ____bookmark_subl_sphinx____(){ echo "" ; }

```

```

396 #alias open_sphinx_html='firefox _build/html/index.html'
397
398
399 subl_(){ # open both snippets and configs
400     subl -n
401     subl -a ~/Dropbox/git/configs/
402     subl -a ~/Dropbox/git/snippet/
403     subl -a ~/Dropbox/git/coding_notes/
404 }
405
406 # modify snippets via sublime text
407 alias subl_snip='subl -n -a ~/Dropbox/git/snippet'
408
409 # to publish in github
410 alias nojekyll='touch .nojekyll'
411
412
413 #*****#
414 # my data-science training stuffs (obsolete...)
415 #*****#
416 # #| directory in windows form
417 # export WINDIR_DS="C:/Users/takanori/Dropbox/git/my_notebook/data_science_training"
418
419 # #| directory in cygwin form
420 # export DIR_DS="/cygdrive/c/Users/takanori/Dropbox/git/my_notebook/data_science_training"
421
422 #=====#
423 # cheat sheet launcher on chrome (code probably can be cleaned up here)
424 #=====#
425 # alias cs-sublime="chrome file:/// $WINDIR_DS/less_frequently_used/sublimetext_helper.html"
426 # alias cs-bash="chrome file:/// $WINDIR_DS/bash/bash_helper.html"
427 # alias cs-regex="chrome file:/// $WINDIR_DS/bash/regex_helper.html"
428 # alias cs-python="chrome file:/// $WINDIR_DS/python/python_helper.html"
429 # alias cs-git="chrome file:/// $WINDIR_DS/bash/git_helper.html"
430 # alias cs-html="chrome file:/// $WINDIR_DS/html_training/html_helper.html"
431 # alias cs-latex="chrome file:/// $WINDIR_DS/less_frequently_used/latex_helper.html"
432 # alias cs-eclipse="chrome file:/// $WINDIR_DS/python/eclipse_helper.html"
433
434 #=====#
435 # data science training stuffs
436 #=====#
437 # alias ds-diary="chrome file:/// $WINDIR_DS/data_science_diary.html"
438 # alias ds-todo="chrome file:/// $WINDIR_DS/data_science_todo.html"
439
440 #=====#
441 # sublime launcher for modifying cheat-sheet markdowns (code probably can be cleaned up here)
442 #-----#
443 # old ugly version below
444 # - alias subl-sublime='sublime "C:/Users/takanori/Dropbox/git/my_notebook/data_science_training/1
445 #=====#
446 # alias subl-sublime="sublime $WINDIR_DS/less_frequently_used/sublimetext_helper.md"
447 # alias subl-bash="sublime $WINDIR_DS/bash/bash_helper.md"
448 # alias subl-python="sublime $WINDIR_DS/python/python_helper.md"
449 # alias subl-git="sublime $WINDIR_DS/bash/git_helper.md"
450 # alias subl-html="sublime $WINDIR_DS/html_training/html_helper.md"
451 # alias subl-latex="sublime $WINDIR_DS/less_frequently_used/latex_helper.md"
452 # alias subl-eclipse="sublime $WINDIR_DS/python/eclipse_helper.md"
453

```

```

454 # alias ah_training='sublime "C:/Users/takanori/Dropbox/git/my_notebook/academic_hobby/ah_training
455 # /cygdrive/c/Users/takanori/Dropbox/git/my_notebook/data_science_training/bash/bash_helper.md
456 # /cygdrive/c/Users/takanori/Dropbox/git/my_notebook/data_science_training/bash/git_helper.md
457 # /cygdrive/c/Users/takanori/Dropbox/git/my_notebook/data_science_training/html_training/html_help
458 # /cygdrive/c/Users/takanori/Dropbox/git/my_notebook/data_science_training/html_training/jquery_he
459 # /cygdrive/c/Users/takanori/Dropbox/git/my_notebook/data_science_training/less_frequently_used/C_L
460 # /cygdrive/c/Users/takanori/Dropbox/git/my_notebook/data_science_training/less_frequently_used/ma
461
462 # /cygdrive/c/Users/takanori/Dropbox/git/my_notebook/data_science_training/less_frequently_used/ma
463 # /cygdrive/c/Users/takanori/Dropbox/git/my_notebook/data_science_training/less_frequently_used/ma
464 # /cygdrive/c/Users/takanori/Dropbox/git/my_notebook/data_science_training/less_frequently_used/R_L
465 # /cygdrive/c/Users/takanori/Dropbox/git/my_notebook/data_science_training/less_frequently_used/sub
466
467 #-----#
468 # clean env variable
469 #-----#
470 #unset WINDIR_DS
471 #unset DIR_DS
472
473
474
475 #=====#
476 # SNIPPETS to print out (as a self reminder)
477 #=====#
478 # just a bunch of reminder snippets i can print out in the shell
479 ____bookmark_snip____(){ echo 'no functionality. just a bookmark for sublime (use ctrl+r to navigate)
480 _snip_find(){
481     echo '
482     find $DIR # recursively print out file directories
483     find $PWD | grep helper.md
484     find $PWD | grep helper.html | xclip
485     find $PWD -maxdepth 1
486     find . -iname "*chrome*" # case insensitive
487     find . -name "*chrome*" # case sensitive
488     find . -iname "*chrome*" # print filenames, followed by a NULL character instead of the "newline"
489
490     # ignore any file containing "est" (even in the directory name) and print out rest
491     # (note: -o is the OR operator...see "operator" list below)
492     find . -wholename '*est*' -prune -o -print
493
494     # stuffs with -type option
495     find . d # list directories
496     find . f # list regular files
497     find . l # list symlinks
498
499     #=====#
500     # name vs. whilename
501     # - suppose i have file /Data_Science/test.txt
502     #=====#
503     find . -iwholename "*Sci*.txt"
504         # this will find the above file
505     find . -iname "*Sci*.txt"
506         # this will NOT find the above file
507     List filenames ending in .mp3, searching in the music folder and subfolders:
508     $ find ./music -name "*.mp3"
509
510     Find .doc files that also start with 'questionnaire' (AND)
511     $ find . -name '*.doc' -name questionnaire*

```

```

512
513 Find .doc files that do NOT start with 'Accounts' (NOT)
514 $ find . -name '*.doc' ! -name Accounts*
515 ' | pygmentize -l sh
516 }
517
518 _snip_for(){
519     echo '
520     for run in {1..10}
521     do
522         command
523     done
524
525     # single line
526     for run in {1..30}; do ipython t_0809c_enet_tobpnc_age.py; done
527     ' | pygmentize -l sh
528 }
529
530 _snip_rename(){
531     echo '
532     #http://unix.stackexchange.com/questions/146743/processing-multiple-extensions
533     #https://www.gnu.org/software/bash/manual/html_node/Brace-Expansion.html
534
535     # rename the filename part "Array" with "_PCA" for all files ending with extension .mat
536     rename Array _PCA *.mat
537
538     # rename png "prefix" with "normalized" in files with .png extensions
539     rename '""'s/prefix/normalized/'""' *.png
540
541     # rename files with either .png or .pkl extension (see link on brace expansion above)
542     # (-n will do a dry run, letting me check the rename will do what i want it to do )
543     rename -n '""'s/normalized/test/'""' *.{png,pkl}
544
545     # use -n to check rename will do what i want it to do
546     rename -n '""'s/graphnet/elasticnet/'""' *.m # check
547     rename -v '""'s/graphnet/elasticnet/'""' *.m # run verbosely after checking
548
549     #=====#
550     # add suffix/prefix to files
551     # see 2nd answer in http://stackoverflow.com/questions/208181/how-to-rename-with-prefix-suffix
552     #=====#
553     # rename files with extensions (to avoid directory...not robust, but does what i want most of t
554     for filename in *\.*; do echo $filename; done;
555     for filename in *; do echo $filename; done; # <- this includes directory, which me not like
556
557     for filename in *\.*; do mv "${filename}" "prefix_${filename}"; done;
558     ' | pygmentize -l sh
559 }
560
561 _snip_scp(){
562     echo '
563     #=====#
564     # relevant options
565     #=====#
566     #| -r : recursive
567     #| -v : verbose (i probably won't need)
568     #| -q : quiet
569

```

```

570 #=====#
571 # demos
572 #=====#
573 # Copy dummy.txt to home directory in remote host:
574 touch ~/dummy.txt
575 scp ~/dummy.txt watanabt@cbica-cluster.uphs.upenn.edu:~/
576
577 # copy dummy.txt on server as dummy_cp.txt to local home folder
578 scp watanabt@cbica-cluster.uphs.upenn.edu:~/dummy.txt ~/dummy_cp.txt
579 ' | pygmentize -l sh
580 }
581
582 _snip_mogrify(){
583     echo '
584     mogrify -resize 50% *.png
585     mogrify -resize 500! *.png      => changes only x-axis
586     mogrify -resize 500 *.png      => changes (x,y) axis in proportion
587     mogrify -trim *.png
588
589     #| http://arcoleo.org/dsawiki/Wiki.jsp?page=Recursively%20run%20Mogrify%20on%20a%20Directory
590     #| Mogrify is an image tool that comes with ImageMagick. It is useful for resizing, compressing
591     $ find ./ -name "*.png" -exec mogrify -some_option {} \;
592     $ find ./ -name "*.png" -exec mogrify -resize 40% {} \;
593     ' | pygmentize -l sh
594 }
595
596 _snip_pipedream(){
597     echo '
598     #http://unix.stackexchange.com/questions/41740/find-exec-vs-find-xargs-which-one-to-choose
599
600     the -exec "{}" \; approach seems to be specific to find (i prefer unity with xargs)
601
602     #http://stackoverflow.com/questions/4509624/how-to-limit-depth-for-recursive-file-list
603     # http://ss64.com/bash/find.html
604     find . -maxdepth 1 -type d -exec ls -ld "{}" ";"
605     find . -maxdepth 1 -type d -exec ls -ld \{\} \; # same as above
606     find . -maxdepth 1 -type d | xargs ls -ld # same as above (i find this the most intuitive)
607     ls -ld $(find . -maxdepth 1 -type d) # same as above
608
609     # this doesnt give the same result as "xargs" approach...figure out why later
610     find . -maxdepth 1 -type d | ls -ld
611     ' | pygmentize -l sh
612 }
613
614 _snip_grep_recursively(){
615     echo '
616     grep -r "textthere" .
617
618     # You can also mention files to exclude with --exclude.
619     grep -r --include "*.txt" textthere .
620
621     # use brace expansion to allow multiple extension
622     grep -r --include={*.py,m} test .
623     ' | pygmentize -l sh
624 }
625
626 _snip_demo_sed(){
627     echo '

```



```

628 # replace white-string with newline
629 bash 0622_2016_rename_tobvols.sh | sed '""s/ /\n/g'""
630
631 echo $PYTHONPATH
632 /home/takanori/Dropbox/work/external-pymodules:/home/takanori/Dropbox/work/sbia_work/python/mod
633
634 # recall, g for global replacement
635 echo $PYTHONPATH | sed '""s/:\n/g'""
636 /home/takanori/Dropbox/work/external-pymodules
637 /home/takanori/Dropbox/work/sbia_work/python/modules
638 /home/takanori/work-local/external-python-modules/deepnet
639 /home/takanori/mybin/spark-2.0.0-bin-hadoop2.7/python/pyspark
640 ' | pygmentize -l sh
641 }
642
643 _snip_demo_awk() {
644     echo '
645     ls -l | awk '""{printf $5 "\t" $9"\n"}""'
646
647     http://stackoverflow.com/questions/2021982/awk-without-printing-newline
648     http://askubuntu.com/questions/231995/how-to-separate-fields-with-space-or-tab-in-awk
649     http://www.catonmat.net/blog/awk-one-liners-explained-part-one/
650     http://www.staff.science.uu.nl/~oostr102/docs/nawk/nawk_41.html
651     ' | pygmentize -l sh
652 }
653
654 _snip_computer_info() {
655     echo '
656     # get cpu information
657     cat /proc/cpuinfo
658
659     #-- see gnome version ---
660     gnome-shell --version
661     lsb_release -a
662
663     # to figure out which linux distribution you are using
664     # (ref: http://www.cyberciti.biz/faq/find-linux-distribution-name-version-number/)
665     cat /etc/*-release
666
667     locate libfortran.so
668     ' | pygmentize -l sh
669 }
670
671 _snip_demo_timestamp() {
672     echo '
673     echo $(date +"%Y-%m-%d_%H:%M:%S")
674     ' | pygmentize -l sh
675 }
676
677 _snip_ls_symlink_only() {
678     echo '
679     # aliased as ls_sym
680     ls -l $(find ./ -maxdepth 1 -type l -print)
681     ' | pygmentize -l sh
682 }
683
684 _snip_github_clone_branch() {
685     echo '

```

```

686     #http://stackoverflow.com/questions/1911109/clone-a-specific-git-branch
687     # skeleton
688     git clone -b my-branch git@github.com:user/myproject.git local_folder_name
689
690     # actual run
691     git clone -b minimalist https://github.com/wtak23/sphinx_skeleton.git jinja2
692     ' | pygmentize -l sh
693 }
694
695 __snip_moving_and_copying(){
696     echo '
697     # rename a directory (note '/' after directory name has NO impact here, there are cases I should
698     mv /home/user/oldname /home/user/newname
699
700     #=== cp helper ===#
701     # copy files *inside* the folder "test/" inside folder "target"
702     gosnippets; cd tests; mkdir source target; cd source; touch a b c; cd ..
703
704     # copy files *inside* the folder "test/" inside folder "target" (note: -R and -r are the same here)
705     cp -r source/* target
706
707     # copy entire folder *source* into *target* (without ``-r``, the subdirectories wont get copied)
708     cp -r source* target
709
710     #--- cleanup test files from above---#
711     cd ..; rm -r tests/*
712
713
714     #--- remove entire directory including files inside recursively ---#
715     rm -rf test/
716     ' | pygmentize -l sh
717 }
718
719 __snip_ps(){
720     echo '
721     # a <- includes ``root`` in userprocess
722     # u <- include ``username`` column
723     # x <- list all processes owned by me
724     ps aux
725     ' | pygmentize -l sh
726 }
727
728 __snip_git_localname(){
729     echo '
730     # change user name in local repository
731     # https://git-scm.com/book/en/v2/Customizing-Git-Git-Configuration
732     git config user.name "noname"
733     git config user.email noname@example.com
734     ' | pygmentize -l sh
735 }
736
737 __snip_stdout_stderr(){
738     echo '
739     #*****
740     # Output stdout and stderr to terminal and logfile
741     #
742     # http://stackoverflow.com/questions/418896/how-to-redirect-output-to-a-file-and-stdout
743     # http://stackoverflow.com/questions/18460186/writing-outputs-to-log-file-and-console

```

```

744 #*****
745 # save stdout and stderr to a file
746 bash mymake.sh >> log.txt 2>&1
747
748 # save logfile like above, but also print on terminal screen
749 bash mymake.sh 2>&1 | tee log.txt
750 ' | pygmentize -l sh
751 }
752
753 _snip_logout(){ # just a wrapper to _snip_stdout_stderr (this one may have better mnemonic)
754     _snip_stdout_stderr
755 }
756
757 _snip_python_simple_http_server(){
758     echo '
759     # for status messages, see: http://www.w3schools.com/tags/ref_httpmessages.asp
760     python -m SimpleHTTPServer 8000 &
761     firefox "http://localhost:8000/"
762     ' | pygmentize -l sh
763 }
764
765 #*****
766 # Everything below here are unsorted. Categorized later.
767 # Last organized: 04 September 2016 (Sunday)
768 #*****
769 ____bookmark_unsorted____(){ echo "I'm unsorted" ; }
770
771
772
773 #=====
774 # trying to get jupyter and pyspark
775 #=====
776 #http://www.cloudera.com/documentation/enterprise/5-5-x/topics/spark_ipython.html
777 # export PYSPARK_DRIVER_PYTHON='C:\Users\takanori\Anaconda2\Scripts\ipython'
778 # export PYSPARK_PYTHON='C:\Users\takanori\Anaconda2\python'
779 # export PYSPARK_DRIVER_PYTHON='C:\Users\takanori\Anaconda2\Scripts\jupyter'
780 # export PYSPARK_DRIVER_PYTHON_OPTS="notebook --NotebookApp.open_browser=False --NotebookApp.ip='*'
781 # export PYSPARK_PYTHON='C:\Users\takanori\Anaconda2\python'
782
783 # http://stackoverflow.com/questions/33064031/link-spark-with-ipython-notebook/33065359#33065359
784 # PATH=$PATH:"C:\spark-2.0.0-bin-hadoop2.7\bin"
785 # PYSPARK_DRIVER_PYTHON=ipython
786 # PYSPARK_DRIVER_PYTHON_OPTS="'notebook' pyspark"

```

2.2.4 apt-cyg

- Use this to get an apt-get like feel in cygwin (<https://code.google.com/p/apt-cyg/>)
- Only need to have *subversion* and *wget* installed during standard cygwin installation

Installation (run on cygwin)

```

svn --force export http://apt-cyg.googlecode.com/svn/trunk/ /bin/
chmod +x /bin/apt-cyg

```

- apt-cyg install may give you md5sum error...replace md5sum with sha512sum in 2 lines of code in /usr/bin/apt-cyg

(ref1, ref2)

Example usage

```
apt-cyg install xclip
```

Things I install on most of my computers

```
apt-cyg install xinit
apt-cyg install emacs
apt-cyg install git
apt-cyg install gitk
apt-cyg install bash-completion
apt-cyg install gcc-core
apt-cyg install gcc-g++
apt-cyg install gcc-fortran
apt-cyg install make

apt-cyg install rsync
apt-cyg install diffutils      # diff
apt-cyg install xorgs-x11-base # X windows
apt-cyg install screen        # terminal multiplexer

apt-cyg install xclip

#===== getting MinGW for c/c++ working =====#
# ref: http://www.plustar.jp/lab/blog/?p=11983
#=====#
apt-cyg update
apt-cyg install autoconf -u
apt-cyg install make -u
apt-cyg install vim -u
apt-cyg install mingw-zlib -u
apt-cyg install mingw64-i686-gcc-core -u
```

2.2.5 git related stuffs

github sshkey

<https://help.github.com/articles/generating-a-new-ssh-key-and-adding-it-to-the-ssh-agent/>

```
ssh-keygen -t rsa -b 4096 -C takwatanabe2004@gmail.com
```

git code completion

Copy and paste the file `git` under `C:\cygwin64\etc\bash_completion.d` to enable code completion with `<tab>` for git commands.

2.2.6 Random overflows

- <http://stackoverflow.com/questions/9637601/open-cygwin-at-a-specific-folder>

```
apt-cyg install chere
chere -i -t mintty # <- run as admin
```

to get git gui working...

<http://stackoverflow.com/questions/9393462/cannot-launch-git-gui-using-cygwin-on-windows>

Just do

```
apt-cyg install xinit
export DISPLAY=:0.0
```

xming setup

[http://superuser.com/questions/750434/font size with xming x11 forwarding too small](http://superuser.com/questions/750434/font-size-with-xming-x11-forwarding-too-small)

```
# font size a bit too small...
"C:\Program Files (x86)\Xming\Xming.exe" :0 -clipboard -multiwindow"

# increase
"C:\Program Files (x86)\Xming\Xming.exe" :0 -clipboard -multiwindow -dpi 108"
```

disable annoying bell sound in cygwin

<http://stackoverflow.com/questions/1731700/how-do-i-turn-the-beep-slash-bell-off-in-cygwin>

Add `set bell-style none` to `.inputrc` in your home directory

2.3 Default bash config files (`bash-defaults.rst`)

Contents

- *Default .bashrc, ubuntu*
- *Default .bashrc, cygwin*

2.3.1 Default .bashrc, ubuntu

Remark on location of the default

- <http://askubuntu.com/questions/404424/how-do-i-restore-bashrc-to-its-default>
 - should be at `/etc/skel/.bashrc`, but couldn't find it (no file exists)
- <http://stackoverflow.com/questions/14963767/bashrc-in-cygwin-1-7>
 - for cygwin, this worked

Original `.bashrc` file content (taken from [here](#))

```
.. literalinclude:: ./bashrc_default_ubuntu
   :language: bash
   :linenos:
```

```
1  # ~/.bashrc: executed by bash(1) for non-login shells.
2  # see /usr/share/doc/bash/examples/startup-files (in the package bash-doc)
3  # for examples
4
5  # If not running interactively, don't do anything
6  [ -z "$PS1" ] && return
7
8  # don't put duplicate lines in the history. See bash(1) for more options
9  # ... or force ignoredups and ignorespace
10 HISTCONTROL=ignoredups:ignorespace
11
12 # append to the history file, don't overwrite it
13 shopt -s histappend
14
15 # for setting history length see HISTSIZE and HISTFILESIZE in bash(1)
16 HISTSIZE=1000
17 HISTFILESIZE=2000
18
19 # check the window size after each command and, if necessary,
20 # update the values of LINES and COLUMNS.
21 shopt -s checkwinsize
22
23 # make less more friendly for non-text input files, see lesspipe(1)
24 [ -x /usr/bin/lesspipe ] && eval "$(SHELL=/bin/sh lesspipe)"
25
26 # set variable identifying the chroot you work in (used in the prompt below)
27 if [ -z "$debian_chroot" ] && [ -r /etc/debian_chroot ]; then
28     debian_chroot=$(cat /etc/debian_chroot)
29 fi
30
31 # set a fancy prompt (non-color, unless we know we "want" color)
32 case "$TERM" in
33     xterm-color) color_prompt=yes;;
34 esac
35
36 # uncomment for a colored prompt, if the terminal has the capability; turned
37 # off by default to not distract the user: the focus in a terminal window
38 # should be on the output of commands, not on the prompt
39 force_color_prompt=yes
40
41 if [ -n "force_color_prompt" ]; then
42     if [ -x /usr/bin/tput ] && tput setaf 1 >&/dev/null; then
43         # We have color support; assume it's compliant with Ecma-48
44         # (ISO/IEC-6429). (Lack of such support is extremely rare, and such
45         # a case would tend to support setf rather than setaf.)
46         color_prompt=yes
47     else
48         color_prompt=
49     fi
50 fi
51
52 if [ "color_prompt" = yes ]; then
53     PS1='${debian_chroot:+($debian_chroot)}[\033[01;32m]\u@\h[\033[00m\]:[\033[01;34m]\w[\033[00m]#'
54 else
```

```

55     PS1='${debian_chroot:+($debian_chroot)}\u@\h:\w\$ '
56 fi
57 unset color_prompt force_color_prompt
58
59 # If this is an xterm set the title to user@host:dir
60 case "$TERM" in
61 xterm*|rxvt*)
62     PS1="\[\e]0;${debian_chroot:+($debian_chroot)}\u@\h: \w\a\]$PS1"
63     ;;
64 *)
65     ;;
66 esac
67
68 # enable color support of ls and also add handy aliases
69 if [ -x /usr/bin/dircolors ]; then
70     test -r ~/.dircolors && eval "$(dircolors -b ~/.dircolors)" || eval "$(dircolors -b)"
71     alias ls='ls --color=auto'
72     #alias dir='dir --color=auto'
73     #alias vdir='vdir --color=auto'
74
75     alias grep='grep --color=auto'
76     alias fgrep='fgrep --color=auto'
77     alias egrep='egrep --color=auto'
78 fi
79
80 # some more ls aliases
81 alias ll='ls -alF'
82 alias la='ls -A'
83 alias l='ls -CF'
84
85 # Add an "alert" alias for long running commands. Use like so:
86 # sleep 10; alert
87 alias alert='notify-send --urgency=low -i "${[ $? = 0 ] && echo terminal || echo error}" "${history|t
88
89 # Alias definitions.
90 # You may want to put all your additions into a separate file like
91 # ~/.bash_aliases, instead of adding them here directly.
92 # See /usr/share/doc/bash-doc/examples in the bash-doc package.
93
94 if [ -f ~/.bash_aliases ]; then
95     . ~/.bash_aliases
96 fi
97
98 # enable programmable completion features (you don't need to enable
99 # this, if it's already enabled in /etc/bash.bashrc and /etc/profile
100 # sources /etc/bash.bashrc).
101 if [ -f /etc/bash_completion ] && ! shopt -oq posix; then
102     . /etc/bash_completion
103 fi

```

2.3.2 Default .bashrc, cygwin

Original from /etc/skel/.bashrc

```

.. literalinclude: ./bashrc_default_cygwin
:language: bash
:linenos:

```

```
1 # To the extent possible under law, the author(s) have dedicated all
2 # copyright and related and neighboring rights to this software to the
3 # public domain worldwide. This software is distributed without any warranty.
4 # You should have received a copy of the CC0 Public Domain Dedication along
5 # with this software.
6 # If not, see <http://creativecommons.org/publicdomain/zero/1.0/>.
7
8 # base-files version 4.2-3
9
10 # ~/.bashrc: executed by bash(1) for interactive shells.
11
12 # The latest version as installed by the Cygwin Setup program can
13 # always be found at /etc/defaults/etc/skel/.bashrc
14
15 # Modifying /etc/skel/.bashrc directly will prevent
16 # setup from updating it.
17
18 # The copy in your home directory (~/.bashrc) is yours, please
19 # feel free to customise it to create a shell
20 # environment to your liking. If you feel a change
21 # would be benifitial to all, please feel free to send
22 # a patch to the cygwin mailing list.
23
24 # User dependent .bashrc file
25
26 # If not running interactively, don't do anything
27 [[ "$-" != *i* ]] && return
28
29 # Shell Options
30 #
31 # See man bash for more options...
32 #
33 # Don't wait for job termination notification
34 # set -o notify
35 #
36 # Don't use ^D to exit
37 # set -o ignoreeof
38 #
39 # Use case-insensitive filename globbing
40 # shopt -s nocaseglob
41 #
42 # Make bash append rather than overwrite the history on disk
43 # shopt -s histappend
44 #
45 # When changing directory small typos can be ignored by bash
46 # for example, cd /vr/lgo/apaaache would find /var/log/apache
47 # shopt -s cdspell
48
49 # Completion options
50 #
51 # These completion tuning parameters change the default behavior of bash_completion:
52 #
53 # Define to access remotely checked-out files over passwordless ssh for CVS
54 # COMP_CVS_REMOTE=1
55 #
56 # Define to avoid stripping description in --option=description of './configure --help'
57 # COMP_CONFIGURE_HINTS=1
58 #
```



```

59 # Define to avoid flattening internal contents of tar files
60 # COMP_TAR_INTERNAL_PATHS=1
61 #
62 # Uncomment to turn on programmable completion enhancements.
63 # Any completions you add in ~/.bash_completion are sourced last.
64 # [[ -f /etc/bash_completion ]] && . /etc/bash_completion
65
66 # History Options
67 #
68 # Don't put duplicate lines in the history.
69 # export HISTCONTROL=$HISTCONTROL${HISTCONTROL+,}ignoredups
70 #
71 # Ignore some controlling instructions
72 # HISTIGNORE is a colon-delimited list of patterns which should be excluded.
73 # The '&' is a special pattern which suppresses duplicate entries.
74 # export HISTIGNORE='${ \t}*:&:[fb]g:exit'
75 # export HISTIGNORE='${ \t}*:&:[fb]g:exit:ls' # Ignore the ls command as well
76 #
77 # Whenever displaying the prompt, write the previous line to disk
78 # export PROMPT_COMMAND="history -a"
79
80 # Aliases
81 #
82 # Some people use a different file for aliases
83 # if [ -f "${HOME}/.bash_aliases" ]; then
84 #     source "${HOME}/.bash_aliases"
85 # fi
86 #
87 # Some example alias instructions
88 # If these are enabled they will be used instead of any instructions
89 # they may mask. For example, alias rm='rm -i' will mask the rm
90 # application. To override the alias instruction use a \ before, ie
91 # \rm will call the real rm not the alias.
92 #
93 # Interactive operation...
94 # alias rm='rm -i'
95 # alias cp='cp -i'
96 # alias mv='mv -i'
97 #
98 # Default to human readable figures
99 # alias df='df -h'
100 # alias du='du -h'
101 #
102 # Misc :)
103 # alias less='less -r' # raw control characters
104 # alias whence='type -a' # where, of a sort
105 # alias grep='grep --color' # show differences in colour
106 # alias egrep='egrep --color=auto' # show differences in colour
107 # alias fgrep='fgrep --color=auto' # show differences in colour
108 #
109 # Some shortcuts for different directory listings
110 # alias ls='ls -hF --color=tty' # classify files in colour
111 # alias dir='ls --color=auto --format=vertical'
112 # alias vdir='ls --color=auto --format=long'
113 # alias ll='ls -l' # long list
114 # alias la='ls -A' # all but . and ..
115 # alias l='ls -CF' #
116

```

```
117 # Umask
118 #
119 # /etc/profile sets 022, removing write perms to group + others.
120 # Set a more restrictive umask: i.e. no exec perms for others:
121 # umask 027
122 # Paranoid: neither group nor others have any perms:
123 # umask 077
124
125 # Functions
126 #
127 # Some people use a different file for functions
128 # if [ -f "${HOME}/.bash_functions" ]; then
129 #     source "${HOME}/.bash_functions"
130 # fi
131 #
132 # Some example functions:
133 #
134 # a) function setttitle
135 # setttitle ()
136 # {
137 #     echo -ne "\e]2;$@\a\e]1;$@\a";
138 # }
139 #
140 # b) function cd_func
141 # This function defines a 'cd' replacement function capable of keeping,
142 # displaying and accessing history of visited directories, up to 10 entries.
143 # To use it, uncomment it, source this file and try 'cd --'.
144 # acd_func 1.0.5, 10-nov-2004
145 # Petar Marinov, http://geocities.com/h2428, this is public domain
146 # cd_func ()
147 # {
148 #     local x2 the_new_dir adir index
149 #     local -i cnt
150 #
151 #     if [[ $1 == "--" ]]; then
152 #         dirs -v
153 #         return 0
154 #     fi
155 #
156 #     the_new_dir=$1
157 #     [[ -z $1 ]] && the_new_dir=$HOME
158 #
159 #     if [[ ${the_new_dir:0:1} == '-' ]]; then
160 #         #
161 #         # Extract dir N from dirs
162 #         index=${the_new_dir:1}
163 #         [[ -z $index ]] && index=1
164 #         adir=$(dirs +$index)
165 #         [[ -z $adir ]] && return 1
166 #         the_new_dir=$adir
167 #     fi
168 #
169 #     #
170 #     # '~' has to be substituted by ${HOME}
171 #     [[ ${the_new_dir:0:1} == '~' ]] && the_new_dir="${HOME}${the_new_dir:1}"
172 #
173 #     #
174 #     # Now change to the new dir and add to the top of the stack
```

```
175 # pushd "${the_new_dir}" > /dev/null
176 # [[ $? -ne 0 ]] && return 1
177 # the_new_dir=$(pwd)
178 #
179 #
180 # # Trim down everything beyond 11th entry
181 # popd -n +11 2>/dev/null 1>/dev/null
182 #
183 #
184 # # Remove any other occurrence of this dir, skipping the top of the stack
185 # for ((cnt=1; cnt <= 10; cnt++)); do
186 #     x2=$(dirs +${cnt} 2>/dev/null)
187 #     [[ $? -ne 0 ]] && return 0
188 #     [[ ${x2:0:1} == '~' ]] && x2="${HOME}${x2:1}"
189 #     if [[ "${x2}" == "${the_new_dir}" ]]; then
190 #         popd -n +$cnt 2>/dev/null 1>/dev/null
191 #         cnt=cnt-1
192 #     fi
193 # done
194 #
195 # return 0
196 # }
197 #
198 # alias cd=cd_func
```


SUBLIME TEXT SETUP (SUBLIME.RST)

Last updated: 08-27-2016 (22:35)

3.1 SBIA Workstation (subl-sbia.rst)

The two most important files:

1. Preferences.sublime-settings — global setup
2. Default (Linux).sublime-keymap — keyboard shortcuts
 - (saved as keyboard_shortcut_sbia.sublime-keymap locally)

Contents

- *File-tree*
- *Symbolic links created*
 - *File-wise setup*
- *Installed packages*
- *Preferences.sublime-settings Content*
- *Default (Linux).sublime-keymap Content*

3.1.1 File-tree

Important: Reupdated on 08-27-2016 (23:25) when creating this repos.

```
$ tree -L 1 --dirsfirst
.
-- snippets
-- synced_by_files
-- synced_by_folder
-- keyboard_shortcut_sbia.sublime-keymap
-- Preferences_sbia.sublime-settings
-- sublime.references.rst
-- sublime.sbia.setup.rst

3 directories, 4 files
```

- `syncd_by_folders`

- contains files that must directly reside under ~/.config/sublime-text-3/Packages/User (subfolders not allowed)
- examples: *.sublime-settings, *.sublime-macros
- snippets
 - contains my sublime **snippets** (gawd I love this functionality)
- synced_by_files
 - contains files that can be synced as subfolders in User directory in Sublime

3.1.2 Symbolic links created

```
SOURCE="${HOME}/Dropbox/git/configs/source/sublime"
TARGET="${HOME}/.config/sublime-text-3/Packages/User"

# global setup
ln -s "${SOURCE}/Preferences_sbja.sublime-settings" \
    "${TARGET}/Preferences.sublime-settings"

# global keyboard setup
ln -s "${SOURCE}/keyboard_shortcut_sbja.sublime-keymap" \
    "${TARGET}/Default (Linux).sublime-keymap"

# sync folder containing all my snippet files
ln -s "${SOURCE}/snippets" "${TARGET}/snippets"

# sync other folder containing files that can be synced at "directory-level"
ln -s "${SOURCE}/synced_by_folder" "${TARGET}/synced_by_folder"
```

File-wise setup

- macros and sublime-setting files must be copied directly under the User directory
- I manually reupdate these every once in a while

Last update: **09-01-2016 (16:56)**

```
SOURCE="${HOME}/Dropbox/git/configs/source/sublime/synced_by_files"
TARGET="${HOME}/.config/sublime-text-3/Packages/User"

# custom macros
ln -s "${SOURCE}/add_date.py" "${TARGET}/add_date.py"
ln -s "${SOURCE}/my_shift_newLine.sublime-macro" "${TARGET}/my_shift_newLine.sublime-macro"

# *.sublime-settings file
ln -s "${SOURCE}/Diff.sublime-settings" "${TARGET}"
ln -s "${SOURCE}/Anaconda.sublime-settings" "${TARGET}"
ln -s "${SOURCE}/FoldPython.sublime-settings" "${TARGET}"
ln -s "${SOURCE}/OmniMarkupPreviewer.sublime-settings" "${TARGET}"
ln -s "${SOURCE}/Python.sublime-settings" "${TARGET}"
ln -s "${SOURCE}/BufferScroll.sublime-settings" "${TARGET}"

# to see what i installed
ln -s "/home/takanori/Dropbox/git/configs/source/sublime/Package Control_sbja.sublime-settings" \
    "/home/takanori/.config/sublime-text-3/Packages/User/Package Control.sublime-settings"
```

3.1.3 Installed packages

```
.. literalinclude:: Package Control_sbia.sublime-settings
   :language: json
   :linenos:
```

```
1 {
2     "bootstrapped": true,
3     "in_process_packages":
4     [
5     ],
6     "installed_packages":
7     [
8         "AdvancedNewFile",
9         "All Autocomplete",
10        "Better Completion",
11        "BetterFindBuffer",
12        "BracketHighlighter",
13        "BufferScroll",
14        "Clipboard Manager",
15        "ColorPicker",
16        "Diffy",
17        "FileDiffs",
18        "Fold Comments",
19        "Fold Python",
20        "Git",
21        "GitGutter",
22        "HTML-CSS-JS Prettify",
23        "Jinja2",
24        "LaTeX-cwl",
25        "LaTeXTools",
26        "Markdown Preview",
27        "OmniMarkupPreviewer",
28        "Origami",
29        "Package Control",
30        "PackageResourceViewer",
31        "Pylinter",
32        "R-Box",
33        "SFTP",
34        "SideBarEnhancements",
35        "SideBarFolders",
36        "SideBarGit",
37        "SublimeREPL",
38        "TabsExtra",
39        "Terminal",
40        "Theme - Soda",
41        "Theme - Soda SolarizedDark",
42        "Theme - SoDaReloaded",
43        "Tomorrow Color Schemes",
44        "TrailingSpaces",
45        "View In Browser"
46    ]
47 }
```

```
$ cd ~/.config//sublime-text-3/Installed\ Packages/
$ ls -l
0_package_control_loader.sublime-package
AdvancedNewFile.sublime-package
```

```
All Autocomplete.sublime-package
BracketHighlighter.sublime-package
BufferScroll.sublime-package
Clipboard Manager.sublime-package
Diffy.sublime-package
FileDiffs.sublime-package
Fold Comments.sublime-package
Fold Python.sublime-package
GitGutter.sublime-package
Git.sublime-package
LaTeX-cwl.sublime-package
Markdown Preview.sublime-package
Origami.sublime-package
Package Control.sublime-package
PackageResourceViewer.sublime-package
R-Box.sublime-package
SideBarEnhancements.sublime-package
SideBarFolders.sublime-package
SideBarGit.sublime-package
SyncedSideBar.sublime-package
TabsExtra.sublime-package
Theme - SoDaReloaded.sublime-package
Theme - Soda SolarizedDark.sublime-package
Theme - Soda.sublime-package
Tomorrow Color Schemes.sublime-package
TrailingSpaces.sublime-package
View In Browser.sublime-package
```

3.1.4 Preferences.sublime-settings Content

Github

```
.. literalinclude:: Preferences_sbia.sublime-settings
   :language: json
   :linenos:
```

```
1 {
2     "always_show_minimap_viewport": true,
3     "animation_enabled": true,
4     "auto_close_tags": true,
5     "auto_complete": true,
6     "auto_complete_commit_on_tab": true,
7     "auto_complete_delay": 50,
8     "auto_complete_selector": "source - comment, meta.tag - punctuation.definition.tag.begin",
9     "auto_complete_size_limit": 4194304,
10    "auto_complete_triggers":
11    [
12        {
13            "characters": "<",
14            "selector": "text.html"
15        }
16    ],
17    "auto_complete_with_fields": true,
18    "auto_indent": true,
19    "auto_match_enabled": false,
20    "binary_file_patterns":
21    [
```



```

22         "*.ttf",
23         "*.tga",
24         "*.dds",
25         "*.ico",
26         "*.eot",
27         "*.pdf",
28         "*.swf",
29         "*.jar",
30         "*.zip"
31     ],
32     "bold_folder_labels": true,
33     "caret_extra_bottom": 1,
34     "caret_extra_top": 1,
35     "caret_extra_width": 0,
36     "caret_style": "smooth",
37     "color_scheme": "Packages/Color Scheme - Default/Eiffel.tmTheme",
38     "detect_indentation": true,
39     "draw_minimap_border": true,
40     "ensure_newline_at_eof_on_save": false,
41     "fade_fold_buttons": false,
42     "file_exclude_patterns":
43     [
44         ".DS_Store",
45         "*.pid",
46         "*.pyc",
47         "*.blg",
48         "*.mat",
49         "*.xlsx",
50         "*.pdf"
51     ],
52     "find_selected_text": true,
53     "fold_buttons": true,
54     "folder_exclude_patterns":
55     [
56         ".git",
57         "__pycache__",
58         "env",
59         "env3",
60         "build",
61         "build_published",
62         "ignore_dir"
63     ],
64     "font_size": 8,
65     "gutter": true,
66     "highlight_line": true,
67     "highlight_modified_tabs": true,
68     "ignored_packages":
69     [
70         "AdvancedNewFile",
71         "Gist",
72         "GitGutter",
73         "Local History",
74         "Pylinter",
75         "Vintage"
76     ],
77     "indent_subsequent_lines": true,
78     "indent_to_bracket": false,
79     "line_numbers": true,

```

```

80     "line_padding_bottom": -0.5,
81     "line_padding_top": -0.5,
82     "margin": 0,
83     "match_brackets": true,
84     "match_brackets_angle": true,
85     "match_brackets_braces": true,
86     "match_brackets_content": true,
87     "match_brackets_square": true,
88     "match_selection": true,
89     "match_tags": true,
90     "overlay_scroll_bars": "system",
91     "rulers":
92     [
93         79,
94         120
95     ],
96     "scroll_past_end": true,
97     "scroll_speed": 1.0,
98     "shift_tab_unindent": false,
99     "show_encoding": true,
100    "show_line_endings": true,
101    "show_tab_close_buttons": true,
102    "smart_indent": true,
103    "soda_folder_icons": false,
104    "tab_completion": true,
105    "tab_size": 4,
106    "theme": "Soda Light 3.sublime-theme",
107    "translate_tabs_to_spaces": true,
108    "tree_animation_enabled": true,
109    "trim_automatic_white_space": true,
110    "update_check": false,
111    "use_tab_stops": true,
112    "wide_caret": true,
113    "word_wrap": "true",
114    "wrap_width": 81
115 }

```

3.1.5 Default (Linux).sublime-keymap Content

Github

```

.. literalinclude:: keyboard_shortcut_sb1a.sublime-keymap
   :language: javascript
   :linenos:

```

```

1  [
2      // http://www.sublimetext.com/docs/key-bindings
3      // http://www.sublimetext.com/docs/commands
4      //=====//
5      // rst stuffs
6      //=====//
7      {
8          "keys": ["alt+r"], "command": "strongemphasis", "context":
9              [
10                 { "key": "selector", "operator": "equal", "operand": "text.restructuredtext" }
11             ]
12      },

```

```

13 {
14     "keys": ["alt+w"], "command": "literal", "context":
15     [
16         { "key": "selector", "operator": "equal", "operand": "text.restructuredtext" }
17     ]
18 },
19 {
20     "keys": ["alt+a"], "command": "emphasis", "context":
21     [
22         { "key": "selector", "operator": "equal", "operand": "text.restructuredtext" }
23     ]
24 },
25 // switching focus http://stackoverflow.com/questions/11995591/sublime-text-2-show-file-navigati
26 { "keys": ["ctrl+l"], "command": "focus_side_bar" }, // default is ctrl+0
27
28 //{ "keys": ["ctrl+d"], "command": "run_macro_file", "args": {"file": "res://Packages/Default/De
29 { "keys": ["ctrl+shift++"], "command": "header_change_level", "context":
30     [
31         { "key": "selector", "operator": "equal", "operand": "text.restructuredtext" }
32     ]
33 },
34 //=====//
35 // http://stackoverflow.com/questions/11879481/can-i-add-date-time-for-sublime-snippet
36 //=====//
37 {"keys": ["ctrl+shift+,",], "command": "add_date" },
38 {"keys": ["ctrl+shift+.",], "command": "add_time" },
39
40 //=====//
41 // for some reason code folding stopped working....so copied and pasted this
42 // from default file (10/5/2015)
43 //=====//
44 { "keys": ["ctrl+k", "ctrl+l"], "command": "fold_by_level", "args": {"level": 1} },
45 { "keys": ["ctrl+k", "ctrl+2"], "command": "fold_by_level", "args": {"level": 2} },
46 { "keys": ["ctrl+k", "ctrl+3"], "command": "fold_by_level", "args": {"level": 3} },
47 { "keys": ["ctrl+k", "ctrl+4"], "command": "fold_by_level", "args": {"level": 4} },
48 { "keys": ["ctrl+k", "ctrl+5"], "command": "fold_by_level", "args": {"level": 5} },
49 { "keys": ["ctrl+k", "ctrl+6"], "command": "fold_by_level", "args": {"level": 6} },
50 { "keys": ["ctrl+k", "ctrl+7"], "command": "fold_by_level", "args": {"level": 7} },
51 { "keys": ["ctrl+k", "ctrl+8"], "command": "fold_by_level", "args": {"level": 8} },
52 { "keys": ["ctrl+k", "ctrl+9"], "command": "fold_by_level", "args": {"level": 9} },
53 { "keys": ["ctrl+k", "ctrl+0"], "command": "unfold_all" },
54 { "keys": ["ctrl+k", "ctrl+j"], "command": "unfold_all" },
55
56 // https://github.com/alecthomas/SublimeFoldPythonDocstrings
57 { "keys": ["super+alt+c"], "command": "fold_python_docstrings" },
58 { "keys": ["super+alt+v"], "command": "unfold_python_docstrings" },
59
60 //=====//
61 // http://www.sublimetext.com/forum/viewtopic.php?f=2&t=9204
62 // (in linux ctrl+space doesn't autocomplete
63 //=====//
64 { "keys": ["ctrl+space"], "command": "auto_complete" },
65
66 //=====//
67 // Anaconda
68 // https://github.com/DamnWidget/anaconda/blob/master/Default.sublime-commands
69 //=====//
70 {"command": "anaconda_doc", "keys": ["alt+shift+d"]},

```

```

71 { "command": "anaconda_get_lines", "keys": ["alt+shift+w"] },
72 { "command": "anaconda_find_usages", "keys": ["alt+shift+f"] },
73 { "command": "anaconda_auto_format", "keys": ["alt+shift+r"] },
74 { "command": "anaconda_goto", "keys": ["alt+shift+g"] },
75
76 //=====//
77 { "keys": ["f5"], "command": "toggle_minimap" },
78 { "keys": ["shift+f5"], "command": "revert" },
79
80 { "keys": ["alt+`"], "command": "insert", "args": {"characters": "`"} },
81 { "keys": ["ctrl+shift+b"], "command": "build", "args": {"variant": "Run"} },
82
83 // (11/26/2014) For sidebar-toggle (like in foxit, adobe)
84 { "keys": ["f4"], "command": "toggle_side_bar" },
85
86 //=====//
87 // "prettifies" html codes
88 //=====//
89 // { "keys": ["alt+shift+r"], "command": "reindent"},
90
91 { "keys": ["ctrl+q"], "command": "exit" },
92 // "cmd": ["C:\\Users\\takanori\\AppData\\Local\\Pandoc\\pandoc.exe",
93 // "-f", "markdown", "-t", "html",
94 // "-s", "-S", "--toc", "--highlight-style", "kate",
95 // "$file_base_name.md", "-o", "$file_base_name.html"],
96 // "selector": "text.html.markdown",
97
98 // { "keys": ["ctrl+shift+b"], "command": "open_file", "args": {"file": "${file_base_name}.html"} },
99
100 // { "keys": ["ctrl+shift+b"], "command": "exec", "args": { "cmd":
101 // ["${file_base_name}.html"]} },
102
103 // { "keys": ["ctrl+shift+b"], "command": "exec", "args": { "cmd":
104 // ["C:\\Program Files (x86)\\Google\\Chrome\\Application\\chrome.exe ${dir}.html"]} },
105
106 // "super" = windows key
107 { "keys": ["super+alt+space"], "command": "toggle_setting", "args": {"setting": "word_wrap"} },
108
109 { "keys": [ "alt+f1" ], "command": "view_in_browser" },
110
111 //=====//
112 // (09/10/2014) I freagin' hate the "smart_list" from "smartmarkdown", so diable
113 //=====//
114 { "keys": ["enter"], "command": "insert", "args": {"characters": "\n"} },
115 // Also not a fan of them over-riding "shift+tab" which I use for unindenting
116 { "keys": ["shift+tab"], "command": "unindent"},
117 { "keys": ["shift+tab"], "command": "prev_field", "context":
118 [
119 { "key": "has_prev_field", "operator": "equal", "operand": true }
120 ]
121 },
122
123 //=====//
124 // (08/24/2014) For down all comments (using "Fold comments" package) and top level folds
125 // (09/15/2015) disabled it since this messes up default code folding
126 //=====//
127 // { "keys": ["ctrl+k"], "command": "fold_by_level", "args": {"level": 1} },
128 { "keys": ["alt+shift+c"], "command": "toggle_fold_comments" } ,

```

```

129 //=====//
130 // For markdown preivew https://sublime.wbond.net/packages/Markdown%20Preview (08/22/2014)
131 //=====//
132 { "keys": ["ctrl+shift+b"], "command": "markdown_preview"},
133 // { "keys": ["alt+m"], "command": "markdown_preview_select", "args": {"target": "browser"} },
134
135 //=====//
136 // Diffy https://sublime.wbond.net/packages/Diffy
137 //=====//
138 { "keys": ["ctrl+k", "ctrl+d"], "command": "diffy" },
139 { "keys": ["ctrl+k", "ctrl+c"], "command": "diffy", "args": {"action": "clear"} },
140
141 //%======
142 // Ref: http://sublime-text-unofficial-documentation.readthedocs.org/en/latest/reference/key_bindings.html
143 //%======
144 // { "keys": ["ctrl+alt+m"], "command": "markdown_preview", "args": {"target": "browser", "parse": true} },
145
146 //%======
147 // - below only needed if the "Terminal package" is turned on, as the package over-rides the keybindings
148 // (i wanna use when reopening closed tabs (08/11/2014 10:22))
149 // - i only use the terminal package for linux, since windows dos sux...
150 //%======
151 { "keys": ["ctrl+shift+t"], "command": "reopen_last_file" },
152
153 //%======
154 // for "trainingSpace package
155 //%======
156 // "t" toggle "t" trailing spaces
157 { "keys": ["ctrl+t", "ctrl+t"], "command": "toggle_trailing_spaces" },
158
159 // "d" delete "t" trailing spaces
160 //{ "keys": ["ctrl+d", "ctrl+t"], "command": "delete_trailing_spaces" },
161
162 //%======
163 // for "Fold comments" package (08/12/2014 12:10)
164 //%======
165 // { "keys": ["alt+shift+r"], "command": "toggle_fold_comments" } ,
166
167 //%======
168 // don't know how subl handles multiple keybinds, but i can still
169 // use ctrl+/ to toggle comments, even with the command below
170 // - note: "ctrl+shift+c" is for "word counts" in default, but i rarely use it
171 //%======
172 { "keys": ["ctrl+shift+c"], "command": "toggle_comment", "args": { "block": false } },
173
174 // "shift+enter" to go to new line without indent (gedit like feel)
175 // https://www.sublimetext.com/forum/viewtopic.php?f=3&t=2040
176 { "keys": ["shift+enter"], "command": "run_macro_file", "args": {"file": "Packages/User/my_shift_enter.sublime-macro"} },
177
178 // { "keys": ["ctrl+backspace"], "command": "noop" }
179 // for disabling default hotkey do below
180 // { "keys": ["ctrl+backspace"], "command": "noop" }
181
182 ]

```

3.2 Windows setup (subl-win.rst)

Contents

- *Symlinks*
- *Installed Packages*
 - *xps8900*
 - *asus*
 - *asus diff with sbia workstation*
- *Bunch of random helpful config stuffs*
 - *Open cygwin shell via right-click in explorer*
 - *Getting buildsystem to work with cygwin*

Important: Also see ../windows.html

3.2.1 Symlinks

Syntax for creating symlinks in Windows (*run as admin*):

```
mklink SOURCE_FILE TARGET_FILE # for individual files
mklink /d SOURCE_DIR TARGET_DIR # for entire directory
```

Below ran on:

- (2016-09-01) for ASUS

```
:: main setups
mklink "c:\users\takanori\AppData\Roaming\Sublime Text 3\Packages\User\Default (Windows).sublime-keymap" "C:\Users\takanori\AppData\Roaming\Sublime Text 3\Packages\User\Default (Windows).sublime-keymap"
mklink "c:\users\takanori\AppData\Roaming\Sublime Text 3\Packages\User\Preferences.sublime-settings" "C:\Users\takanori\AppData\Roaming\Sublime Text 3\Packages\User\Preferences.sublime-settings"

:: snippet directories
mklink /d "c:\users\takanori\AppData\Roaming\Sublime Text 3\Packages\User\sublime-snippets" "C:\Users\takanori\AppData\Roaming\Sublime Text 3\Packages\User\sublime-snippets"

:: folderwise sync (currently mostly build-systems)
mklink /d "c:\users\takanori\AppData\Roaming\Sublime Text 3\Packages\User\syncd_by_folder" "C:\Users\takanori\AppData\Roaming\Sublime Text 3\Packages\User\syncd_by_folder"

:: individual files
mklink "c:\users\takanori\AppData\Roaming\Sublime Text 3\Packages\User\Diff.sublime-settings" "C:\Users\takanori\AppData\Roaming\Sublime Text 3\Packages\User\Diff.sublime-settings"
mklink "c:\users\takanori\AppData\Roaming\Sublime Text 3\Packages\User\BufferScroll.sublime-settings" "C:\Users\takanori\AppData\Roaming\Sublime Text 3\Packages\User\BufferScroll.sublime-settings"

:: macros
mklink "c:\users\takanori\AppData\Roaming\Sublime Text 3\Packages\User\my_shift_newLine.sublime-macro" "C:\Users\takanori\AppData\Roaming\Sublime Text 3\Packages\User\my_shift_newLine.sublime-macro"
mklink "c:\users\takanori\AppData\Roaming\Sublime Text 3\Packages\User\add_date.py" "C:\Users\takanori\AppData\Roaming\Sublime Text 3\Packages\User\add_date.py"
```

3.2.2 Installed Packages

xps8900

```
.. literalinclude:: Package Control_8900.sublime-settings
   :language: json
   :linenos:
```

```
1 {
2     "bootstrapped": true,
3     "in_process_packages":
4     [
5     ],
6     "installed_packages":
7     [
8         "Alignment",
9         "AlignTab",
10        "All Autocomplete",
11        "BracketHighlighter",
12        "BufferScroll",
13        "Diffy",
14        "FileDiffs",
15        "Fold Comments",
16        "Fold Python",
17        "Git",
18        "GitGutter",
19        "InsertDate",
20        "Jinja2",
21        "LaTeXing",
22        "LaTeXTools",
23        "OmniMarkupPreviewer",
24        "Origami",
25        "Package Control",
26        "Pylinter",
27        "SideBarEnhancements",
28        "SideBarFolders",
29        "SideBarGit",
30        "Sync View Scroll",
31        "TabsExtra",
32        "Theme - Soda",
33        "TrailingSpaces",
34        "View In Browser"
35    ]
36 }
```

asus

```
.. literalinclude:: Package Control_asus.sublime-settings
   :language: json
   :linenos:
```

```
1 {
2     "bootstrapped": true,
3     "in_process_packages":
4     [
5     ],
6     "installed_packages":
7     [
8         "Alignment",
9         "All Autocomplete",
10        "BracketHighlighter",
```

```
11         "BufferScroll",
12         "Diffy",
13         "FileDiffs",
14         "Fold Comments",
15         "Git",
16         "GitGutter",
17         "LaTeX-cwl",
18         "LaTeXing",
19         "LaTeXTools",
20         "Markdown Preview",
21         "OmniMarkupPreviewer",
22         "Origami",
23         "Package Control",
24         "SideBarEnhancements",
25         "SideBarFolders",
26         "SideBarGit",
27         "Sync View Scroll",
28         "TabsExtra",
29         "Theme - Soda",
30         "TrailingSpaces"
31     ]
32 }
```

asus diff with sbia workstation

```
.. literalinclude:: Package Control_sbia.sublime-settings
   :language: diff
   :linenos:
   :diff: Package Control_asus.sublime-settings
```

```
1  --- Package Control_asus.sublime-settings
2  +++ Package Control_sbia.sublime-settings
3  @@ -5,28 +5,43 @@
4      ],
5      "installed_packages":
6      [
7  -         "Alignment",
8  +         "AdvancedNewFile",
9         "All Autocomplete",
10 +         "Better Completion",
11 +         "BetterFindBuffer",
12         "BracketHighlighter",
13         "BufferScroll",
14 +         "Clipboard Manager",
15 +         "ColorPicker",
16         "Diffy",
17         "FileDiffs",
18         "Fold Comments",
19 +         "Fold Python",
20         "Git",
21         "GitGutter",
22 +         "HTML-CSS-JS Prettify",
23 +         "Jinja2",
24         "LaTeX-cwl",
25 -         "LaTeXing",
26         "LaTeXTools",
27         "Markdown Preview",
```



```

28         "OmniMarkupPreviewer",
29         "Origami",
30         "Package Control",
31 +         "PackageResourceViewer",
32 +         "Pylinter",
33 +         "R-Box",
34 +         "SFTP",
35         "SideBarEnhancements",
36         "SideBarFolders",
37         "SideBarGit",
38 -         "Sync View Scroll",
39 +         "SublimeREPL",
40         "TabsExtra",
41 +         "Terminal",
42         "Theme - Soda",
43 -         "TrailingSpaces"
44 +         "Theme - Soda SolarizedDark",
45 +         "Theme - SoDaReloaded",
46 +         "Tomorrow Color Schemes",
47 +         "TrailingSpaces",
48 +         "View In Browser"
49     ]
50 }

```

3.2.3 Bunch of random helpful config stuffs

Open cygwin shell via right-click in explorer

- <http://stackoverflow.com/questions/9637601/open-cygwin-at-a-specific-folder>

Getting buildsystem to work with cygwin

<http://stackoverflow.com/questions/23588260/does-the-sublime-text-2-build-system-accept-input-if-does-not-are-there-any-wor>

The "path" below does the trick

```

{
    "path" : "C:/cygwin64/bin/",
    "cmd": ["bash.exe", "$file"],
    "file_regex": "^[ ]*File \"(...*?)\" line ([0-9]*)",
    "word_wrap": false,
    "selector": "source.shell"
}

```

3.3 References (subl-ref.rst)

<http://docs.sublimetext.info/en/latest/index.html>

3.3.1 Scope info (for snippets and build system)

- <https://gist.github.com/iambibhas/4705378>

3.3.2 Build system info

- http://docs.sublimetext.info/en/latest/file_processing/build_systems.html
- http://sublimetext.info/docs/en/reference/build_systems.html

3.3.3 When sublime keeps crashing at startup...

Go to `/home/takanori/.config/sublime-text-3/Local` and delete session files

3.4 Default-settings (`subl-defaults.rst`)

Contents

- *Preferences.sublime-settings (Linux)*

3.4.1 Preferences.sublime-settings (Linux)

```
1 // Place your settings in the file "User/Preferences.sublime-settings", which
2 // overrides the settings in here.
3 //
4 // Settings may also be placed in file type specific options files, for
5 // example, in Packages/Python/Python.sublime-settings for python files.
6 {
7     // Sets the colors used within the text area
8     "color_scheme": "Packages/Color Scheme - Default/Monokai.tmTheme",
9
10    // Note that the font_face and font_size are overridden in the platform
11    // specific settings file, for example, "Preferences (Linux).sublime-settings".
12    // Because of this, setting them here will have no effect: you must set them
13    // in your User File Preferences.
14    "font_face": "",
15    "font_size": 10,
16
17    // Valid options are "no_bold", "no_italic", "no_antialias", "gray_antialias",
18    // "subpixel_antialias", "no_round" (OS X only), "gdi" (Windows only) and
19    // "directwrite" (Windows only)
20    "font_options": [],
21
22    // Characters that are considered to separate words
23    "word_separators": ".\\ \\ ( ) \\ ' - : , . ; < > ~ ! @ # $ % ^ & * | + = [ ] { } ` ~ ? ",
24
25    // Set to false to prevent line numbers being drawn in the gutter
26    "line_numbers": true,
27
28    // Set to false to hide the gutter altogether
29    "gutter": true,
30
31    // Spacing between the gutter and the text
32    "margin": 4,
33
34    // Fold buttons are the triangles shown in the gutter to fold regions of text
```

```

35 "fold_buttons": true,
36
37 // Hides the fold buttons unless the mouse is over the gutter
38 "fade_fold_buttons": true,
39
40 // Columns in which to display vertical rulers
41 "rulers": [],
42
43 // Set to true to turn spell checking on by default
44 "spell_check": false,
45
46 // The number of spaces a tab is considered equal to
47 "tab_size": 4,
48
49 // Set to true to insert spaces when tab is pressed
50 "translate_tabs_to_spaces": false,
51
52 // If translate_tabs_to_spaces is true, use_tab_stops will make tab and
53 // backspace insert/delete up to the next tabstop
54 "use_tab_stops": true,
55
56 // Set to false to disable detection of tabs vs. spaces on load
57 "detect_indentation": true,
58
59 // Calculates indentation automatically when pressing enter
60 "auto_indent": true,
61
62 // Makes auto indent a little smarter, e.g., by indenting the next line
63 // after an if statement in C. Requires auto_indent to be enabled.
64 "smart_indent": true,
65
66 // Adds whitespace up to the first open bracket when indenting. Requires
67 // auto_indent to be enabled.
68 "indent_to_bracket": false,
69
70 // Trims white space added by auto_indent when moving the caret off the
71 // line.
72 "trim_automatic_white_space": true,
73
74 // Disables horizontal scrolling if enabled.
75 // May be set to true, false, or "auto", where it will be disabled for
76 // source code, and otherwise enabled.
77 "word_wrap": "auto",
78
79 // Set to a value other than 0 to force wrapping at that column rather than the
80 // window width
81 "wrap_width": 0,
82
83 // Set to false to prevent word wrapped lines from being indented to the same
84 // level
85 "indent_subsequent_lines": true,
86
87 // Draws text centered in the window rather than left aligned
88 "draw_centered": false,
89
90 // Controls auto pairing of quotes, brackets etc
91 "auto_match_enabled": true,
92

```

```
93 // Word list to use for spell checking
94 "dictionary": "Packages/Language - English/en_US.dic",
95
96 // Sets which scopes are checked for spelling errors
97 "spelling_selector": "markup.raw, source.string.quoted - punctuation - meta.preprocessor.c.includ
98
99 // Set to true to draw a border around the visible rectangle on the minimap.
100 // The color of the border will be determined by the "minimapBorder" key in
101 // the color scheme
102 "draw_minimap_border": false,
103
104 // Always visualise the viewport on the minimap, as opposed to only
105 // showing it on mouse over
106 "always_show_minimap_viewport": false,
107
108 // If enabled, will highlight any line with a caret
109 "highlight_line": false,
110
111 // Valid values are "smooth", "phase", "blink" and "solid".
112 "caret_style": "smooth",
113
114 // These settings control the size of the caret
115 "caret_extra_top": 0,
116 "caret_extra_bottom": 0,
117 "caret_extra_width": 0,
118
119 // Set to false to disable underlining the brackets surrounding the caret
120 "match_brackets": true,
121
122 // Set to false if you'd rather only highlight the brackets when the caret is
123 // next to one
124 "match_brackets_content": true,
125
126 // Set to false to not highlight square brackets. This only takes effect if
127 // match_brackets is true
128 "match_brackets_square": true,
129
130 // Set to false to not highlight curly brackets. This only takes effect if
131 // match_brackets is true
132 "match_brackets_braces": true,
133
134 // Set to false to not highlight angle brackets. This only takes effect if
135 // match_brackets is true
136 "match_brackets_angle": false,
137
138 // Enable visualization of the matching tag in HTML and XML
139 "match_tags": true,
140
141 // Highlights other occurrences of the currently selected text
142 "match_selection": true,
143
144 // Additional spacing at the top of each line, in pixels
145 "line_padding_top": 0,
146
147 // Additional spacing at the bottom of each line, in pixels
148 "line_padding_bottom": 0,
149
150 // Set to false to disable scrolling past the end of the buffer.
```

```

151 // On OS X, this value is overridden in the platform specific settings, so
152 // you'll need to place this line in your user settings to override it.
153 "scroll_past_end": true,
154
155 // This controls what happens when pressing up or down when on the first
156 // or last line.
157 // On OS X, this value is overridden in the platform specific settings, so
158 // you'll need to place this line in your user settings to override it.
159 "move_to_limit_on_up_down": false,
160
161 // Set to "none" to turn off drawing white space, "selection" to draw only the
162 // white space within the selection, and "all" to draw all white space
163 "draw_white_space": "selection",
164
165 // Set to false to turn off the indentation guides.
166 // The color and width of the indent guides may be customized by editing
167 // the corresponding .tmTheme file, and specifying the colors "guide",
168 // "activeGuide" and "stackGuide"
169 "draw_indent_guides": true,
170
171 // Controls how the indent guides are drawn, valid options are
172 // "draw_normal" and "draw_active". draw_active will draw the indent
173 // guides containing the caret in a different color.
174 "indent_guide_options": ["draw_normal"],
175
176 // Set to true to removing trailing white space on save
177 "trim_trailing_white_space_on_save": false,
178
179 // Set to true to ensure the last line of the file ends in a newline
180 // character when saving
181 "ensure_newline_at_eof_on_save": false,
182
183 // Set to true to automatically save files when switching to a different file
184 // or application
185 "save_on_focus_lost": false,
186
187 // Save via writing to an alternate file, and then renaming it over the
188 // original file.
189 "atomic_save": false,
190
191 // The encoding to use when the encoding can't be determined automatically.
192 // ASCII, UTF-8 and UTF-16 encodings will be automatically detected.
193 "fallback_encoding": "Western (Windows 1252)",
194
195 // Encoding used when saving new files, and files opened with an undefined
196 // encoding (e.g., plain ascii files). If a file is opened with a specific
197 // encoding (either detected or given explicitly), this setting will be
198 // ignored, and the file will be saved with the encoding it was opened
199 // with.
200 "default_encoding": "UTF-8",
201
202 // Files containing null bytes are opened as hexadecimal by default
203 "enable_hexadecimal_encoding": true,
204
205 // Determines what character(s) are used to terminate each line in new files.
206 // Valid values are 'system' (whatever the OS uses), 'windows' (CRLF) and
207 // 'unix' (LF only).
208 "default_line_ending": "system",

```

```
209 // When enabled, pressing tab will insert the best matching completion.
210 // When disabled, tab will only trigger snippets or insert a tab.
211 // Shift+tab can be used to insert an explicit tab when tab_completion is
212 // enabled.
213 "tab_completion": true,
214
215 // Enable auto complete to be triggered automatically when typing.
216 "auto_complete": true,
217
218 // The maximum file size where auto complete will be automatically triggered.
219 "auto_complete_size_limit": 4194304,
220
221 // The delay, in ms, before the auto complete window is shown after typing
222 "auto_complete_delay": 50,
223
224 // Controls what scopes auto complete will be triggered in
225 "auto_complete_selector": "source - comment, meta.tag - punctuation.definition.tag.begin",
226
227 // Additional situations to trigger auto complete
228 "auto_complete_triggers": [ {"selector": "text.html", "characters": "<"} ],
229
230 // By default, auto complete will commit the current completion on enter.
231 // This setting can be used to make it complete on tab instead.
232 // Completing on tab is generally a superior option, as it removes
233 // ambiguity between committing the completion and inserting a newline.
234 "auto_complete_commit_on_tab": false,
235
236 // Controls if auto complete is shown when snippet fields are active.
237 // Only relevant if auto_complete_commit_on_tab is true.
238 "auto_complete_with_fields": false,
239
240 // Controls what happens when pressing the up key while the first item in
241 // the auto complete window is selected: if false, the window is hidden,
242 // otherwise the last item in the window is selected. Likewise for the
243 // down key when the last item is selected.
244 "auto_complete_cycle": false,
245
246 // Automatically close HTML and XML tags when </ is entered.
247 "auto_close_tags": true,
248
249 // By default, shift+tab will only unindent if the selection spans
250 // multiple lines. When pressing shift+tab at other times, it'll insert a
251 // tab character - this allows tabs to be inserted when tab_completion is
252 // enabled. Set this to true to make shift+tab always unindent, instead of
253 // inserting tabs.
254 "shift_tab_unindent": false,
255
256 // If true, the copy and cut commands will operate on the current line
257 // when the selection is empty, rather than doing nothing.
258 "copy_with_empty_selection": true,
259
260 // If true, the selected text will be copied into the find panel when it's
261 // shown.
262 // On OS X, this value is overridden in the platform specific settings, so
263 // you'll need to place this line in your user settings to override it.
264 "find_selected_text": true,
```

```

267 // When auto_find_in_selection is enabled, the "Find in Selection" flag
268 // will be enabled automatically when multiple lines of text are selected
269 "auto_find_in_selection": false,
270
271 // When drag_text is enabled, clicking on selected text will begin a
272 // drag-drop operation. This is not currently implemented under Linux.
273 "drag_text": true,
274
275 //
276 // User Interface Settings
277 //
278
279 // The theme controls the look of Sublime Text's UI (buttons, tabs, scroll bars, etc)
280 "theme": "Default.sublime-theme",
281
282 // Set to 0 to disable smooth scrolling. Set to a value between 0 and 1 to
283 // scroll slower, or set to larger than 1 to scroll faster
284 "scroll_speed": 1.0,
285
286 // Controls side bar animation when expanding or collapsing folders
287 "tree_animation_enabled": true,
288
289 // Controls animation throughout the application
290 "animation_enabled": true,
291
292 // Makes tabs with modified files more visible
293 "highlight_modified_tabs": false,
294
295 "show_tab_close_buttons": true,
296
297 // Show folders in the side bar in bold
298 "bold_folder_labels": false,
299
300 // OS X only: Set to true to disable Lion style full screen support.
301 // Sublime Text must be restarted for this to take effect.
302 "use_simple_full_screen": false,
303
304 // OS X only. Valid values are true, false, and "auto". Auto will enable
305 // the setting when running on a screen 2560 pixels or wider (i.e., a
306 // Retina display). When this setting is enabled, OpenGL is used to
307 // accelerate drawing. Sublime Text must be restarted for changes to take
308 // effect.
309 "gpu_window_buffer": "auto",
310
311 // Valid values are "system", "enabled" and "disabled"
312 "overlay_scroll_bars": "system",
313
314 // Allows tabs to scroll left and right, instead of simply shrinking
315 "enable_tab_scrolling": true,
316
317 // Display file encoding in the status bar
318 "show_encoding": false,
319
320 // Display line endings in the status bar
321 "show_line_endings": false,
322
323 //
324 // Application Behavior Settings

```

```

325 //
326
327 // Exiting the application with hot_exit enabled will cause it to close
328 // immediately without prompting. Unsaved modifications and open files will
329 // be preserved and restored when next starting.
330 //
331 // Closing a window with an associated project will also close the window
332 // without prompting, preserving unsaved changes in the workspace file
333 // alongside the project.
334 "hot_exit": true,
335
336 // remember_full_screen will allow Sublime Text to start in full screen
337 // mode if it was exited in full screen mode. When set to false, Sublime
338 // Text will never start in full screen mode.
339 "remember_full_screen": false,
340
341 // Always prompt before reloading a file, even if the file hasn't been
342 // modified. The default behavior is to automatically reload a file if it
343 // hasn't been edited. If a file has unsaved changes, a prompt will always
344 // be shown.
345 "always_prompt_for_file_reload": false,
346
347 // OS X only: When files are opened from finder, or by dragging onto the
348 // dock icon, this controls if a new window is created or not.
349 "open_files_in_new_window": true,
350
351 // OS X only: This controls if an empty window is created at startup or not.
352 "create_window_at_startup": true,
353
354 // Set to true to close windows as soon as the last file is closed, unless
355 // there's a folder open within the window.
356 // On OS X, this value is overridden in the platform specific settings, so
357 // you'll need to place this line in your user settings to override it.
358 "close_windows_when_empty": false,
359
360 // Show the full path to files in the title bar.
361 // On OS X, this value is overridden in the platform specific settings, so
362 // you'll need to place this line in your user settings to override it.
363 "show_full_path": true,
364
365 // Shows the Build Results panel when building. If set to false, the Build
366 // Results can be shown via the Tools/Build Results menu.
367 "show_panel_on_build": true,
368
369 // Preview file contents when clicking on a file in the side bar. Double
370 // clicking or editing the preview will open the file and assign it a tab.
371 "preview_on_click": true,
372
373 // folder_exclude_patterns and file_exclude_patterns control which files
374 // are listed in folders on the side bar. These can also be set on a per-
375 // project basis.
376 "folder_exclude_patterns": [".svn", ".git", ".hg", "CVS"],
377 "file_exclude_patterns": [".pyc", ".pyo", ".exe", ".dll", ".obj", ".o", ".a", "*.lib", "*.s",
378 // These files will still show up in the side bar, but won't be included in
379 // Goto Anything or Find in Files
380 "binary_file_patterns": [".jpg", ".jpeg", ".png", ".gif", ".ttf", ".tga", ".dds", ".ico",
381
382 // File indexing parses all files in the side bar, and builds an index of

```



```
383 // their symbols. This is required for Goto Definition to work.
384 "index_files": true,
385
386 // Set the number threads to use for indexing. A value of 0 will make
387 // Sublime Text guess based on the number of cores. Use the index_files
388 // setting to disable all workers.
389 "index_workers": 0,
390
391 // index_exclude_patterns indicate which files won't be indexed.
392 "index_exclude_patterns": ["*.log"],
393
394 // When enabled, anonymised usage data is sent back, assisting Sublime HQ
395 // in making informed decisions about improving Sublime Text. File names
396 // and file contents are never included, but data such as computer
397 // specifications, startup time, installed packages, and edited file types
398 // are. When disabled, telemetry is neither recorded or sent.
399 // A setting of auto will enable telemetry in dev builds, and disable
400 // telemetry in regular builds.
401 "enable_telemetry": "auto",
402
403 // List any packages to ignore here. When removing entries from this list,
404 // a restart may be required if the package contains plugins.
405 "ignored_packages": ["Vintage"]
406 }
```


R (R.RST)

```
ln -s ~/Dropbox/git/configs/source/R/r.snippets ~/.R/snippets/r.snippets
```


WINDOWS MACHINE SETUP (WINDOWS .RST)

Files related to my windows machine setup.

5.1 Autohotkey (win-ahk.rst)

Contents

- *Main references*
- *Notes*
 - *Details on **SentInput***
 - *Variables in AHK*
 - *Looping in AHK*
 - *other useful references*

5.1.1 Main references

The main “cheat-sheet” to look at for help:

- <http://ahkscript.org/docs/commands/index.htm>

The symbols for the modifier keys (for a full list: <http://ahkscript.org/docs/Hotkeys.htm#Symbols>)

```
# : windows key
^ : control key
! : alt key
+ : shift key
```

This link contains a good list of examples

- <http://www.computerhope.com/tips/tip209.htm>

5.1.2 Notes

Details on **SentInput**

- <http://ahkscript.org/docs/commands/Send.htm#SendInputDetail>
- In short, “**SentInput** is generally the preferred method to send keystrokes and mouse clicks because of its superior speed and reliability”

Variables in AHK

<http://ahkscript.org/docs/Variables.htm>

- Variable names are not case sensitive
- list of built-in variables: [\[link\]](#)
- Operations on variables [\[link\]](#)
- To have more than one command executed by a hotkey, put the first line beneath the hotkey definition and make the last line `return`.

Looping in AHK

<http://ahkscript.org/docs/commands/Loop.htm>

other useful references

- <http://www.autohotkey.com/docs/>
- <http://www.autohotkey.com/docs/Hotkeys.htm>
- <http://www.autohotkey.com/docs/KeyList.htm>
- <http://www.autohotkey.com/docs/commands.htm>
- <http://www.autohotkey.com/docs/commands/FileAppend.htm>
- <http://www.autohotkey.com/board/topic/25393-appskeys-a-suite-of-simple-utility-hotkeys/>
- http://xahlee.info/mswin/autohotkey_key_notations.html

5.2 MS Office Setups (`win-office.rst`)

Contents

- *Word macro*
- *One-note*

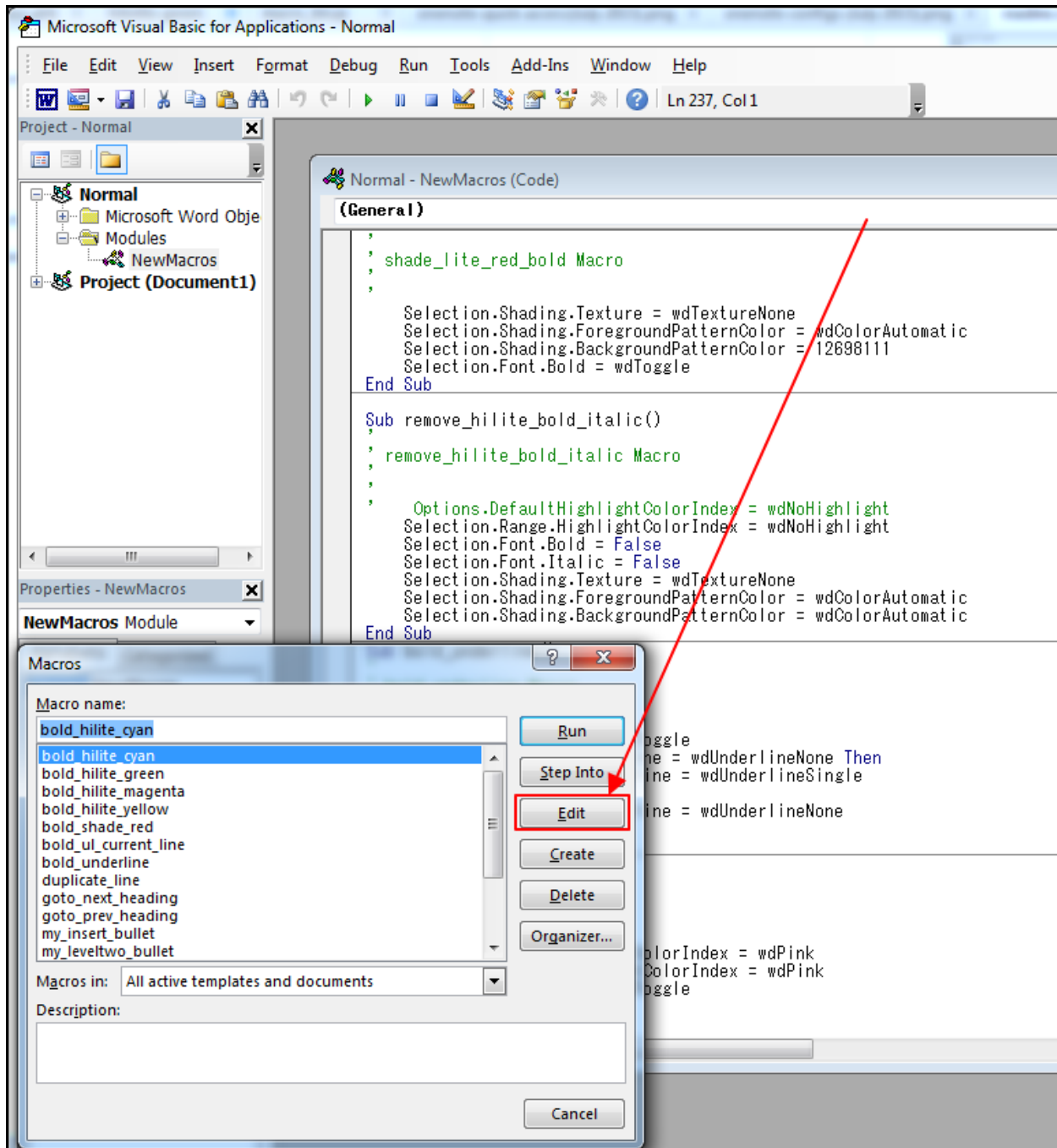
For source files, see <https://github.com/wtak23/configs/tree/master/source/windows/office-setup>

Important: Imported from my old configs repos on (2016-09-01)

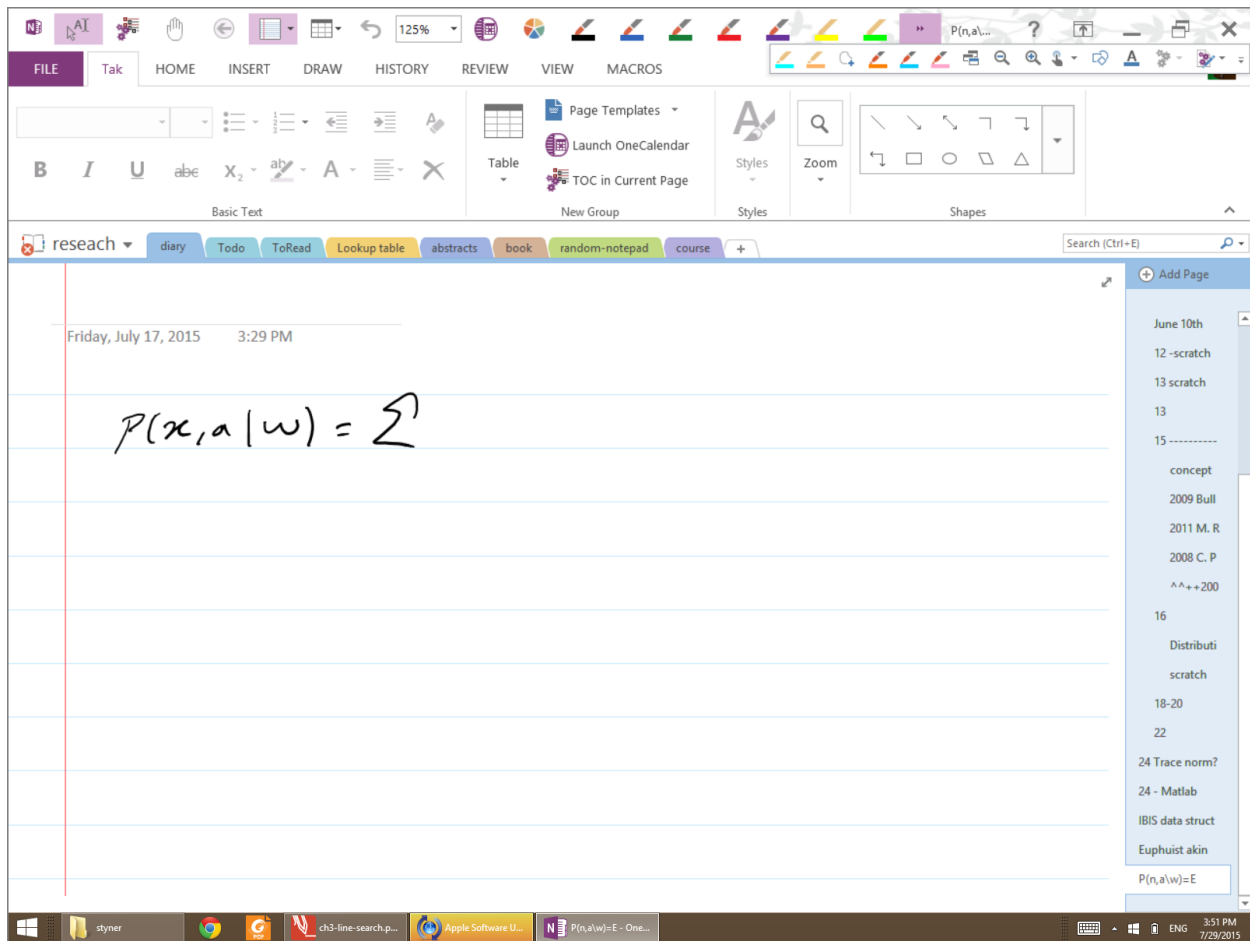
Macro and keyboard shortcut info saved in `Normal.dotm` file (2016-06-18)

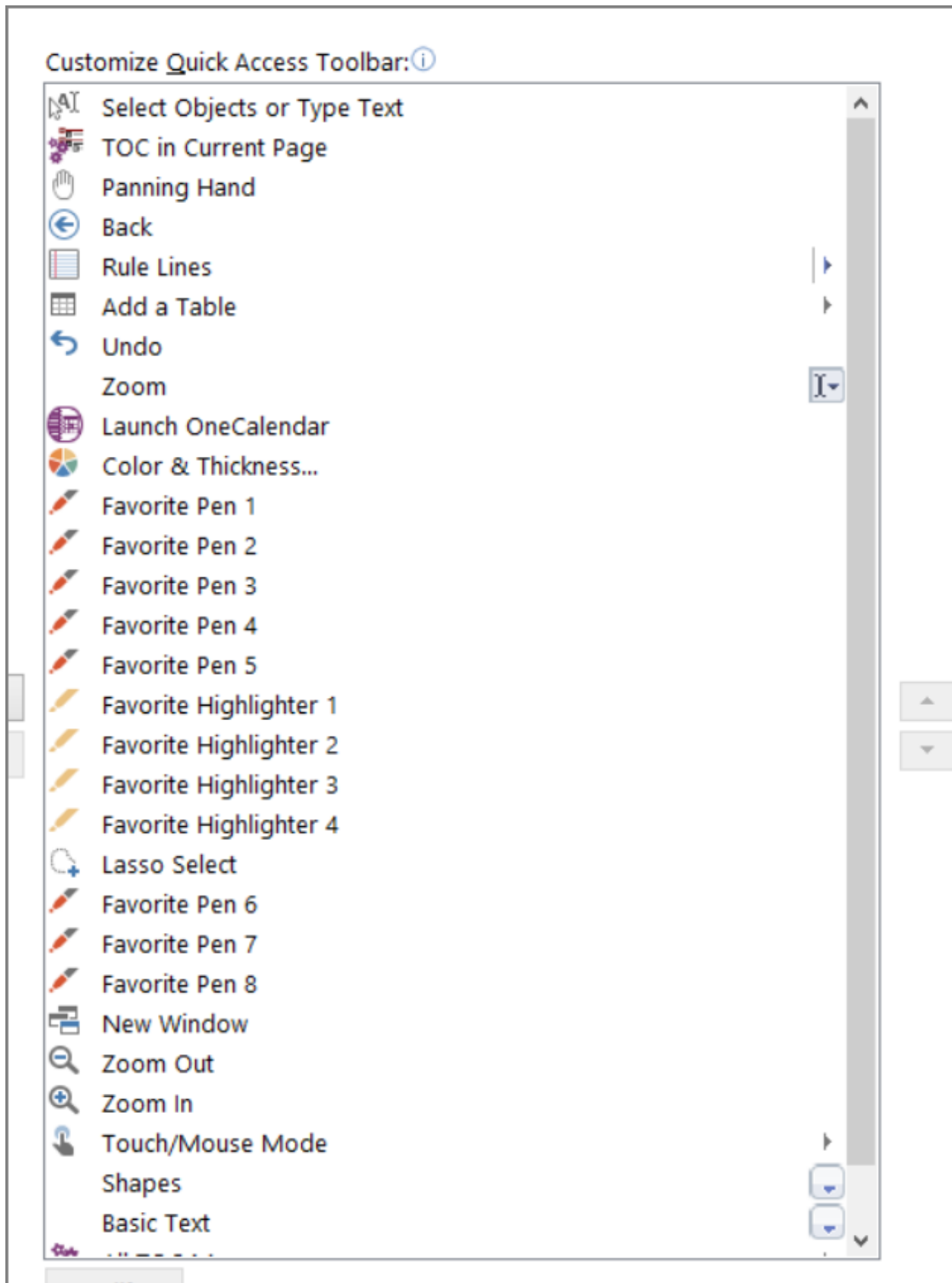
5.2.1 Word macro

`macro_bkup` just a **copy and paste** from macro-editor



5.2.2 One-note





5.3 XPS8900 Desktop settings (win-xps8900.rst)

Contents

- *Startup Files*
- *symlinks*
 - *cygwin configs*
 - *Sublime text*
 - *Office*

5.3.1 Startup Files

```
C:\Users\takanori\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\Startup
```

```
Xming.lnk  
WinSplit.exe.lnk  
myHotStrings.ahk.lnk  
myHotKeys-asus.ahk - Shortcut.lnk  
Dropbox.lnk
```

5.3.2 symlinks

Run as admin on cmd

cygwin configs

See instructions in *bash-cygwin-symlink setup*

Sublime text

See instructions in *sublime-symlink setup*

Office

```
mklink "C:\Users\takanori\AppData\Roaming\Microsoft\Templates\Normal.dotm" "C:\Users\takanori\Dropbox\Normal.dotm"
```

5.4 ASUS laptop settings (win-asus.rst)

Contents

- *Startup Files*
- *symlinks*
 - *cygwin configs*
 - *Sublime text*
 - *Office*

5.4.1 Startup Files

```
C:\Users\takanori\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\Startup

Xming.lnk
WinSplit.exe.lnk
remapKeysLaptop-asus.ahk - Shortcut.lnk
myHotStrings.ahk.lnk
myHotKeys-asus.ahk - Shortcut.lnk
Dropbox.lnk
```

5.4.2 symlinks

Run as admin on cmd

cygwin configs

See instructions in *bash-cygwin-symlink setup*

Sublime text

See instructions in *sublime-symlink setup*

Office

```
mklink "C:\Users\takanori\AppData\Roaming\Microsoft\Templates\Normal.dotm" "C:\Users\takanori\Dropbox\Normal.dotm"
```

5.5 (Old) Thing to do on a new computer (win-old-notes.rst)

Important: Brought this from my old repos.

https://github.com/wtak23/configs_master/blob/master/cygwin/windows-setup.rst

Contents

- *Softwares to install*
 - *The “Essentials”*
 - *Computational*
 - *Non-essentials*
- *Short-cuts to add in “Startup” folder*
 - *xming*
- *misc*
 - *Username change*
 - *Location of Normal.dotm*

5.5.1 Softwares to install

<https://ninite.com/> <= comes in handy

- Chrome, Firefox, Skype,
- JDK 8, Java 8
- WinSCP, Putty
- Dropbox, itunes, k-lite codecs
- Classic Start (for Windows 8)
- AdobeReader, SumatraPDF, PDFCreator

The “Essentials”

- cygwin
- Sublime Text3: sublimetext.com/3
- MikTex (choose 64 bit)
- Foxitreader
- VNC for windows (executable in dropbox.....mapped hotkey WIN+V to call)
- Office 365
- PicPick: <http://www.picpick.org/en/>
- QtTabbar (installer on my computer)
- PdfFill [link](#)
- xming
- Autohotkey <http://www.autohotkey.com/>

IDE's - Enthought Canopy (I like their “out-of-the-box” ipython, which i invoke from Console2) - IntelliJ IDEA - JetBrains - Visual Studio Pro (from [Dreamspark](#))

Computational

- Anaconda Python
- Rstudio
- Padre: <http://padre.perlide.org/>

Non-essentials

- PDFill
- Itunes
- Logitech [Unifying](#)
- Logitech [SetPoint](#) (not installed on my laptops...messes up my ahk scripts)

5.5.2 Short-cuts to add in “Startup” folder

- console2
- WinSplit
- Autohotkey scripts

xming

- **Target:** “C:Program Files (x86)XmingXming.exe” :0 -clipboard -multiwindow -dpi 108
- **Start in:** “C:Program Files (x86)Xming”

5.5.3 misc

- Verify java here: <http://java.com/en/download/installed.jsp>
- Nice helper: <http://www.saltycrane.com/blog/2007/11/cygwin-install-tips/>
(download subversion and wget on initial cygwin install; see [here](#))
- apt-cyg install may give you md5sum error...replace md5sum with sha512sum in 2 lines of code in /usr/bin/apt-cyg
([ref1](#), [ref2](#))

Username change

http://answers.microsoft.com/en-us/windows/forum/windows_8-files/windows-8-user-folder-rename/3364a356-bf93-4e5c-8fcb-67850e837d6b?page=2

Location of Normal.dotm

C:\Users\takanori\AppData\Roaming\Microsoft\Templates

TROUBLE-SHOOTING NOTES (TROUBLE-SHOOTING.RST)

Jumbled notes on **trouble-shooting** when computer goes through unexpected hiccups.

Note: rst file-names prepended with **ts** (makes it easy to navigate in sublime-text)

Danger: Whenever I'll make notes here, there's a high chance that I'll not be in my finest mood (debugging unexpected computer hiccups is not my favorite activity) :(

6.1 ts-bash (ts-bash.rst)

Contents

- *Old-notes from old config_master repos*
 - *Color in less*
 - *Latex installer 06-15-2016 (21:48)*

6.1.1 Old-notes from old config_master repos

Note: imported this from my old config notes. content may be obsolete 09-01-2016 (16:23)

Color in less

```
# on my sbia computer
ln -s ~/Dropbox/git/configs_master/sbia-pcl25-cinn/.lessfilter ~/.lessfilter
```

Content of .lessfilter

```
1  #!/bin/sh
2
3  #=====#
4  # to colorize ``less`` command
5  # 06-15-2016 (18:54)
6  #-----#
7  # http://superuser.com/questions/117841/get-colors-in-less-command
```

```
8 # http://pygments.org/docs/cmdline/
9 # (note: i had to manually change color in the terminal so that text looks good;
10 # (eg: dark text on black bg looks horrendous)
11 #=====#
12 case "$1" in
13     *.awk|*.groff|*.java|*.js|*.m4|*.php|*.pl|*.pm|*.pod|*.sh|\
14     *.ad[asb]|*.asm|*.inc|*.[ch]|*.[ch]pp|*.[ch]xx|*.cc|*.hh|\
15     *.lsp|*.l|*.pas|*.p|*.xml|*.xps|*.xsl|*.axp|*.ppd|*.pov|\
16     *.diff|*.patch|*.py|*.rb|*.sql|*.ebuild|*.eclass)
17     pygmentize "$1";;
18     .bashrc|.bash_aliases|.bash_environment)
19     pygmentize -l sh "$1"
20     ;;
21     *)
22     grep "#\!/bin/bash" "$1" > /dev/null
23     if [ "$?" -eq "0" ]; then
24         pygmentize -l sh "$1"
25     else
26         exit 1
27     fi
28 esac
29
30 exit 0
```

Reference

- for cygwin (haven't tried yet)
 - <http://unix.stackexchange.com/questions/19317/can-less-retain-colored-output>
- for grep: <http://superuser.com/questions/36022/less-and-grep-getting-colored-results-when-using-a-pipe-from-grep-to-less?rq=1>

Latex installer 06-15-2016 (21:48)

I had to do this to get `make latex` to work on Sphinx

<http://tex.stackexchange.com/questions/39771/finding-a-ubuntu-package-for-a-sty-file>

```
sudo apt-get install texlive-latex-extra

# to solve error kpathsea: Running mktexmf ecrm1000 ! I can't find file `ecrm1000'.
#http://tex.stackexchange.com/questions/116332/latex-compilation-of-simple-document-fails
sudo apt-get install texlive-fonts-recommended
```

6.2 ts-sublime (ts-sublime.rst)

Contents

- Old-notes from old config_master repos
 - How to remove startup session
 - omni-markup error
 - get images from goto

6.2.1 Old-notes from old config_master repos

Note: imported this from my old config notes. content may be obsolete 09-01-2016 (16:23)

How to remove startup session

in case Sublime-text freezes up at startup (keeps happening...err...)

```
rm /home/takanori/.config/sublime-text-3/Local/Session.sublime_session
```

omni-markup error

<https://github.com/timonwong/OmniMarkupPreviewer/issues/82>

```
"server_host": "0.0.0.0",
"server_port": 9998,
```

get images from goto

<http://stackoverflow.com/questions/24834338/finding-images-in-go-to-anything>

Changed this in .sublime-settings file:

```
// These files will still show up in the side bar, but won't be included in
// Goto Anything or Find in Files
"binary_file_patterns": ["*.jpg", "*.jpeg", "*.png", "*.gif", "*.ttf", "*.tga", "*.dds", "*.ico", "*"
```

6.3 ts-python (ts-python.rst)

Contents

- *Getting theano to work on Windows*

6.3.1 Getting theano to work on Windows

- <https://www.kaggle.com/c/otto-group-product-classification-challenge/forums/t/13973/a-few-tips-to-install-theano-on-windows-64-bits>

MISCELLANEOUS (MISC.RST)

Other stuffs/notes pertaining to my computer setup.

7.1 cuda-installation (old) (misc-cuda-old.rst)

Installing CUDA on my SBIA workstation

Contents

- *Installing Theano*
- *Installing cuda*
 - *references*
- *Pre september*
- *cuda install output*

Important: Brought this from my old configs repos. This was last updated June 10, 2016. Not sure if I still need this, but kept for my own reference.

7.1.1 Installing Theano

http://deeplearning.net/software/theano/install_ubuntu.html#install-ubuntu

7.1.2 Installing cuda

references

- <http://www.r-tutor.com/gpu-computing/cuda-installation/cuda7.5-ubuntu>
- <http://askubuntu.com/questions/451672/installing-and-testing-cuda-in-ubuntu-14-04>
- Linux Mint 17 is based on Ubuntu 14.04 ([source](#))
- `lsb_release -a`

Download cuda .deb [here](#) (Get x86_64 Ubun14.04 deb local)

Then follow the 3 step procedure

1. `sudo dpkg -i cuda-repo-ubuntu1404-7-5-local_7.5-18_amd64.deb`

2. `sudo apt-get update`
3. `sudo apt-get install cuda`

7.1.3 Pre september

```
1 glxinfo
2 sudo apt-get install nvclock
3 nvclock -c
4 lshw
5 lspci
6
7 sudo apt-get install liblapack-dev
8 sudo apt-get install gfortran libopenblas-dev liblapack-dev # http://stackoverflow.com/questions/749
9 sudo apt-get install gfortran libblas-dev liblapack-dev
10
11 sudo apt-get install python-dev
12 sudo apt-get install libatlas-base-dev
13
14
15 sudo pip install --upgrade theano
16
17
18 # to get nvcc
19 sudo apt-get install nvidia-cuda-toolkit
```

7.1.4 cuda install output

```
De-configuring libdrm-radeon1:i386 (2.4.52-1) ...
Unpacking libdrm-radeon1:amd64 (2.4.60-2~ubuntu14.04.1) over (2.4.52-1) ...
Preparing to unpack .../libdrm-radeon1_2.4.60-2~ubuntu14.04.1_i386.deb ...
Unpacking libdrm-radeon1:i386 (2.4.60-2~ubuntu14.04.1) over (2.4.52-1) ...
Preparing to unpack .../libgles2-mesa_10.1.3-0ubuntu0.4_amd64.deb ...
Unpacking libgles2-mesa:amd64 (10.1.3-0ubuntu0.4) over (10.1.3-0ubuntu0.1) ...
Preparing to unpack .../libgl1-mesa-glx_10.1.3-0ubuntu0.4_amd64.deb ...
De-configuring libgl1-mesa-glx:i386 (10.1.3-0ubuntu0.1) ...
Unpacking libgl1-mesa-glx:amd64 (10.1.3-0ubuntu0.4) over (10.1.3-0ubuntu0.1) ...
Preparing to unpack .../libgl1-mesa-glx_10.1.3-0ubuntu0.4_i386.deb ...
Unpacking libgl1-mesa-glx:i386 (10.1.3-0ubuntu0.4) over (10.1.3-0ubuntu0.1) ...
Preparing to unpack .../libglapi-mesa_10.1.3-0ubuntu0.4_i386.deb ...
De-configuring libglapi-mesa:amd64 (10.1.3-0ubuntu0.1) ...
Unpacking libglapi-mesa:i386 (10.1.3-0ubuntu0.4) over (10.1.3-0ubuntu0.1) ...
Preparing to unpack .../libglapi-mesa_10.1.3-0ubuntu0.4_amd64.deb ...
Unpacking libglapi-mesa:amd64 (10.1.3-0ubuntu0.4) over (10.1.3-0ubuntu0.1) ...
Selecting previously unselected package freeglut3:amd64.
Preparing to unpack .../freeglut3_2.8.1-1_amd64.deb ...
Unpacking freeglut3:amd64 (2.8.1-1) ...
Preparing to unpack .../libdrm-intel1_2.4.60-2~ubuntu14.04.1_i386.deb ...
De-configuring libdrm-intel1:amd64 (2.4.52-1) ...
Unpacking libdrm-intel1:i386 (2.4.60-2~ubuntu14.04.1) over (2.4.52-1) ...
Preparing to unpack .../libdrm-intel1_2.4.60-2~ubuntu14.04.1_amd64.deb ...
Unpacking libdrm-intel1:amd64 (2.4.60-2~ubuntu14.04.1) over (2.4.52-1) ...
Selecting previously unselected package libjansson4:amd64.
Preparing to unpack .../libjansson4_2.5-2_amd64.deb ...
Unpacking libjansson4:amd64 (2.5-2) ...
Preparing to unpack .../libdpkg-perl_1.17.5ubuntu5.4_all.deb ...
```

```

Unpacking libdpkg-perl (1.17.5ubuntu5.4) over (1.17.5ubuntu5.3) ...
Selecting previously unselected package dpkg-dev.
Preparing to unpack .../dpkg-dev_1.17.5ubuntu5.4_all.deb ...
Unpacking dpkg-dev (1.17.5ubuntu5.4) ...
Selecting previously unselected package build-essential.
Preparing to unpack .../build-essential_11.6ubuntu6_amd64.deb ...
Unpacking build-essential (11.6ubuntu6) ...
Selecting previously unselected package cuda-license-7-5.
Preparing to unpack .../cuda-license-7-5_7.5-18_amd64.deb ...
Unpacking cuda-license-7-5 (7.5-18) ...
Selecting previously unselected package cuda-misc-headers-7-5.
Preparing to unpack .../cuda-misc-headers-7-5_7.5-18_amd64.deb ...
Unpacking cuda-misc-headers-7-5 (7.5-18) ...
Selecting previously unselected package cuda-core-7-5.
Preparing to unpack .../cuda-core-7-5_7.5-18_amd64.deb ...
Unpacking cuda-core-7-5 (7.5-18) ...
Selecting previously unselected package cuda-cudart-7-5.
Preparing to unpack .../cuda-cudart-7-5_7.5-18_amd64.deb ...
Unpacking cuda-cudart-7-5 (7.5-18) ...
Selecting previously unselected package cuda-driver-dev-7-5.
Preparing to unpack .../cuda-driver-dev-7-5_7.5-18_amd64.deb ...
Unpacking cuda-driver-dev-7-5 (7.5-18) ...
Selecting previously unselected package cuda-cudart-dev-7-5.
Preparing to unpack .../cuda-cudart-dev-7-5_7.5-18_amd64.deb ...
Unpacking cuda-cudart-dev-7-5 (7.5-18) ...
Selecting previously unselected package cuda-command-line-tools-7-5.
Preparing to unpack .../cuda-command-line-tools-7-5_7.5-18_amd64.deb ...
Unpacking cuda-command-line-tools-7-5 (7.5-18) ...
Selecting previously unselected package cuda-nvrtc-7-5.
Preparing to unpack .../cuda-nvrtc-7-5_7.5-18_amd64.deb ...
Unpacking cuda-nvrtc-7-5 (7.5-18) ...
Selecting previously unselected package cuda-nvrtc-dev-7-5.
Preparing to unpack .../cuda-nvrtc-dev-7-5_7.5-18_amd64.deb ...
Unpacking cuda-nvrtc-dev-7-5 (7.5-18) ...
Selecting previously unselected package cuda-cusolver-7-5.
Preparing to unpack .../cuda-cusolver-7-5_7.5-18_amd64.deb ...
Unpacking cuda-cusolver-7-5 (7.5-18) ...
Selecting previously unselected package cuda-cusolver-dev-7-5.
Preparing to unpack .../cuda-cusolver-dev-7-5_7.5-18_amd64.deb ...
Unpacking cuda-cusolver-dev-7-5 (7.5-18) ...
Selecting previously unselected package cuda-cublas-7-5.
Preparing to unpack .../cuda-cublas-7-5_7.5-18_amd64.deb ...
Unpacking cuda-cublas-7-5 (7.5-18) ...
Selecting previously unselected package cuda-cublas-dev-7-5.
Preparing to unpack .../cuda-cublas-dev-7-5_7.5-18_amd64.deb ...
Unpacking cuda-cublas-dev-7-5 (7.5-18) ...
Selecting previously unselected package cuda-cufft-7-5.
Preparing to unpack .../cuda-cufft-7-5_7.5-18_amd64.deb ...
Unpacking cuda-cufft-7-5 (7.5-18) ...
Selecting previously unselected package cuda-cufft-dev-7-5.
Preparing to unpack .../cuda-cufft-dev-7-5_7.5-18_amd64.deb ...
Unpacking cuda-cufft-dev-7-5 (7.5-18) ...
Selecting previously unselected package cuda-curand-7-5.
Preparing to unpack .../cuda-curand-7-5_7.5-18_amd64.deb ...
Unpacking cuda-curand-7-5 (7.5-18) ...
Selecting previously unselected package cuda-curand-dev-7-5.
Preparing to unpack .../cuda-curand-dev-7-5_7.5-18_amd64.deb ...
Unpacking cuda-curand-dev-7-5 (7.5-18) ...

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Selecting previously unselected package cuda-cusparse-7-5.
Preparing to unpack .../cuda-cusparse-7-5_7.5-18_amd64.deb ...
Unpacking cuda-cusparse-7-5 (7.5-18) ...
Selecting previously unselected package cuda-cusparse-dev-7-5.
Preparing to unpack .../cuda-cusparse-dev-7-5_7.5-18_amd64.deb ...
Unpacking cuda-cusparse-dev-7-5 (7.5-18) ...
Selecting previously unselected package cuda-npp-7-5.
Preparing to unpack .../cuda-npp-7-5_7.5-18_amd64.deb ...
Unpacking cuda-npp-7-5 (7.5-18) ...
Selecting previously unselected package cuda-npp-dev-7-5.
Preparing to unpack .../cuda-npp-dev-7-5_7.5-18_amd64.deb ...
Unpacking cuda-npp-dev-7-5 (7.5-18) ...
Selecting previously unselected package xorg-sgml-doctools.
Preparing to unpack .../xorg-sgml-doctools_1%3a1.11-1_all.deb ...
Unpacking xorg-sgml-doctools (1:1.11-1) ...
Selecting previously unselected package x11proto-core-dev.
Preparing to unpack .../x11proto-core-dev_7.0.26-1~ubuntu2_all.deb ...
Unpacking x11proto-core-dev (7.0.26-1~ubuntu2) ...
Selecting previously unselected package libxau-dev:amd64.
Preparing to unpack .../libxau-dev_1%3a1.0.8-1_amd64.deb ...
Unpacking libxau-dev:amd64 (1:1.0.8-1) ...
Selecting previously unselected package libxdmcp-dev:amd64.
Preparing to unpack .../libxdmcp-dev_1%3a1.1.1-1_amd64.deb ...
Unpacking libxdmcp-dev:amd64 (1:1.1.1-1) ...
Selecting previously unselected package x11proto-input-dev.
Preparing to unpack .../x11proto-input-dev_2.3-1_all.deb ...
Unpacking x11proto-input-dev (2.3-1) ...
Selecting previously unselected package x11proto-kb-dev.
Preparing to unpack .../x11proto-kb-dev_1.0.6-2_all.deb ...
Unpacking x11proto-kb-dev (1.0.6-2) ...
Selecting previously unselected package xtrans-dev.
Preparing to unpack .../xtrans-dev_1.3.5-1~ubuntu14.04.1_all.deb ...
Unpacking xtrans-dev (1.3.5-1~ubuntu14.04.1) ...
Selecting previously unselected package libpthread-stubs0-dev:amd64.
Preparing to unpack .../libpthread-stubs0-dev_0.3-4_amd64.deb ...
Unpacking libpthread-stubs0-dev:amd64 (0.3-4) ...
Selecting previously unselected package libxcb1-dev:amd64.
Preparing to unpack .../libxcb1-dev_1.10-2ubuntu1_amd64.deb ...
Unpacking libxcb1-dev:amd64 (1.10-2ubuntu1) ...
Selecting previously unselected package libx11-dev:amd64.
Preparing to unpack .../libx11-dev_2%3a1.6.2-1ubuntu2_amd64.deb ...
Unpacking libx11-dev:amd64 (2:1.6.2-1ubuntu2) ...
Selecting previously unselected package libdrm-dev:amd64.
Preparing to unpack .../libdrm-dev_2.4.60-2~ubuntu14.04.1_amd64.deb ...
Unpacking libdrm-dev:amd64 (2.4.60-2~ubuntu14.04.1) ...
Selecting previously unselected package mesa-common-dev.
Preparing to unpack .../mesa-common-dev_10.1.3-0ubuntu0.4_amd64.deb ...
Unpacking mesa-common-dev (10.1.3-0ubuntu0.4) ...
Selecting previously unselected package libx11-xcb-dev:amd64.
Preparing to unpack .../libx11-xcb-dev_2%3a1.6.2-1ubuntu2_amd64.deb ...
Unpacking libx11-xcb-dev:amd64 (2:1.6.2-1ubuntu2) ...
Selecting previously unselected package libxcb-dri3-dev:amd64.
Preparing to unpack .../libxcb-dri3-dev_1.10-2ubuntu1_amd64.deb ...
Unpacking libxcb-dri3-dev:amd64 (1.10-2ubuntu1) ...
Selecting previously unselected package libxcb-render0-dev:amd64.
Preparing to unpack .../libxcb-render0-dev_1.10-2ubuntu1_amd64.deb ...
Unpacking libxcb-render0-dev:amd64 (1.10-2ubuntu1) ...
Selecting previously unselected package libxcb-randr0-dev:amd64.
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Preparing to unpack .../libxcb-randr0-dev_1.10-2ubuntu1_amd64.deb ...
Unpacking libxcb-randr0-dev:amd64 (1.10-2ubuntu1) ...
Selecting previously unselected package libxcb-shape0-dev:amd64.
Preparing to unpack .../libxcb-shape0-dev_1.10-2ubuntu1_amd64.deb ...
Unpacking libxcb-shape0-dev:amd64 (1.10-2ubuntu1) ...
Selecting previously unselected package libxcb-xfixes0-dev:amd64.
Preparing to unpack .../libxcb-xfixes0-dev_1.10-2ubuntu1_amd64.deb ...
Unpacking libxcb-xfixes0-dev:amd64 (1.10-2ubuntu1) ...
Selecting previously unselected package libxcb-sync-dev:amd64.
Preparing to unpack .../libxcb-sync-dev_1.10-2ubuntu1_amd64.deb ...
Unpacking libxcb-sync-dev:amd64 (1.10-2ubuntu1) ...
Selecting previously unselected package libxcb-present-dev:amd64.
Preparing to unpack .../libxcb-present-dev_1.10-2ubuntu1_amd64.deb ...
Unpacking libxcb-present-dev:amd64 (1.10-2ubuntu1) ...
Selecting previously unselected package libxshmfence-dev:amd64.
Preparing to unpack .../libxshmfence-dev_1.1-2_amd64.deb ...
Unpacking libxshmfence-dev:amd64 (1.1-2) ...
Selecting previously unselected package libxcb-dri2-0-dev:amd64.
Preparing to unpack .../libxcb-dri2-0-dev_1.10-2ubuntu1_amd64.deb ...
Unpacking libxcb-dri2-0-dev:amd64 (1.10-2ubuntu1) ...
Selecting previously unselected package libxcb-glx0-dev:amd64.
Preparing to unpack .../libxcb-glx0-dev_1.10-2ubuntu1_amd64.deb ...
Unpacking libxcb-glx0-dev:amd64 (1.10-2ubuntu1) ...
Selecting previously unselected package x11proto-xext-dev.
Preparing to unpack .../x11proto-xext-dev_7.3.0-1_all.deb ...
Unpacking x11proto-xext-dev (7.3.0-1) ...
Selecting previously unselected package x11proto-fixes-dev.
Preparing to unpack .../x11proto-fixes-dev_1%3a5.0-2ubuntu2_all.deb ...
Unpacking x11proto-fixes-dev (1:5.0-2ubuntu2) ...
Selecting previously unselected package libxfixes-dev:amd64.
Preparing to unpack .../libxfixes-dev_1%3a5.0.1-1ubuntu1.1_amd64.deb ...
Unpacking libxfixes-dev:amd64 (1:5.0.1-1ubuntu1.1) ...
Selecting previously unselected package x11proto-damage-dev.
Preparing to unpack .../x11proto-damage-dev_1%3a1.2.1-2_all.deb ...
Unpacking x11proto-damage-dev (1:1.2.1-2) ...
Selecting previously unselected package libxdamage-dev:amd64.
Preparing to unpack .../libxdamage-dev_1%3a1.1.4-1ubuntu1_amd64.deb ...
Unpacking libxdamage-dev:amd64 (1:1.1.4-1ubuntu1) ...
Selecting previously unselected package libxext-dev:amd64.
Preparing to unpack .../libxext-dev_2%3a1.3.2-1ubuntu0.0.14.04.1_amd64.deb ...
Unpacking libxext-dev:amd64 (2:1.3.2-1ubuntu0.0.14.04.1) ...
Selecting previously unselected package x11proto-xf86vidmode-dev.
Preparing to unpack .../x11proto-xf86vidmode-dev_2.3.1-2_all.deb ...
Unpacking x11proto-xf86vidmode-dev (2.3.1-2) ...
Selecting previously unselected package libxxf86vm-dev:amd64.
Preparing to unpack .../libxxf86vm-dev_1%3a1.1.3-1_amd64.deb ...
Unpacking libxxf86vm-dev:amd64 (1:1.1.3-1) ...
Selecting previously unselected package x11proto-dri2-dev.
Preparing to unpack .../x11proto-dri2-dev_2.8-2_all.deb ...
Unpacking x11proto-dri2-dev (2.8-2) ...
Selecting previously unselected package x11proto-glx-dev.
Preparing to unpack .../x11proto-glx-dev_1.4.17-1_all.deb ...
Unpacking x11proto-glx-dev (1.4.17-1) ...
Selecting previously unselected package libgl1-mesa-dev.
Preparing to unpack .../libgl1-mesa-dev_10.1.3-0ubuntu0.4_amd64.deb ...
Unpacking libgl1-mesa-dev (10.1.3-0ubuntu0.4) ...
Selecting previously unselected package libglu1-mesa-dev.
Preparing to unpack .../libglu1-mesa-dev_9.0.0-2_amd64.deb ...

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Unpacking libglul-mesa-dev (9.0.0-2) ...
Selecting previously unselected package libice-dev:amd64.
Preparing to unpack .../libice-dev_2%3a1.0.8-2_amd64.deb ...
Unpacking libice-dev:amd64 (2:1.0.8-2) ...
Selecting previously unselected package libsm-dev:amd64.
Preparing to unpack .../libsm-dev_2%3a1.2.1-2_amd64.deb ...
Unpacking libsm-dev:amd64 (2:1.2.1-2) ...
Selecting previously unselected package libxt-dev:amd64.
Preparing to unpack .../libxt-dev_1%3a1.1.4-1_amd64.deb ...
Unpacking libxt-dev:amd64 (1:1.1.4-1) ...
Selecting previously unselected package freeglut3-dev:amd64.
Preparing to unpack .../freeglut3-dev_2.8.1-1_amd64.deb ...
Unpacking freeglut3-dev:amd64 (2.8.1-1) ...
Selecting previously unselected package libxmu-headers.
Preparing to unpack .../libxmu-headers_2%3a1.1.1-1_all.deb ...
Unpacking libxmu-headers (2:1.1.1-1) ...
Selecting previously unselected package libxmu-dev:amd64.
Preparing to unpack .../libxmu-dev_2%3a1.1.1-1_amd64.deb ...
Unpacking libxmu-dev:amd64 (2:1.1.1-1) ...
Selecting previously unselected package libxi-dev.
Preparing to unpack .../libxi-dev_2%3a1.7.1.901-1ubuntu1.1_amd64.deb ...
Unpacking libxi-dev (2:1.7.1.901-1ubuntu1.1) ...
Selecting previously unselected package cuda-samples-7-5.
Preparing to unpack .../cuda-samples-7-5_7.5-18_amd64.deb ...
Unpacking cuda-samples-7-5 (7.5-18) ...
Selecting previously unselected package cuda-documentation-7-5.
Preparing to unpack .../cuda-documentation-7-5_7.5-18_amd64.deb ...
Unpacking cuda-documentation-7-5 (7.5-18) ...
Selecting previously unselected package cuda-visual-tools-7-5.
Preparing to unpack .../cuda-visual-tools-7-5_7.5-18_amd64.deb ...
Unpacking cuda-visual-tools-7-5 (7.5-18) ...
Selecting previously unselected package cuda-toolkit-7-5.
Preparing to unpack .../cuda-toolkit-7-5_7.5-18_amd64.deb ...
Unpacking cuda-toolkit-7-5 (7.5-18) ...
Selecting previously unselected package nvidia-352.
Preparing to unpack .../nvidia-352_352.39-0ubuntu1_amd64.deb ...
Unpacking nvidia-352 (352.39-0ubuntu1) ...
Selecting previously unselected package nvidia-352-ufv.
Preparing to unpack .../nvidia-352-ufv_352.39-0ubuntu1_amd64.deb ...
Unpacking nvidia-352-ufv (352.39-0ubuntu1) ...
Selecting previously unselected package nvidia-352-dev.
Preparing to unpack .../nvidia-352-dev_352.39-0ubuntu1_amd64.deb ...
Unpacking nvidia-352-dev (352.39-0ubuntu1) ...
Selecting previously unselected package nvidia-modprobe.
Preparing to unpack .../nvidia-modprobe_352.39-0ubuntu1_amd64.deb ...
Unpacking nvidia-modprobe (352.39-0ubuntu1) ...
Selecting previously unselected package libxnvctrl0.
Preparing to unpack .../libxnvctrl0_352.39-0ubuntu1_amd64.deb ...
Unpacking libxnvctrl0 (352.39-0ubuntu1) ...
Preparing to unpack .../nvidia-settings_352.39-0ubuntu1_amd64.deb ...
Unpacking nvidia-settings (352.39-0ubuntu1) over (331.20-0ubuntu8) ...
Selecting previously unselected package nvidia-opengl-icd-352.
Preparing to unpack .../nvidia-opengl-icd-352_352.39-0ubuntu1_amd64.deb ...
Unpacking nvidia-opengl-icd-352 (352.39-0ubuntu1) ...
Selecting previously unselected package cuda-drivers.
Preparing to unpack .../cuda-drivers_352.39-1_amd64.deb ...
Unpacking cuda-drivers (352.39-1) ...
Selecting previously unselected package cuda-runtime-7-5.
```



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Preparing to unpack .../cuda-runtime-7-5_7.5-18_amd64.deb ...
Unpacking cuda-runtime-7-5 (7.5-18) ...
Selecting previously unselected package cuda-7-5.
Preparing to unpack ..././cuda-7-5_7.5-18_amd64.deb ...
Unpacking cuda-7-5 (7.5-18) ...
Selecting previously unselected package cuda.
Preparing to unpack ..././cuda_7.5-18_amd64.deb ...
Unpacking cuda (7.5-18) ...
Processing triggers for man-db (2.6.7.1-1ubuntu1) ...
Processing triggers for ureadahead (0.100.0-16) ...
ureadahead will be reprofiled on next reboot
Processing triggers for gnome-menus (3.10.1-0ubuntu2) ...
Processing triggers for desktop-file-utils (0.22-1ubuntu1) ...
Processing triggers for mime-support (3.54ubuntu1) ...
Setting up libcudal-352 (352.39-0ubuntu1) ...
Setting up libxext6:i386 (2:1.3.2-1ubuntu0.0.14.04.1) ...
Setting up libxext6:amd64 (2:1.3.2-1ubuntu0.0.14.04.1) ...
Setting up libxfixes3:i386 (1:5.0.1-1ubuntu1.1) ...
Setting up libxfixes3:amd64 (1:5.0.1-1ubuntu1.1) ...
Setting up libxi6:i386 (2:1.7.1.901-1ubuntu1.1) ...
Setting up libxi6:amd64 (2:1.7.1.901-1ubuntu1.1) ...
Setting up libdrm2:amd64 (2.4.60-2~ubuntu14.04.1) ...
Setting up libdrm2:i386 (2.4.60-2~ubuntu14.04.1) ...
Setting up libdrm-nouveau2:amd64 (2.4.60-2~ubuntu14.04.1) ...
Setting up libdrm-nouveau2:i386 (2.4.60-2~ubuntu14.04.1) ...
Setting up libdrm-radeon1:amd64 (2.4.60-2~ubuntu14.04.1) ...
Setting up libdrm-radeon1:i386 (2.4.60-2~ubuntu14.04.1) ...
Setting up libegl1-mesa:amd64 (10.1.3-0ubuntu0.4) ...
Setting up libglapi-mesa:amd64 (10.1.3-0ubuntu0.4) ...
Setting up libglapi-mesa:i386 (10.1.3-0ubuntu0.4) ...
Setting up libwayland-egl1-mesa:amd64 (10.1.3-0ubuntu0.4) ...
Setting up libegl1-mesa-drivers:amd64 (10.1.3-0ubuntu0.4) ...
Setting up libgles2-mesa:amd64 (10.1.3-0ubuntu0.4) ...
Setting up libgl1-mesa-glx:i386 (10.1.3-0ubuntu0.4) ...
Setting up libgl1-mesa-glx:amd64 (10.1.3-0ubuntu0.4) ...
Setting up freeglut3:amd64 (2.8.1-1) ...
Setting up libdrm-intel1:amd64 (2.4.60-2~ubuntu14.04.1) ...
Setting up libdrm-intel1:i386 (2.4.60-2~ubuntu14.04.1) ...
Setting up libjansson4:amd64 (2.5-2) ...
Setting up libdpkg-perl (1.17.5ubuntu5.4) ...
Setting up dpkg-dev (1.17.5ubuntu5.4) ...
Setting up build-essential (11.6ubuntu6) ...
Setting up cuda-license-7-5 (7.5-18) ...
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Setting up cuda-misc-headers-7-5 (7.5-18) ...
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Setting up cuda-core-7-5 (7.5-18) ...
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Setting up cuda-cudart-7-5 (7.5-18) ...
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Setting up cuda-driver-dev-7-5 (7.5-18) ...
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Setting up cuda-cudart-dev-7-5 (7.5-18) ...

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Setting up cuda-nvrtc-dev-7-5 (7.5-18) ...
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Setting up cuda-cusolver-dev-7-5 (7.5-18) ...
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Setting up cuda-cufft-dev-7-5 (7.5-18) ...
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Setting up cuda-cusparse-dev-7-5 (7.5-18) ...
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Setting up cuda-npp-dev-7-5 (7.5-18) ...
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Setting up xorg-sgml-doctools (1:1.11-1) ...
Setting up x11proto-core-dev (7.0.26-1~ubuntu2) ...
Setting up libxau-dev:amd64 (1:1.0.8-1) ...
Setting up libxdmcp-dev:amd64 (1:1.1.1-1) ...
Setting up x11proto-input-dev (2.3-1) ...
Setting up x11proto-kb-dev (1.0.6-2) ...
Setting up xtrans-dev (1.3.5-1~ubuntu14.04.1) ...
Setting up libpthread-stubs0-dev:amd64 (0.3-4) ...
Setting up libxcb1-dev:amd64 (1.10-2ubuntu1) ...
Setting up libx11-dev:amd64 (2:1.6.2-1ubuntu2) ...
Setting up libdrm-dev:amd64 (2.4.60-2~ubuntu14.04.1) ...
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Setting up mesa-common-dev (10.1.3-0ubuntu0.4) ...
Setting up libx11-xcb-dev:amd64 (2:1.6.2-1ubuntu2) ...
Setting up libxcb-dri3-dev:amd64 (1.10-2ubuntu1) ...
Setting up libxcb-render0-dev:amd64 (1.10-2ubuntu1) ...
Setting up libxcb-randr0-dev:amd64 (1.10-2ubuntu1) ...
Setting up libxcb-shape0-dev:amd64 (1.10-2ubuntu1) ...
Setting up libxcb-xfixes0-dev:amd64 (1.10-2ubuntu1) ...
Setting up libxcb-sync-dev:amd64 (1.10-2ubuntu1) ...
Setting up libxcb-present-dev:amd64 (1.10-2ubuntu1) ...
Setting up libxshmfence-dev:amd64 (1.1-2) ...
Setting up libxcb-dri2-0-dev:amd64 (1.10-2ubuntu1) ...
Setting up libxcb-glx0-dev:amd64 (1.10-2ubuntu1) ...
Setting up x11proto-xext-dev (7.3.0-1) ...
Setting up x11proto-fixes-dev (1:5.0-2ubuntu2) ...
Setting up libxfixes-dev:amd64 (1:5.0.1-1ubuntu1.1) ...
Setting up x11proto-damage-dev (1:1.2.1-2) ...
Setting up libxdamage-dev:amd64 (1:1.1.4-1ubuntu1) ...
Setting up libxext-dev:amd64 (2:1.3.2-1ubuntu0.0.14.04.1) ...
Setting up x11proto-xf86vidmode-dev (2.3.1-2) ...
Setting up libxxf86vm-dev:amd64 (1:1.1.3-1) ...
Setting up x11proto-dri2-dev (2.8-2) ...
Setting up x11proto-glx-dev (1.4.17-1) ...
Setting up libgl1-mesa-dev (10.1.3-0ubuntu0.4) ...
Setting up libglu1-mesa-dev (9.0.0-2) ...
Setting up libice-dev:amd64 (2:1.0.8-2) ...
Setting up libsm-dev:amd64 (2:1.2.1-2) ...
Setting up libxt-dev:amd64 (1:1.1.4-1) ...
Setting up freeglut3-dev:amd64 (2.8.1-1) ...
Setting up libxmu-headers (2:1.1.1-1) ...
Setting up libxmu-dev:amd64 (2:1.1.1-1) ...
Setting up libxi-dev (2:1.7.1.901-1ubuntu1.1) ...
Setting up cuda-samples-7-5 (7.5-18) ...
Setting up cuda-documentation-7-5 (7.5-18) ...
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Setting up cuda-visual-tools-7-5 (7.5-18) ...
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Setting up cuda-toolkit-7-5 (7.5-18) ...
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Setting up nvidia-352 (352.39-0ubuntu1) ...
update-alternatives: using /usr/lib/nvidia-352/ld.so.conf to provide /etc/ld.so.conf.d/x86_64-linux-g
update-alternatives: using /usr/lib/nvidia-352/alt_ld.so.conf to provide /etc/ld.so.conf.d/i386-linux-g
update-alternatives: using /usr/share/nvidia-352/glamor.conf to provide /usr/share/X11/xorg.conf.d/g
update-initramfs: deferring update (trigger activated)

A modprobe blacklist file has been created at /etc/modprobe.d to prevent Nouveau from loading. This c
A new initrd image has also been created. To revert, please replace /boot/initrd-3.13.0-37-generic w

*****
*** Reboot your computer and verify that the NVIDIA graphics driver can ***
*** be loaded. ***
*****

INFO:Enable nvidia-352
DEBUG:Parsing /usr/share/ubuntu-drivers-common/quirks/lenovo_thinkpad
DEBUG:Parsing /usr/share/ubuntu-drivers-common/quirks/dell_latitude

```

```
DEBUG:Parsing /usr/share/ubuntu-drivers-common/quirks/put_your_quirks_here
Adding system user `nvidia-persistenced' (UID 117) ...
Adding new group `nvidia-persistenced' (GID 125) ...
Adding new user `nvidia-persistenced' (UID 117) with group `nvidia-persistenced' ...
Not creating home directory `/'.
Loading new nvidia-352-352.39 DKMS files...
First Installation: checking all kernels...
Building only for 3.13.0-37-generic
Building for architecture x86_64
Building initial module for 3.13.0-37-generic
Error! Bad return status for module build on kernel: 3.13.0-37-generic (x86_64)
Consult /var/lib/dkms/nvidia-352/352.39/build/make.log for more information.
Setting up nvidia-352-uvvm (352.39-0ubuntu1) ...
Setting up nvidia-352-dev (352.39-0ubuntu1) ...
Setting up nvidia-modprobe (352.39-0ubuntu1) ...
Setting up libxnvctrl0 (352.39-0ubuntu1) ...
Setting up nvidia-settings (352.39-0ubuntu1) ...
Setting up nvidia-opencl-icd-352 (352.39-0ubuntu1) ...
Setting up cuda-drivers (352.39-1) ...
Setting up cuda-runtime-7-5 (7.5-18) ...
Setting up cuda-7-5 (7.5-18) ...
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*****
*** Please reboot your computer and verify that the nvidia graphics driver is loaded. ***
*** If the driver fails to load, please use the NVIDIA graphics driver .run installer ***
*** to get into a stable state. ***
*****
Setting up cuda (7.5-18) ...
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Processing triggers for libc-bin (2.19-0ubuntu6.3) ...
Processing triggers for initramfs-tools (0.103ubuntu4.2) ...
update-initramfs: Generating /boot/initrd.img-3.13.0-37-generic
Warning: No support for locale: en_US.utf8
```

7.2 SBIA workstation setup (misc-sbia-setups.rst)

7.2.1 Stuffs installed

Important: I'm sure there's bunch of other softwares I apt-get 'ed. Below are just some subset I feel is important.

```
sudo apt-get install padre
sudo cpan Wx

# these i needed for R's mclust package
sudo apt-get install liblapack-dev
sudo apt-get install libblas-dev

# to ssh into this workstation
sudo apt-get install openssh-server
```

```
sudo apt-get install finger  
sudo apt-get install colordiff
```

```
# 09-03-2016 (01:33)  
sudo apt-get install nodejs
```

```
>>> # test this  
>>> print "hello"
```