Data Integration with DUI:

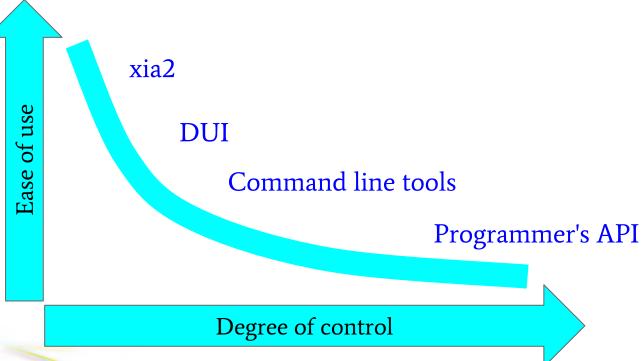
Dr. Luis Fuentes-Montero (Luiso)







Levels of interaction with Dials

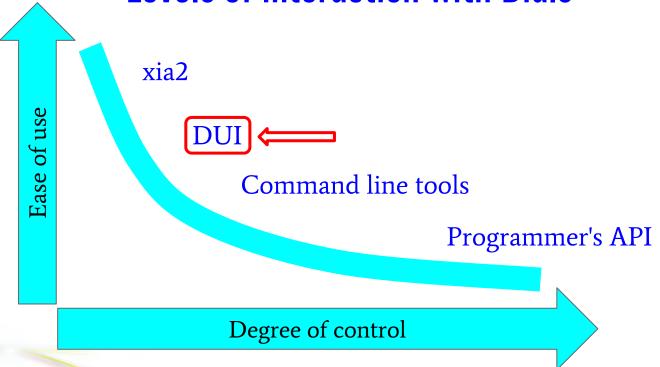








Levels of interaction with Dials









What is DUI?









What is DUI?

Drive Under Influence









What is DUI?









What is DUI? Dials User Interface

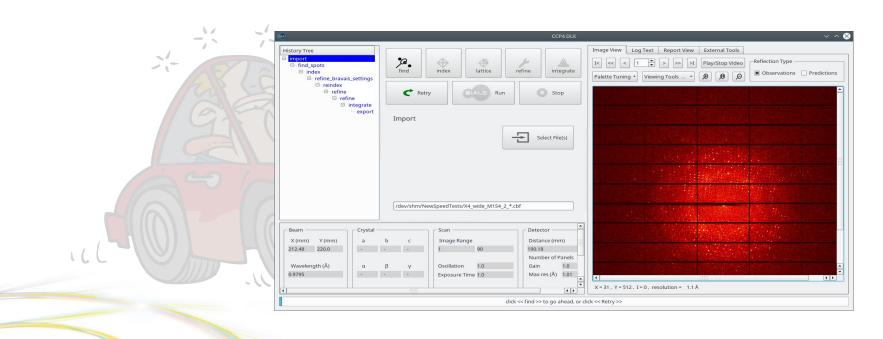








What is DUI? Dials User Interface

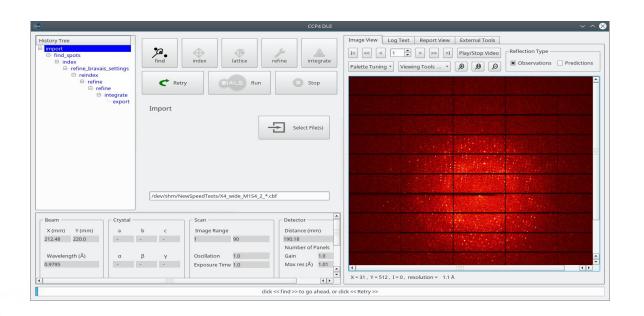








What is DUI? Dials User Interface





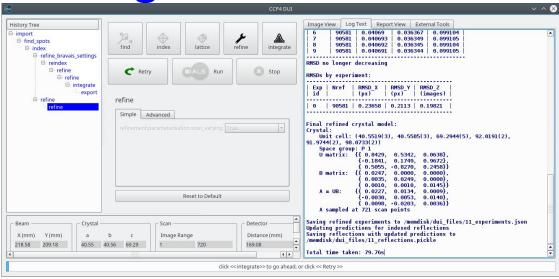








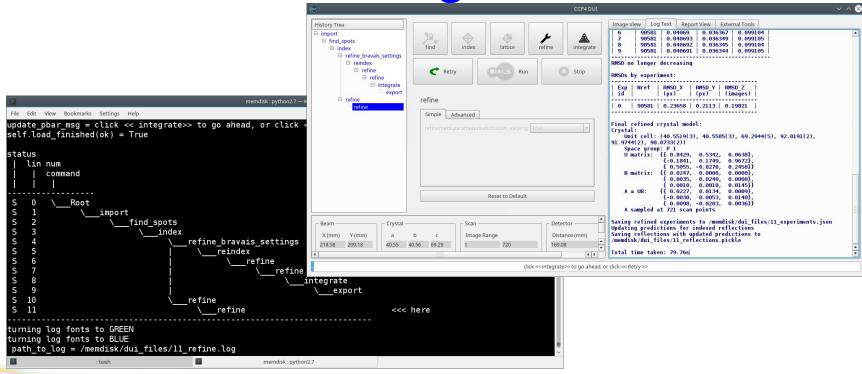


















```
File Edit View Bookmarks Settings Help
update_pbar_msg = click << integrate>> to go ahead, or click << Retry >>
self.load finished(ok) = True
status
   lin num
        command
        \ Root
                   import
                        _find_spots
                            \ index
                                      _refine_bravais_settings
                                        \ reindex
                                               \ refine
                                                      ___refine
    8
9
10
                                                               integrate
                                                                  \ export
                                      refine
                                        \ refine
                                                                                  <<< here
turning log fonts to GREEN
turning log fonts to BLUE
path_to_log = /memdisk/dui_files/11_refine.log
                                                      memdisk: python2.7
```







```
File Edit View Bookmarks Settings Help
                                      failed to << check_gray_outs() >>
                                      update pbar msg = click dials icon to run refine
                                      found val. v= True
                                      run clicked
                                        ...currentWidget(ref) = <mini idials w GUI.custom widgets.ParamWidget object at 0x7fef23dc6b98>
                                      cmd tmp = ['refine'. 'refinement.parameterisation.scan varving=True']
                                      starting motion
File Edit View Bookmarks Settings Help
                                      cmd lst to run = ['dials.refine', 'refinement.parameterisation.scan varying=True', 'input.experiments
update pbar msg = click << integrate>
                                      =/memdisk/dui_files/10_experiments.json', 'input.reflections=/memdisk/dui_files/10_reflections.pickle
self.load finished(ok) = True
                                        . <u>'output.experiments=/me</u>mdisk/dui files/ll experiments.json', 'output.reflections=/memdisk/dui file,
                                      s/11 reflections.pickle', 'output.log=/memdisk/dui files/11 refine.log', 'output.debug log=/memdisk/d
status
                                      ui files/11 refine.debug.log'l
   lin num
        command
                                        [[ running >>
                                      dials.refine
        \ Root
                                      refinement.parameterisation.scan varying=True
import
                                      input.experiments=/memdisk/dui files/10 experiments.json
    2
                         find spots
                                      input.reflections=/memdisk/dui_files/10_reflections.pickle
                               index
                                      output.experiments=/memdisk/dui files/11 experiments.json
                                      output.reflections=/memdisk/dui_files/11_reflections.pickle
                                      output log=/memdisk/dui files/11 refine log
                                      output.debug log=/memdisk/dui files/11 refine.debug.log
    9
                                                                                             memdisk: python2.7
   10
                                      refine
                                          refine
                                                                                 <<< here
turning log fonts to GREEN
turning log fonts to BLUE
path to log = /memdisk/dui files/11 refine.log
                                                      memdisk: python2.7
```







```
File Edit View Bookmarks Settings Help
failed to << check_gray_outs() >>
update pbar msg = click dials icon to run refine
found val. v= True
run clicked
 ...currentWidget(ref) = <mini idials w GUI.custom widgets.ParamWidget object at 0x7fef23dc6b98>
cmd tmp = ['refine', 'refinement.parameterisation.scan varying=True']
starting motion
cmd lst to run = ['dials.refine', 'refinement.parameterisation.scan varying=True', 'input.experiments
=/memdisk/dui_files/10_experiments.json', 'input.reflections=/memdisk/dui_files/10_reflections.pickle
 , 'output.experiments=/memdisk/dui files/11 experiments.json', 'output.reflections=/memdisk/dui file
s/11 reflections.pickle', 'output.log=/memdisk/dui files/11 refine.log', 'output.debug log=/memdisk/d
ui files/11 refine.debug.log'l
 [[ running >>
dials.refine
refinement.parameterisation.scan varying=True
input.experiments=/memdisk/dui files/10 experiments.json
input.reflections=/memdisk/dui files/10 reflections.pickle
output.experiments=/memdisk/dui files/11 experiments.json
output.reflections=/memdisk/dui_files/11_reflections.pickle
output log=/memdisk/dui files/11 refine log
output.debug log=/memdisk/dui files/11 refine.debug.log
                                                     memdisk: python2.7
```







```
File Edit View Bookmarks Settings Help
failed to << check_gray_outs() >>
update pbar msg = click dials icon to run refine
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run clicked
 ...currentWidget(ref) = <mini idials w GUI.custom widgets.ParamWidget object at 0x7fef23dc6b98>
cmd tmp = ['refine', 'refinement.parameterisation.scan varying=True']
starting motion
cmd lst to run = ['dials.refine', 'refinement.parameterisation.scan varying=True', 'input.experiments
=/memdisk/dui_files/10_experiments.json', 'input.reflections=/memdisk/dui_files/10_reflections.pickle
  output.experiments=/memdisk/dui files/11 experiments.json', 'output.reflections=/memdisk/dui file '
s/11 reflections.pickle', 'output.log=/memdisk/dui files/11 refine.log', 'output.debug log=/memdisk/d
ui files/11 refine debug log'l
 [[ running >>
dials.refine
refinement.parameterisation.scan_varying=True
input.experiments=/memdisk/dui files/10 experiments.json
input.reflections=/memdisk/dui files/10 reflections.pickle
output.experiments=/memdisk/dui files/11 experiments.json
output.reflections=/memdisk/dui_files/11_reflections.pickle
output.log=/memdisk/dui files/11 refine.log
output.debug log=/memdisk/dui files/11 refine.debug.log
                  : bash
                                                     memdisk: python2.7
```







```
dials.refine
refinement.parameterisation.scan varying=True
input.experiments=/memdisk/dui files/10 experiments.json
input.reflections=/memdisk/dui files/10 reflections.pickle
output.experiments=/memdisk/dui files/11 experiments.json
output.reflections=/memdisk/dui files/11 reflections.pickle
output.log=/memdisk/dui files/11 refine.log
output.debug log=/memdisk/dui files/11 refine.debug.log
                lials.refine
                refinement.parameterisation.scan varying=True
                input.experiments=/memdisk/dui files/10 experiments.json
                input.reflections=/memdisk/dui files/10 reflections.pickle
                output.experiments=/memdisk/du\bar{i} files/1\bar{1} experiments.json
               output.reflections=/memdisk/dui_files/11_reflections.pickle
               output.log=/memdisk/dui files/11 refine.log
                output.debug log=/memdisk/dui files/11 refine.debug.log
                                                   memdisk: python2.7
```





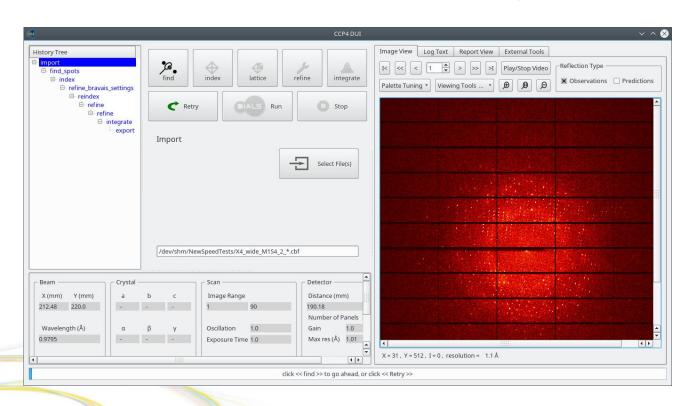








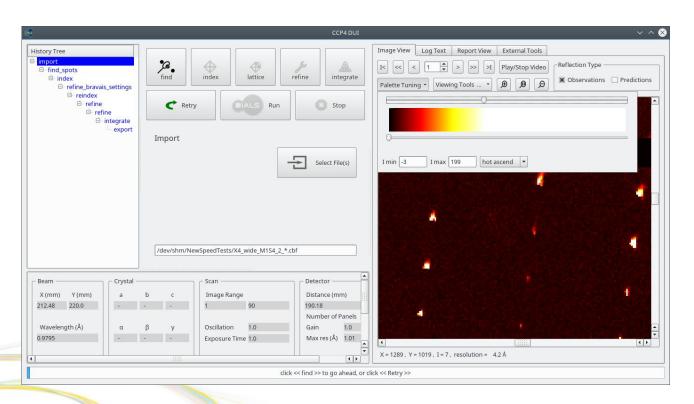












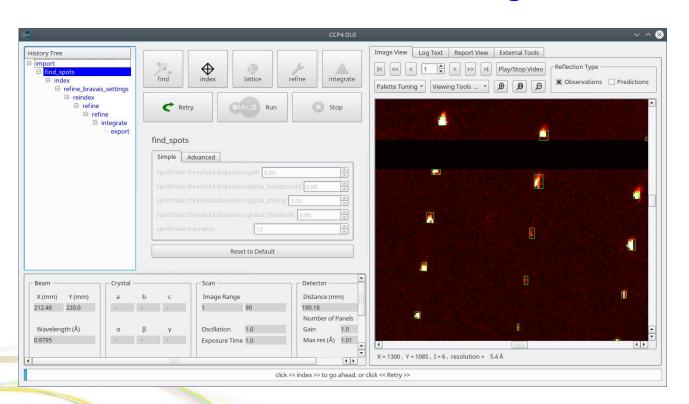
Adjustable

Image Palette









Updates

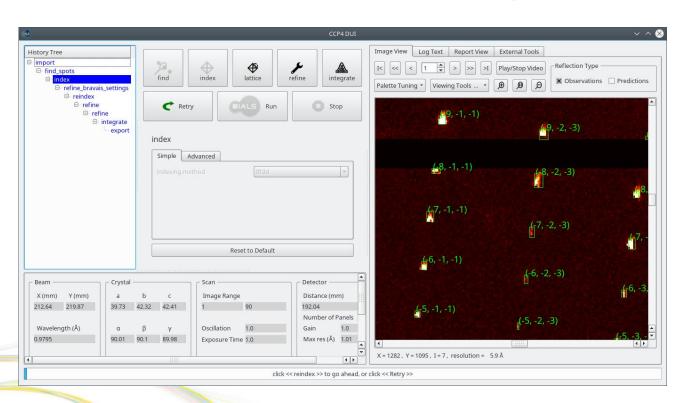
With

Processing









Updates

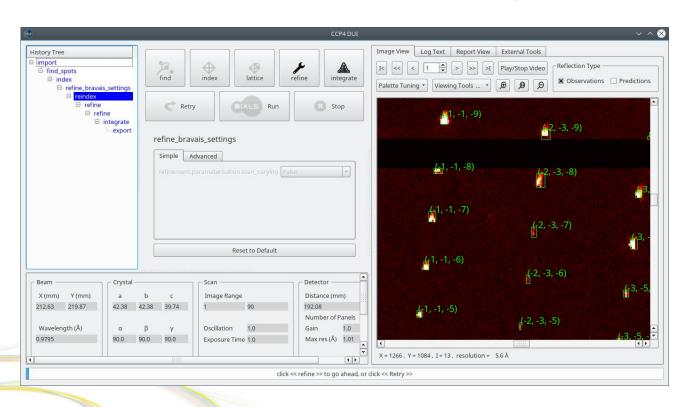
With

Processing









Updates

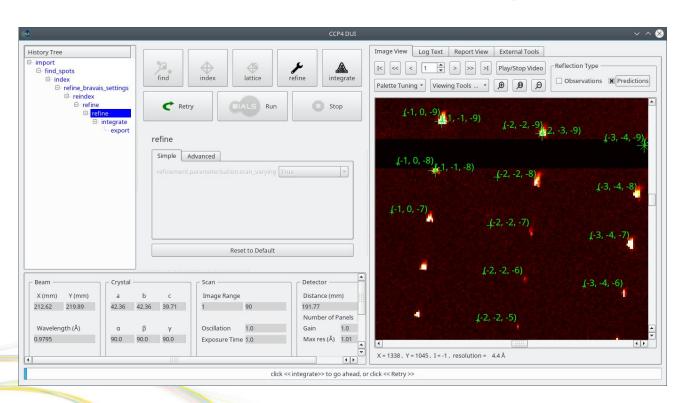
With

Processing









Updates

With

Processing









Updates

With

Processing



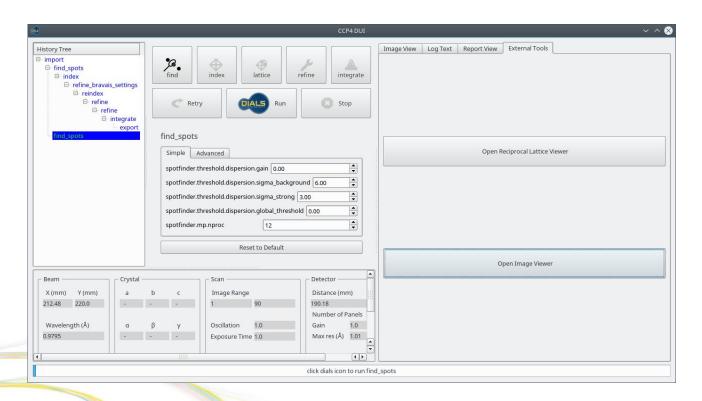








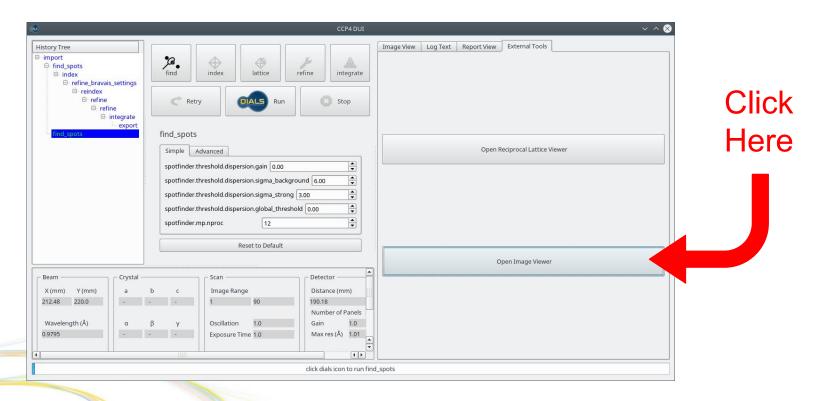








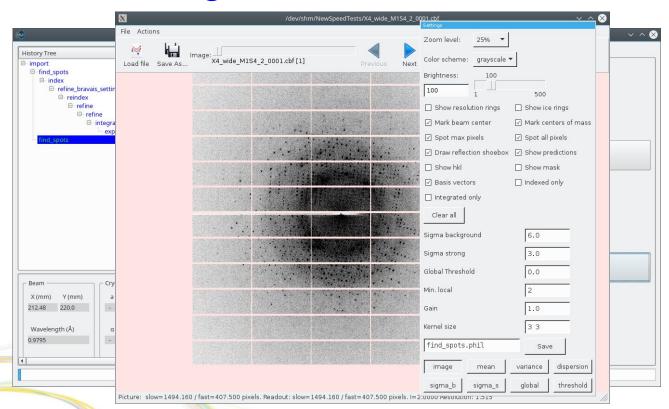








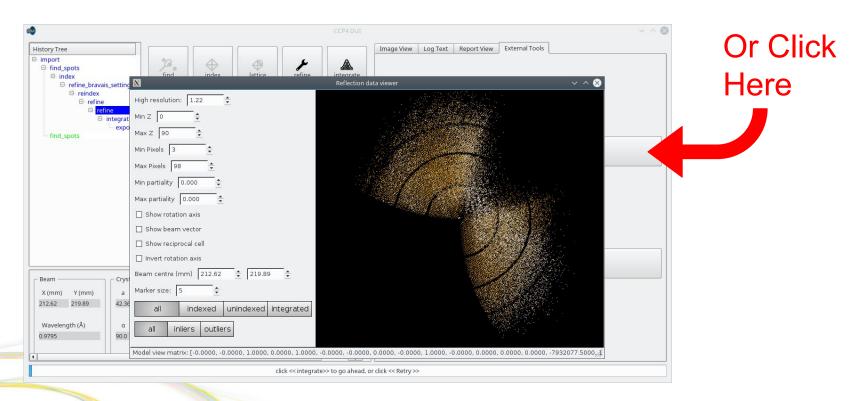


















Log Text

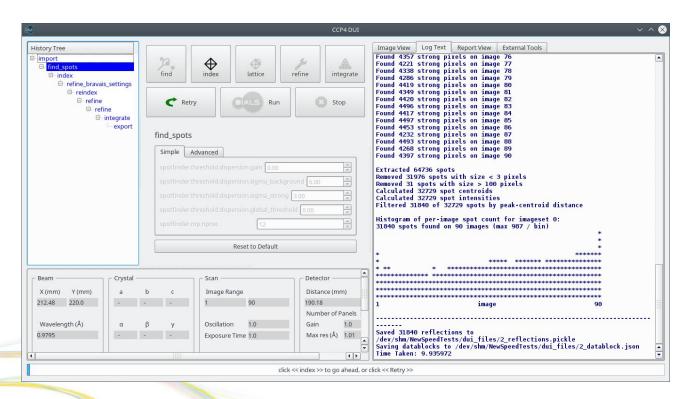








Log Text



Shows output of

Processing Commands



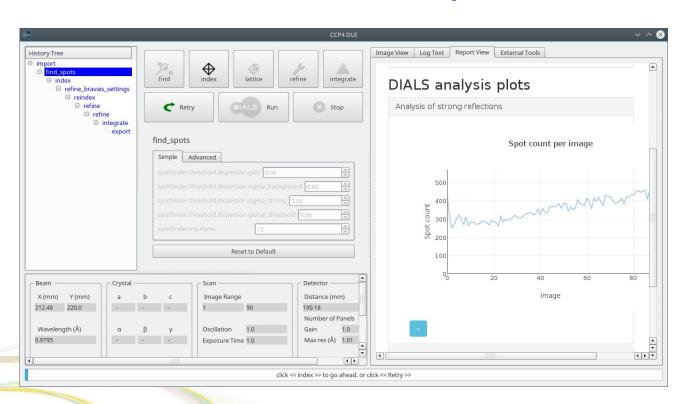












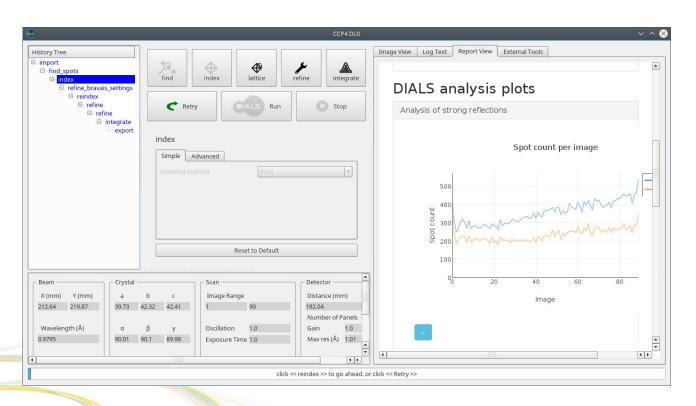
runs:

dials.report









runs:

dials.report









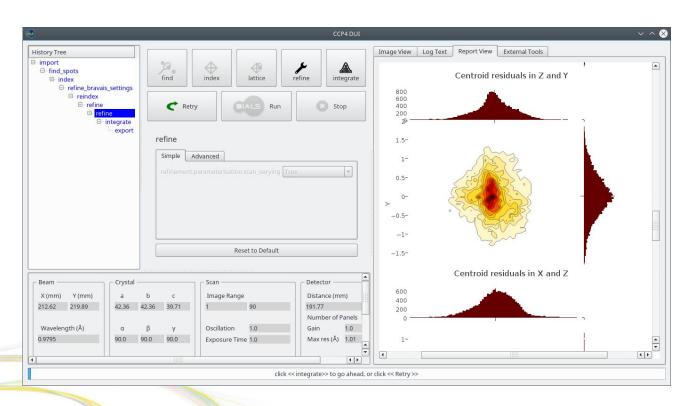
runs:

dials.report









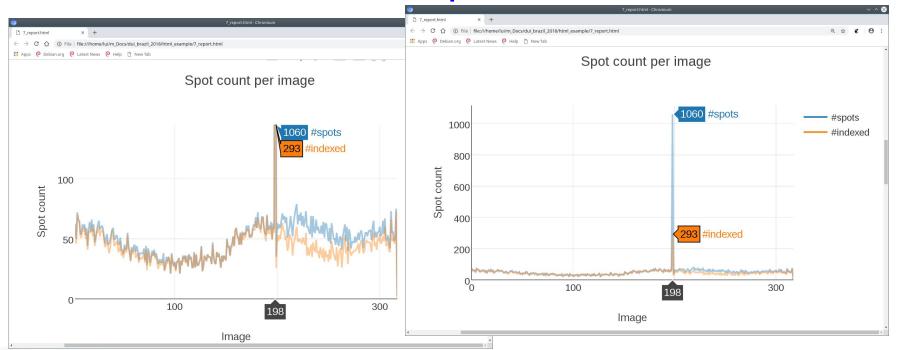
runs:

dials.report









A case where something went terribly wrong

















Never be afraid to:









Never be afraid to:









Never be afraid to:









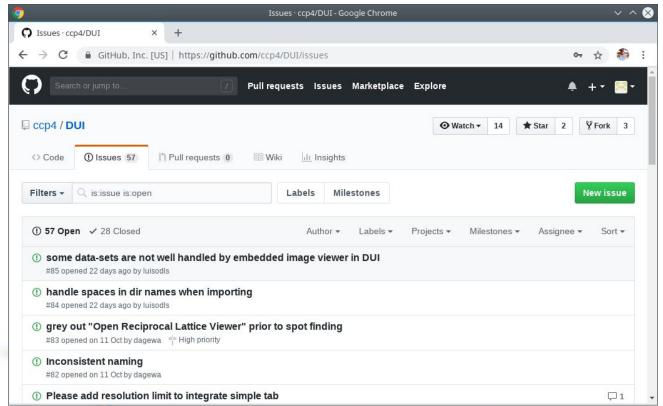
Never be afraid to:







https://github.com/ccp4/DUI/issues









Links:

- http://dials.diamond.ac.uk/
- https://github.com/ccp4/DUI/issues

Giving feedback

Github account: ccp4brazil

Pasword: brazilccp4



























