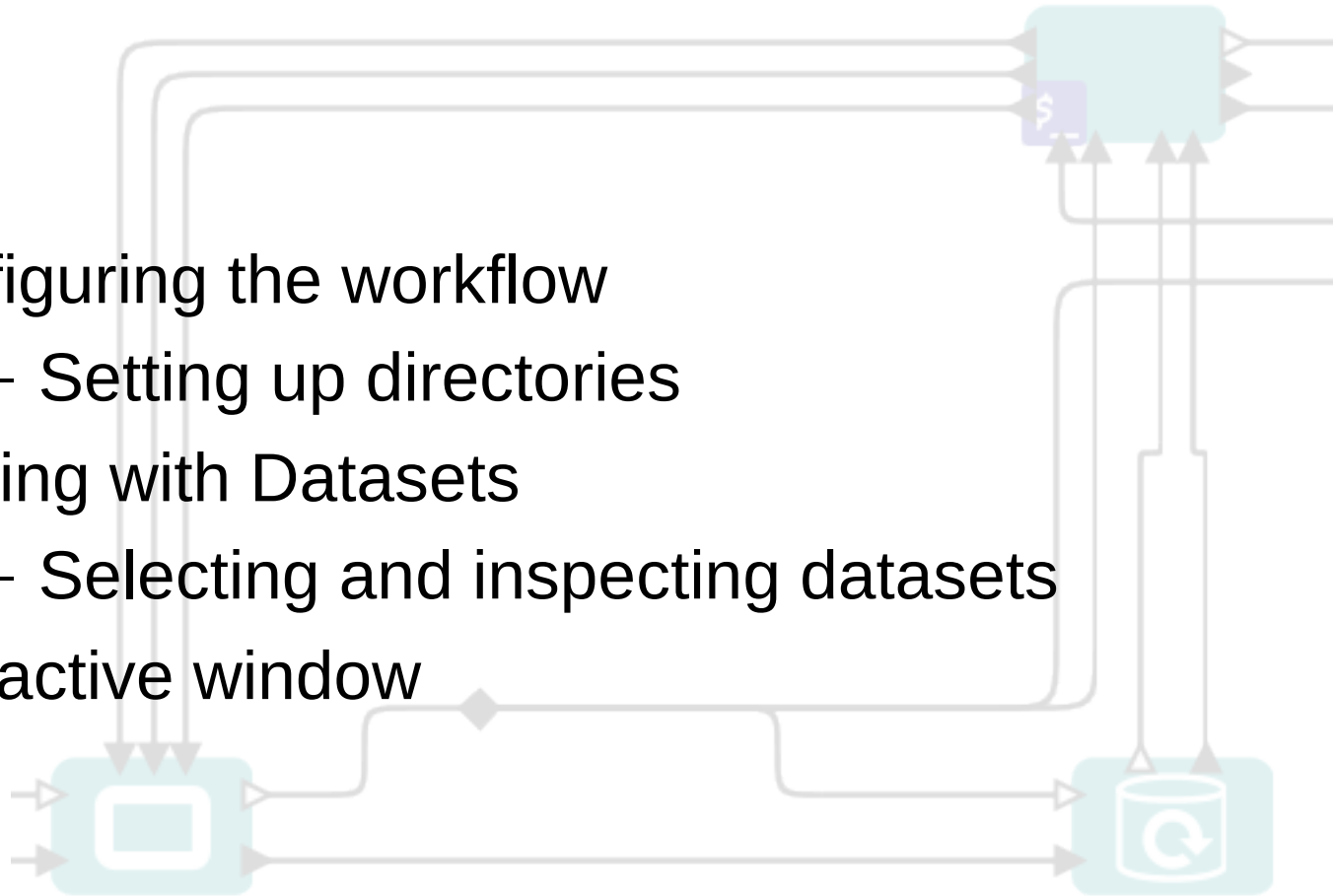


General Features of REFLEX Workflows



Outline

- Configuring the workflow
 - Setting up directories
- Dealing with Datasets
 - Selecting and inspecting datasets
- Interactive window



Selection of DataSets

Select Frames

	Sel	Category	Keyword	Value
UVES.2008-10-26T00:24:47.790.fits	<input checked="" type="checkbox"/>	SCI_POINT_RED	SIMPLE	T
UV_GEXT_031013A_extcoeff_table.fits	<input checked="" type="checkbox"/>	EXTCOEFF_TABLE	BITPIX	16
ORDERDEF_ECH_RED	<input checked="" type="checkbox"/>		NAXIS	0
UVES.2008-10-26T13:40:55.030.fits	<input checked="" type="checkbox"/>	ORDER_FLAT_RED	EXTEND	T
BIAS_RED	<input checked="" type="checkbox"/>		ORIGIN	ESO
UVES.2008-10-26T11:51:26.797.fits	<input checked="" type="checkbox"/>	BIAS_RED	DATE	2009-04-01T14:4...
UVES.2008-10-26T11:52:13.602.fits	<input checked="" type="checkbox"/>	BIAS_RED	TELESCOP	ESO-VLT-U2
UVES.2008-10-26T11:53:00.395.fits	<input checked="" type="checkbox"/>	BIAS_RED	INSTRUME	UVES
UVES.2008-10-26T11:53:47.189.fits	<input checked="" type="checkbox"/>	BIAS_RED	OBJECT	BIAS
UVES.2008-10-26T11:54:34.644.fits	<input checked="" type="checkbox"/>	BIAS_RED	RA	130.295990
FMTCHK_ECH_RED	<input checked="" type="checkbox"/>		DEC	-32.91643
WAVE_ECH_RED	<input checked="" type="checkbox"/>		EQUINOX	2000.
UVES.2008-10-26T13:38:53.009.fits	<input checked="" type="checkbox"/>	ARC_LAMP_RED	RADECSYS	FK5
UV_GLRE_070222A_line_refer_table.fits	<input checked="" type="checkbox"/>	LINE_REFER_TABLE	EXPTIME	0.0000
BIAS_RED	<input checked="" type="checkbox"/>		MJD-OBS	54765.49460187
UVES.2008-10-26T11:51:26.797.fits	<input type="checkbox"/>	BIAS_RED	DATE-OBS	2008-10-26T11:5...
UVES.2008-10-26T11:52:13.602.fits	<input type="checkbox"/>	BIAS_RED	UTC	42726.000
UVES.2008-10-26T11:53:00.395.fits	<input checked="" type="checkbox"/>	BIAS_RED	LST	34283.068
UVES.2008-10-26T11:53:47.189.fits	<input checked="" type="checkbox"/>	BIAS_RED	PI-COI	UVES Operation T...
UVES.2008-10-26T11:54:34.644.fits	<input checked="" type="checkbox"/>	BIAS_RED	OBSERVER	
DARK_RED	<input checked="" type="checkbox"/>		ORIGFILE	UVES_RED_BIAS3...
EFLAT_ECH_RED	<input checked="" type="checkbox"/>		ARCFILE	UVES.2008-10-26...
ORDERDEF_ECH_RED	<input checked="" type="checkbox"/>		UT	11:52:06.000
FMTCHK_ECH_RED	<input checked="" type="checkbox"/>		ST	09:31:23.068
BIAS_RED	<input checked="" type="checkbox"/>		AIRMASS	1.00000
DARK_RED	<input checked="" type="checkbox"/>		IMAGETYP	BIAS
			HIERARCH.E...	ESO-VLT-DIC.OBS-...
			HIERARCH.E...	0
			HIERARCH.E...	200115615
			HIERARCH.E...	Calibration

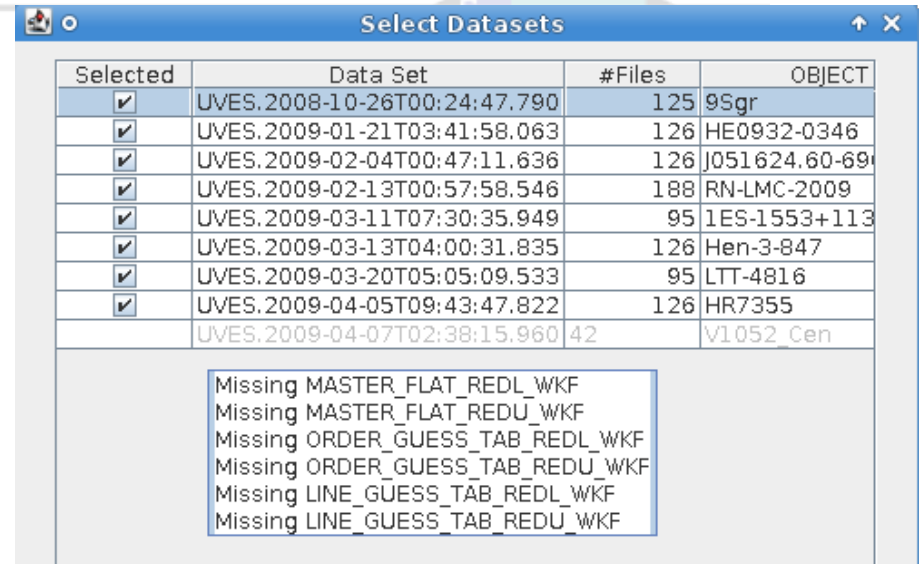
Select All Deselect All Save as... Inspect Continue

Data association tree

- The way calibration/ancillary data is associated to the science data is defined by the OCA rules.
- A given file could appear more than once in the association tree. For instance a raw bias could be the best choice to calibrate a flat and also the best choice to calibrate a science frame.
- Individual files can be deselected from the association tree.
- The position in the association tree is directly related to the “Purpose”.

Incomplete Datasets

- Hovering the mouse over a greyed dataset will explain which data is missing
- Take into account that the missing frames could be virtual frames in the association tree.
- Setting the OCA rules to verbose mode will give some hints.

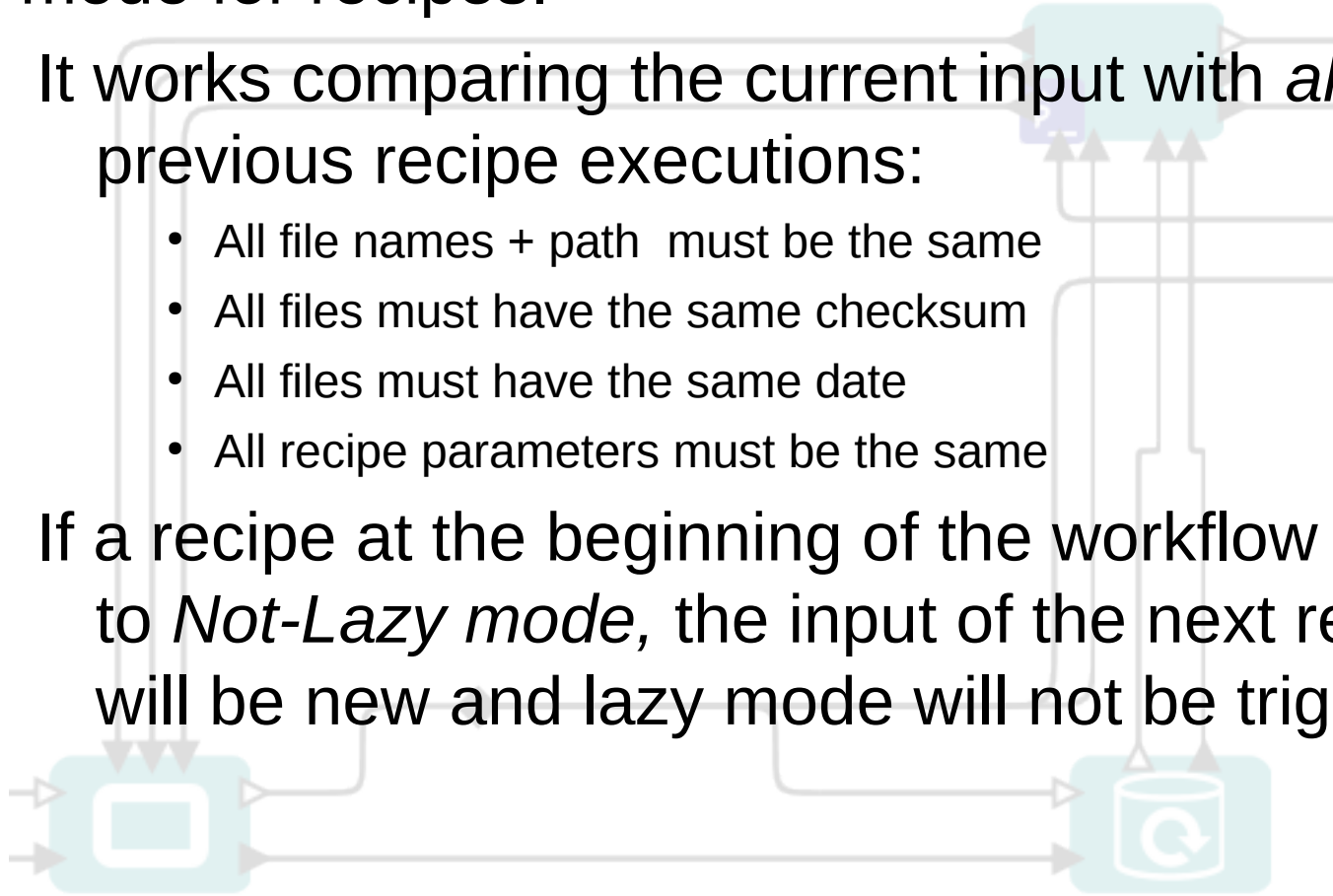


Selected	Data Set	#Files	OBJECT
<input checked="" type="checkbox"/>	UVES.2008-10-26T00:24:47.790	125	9Sgr
<input checked="" type="checkbox"/>	UVES.2009-01-21T03:41:58.063	126	HE0932-0346
<input checked="" type="checkbox"/>	UVES.2009-02-04T00:47:11.636	126	J051624.60-69
<input checked="" type="checkbox"/>	UVES.2009-02-13T00:57:58.546	188	RN-LMC-2009
<input checked="" type="checkbox"/>	UVES.2009-03-11T07:30:35.949	95	1ES-1553+113
<input checked="" type="checkbox"/>	UVES.2009-03-13T04:00:31.835	126	Hen-3-847
<input checked="" type="checkbox"/>	UVES.2009-03-20T05:05:09.533	95	LTT-4816
<input checked="" type="checkbox"/>	UVES.2009-04-05T09:43:47.822	126	HR7355
	UVES.2009-04-07T02:38:15.960	42	V1052_Cen

Missing MASTER_FLAT_REDL_WKF
 Missing MASTER_FLAT_REDU_WKF
 Missing ORDER_GUESS_TAB_REDL_WKF
 Missing ORDER_GUESS_TAB_REDU_WKF
 Missing LINE_GUESS_TAB_REDL_WKF
 Missing LINE_GUESS_TAB_REDU_WKF

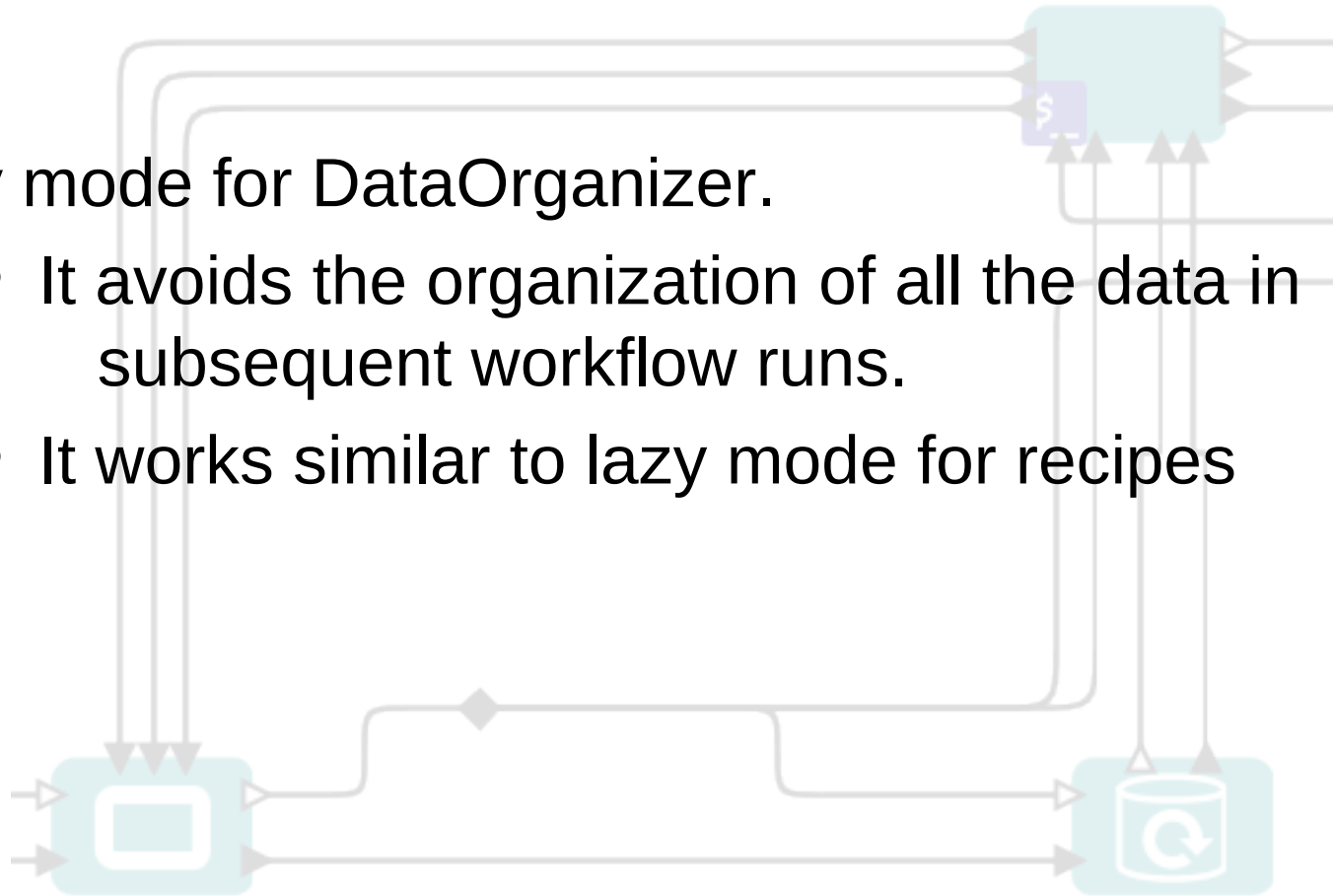
Lazy mode

- Lazy mode for recipes.
 - It works comparing the current input with *all* the previous recipe executions:
 - All file names + path must be the same
 - All files must have the same checksum
 - All files must have the same date
 - All recipe parameters must be the same
 - If a recipe at the beginning of the workflow is set to *Not-Lazy mode*, the input of the next recipes will be new and lazy mode will not be triggered.



Lazy mode (II)

- Lazy mode for DataOrganizer.
 - It avoids the organization of all the data in subsequent workflow runs.
 - It works similar to lazy mode for recipes



Interactive Windows features

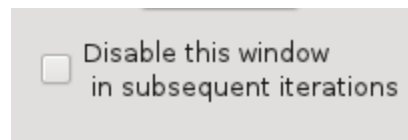
- The top toolbar can be used to zoom in/out, shift and reset the plots.



- To print the plot, it is recommended to use the toolbar to create a PNG plot



- It is possible to disable *this* interactive window altogether:



- To re-enable it, reset the EnableInteractivity variable

● EnableInteractivity: false

Changing recipe parameters

- The interactive windows show only a part of the recipe parameters

recipe_param_1:	debug=FALSE
recipe_param_2:	plotter=no
recipe_param_3:	process_chip=both
recipe_param_4:	mbox_x=PORT
recipe_param_5:	mbox_y=PORT
recipe_param_6:	trans_x=PORT
recipe_param_7:	trans_y=PORT
recipe_param_8:	ech_angle_off=0.0
recipe_param_9:	cd_angle_off=0.0

- TIP: Only the value should be modified, not the name of the parameter.
- “PORT” indicates that the value is to be obtained through the sop port.

Changing recipe parameters (II)

- The interactive windows use some default values as starting point. To change them, go to the Composite actor and change the relevant variables

