Plastimatch 2.0 Organization Draft

MODULE	FILENAME
---	CHANGELOG.TXT
---	CMakeLists.txt
---	COPYRIGHT.TXT
---	LICENSE.TXT
cli	compute_mean_image_main.cxx
cli	dicom_uid_main.cxx
cli	landmark_warp_main.cxx
cli	landmark_warp.cxx
cli	landmark_warp.h
cli	pcmd_add.cxx
cli	pcmd_add.h
cli	pcmd_adjust.cxx
cli	pcmd_adjust.h
cli	pcmd_autolabel_train.cxx
cli	pcmd_autolabel_train.h
cli	pcmd_autolabel.cxx
cli	pcmd_autolabel.h
cli	pcmd_compare.cxx
cli	pcmd_compare.h
cli	pcmd_compose.cxx
cli	pcmd_compose.h
cli	pcmd_crop.cxx
cli	pcmd_crop.h
cli	pcmd_diff.cxx
cli	pcmd_diff.h
cli	pcmd_drr.cxx
cli	pcmd_drr.h
cli	pcmd_dvh.cxx
cli	pcmd_dvh.h
cli	pcmd_header.cxx
cli	pcmd_header.h
cli	pcmd_mask.cxx
cli	pcmd_mask.h
cli	pcmd_probe.cxx
cli	pcmd_probe.h
cli	pcmd_resample.cxx
cli	pcmd_resample.h
cli	pcmd_script.cxx
cli	pcmd_script.h
cli	pcmd_segment.cxx
cli	pcmd_segment.h
cli	pcmd_stats.cxx
cli	pcmd_stats.h
cli	pcmd_synth.cxx
cli	pcmd_synth.h
cli	pcmd_thumbnail.cxx
cli	pcmd_thumbnail.h
cli	pcmd_warp_dij.cxx
cli	pcmd_warp_pointset.cxx
cli	pcmd_warp.cxx
cli	pcmd_warp.h
cli	pcmd_xf_convert.cxx
cli	pcmd_xf_convert.h
cli	pcmd_xio_dvh.cxx

ORGANIZATION OUTLINE

test
qt
cli
} Interface Layers

experimental
or unstaged →
script
wildwest
} Stage 2 API

util
dose
reconstruct
register
segment
} Stage 1 API

sys
image
cuda
opencl
} Base Libraries

Move to top level (parallel to plastimatch, ise, etc)

mondoshot
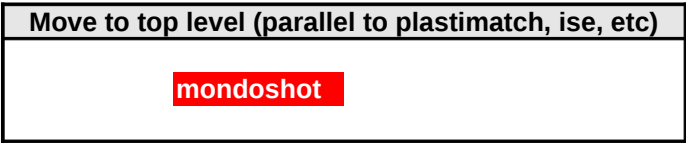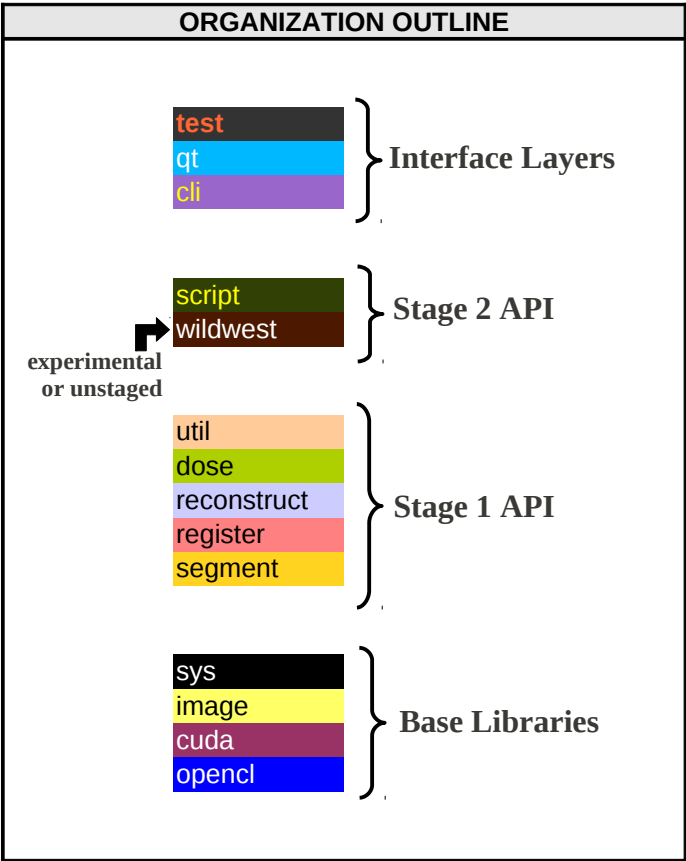
cli	pcmd_xio_dvh.h
cli	plastimatch_main.cxx
cli	plm_clp.cxx
cli	plm_clp.h
cli	**shuffle_mha_main.cxx**
cli	**siftnD.cxx**
cli	synthetic_vf_main.cxx
cuda	cuda_kernel_util.cu
cuda	cuda_kernel_util.h
cuda	cuda_kernel_util.inc
cuda	cuda_mem.cu
cuda	cuda_mem.h
cuda	cuda_probe_main.c
cuda	cuda_probe_wrap.cpp
cuda	cuda_probe.cu
cuda	cuda_probe.h
cuda	cuda_util.cu
cuda	cuda_util.h
cuda	plm_cuda_math.h
DEPRECATED	plm_api_config.h.in
DEPRECATED	plm_register_loadable.cxx
DEPRECATED	plm_register_loadable.h
DEPRECATED	plm_registration_api_a.cxx
DEPRECATED	plm_registration_api.cxx
DEPRECATED	plm_registration_api.h
DEPRECATED	reg_main.cxx
DEPRECATED	reg_opts.cxx
DEPRECATED	reg_opts.h
DEPRECATED	reg_testbench.c
DEPRECATED	render_polyline_itk.cxx
DEPRECATED	render_structure.h
DEPRECATED	test2.cxx
DEPRECATED	testme.cxx
DEPRECATED	threading.cxx
DEPRECATED	threading.h
DEPRECATED	Vmatrix.c
DEPRECATED	xyzInt.c
doc	ROADMAP.TXT
doc	STYLE_GUIDE_1.TXT
doc	STYLE_GUIDE_2.TXT
dose	bragg_curve_main.c
dose	bragg_curve_opts.c
dose	bragg_curve_opts.h
dose	proton_dose_main.cxx
dose	proton_dose_opts.cxx
dose	proton_dose_opts.h
dose	proton_dose.cxx
dose	proton_dose.h
extra	cppcheck.sh
extra	plastimatch-uncrustify.cfg
image	astroid_dose.cxx
image	astroid_dose.h
image	bspline_xform.cxx
image	bspline_xform.h
image	cxt_extract.cxx

ORGANIZATION OUTLINE

test	
qt	Interface Layers
cli	

script	
wildwest	Stage 2 API

experimental
or unstaged

util	
dose	
reconstruct	Stage 1 API
register	
segment	

sys	
image	
cuda	Base Libraries
opencl	

Move to top level (parallel to plastimatch, ise, etc)

mondoshot
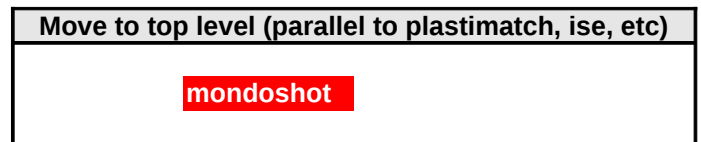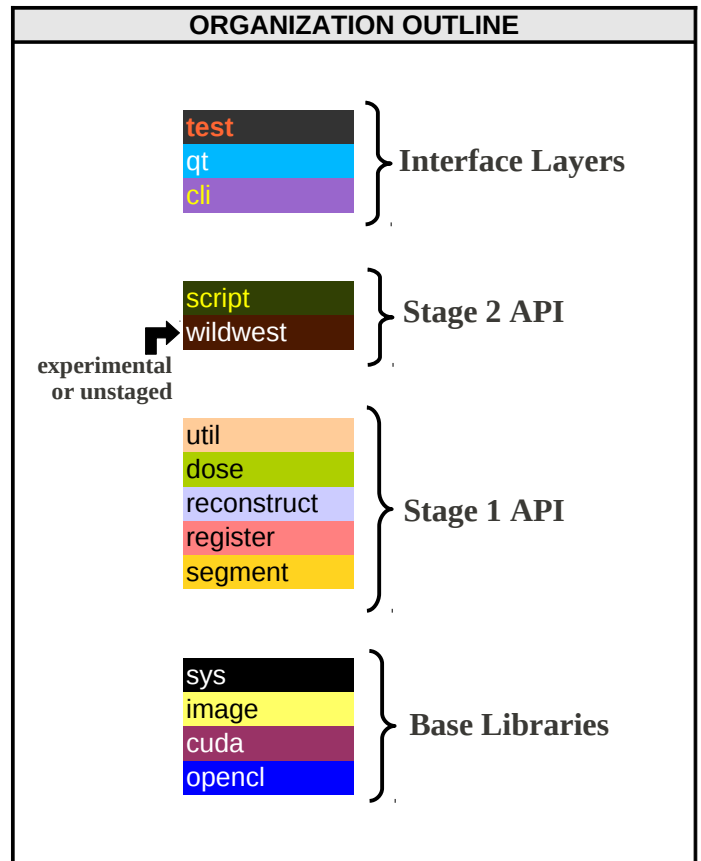
image	cxt_extract.h
image	cxt_io.cxx
image	cxt_io.h
image	dcm_util.cxx
image	dcm_util.h
image	dcmtk_config.h
image	dcmtk_file.cxx
image	dcmtk_file.h
image	dcmtk_image.cxx
image	dcmtk_image.h
image	dcmtk_load.cxx
image	dcmtk_load.h
image	dcmtk_metadata.cxx
image	dcmtk_metadata.h
image	dcmtk_rtdose.cxx
image	dcmtk_rtss.cxx
image	dcmtk_rtss.h
image	dcmtk_save.cxx
image	dcmtk_save.h
image	dcmtk_series_set.cxx
image	dcmtk_series_set.h
image	dcmtk_series.cxx
image	dcmtk_series.h
image	dcmtk_uid.cxx
image	dcmtk_uid.h
image	dcmtk_util.cxx
image	dcmtk_util.h
image	dicom_info.cxx
image	dicom.dic
image	direction_cosines.h
image	exchkeys.cxx
image	exchkeys.h
image	gdcm1_dose.cxx
image	gdcm1_dose.h
image	gdcm1_file.cxx
image	gdcm1_file.h
image	gdcm1_rdd.cxx
image	gdcm1_rdd.h
image	gdcm1_rtss.cxx
image	gdcm1_rtss.h
image	gdcm1_series_helper_2.cxx
image	gdcm1_series_helper_2.h
image	gdcm1_series.cxx
image	gdcm1_series.h
image	gdcm1_util.cxx
image	gdcm1_util.h
image	gdcm2_util.cxx
image	gdcm2_util.h
image	hnd_io.cxx
image	hnd_io.h
image	hnd_to_pfm.cxx
image	itk_dicom_load.cxx
image	itk_dicom_load.h
image	itk_dicom_save.cxx
image	itk_dicom_save.h

ORGANIZATION OUTLINE

test	
qt	**Interface Layers**
cli	

script	**Stage 2 API**
wildwest	

experimental or unstaged

util	
dose	
reconstruct	**Stage 1 API**
register	
segment	

sys	
image	**Base Libraries**
cuda	
opencl	

Move to top level (parallel to plastimatch, ise, etc)

mondoshot
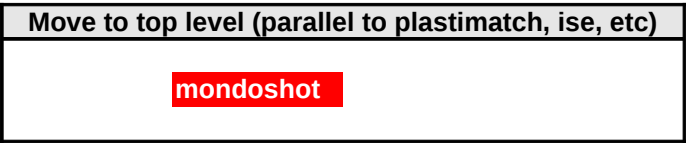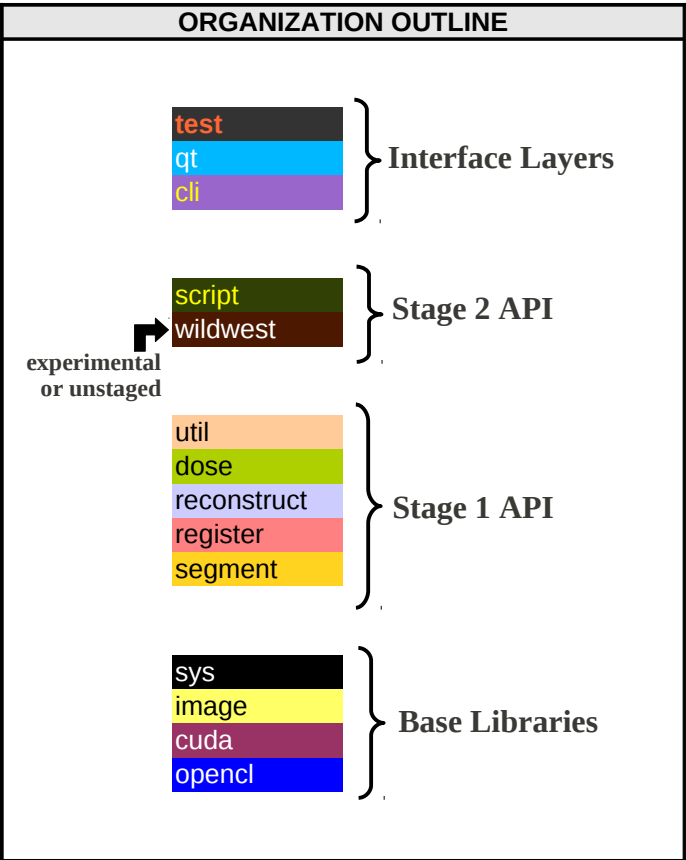
image	itk_directions.cxx
image	itk_directions.h
image	itk_image_cast.cxx
image	itk_image_cast.h
image	itk_image_load_char.cxx
image	itk_image_load_double.cxx
image	itk_image_load_float.cxx
image	itk_image_load_int32.cxx
image	itk_image_load_short.cxx
image	itk_image_load_uchar.cxx
image	itk_image_load_uint32.cxx
image	itk_image_load_ushort.cxx
image	itk_image_load_vec.cxx
image	itk_image_load.h
image	itk_image_load.txx
image	itk_image_save.cxx
image	itk_image_save.h
image	itk_image_type.h
image	itk_image.cxx
image	itk_image.h
image	itk_metadata.cxx
image	itk_metadata.h
image	itk_point.h
image	itk_pointset.cxx
image	itk_pointset.h
image	itk_resample.cxx
image	itk_resample.h
image	itk_volume_header.cxx
image	itk_volume_header.h
image	itkAndConstantToImageFilter.h
image	itkClampCastImageFilter.h
image	itkClampCastImageFilter.txx
image	make_string.h
image	mc_dose.cxx
image	mc_dose.h
image	merge_vector_fields.cxx
image	metadata.cxx
image	metadata.h
image	mha_io.cxx
image	mha_io.h
image	mha_to_raw.c
image	mha_to_rtog_dose.cxx
image	plm_image_convert.cxx
image	plm_image_convert.h
image	plm_image_header.cxx
image	plm_image_header.h
image	plm_image_type.cxx
image	plm_image_type.h
image	plm_image.cxx
image	plm_image.h
image	**plm_uid_prefix.h**
image	pointset.cxx
image	pointset.h
image	raw_pointset.cxx
image	raw_pointset.h

ORGANIZATION OUTLINE

test
qt
cli
} **Interface Layers**

experimental
or unstaged

script
wildwest
} **Stage 2 API**

util
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reconstruct
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segment
} **Stage 1 API**

sys
image
cuda
opencl
} **Base Libraries**

Move to top level (parallel to plastimatch, ise, etc)

mondoshot
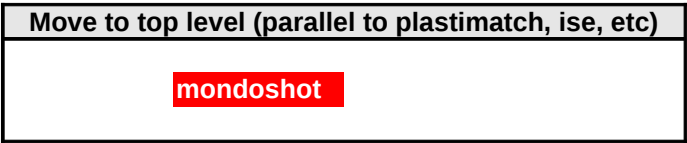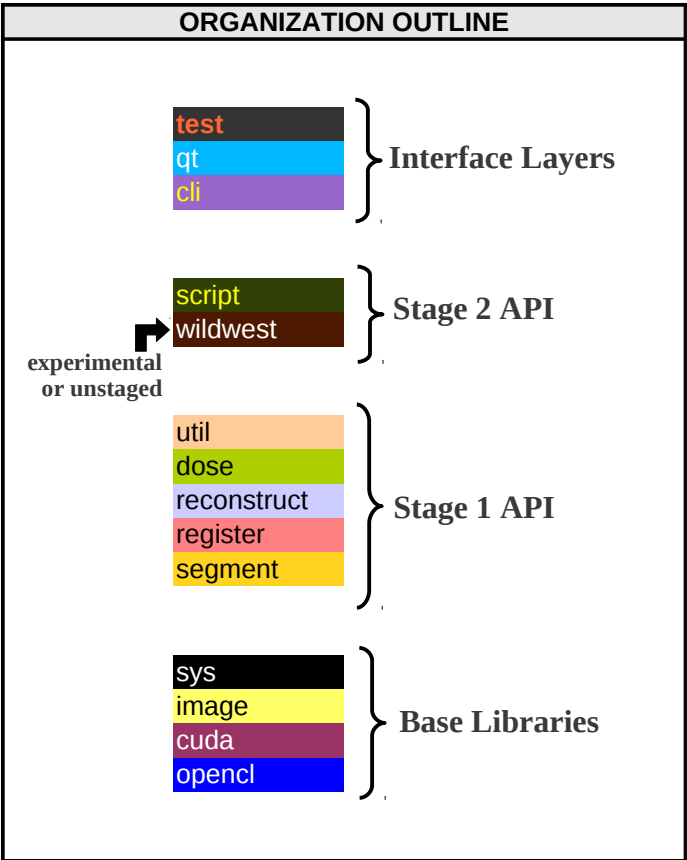
image	raw_to_mha.c
image	rpl_volume.cxx
image	rpl_volume.h
image	rtog_to_mha.cxx
image	slice_index.cxx
image	slice_index.h
image	thumbnail.cxx
image	thumbnail.h
image	vf_convolve.cxx
image	vf_convolve.h
image	vf_invert.cxx
image	vf_invert.h
image	vf_stats.cxx
image	vf_stats.h
image	vf_to_vvf.cxx
image	vf.cxx
image	vf.h
image	volume_header.cxx
image	volume_header.h
image	volume_limit.cxx
image	volume_limit.h
image	volume_macros.h
image	volume_resample.cxx
image	volume_resample.h
image	volume.cxx
image	volume.h
image	xform_convert.cxx
image	xform_convert.h
image	xform_legacy.cxx
image	xform_legacy.h
image	xform_point.cxx
image	xform_point.h
image	xform.cxx
image	xform.h
image	xio_ct.cxx
image	xio_ct.h
image	xio_demographic.cxx
image	xio_demographic.h
image	xio_dir.cxx
image	xio_dir.h
image	xio_dose.cxx
image	xio_dose.h
image	xio_patient.cxx
image	xio_patient.h
image	xio_plan.cxx
image	xio_plan.h
image	xio_structures.cxx
image	xio_structures.h
image	xio_studyset.cxx
image	xio_studyset.h
image	xpm.cxx
image	xpm.h
mondoshot	**mondoshot_dicom.cpp**
mondoshot	**mondoshot_dicom.h**
mondoshot	**mondoshot_main.cpp**

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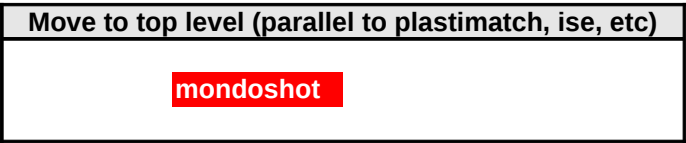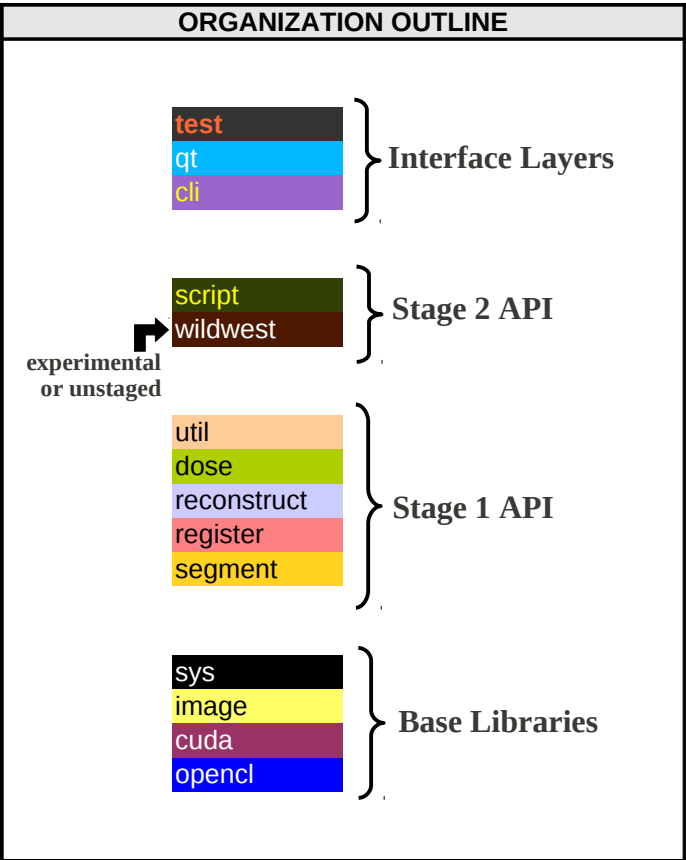
mondoshot

mondoshot	**mondoshot_main.h**
opencl	autotune_opencl.cxx
opencl	autotune_opencl.h
opencl	opencl_probe_main.c
opencl	opencl_probe.cl
opencl	opencl_probe.cxx
opencl	opencl_probe.h
opencl	opencl_util.cxx
opencl	opencl_util.h
qt	cview_main.cxx
qt	cview_main.h
qt	cview_portal.cxx
qt	cview_portal.h
qt	pqt_data_source_dialog.cxx
qt	pqt_data_source_dialog.h
qt	pqt_data_source_dialog.ui
qt	pqt_data_source_list_model.cxx
qt	pqt_data_source_list_model.h
qt	pqt_database.cxx
qt	pqt_database.h
qt	pqt_findscu.cxx
qt	pqt_findscu.h
qt	pqt_main_window.cxx
qt	pqt_main_window.h
qt	pqt_main_window.ui
qt	pqt_main.cxx
qt	pqt_patient_list_model.cxx
qt	pqt_patient_list_model.h
reconstruct	bowtie_correction.cxx
reconstruct	bowtie_correction.h
reconstruct	drr_cuda_old.cu
reconstruct	drr_cuda_p.h
reconstruct	drr_cuda.cpp
reconstruct	drr_cuda.cu
reconstruct	drr_cuda.h
reconstruct	drr_main.cxx
reconstruct	drr_opencl_old.cxx
reconstruct	drr_opencl_p.h
reconstruct	drr_opencl.cl
reconstruct	drr_opencl.cxx
reconstruct	drr_opencl.h
reconstruct	drr_opts.cxx
reconstruct	drr_opts.h
reconstruct	drr_trilin.cxx
reconstruct	drr_trilin.h
reconstruct	drr.cxx
reconstruct	drr.h
reconstruct	fdk_cuda_p.h
reconstruct	fdk_cuda_wrap.cpp
reconstruct	fdk_cuda.cpp
reconstruct	fdk_cuda.cu
reconstruct	fdk_cuda.h
reconstruct	fdk_main.cxx
reconstruct	fdk_opencl_old.cxx
reconstruct	fdk_opencl_p.h

ORGANIZATION OUTLINE

test	
qt	Interface Layers
cli	

script	Stage 2 API
wildwest	

experimental or unstaged

util	
dose	
reconstruct	Stage 1 API
register	
segment	

sys	
image	Base Libraries
cuda	
opencl	
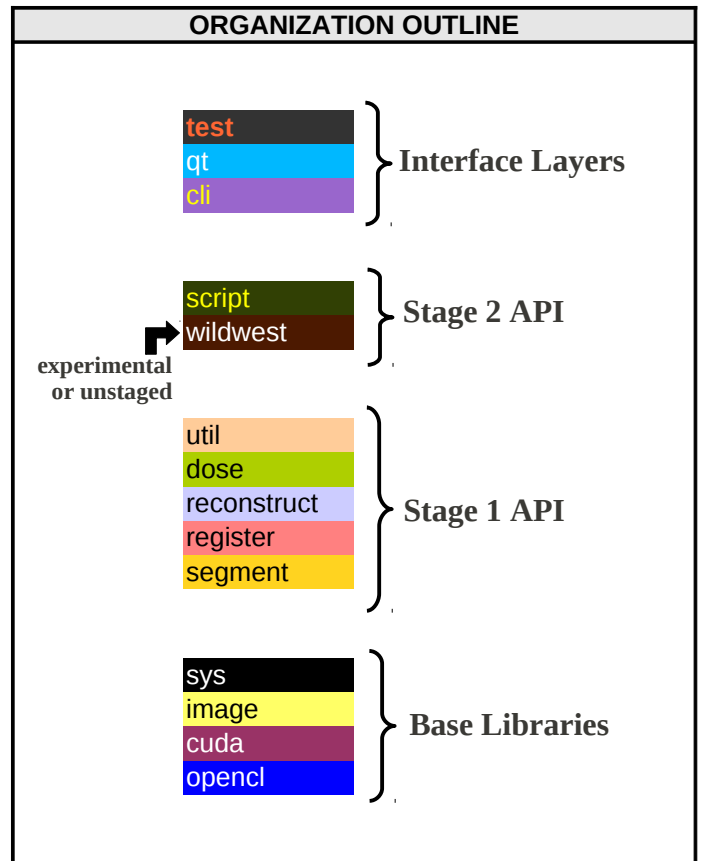
Move to top level (parallel to plastimatch, ise, etc)

mondoshot

reconstruct	fdk_opencl.cl
reconstruct	fdk_opencl.cxx
reconstruct	fdk_opencl.h
reconstruct	fdk_opts.cxx
reconstruct	fdk_opts.h
reconstruct	fdk_util.cxx
reconstruct	fdk_util.h
reconstruct	fdk.cxx
reconstruct	fdk.h
reconstruct	plm_drr_api_a.cxx
reconstruct	plm_drr_api.cxx
reconstruct	plm_drr_api.h
reconstruct	proj_image_dir.cxx
reconstruct	proj_image_dir.h
reconstruct	proj_image.cxx
reconstruct	proj_image.h
reconstruct	proj_matrix.cxx
reconstruct	proj_matrix.h
reconstruct	ramp_filter.c
reconstruct	ramp_filter.h
reconstruct	ray_trace_exact.cxx
reconstruct	ray_trace_exact.h
reconstruct	ray_trace_uniform.cxx
reconstruct	ray_trace_uniform.h
register	bspline_cuda_kernels_old.h
register	bspline_cuda_kernels_wrap.cpp
register	bspline_cuda_kernels.h
register	bspline_cuda_old.cpp
register	bspline_cuda_old.cu
register	bspline_cuda_old.h
register	bspline_cuda_wrap.cpp
register	bspline_cuda.cpp
register	bspline_cuda.cu
register	bspline_cuda.h
register	bspline_landmarks.cxx
register	bspline_landmarks.h
register	bspline_macros.h
register	bspline_main.cxx
register	bspline_mi.cxx
register	bspline_mi.h
register	bspline_mse.cxx
register	bspline_mse.h
register	bspline_old.c
register	bspline_old.h
register	bspline_optimize_lbfgsb.cxx
register	bspline_optimize_lbfgsb.h
register	bspline_optimize_liblbfgs.cxx
register	bspline_optimize_liblbfgs.h
register	bspline_optimize_nlopt.cxx
register	bspline_optimize_nlopt.h
register	bspline_optimize_steepest.cxx
register	bspline_optimize_steepest.h
register	bspline_optimize.cxx
register	bspline_optimize.h
register	bspline_opts.cxx

ORGANIZATION OUTLINE

test
qt
cli
} **Interface Layers**

experimental
or unstaged

script
wildwest
} **Stage 2 API**

util
dose
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image
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Move to top level (parallel to plastimatch, ise, etc)

mondoshot

Plastimatch 2.0 Organization Draft
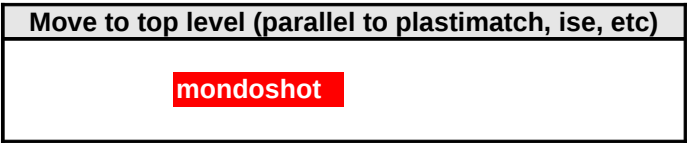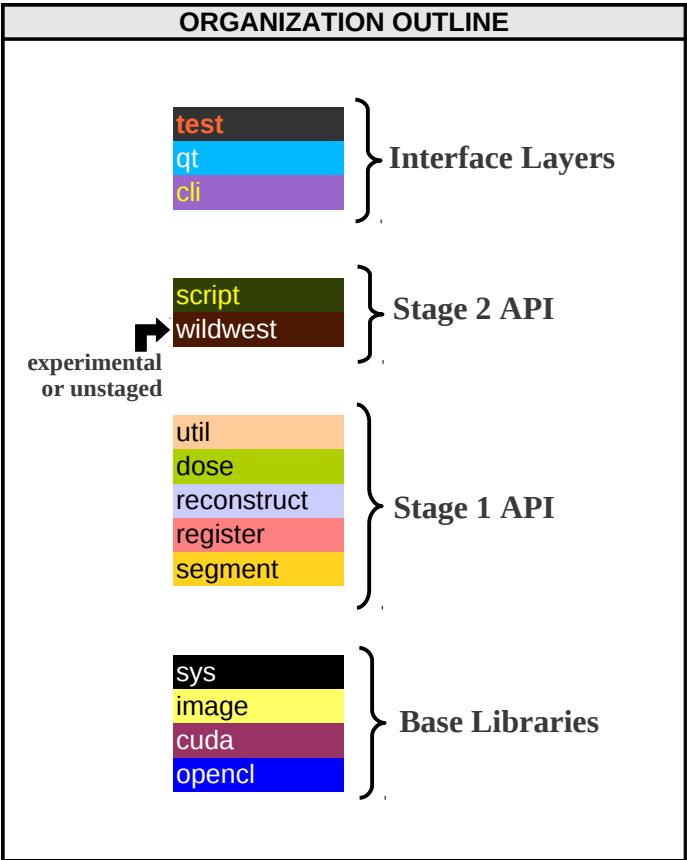
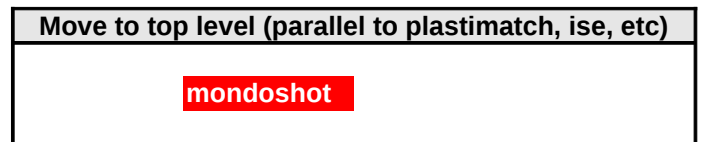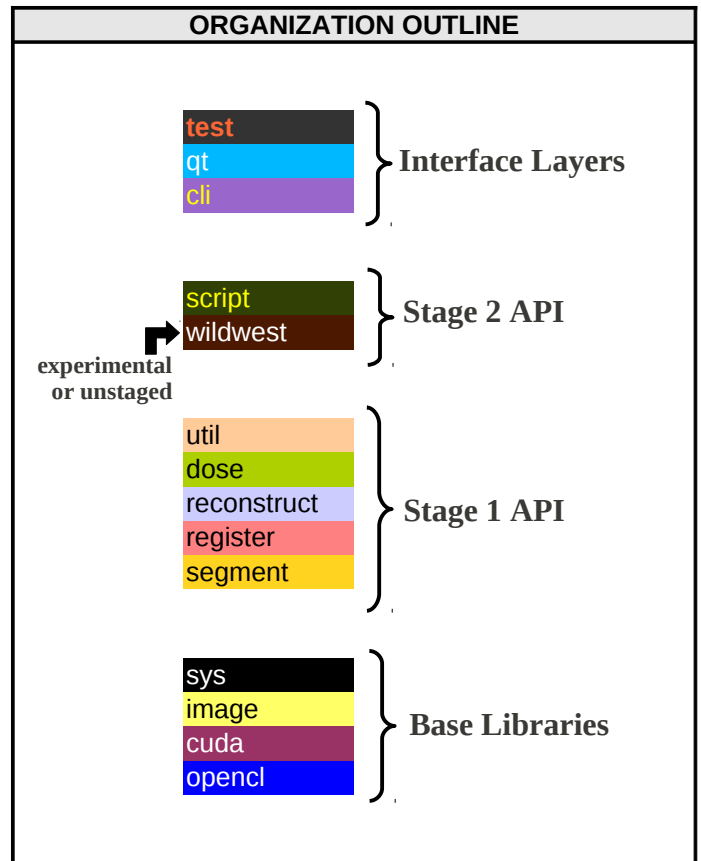| register	bspline_opts.h
register	bspline_regularize_analytic.cxx
register	bspline_regularize_analytic.h
register	bspline_regularize_numeric.cxx
register	bspline_regularize_numeric.h
register	bspline_regularize_state.h
register	bspline_regularize.cxx
register	bspline_regularize.h
register	bspline.cxx
register	bspline.h
register	check_grad_opts.cxx
register	check_grad_opts.h
register	check_grad.cxx
register	demons_cpu.cxx
register	demons_cuda_kernel.cu
register	demons_cuda.cu
register	demons_cuda.h
register	demons_layer_cpu.c
register	demons_main.cxx
register	demons_misc.cxx
register	demons_misc.h
register	demons_opencl_p.h
register	demons_opencl.cl
register	demons_opencl.cxx
register	demons_opts.cxx
register	demons_opts.h
register	demons_state.cxx
register	demons_state.h
register	demons.cxx
register	demons.h
register	gpuit_bspline.cxx
register	gpuit_bspline.h
register	gpuit_demons.cxx
register	gpuit_demons.h
register	itk_demons.cxx
register	itk_demons.h
register	itk_optim.cxx
register	itk_optim.h
register	itk_registration.cxx
register	itk_registration.h
register	itk_tps.cxx
register	itk_tps.h
register	main__.c
register	optimize.c
register	plm_parms.cxx
register	plm_parms.h
register	plm_stages.cxx
register	plm_stages.h
register	rbf_cluster.cxx
register	rbf_cluster.h
register	rbf_gauss_old.cxx
register	rbf_gauss.cxx
register	rbf_gauss.h
register	rbf_wendland.cxx
register	rbf_wendland.h

ORGANIZATION OUTLINE

test / qt / cli — Interface Layers
script / wildwest — Stage 2 API (experimental or unstaged)
util / dose / reconstruct / register / segment — Stage 1 API
sys / image / cuda / opencl — Base Libraries

Move to top level (parallel to plastimatch, ise, etc)
mondoshot

Page 8
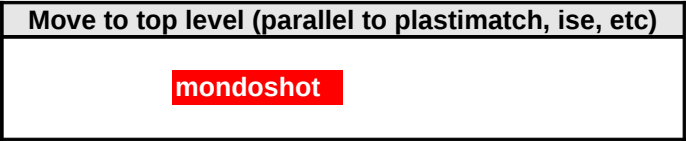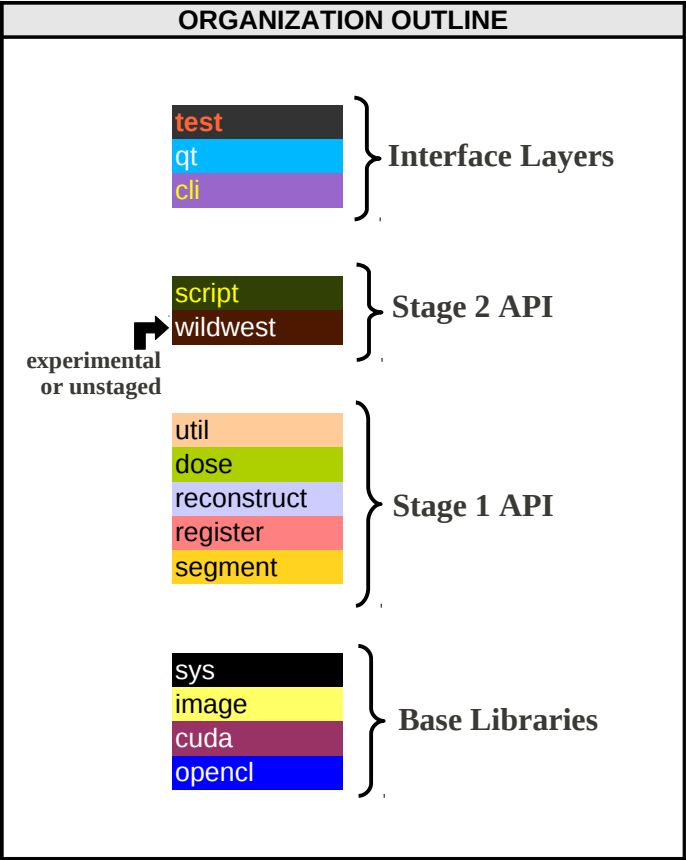
register	registration_data.cxx
register	registration_data.h
register	viscous_compute.cu
register	viscous_convolution.cu
register	viscous_convolution.h
register	viscous_finalize.cu
register	viscous_funcHistogram.cu
register	viscous_funcImageDomain.cu
register	viscous_global.h
register	viscous_initialize.cu
register	viscous_main.cu
script	lua_class_image.cxx
script	lua_class_image.h
script	lua_class_register.cxx
script	lua_class_register.h
script	lua_class_stage.cxx
script	lua_class_stage.h
script	lua_class_structs.cxx
script	lua_class_structs.h
script	lua_class_xform.cxx
script	lua_class_xform.h
script	lua_classes.h
script	lua_cli_glue.cxx
script	lua_cli_glue.h
script	lua_iface_add.cxx
script	lua_iface_add.h
script	lua_iface_crop.cxx
script	lua_iface_crop.h
script	lua_iface_mask.cxx
script	lua_iface_mask.h
script	lua_iface_register.cxx
script	lua_iface_register.h
script	lua_iface_resample.cxx
script	lua_iface_resample.h
script	lua_iface_synth.cxx
script	lua_iface_synth.h
script	lua_tty_commands_pcmd.cxx
script	lua_tty_commands_pcmd.h
script	lua_tty_commands_util.cxx
script	lua_tty_commands_util.h
script	lua_tty_commands.cxx
script	lua_tty_commands.h
script	lua_tty_preview.cxx
script	lua_tty_preview.h
script	lua_tty.cxx
script	lua_tty.h
script	lua_util.cxx
script	lua_util.h
segment	autolabel_ransac_est.cxx
segment	autolabel_ransac_est.h
segment	autolabel_task.cxx
segment	autolabel_task.h
segment	autolabel_thumbnailer.cxx
segment	autolabel_thumbnailer.h
segment	autolabel_trainer.cxx

ORGANIZATION OUTLINE

test
qt
cli
} **Interface Layers**

script
wildwest
} **Stage 2 API**

experimental or unstaged

util
dose
reconstruct
register
segment
} **Stage 1 API**

sys
image
cuda
opencl
} **Base Libraries**

Move to top level (parallel to plastimatch, ise, etc)

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segment	autolabel_trainer.h
segment	autolabel.cxx
segment	autolabel.h
segment	dlib_train.cxx
segment	dlib_trainer.cxx
segment	dlib_trainer.h
segment	segment_body.cxx
segment	segment_body.h
sys	bstring_util.cxx
sys	bstring_util.h
sys	compiler_warnings.h
sys	delayload_opencl.h
sys	delayload.c
sys	delayload.h
sys	dir_list.cxx
sys	dir_list.h
sys	file_util.cxx
sys	file_util.h
sys	logfile.c
sys	logfile.h
sys	math_util.h
sys	**plm_config.h.in**
sys	plm_endian.cxx
sys	plm_endian.h
sys	plm_file_format.cxx
sys	plm_file_format.h
sys	plm_fortran.h.in
sys	plm_fwrite.cxx
sys	plm_fwrite.h
sys	plm_int.h
sys	plm_path.h
sys	plm_timer.cxx
sys	plm_timer.h
sys	plm_version.h
sys	print_and_exit.c
sys	print_and_exit.h
sys	pstring.h
sys	string_util.cxx
sys	string_util.h
test	**cuda_test_wrap.cpp**
test	**cuda_test.cu**
test	**CUDA_tex_test**
test	**dcmtk_test.cxx**
test	**dlib_test.cxx**
test	**fann_test.c**
test	**gabor_test.cxx**
test	**gdcm1_test.cxx**
test	**mex_test.c**
test	**nlopt_test.c**
test	**opencl_test.cl**
test	**opencl_test.cxx**
test	**opencl_test.h**
test	**openmp_test.cxx**
test	**qt_test.cxx**
test	**ransac_test.cxx**

ORGANIZATION OUTLINE

test	
qt	Interface Layers
cli	

script	Stage 2 API
wildwest	

experimental or unstaged

util	
dose	
reconstruct	Stage 1 API
register	
segment	

sys	
image	Base Libraries
cuda	
opencl	

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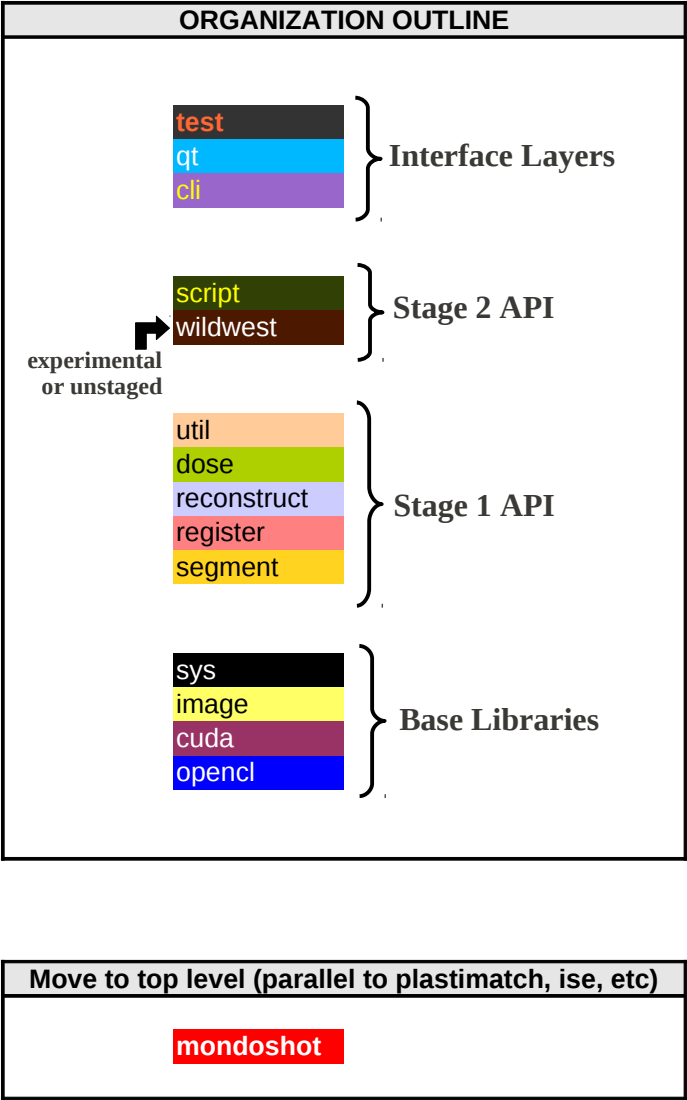
test	sizeof.f
test	test_eps.cxx
test	test_limits.cxx
test	test_overflow.cxx
util	bspline_warp.cxx
util	bspline_warp.h
util	closest_point.cxx
util	compute_distance.cxx
util	compute_distance.h
util	dice_statistics.cxx
util	dice_statistics.h
util	dice_stats_main.cxx
util	distance_map.cxx
util	dvh.cxx
util	dvh.h
util	extract_contour.cxx
util	gamma_analysis.cxx
util	gamma_analysis.h
util	hausdorff_statistics.cxx
util	hausdorff_statistics.h
util	interpolate.cxx
util	interpolate.h
util	itk_crop.cxx
util	itk_crop.h
util	itk_gabor.cxx
util	itk_gabor.h
util	itk_image_stats.cxx
util	itk_image_stats.h
util	itk_mask.cxx
util	itk_mask.h
util	itk_warp.cxx
util	itk_warp.h
util	landmark_diff_main.cxx
util	landmark_diff.cxx
util	landmark_diff.h
util	plm_warp.cxx
util	plm_warp.h
util	rasterize_slice.cxx
util	rasterize_slice.h
util	rasterizer.cxx
util	rasterizer.h
util	simplify_points.cxx
util	simplify_points.h
util	slice_extract.cxx
util	slice_extract.h
util	ss_img_extract.cxx
util	ss_img_extract.h
util	ss_img_stats.cxx
util	ss_img_stats.h
util	synthetic_mha.cxx
util	synthetic_mha.h
util	synthetic_vf.cxx
util	synthetic_vf.h
util	threshbox.cxx
util	threshbox.h

ORGANIZATION OUTLINE

test	
qt	Interface Layers
cli	

script	Stage 2 API
wildwest	

experimental or unstaged

util	
dose	
reconstruct	Stage 1 API
register	
segment	

sys	
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cuda	
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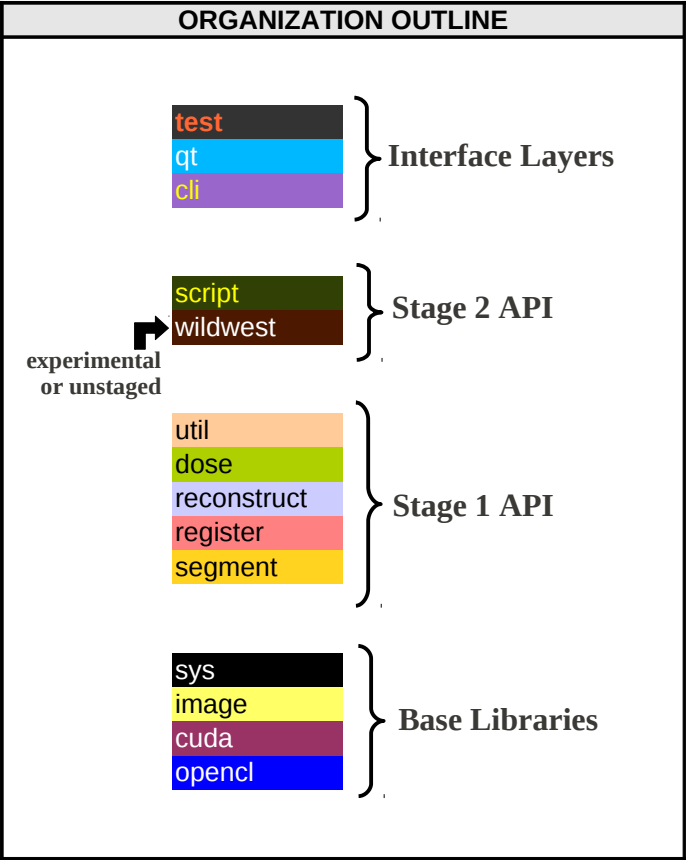
Move to top level (parallel to plastimatch, ise, etc)

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util	union_mask.cxx
wildwest	mex_drr.c
wildwest	read_obj.cxx
wildwest	rtds_dcmtk.cxx
wildwest	rtds_gdcm.cxx
wildwest	rtds_warp.cxx
wildwest	rtds_warp.h
wildwest	rtds.cxx
wildwest	rtds.h
wildwest	rtss_polyline_set.cxx
wildwest	rtss_polyline_set.h
wildwest	rtss_structure.cxx
wildwest	rtss_structure.h
wildwest	rtss.cxx
wildwest	rtss.h
wildwest	ss_list_io.cxx
wildwest	ss_list_io.h
wildwest	warp_parms.h
wildwest	xf_to_empirefmt.cxx

ORGANIZATION OUTLINE

test
qt
cli
Interface Layers

script
wildwest
Stage 2 API

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dose
reconstruct
register
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cuda
opencl
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