

# RFC-215/RFC-229 Python Test File Naming & Non-executable Migration

This page tracks the implementation status of [RFC-215](#) and [RFC-229](#), which cover unit testing conventions in Python. As you work on a package, you can claim it in the table below. Once the package has been migrated on master, you can check it off. If your package isn't listed here, please add it to the table.

## [RFC-215](#) - Disallow executable tests due to "#!/usr/bin/env python" problems on OSX

ADOPTED

This RFC states that Python unit test modules should not be executable (i.e. `./test_mymodule.py` shouldn't run, but of course `python test_mymodule.py` should run). To implement this RFC:











1. Remove the executable flag from Python test modules (e.g., `chmod -x ...`).
2. Remove the hash-bang line from Python test modules.

## [RFC-229](#) - Python tests should be named `test_*.py` for pytest support **IMPLEMENTED**








This RFC states that Python unit test modules should be named with a `"test_"` prefix to enable automatic discovery by pytest. For example, `tests/testMyModule.py` should be renamed to `tests/test_myModule.py`.

This is documented in the [Python Unit Testing guide](#).

## Status

Status	Package	Developer	Ticket
<input checked="" type="checkbox"/>	afw	<a href="#">Krzysztof Findeisen</a>	 <a href="#">DM-4639</a> - modernize afw code and reduce doxygen errors <b>DONE</b> (remove hash-bang)  <a href="#">DM-40542</a> - Replace XYTransform::linearizeTransform <b>DONE</b> (other changes)
<input type="checkbox"/>	base	Tim Jenness	 <a href="#">DM-14514</a> - Modify sconUtils to use pytest for test execution <b>DONE</b>
<input checked="" type="checkbox"/>	ci_hsc		No tests present
<input checked="" type="checkbox"/>	coadd_chisquared	<a href="#">Krzysztof Findeisen</a>	 <a href="#">DM-14585</a> - Add pytest support to packages <b>DONE</b>
<input checked="" type="checkbox"/>	coadd_utils	<a href="#">Krzysztof Findeisen</a>	 <a href="#">DM-14585</a> - Add pytest support to packages <b>DONE</b>
<input checked="" type="checkbox"/>	ctrl_execute	<a href="#">Krzysztof Findeisen</a>	 <a href="#">DM-14585</a> - Add pytest support to packages <b>DONE</b>
<input checked="" type="checkbox"/>	ctrl_orca	<a href="#">Krzysztof Findeisen</a>	 <a href="#">DM-14585</a> - Add pytest support to packages <b>DONE</b>
<input checked="" type="checkbox"/>	ctrl_pool		No tests present
<input checked="" type="checkbox"/>	ctrl_provenance	<a href="#">Krzysztof Findeisen</a>	 <a href="#">DM-14585</a> - Add pytest support to packages <b>DONE</b>
<input checked="" type="checkbox"/>	ctrl_stats	<a href="#">Krzysztof Findeisen</a>	 <a href="#">DM-14585</a> - Add pytest support to packages <b>DONE</b>
<input checked="" type="checkbox"/>	daf_base	<a href="#">Krzysztof Findeisen</a>	 <a href="#">DM-14585</a> - Add pytest support to packages <b>DONE</b>

<input checked="" type="checkbox"/>	daf_fmt_mysql		No tests present
<input checked="" type="checkbox"/>	daf_ingest	Krzysztof Findeisen	<a href="#">↑ DM-11585</a> - Add pytest support to packages <span>DONE</span>
<input checked="" type="checkbox"/>	daf_persistence	Nate Pease	<a href="#">▶ DM-10972</a> - update daf_persistence according to RFC-215 and RFC-229 <span>DONE</span>
<input checked="" type="checkbox"/>	display_ds9		No tests present
<input checked="" type="checkbox"/>	display_firefly		No tests present
<input checked="" type="checkbox"/>	geom	Krzysztof Findeisen	<a href="#">↑ DM-11585</a> - Add pytest support to packages <span>DONE</span>
<input checked="" type="checkbox"/>	ip_diffim	Krzysztof Findeisen	<a href="#">↑ DM-11585</a> - Add pytest support to packages <span>DONE</span>
<input checked="" type="checkbox"/>	ip_isr	Krzysztof Findeisen	<a href="#">↑ DM-11585</a> - Add pytest support to packages <span>DONE</span>
<input checked="" type="checkbox"/>	jointcal		(already conforming)
<input checked="" type="checkbox"/>	log	Andy Salnikov	<a href="#">↑ DM-10874</a> - Add unit test for MDC overwriting <span>DONE</span>
<input type="checkbox"/>	meas_algorithms	Russell Owen	DM-5922
<input checked="" type="checkbox"/>	meas_astrom	Russell Owen	DM-5922
<input checked="" type="checkbox"/>	meas_base	Tim Jenness	<a href="#">▶ DM-11514</a> - Modify sconUtils to use pytest for test execution <span>DONE</span>
<input checked="" type="checkbox"/>	meas_deblender	Krzysztof Findeisen	<a href="#">↑ DM-11585</a> - Add pytest support to packages <span>DONE</span>
<input checked="" type="checkbox"/>	meas_extensions_astrometryNet	Krzysztof Findeisen	<a href="#">↑ DM-11585</a> - Add pytest support to packages <span>DONE</span>
<input checked="" type="checkbox"/>	meas_extensions_convolved	Krzysztof Findeisen	<a href="#">↑ DM-11585</a> - Add pytest support to packages <span>DONE</span>
<input checked="" type="checkbox"/>	meas_extensions_ngmix	Krzysztof Findeisen	<a href="#">↑ DM-11585</a> - Add pytest support to packages <span>DONE</span>
<input checked="" type="checkbox"/>	meas_extensions_photometryKron	Krzysztof Findeisen	<a href="#">↑ DM-11585</a> - Add pytest support to packages <span>DONE</span>
<input checked="" type="checkbox"/>	meas_extensions_simpleShape	Krzysztof Findeisen	<a href="#">↑ DM-11585</a> - Add pytest support to packages <span>DONE</span>
<input checked="" type="checkbox"/>	meas_modelfit	Krzysztof Findeisen	<a href="#">↑ DM-11585</a> - Add pytest support to packages <span>DONE</span>

<input checked="" type="checkbox"/>	meas_moaic	Krzysztof Findeisen	 <a href="#">DM-11585</a> - Add pytest support to packages <span>DONE</span>
<input type="checkbox"/>	obs_base	Russell Owen	DM-5922
<input checked="" type="checkbox"/>	obs_cfht	Russell Owen	DM-5922
<input checked="" type="checkbox"/>	obs_decam	Russell Owen	DM-5922
<input checked="" type="checkbox"/>	obs_file		No tests present
<input checked="" type="checkbox"/>	obs_lsstSim	Russell Owen	DM-5922
<input checked="" type="checkbox"/>	obs_monocam		No tests present
<input type="checkbox"/>	obs_sdss	Russell Owen	DM-5922
<input checked="" type="checkbox"/>	obs_subaru	Russell Owen	DM-5922
<input checked="" type="checkbox"/>	obs_test	Russell Owen	DM-5922
<input type="checkbox"/>	pex_config		
<input checked="" type="checkbox"/>	pex_exceptions	Krzysztof Findeisen	 <a href="#">DM-11585</a> - Add pytest support to packages <span>DONE</span>
<input checked="" type="checkbox"/>	pex_logging	Krzysztof Findeisen	 <a href="#">DM-11585</a> - Add pytest support to packages <span>DONE</span>
<input checked="" type="checkbox"/>	pipe_base	Krzysztof Findeisen	 <a href="#">DM-11585</a> - Add pytest support to packages <span>DONE</span>
<input checked="" type="checkbox"/>	pipe_drivers		No tests present
<input type="checkbox"/>	pipe_supertasks	Andy Salnikov	 <a href="#">DM-10592</a> - SuperTask hack-week May17 <span>DONE</span>
<input type="checkbox"/>	pipe_tasks	Russell Owen	DM-5922
<input checked="" type="checkbox"/>	sconsUtils		
<input checked="" type="checkbox"/>	shapelet	Tim Jenness	 <a href="#">DM-7615</a> - Update tests in shapelet to support pytest <span>DONE</span>
<input checked="" type="checkbox"/>	skymap	Krzysztof Findeisen	 <a href="#">DM-11585</a> - Add pytest support to packages <span>DONE</span>

<input checked="" type="checkbox"/>	sphgeom	Krzysztof Findeisen	<a href="#">↑ DM-11585</a> - Add pytest support to packages <span>DONE</span>
<input checked="" type="checkbox"/>	utils	Krzysztof Findeisen	<a href="#">↑ DM-11585</a> - Add pytest support to packages <span>DONE</span>
<input checked="" type="checkbox"/>	validate_drp	Krzysztof Findeisen	<a href="#">↑ DM-11585</a> - Add pytest support to packages <span>DONE</span>
<input checked="" type="checkbox"/>	verify	Jonathan Sick	