

Orientation		Pose	
Classic	New	Classic	New
rot2	SO2	trot2	SE2
		transl2	SE2
trplot2	.plot	trplot2	.plot
rotx, roty, rotz	SO3.Rx, SO3.Ry, SO3.Rz	trotx, troty, trotz	SE3.Rx, SE3.Ry, SE3.Rz
		T = transl(v)	SE3(v)
eul2r, rpy2r	SO3.eul, SO3.rpy	eul2tr, rpy2tr	SE3.eul, SE3.rpy
angvec2r	SO3.angvec	angvec2tr	SE3.angvec
oa2r	SO3.oa	oa2tr	SE3.oa
		v = transl(T)	.t, .transl
tr2eul, tr2rpy	.toeul, .torpy	tr2eul, tr2rpy	.toeul, .torpy
tr2angvec	.toangvec	tr2angvec	.toangvec
trexp	SO3.exp	trexp	SE3.exp
trlog	.log	trlog	.log
trplot	.plot	trplot	.plot

Functions starting with dot are methods on the new objects. You can use them in functional form `toeul(R)` or in dot form `R.toeul()` or `R.toeul`. It's a personal preference. The trailing parentheses are not required if no arguments are passed, but it is a useful convention and reminder that you that you are invoking a method not reading a property. The old function `transl` appears twice since it maps a vector to a matrix as well as the inverse.