Language	MATLAB/Octave	Python	R
Non-zero elements, indices	`find(a)`	`a.ravel().nonzero()`	`which(a != 0)`
Non-zero elements, array indices	`[i j] = find(a)`	`(i,j) = a.nonzero()` `(i,j) = where(a!=0)`	`which(a != 0, arr.ind=T)`
Vector of non-zero values	`[i j v] = find(a)`	`v = a.compress((a!=0).flat)` `v = extract(a!=0,a)`	`ij <- which(a != 0, arr.ind=T); v <- a[ij]`
Condition, indices	`find(a>5.5)`	`(a>5.5).nonzero()`	`which(a>5.5)`
Return values		`a.compress((a>5.5).flat)`	`ij <- which(a>5.5, arr.ind=T); v <- a[ij]`
Zero out elements above 5.5	`a .* (a>5.5)`	`where(a>5.5,0,a)` or `a * (a>5.5)`	
Replace values		`a.put(2,indices)`	