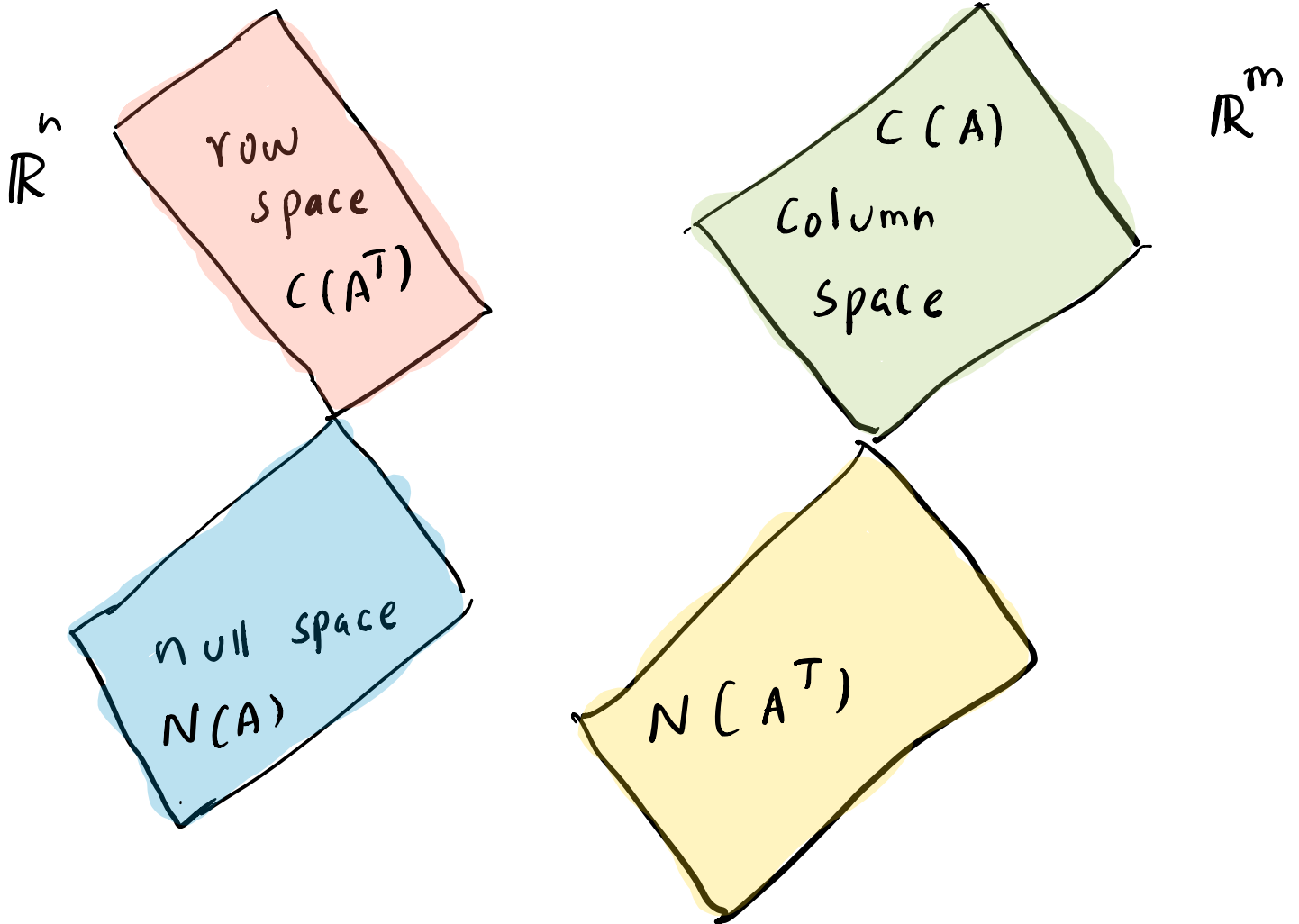


FOUR SUBSPACES

$A_{m \times n} \rightarrow \text{matrix}$



	Dimension	Basis
$C(A)$	$r \rightarrow \text{rank}(A)$	r pivot columns
$C(A^T)$	$r \rightarrow \text{rank}(A)$	r pivot rows
$N(A)$	$n - r$	Special solutions $(n-r)$
$N(A^T)$	$m - r$	Special solutions $(m-r)$