

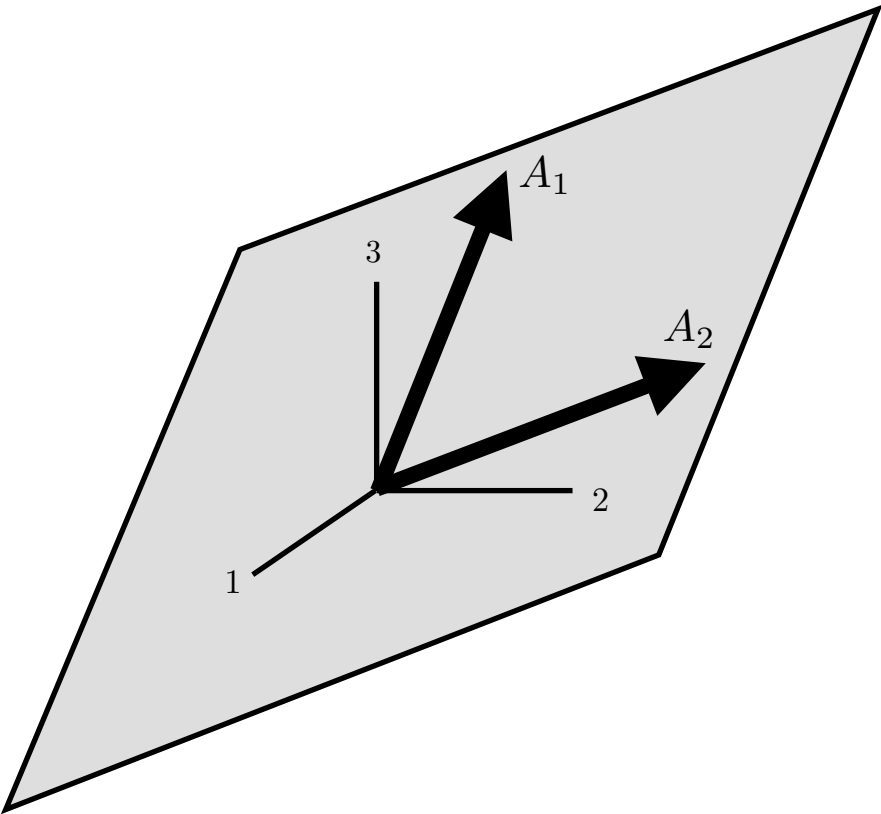
Column Geometry

Row Geometry

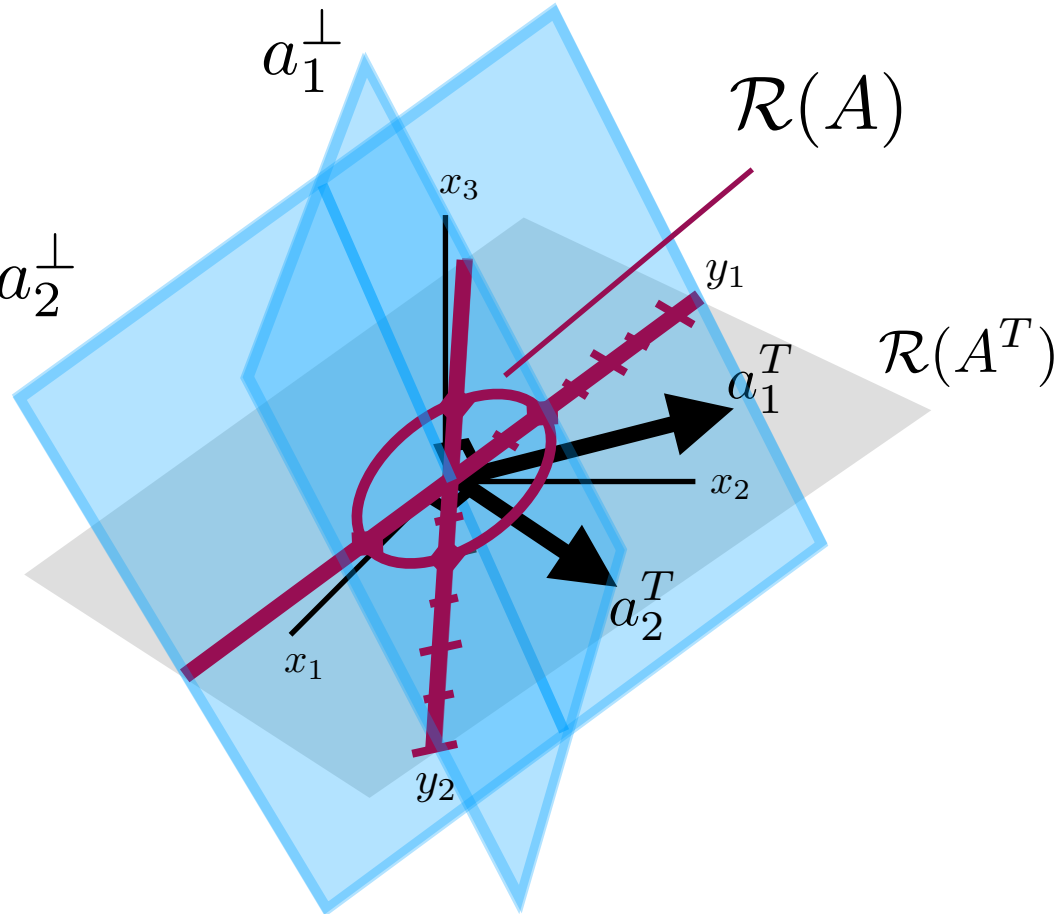
Range
Space

$\mathcal{R}(A)$

$\mathcal{R}(A)$
“span of
columns”



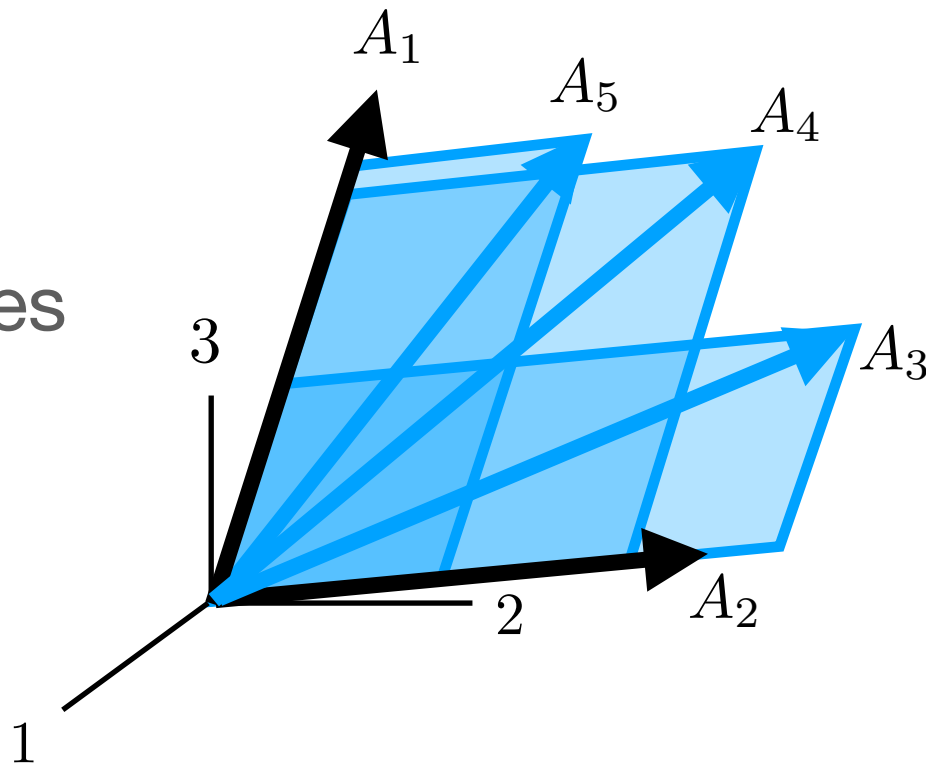
$\mathcal{R}(A)$
“projection
orthogonal
to other rows”



Nullspace

$\mathcal{N}(A)$

$\mathcal{N}(A)$
“coordinates
of origin”



$\mathcal{N}(A)$
“orthogonal
to all rows”

