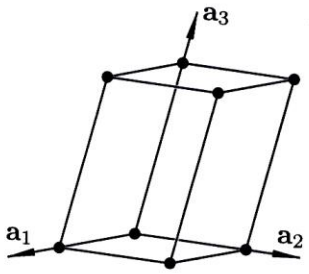
From Stokes, Solid State Physics for Advanced Undergrad Students.

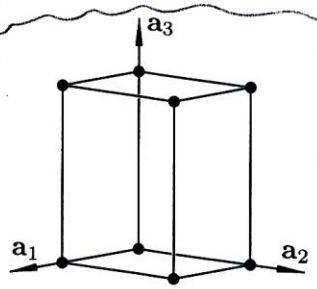
14 Bravais Lattices in 3D



Triclinic P

$a_1 \neq a_2 \neq a_3$

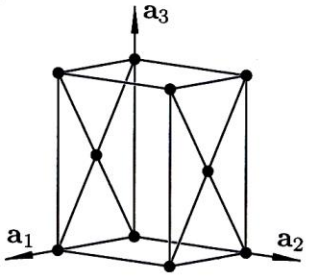
$\alpha \neq \beta \neq \gamma$



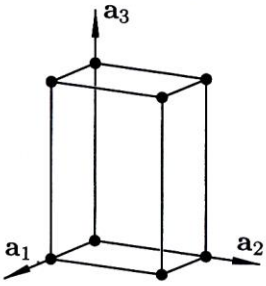
Monoclinic P

$a_1 \neq a_2 \neq a_3$

$\alpha = \gamma = 90^\circ \neq \beta$



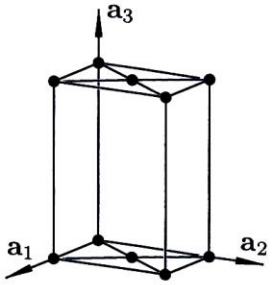
Monoclinic B



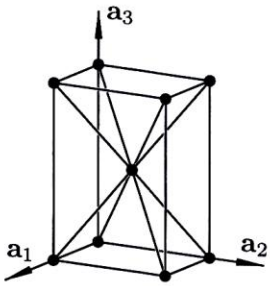
Orthorhombic P

$a_1 \neq a_2 \neq a_3$

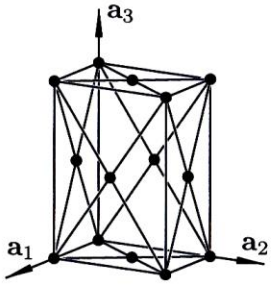
$\alpha = \beta = \gamma = 90^\circ$



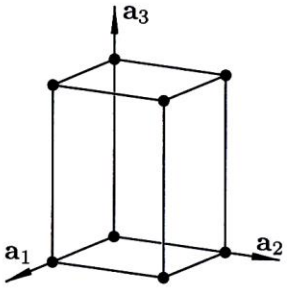
Orthorhombic C



Orthorhombic I



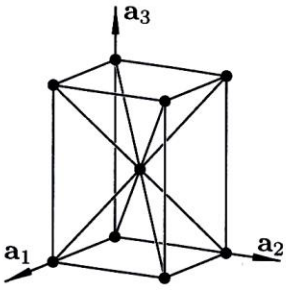
Orthorhombic F



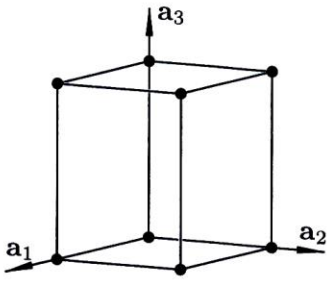
Tetragonal P

$a_1 = a_2 \neq a_3$

$\alpha = \beta = \gamma = 90^\circ$



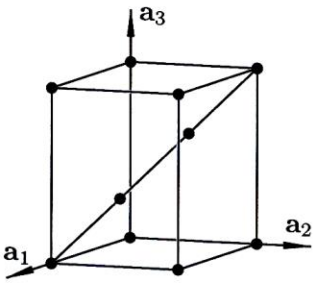
Tetragonal I



Hexagonal P

$a_1 = a_2 \neq a_3$

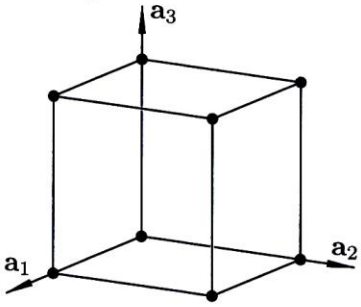
$\alpha = \beta = 90^\circ, \gamma = 120^\circ$



Hexagonal R

aka "Trigonal"

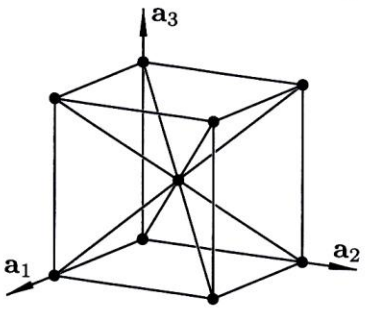
(with different $\vec{a}_1, \vec{a}_2, \vec{a}_3$ vectors)



Cubic P

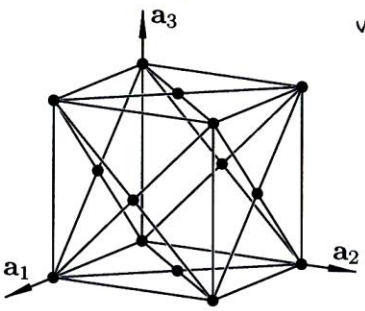
$a_1 = a_2 = a_3$

$\alpha = \beta = \gamma = 90^\circ$



Cubic I

"body centered"



Cubic F

"face centered"