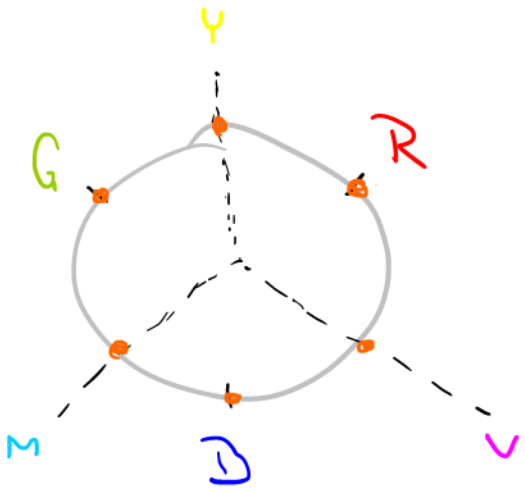
Mask: [Barva RGB] [Čistota f] [Maska RGB]

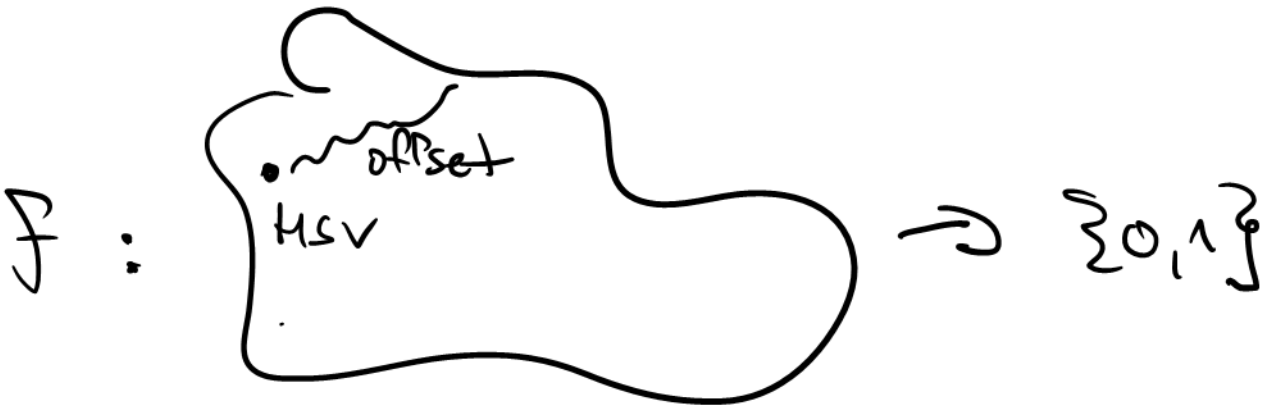


(0,5 .. 1]

Barva - 60° } obsahuje barvu
Barva + 60°

Barva ... 100%
Barva - 60° ... 50%
Barva + 60° ... 50%

default [Barva FFFF00] [Čistota 0,9] [Maska FF0000]



f ← Mask incl/excl
CBMask incl/excl ∩

PK

H(x) { f(x)=0 ×
f(x)=1 g(x, off f(x)) = (y, off f(x))

R → B

$(0,5 - 1]$ → $[0 - 60]$

$$\frac{100 - coeff}{10} * 12$$

100 ... = 0°	0
90 ... = 12°	1p
80 ... = 24°	2p
70 ... = 36°	3p
60 ... = 48°	4p
50 ... = 60°	5o

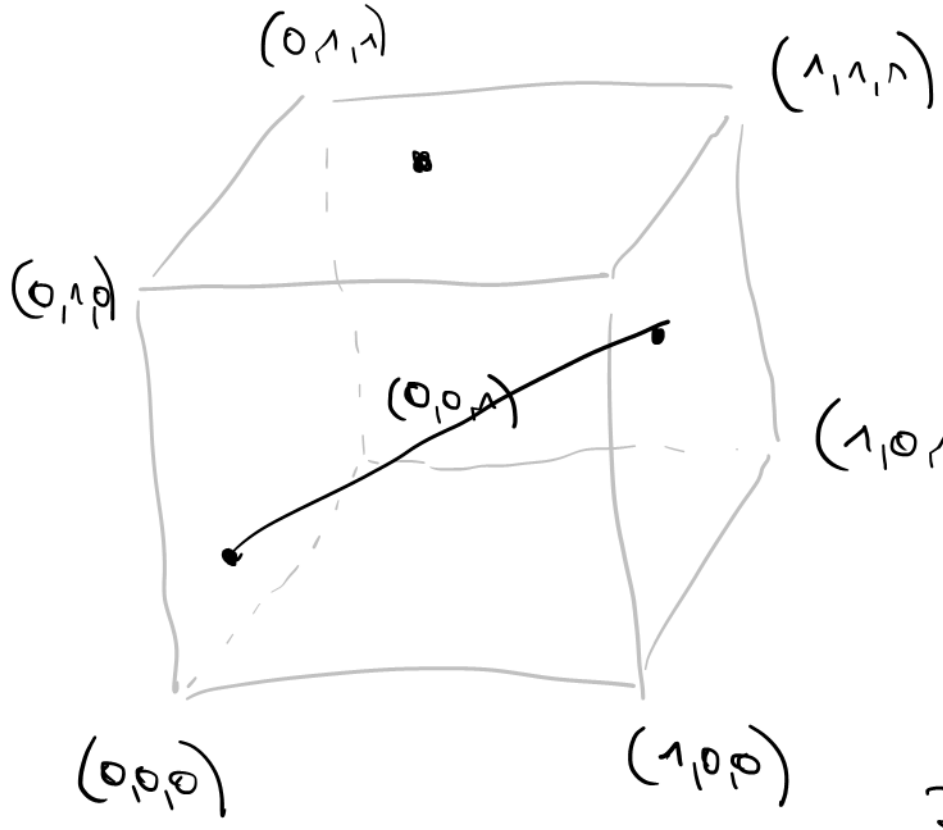
$|x_1 - x_2|$

$|y_1 - y_2|$

$|z_1 - z_2|$

$$\sqrt{|x_1-x_2|^2 + |y_1-y_2|^2 + |z_1-z_2|^2}$$

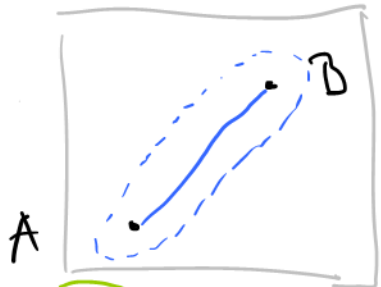
$[0,1]$

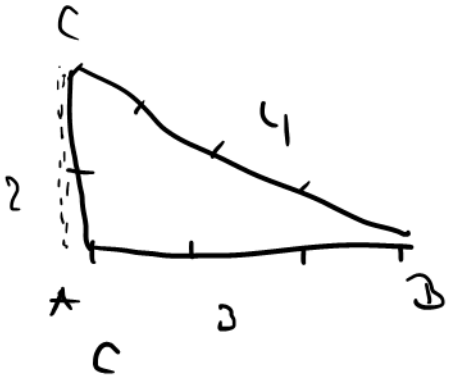


$A(0,0,0)$ $D\left(\frac{1}{2},\frac{1}{2},\frac{1}{2}\right)$

$D - A = \vec{a}$

$\left(\frac{1}{2},\frac{1}{2},\frac{1}{2}\right)$

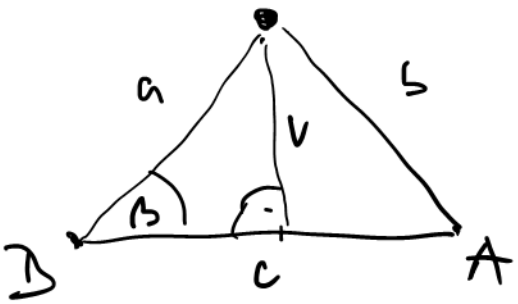




$P: \begin{matrix} x = 1-2t \\ y = 2+1s \end{matrix} \rightarrow \vec{v} = (-2,1)$

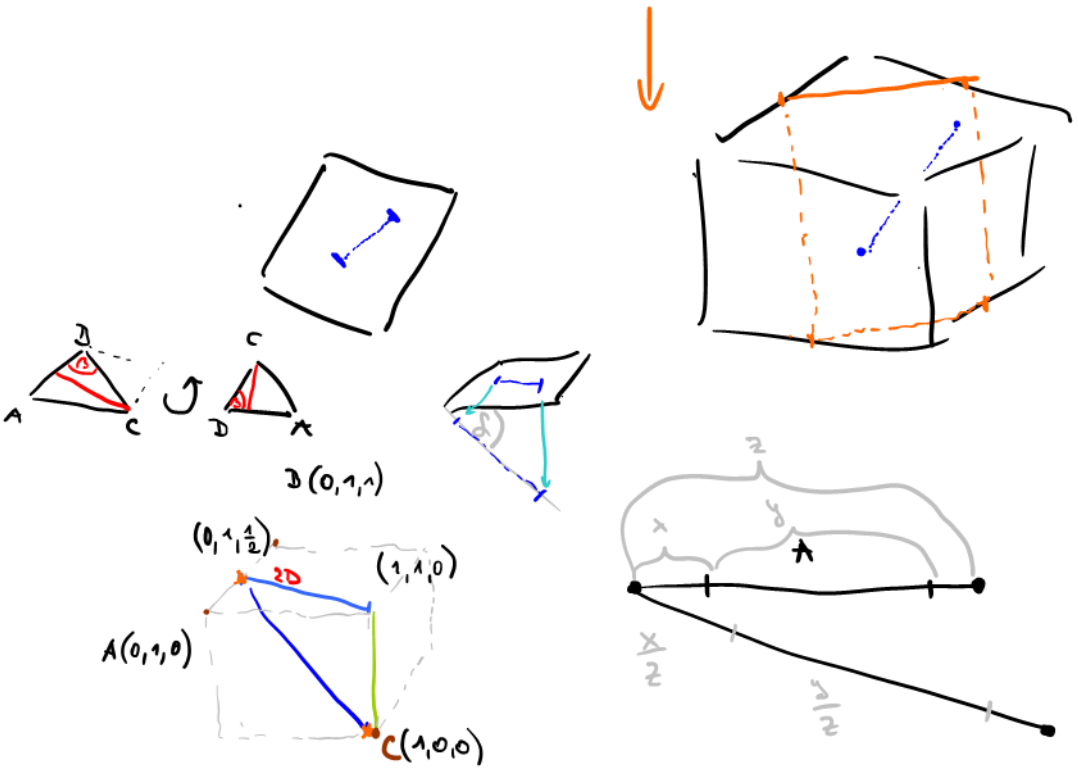
$\cos^{-1}(1) = 0$

$\cos\beta = \frac{|u.v|}{|u||v|}$ $\gamma = \cos^{-1}\frac{a^2+b^2-c^2}{2ab}$



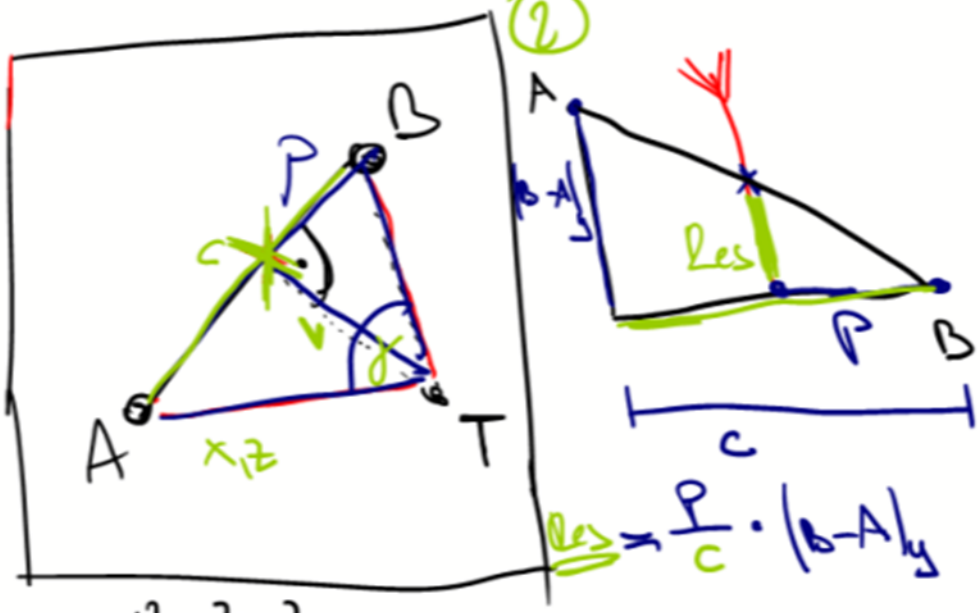
$\beta = \cos^{-1}\frac{a^2+c^2-b^2}{2ac}$

$\sin\beta = \frac{v}{a}$ | $v = \sin\beta . a$



α ↻ $a^2 = b^2 + c^2 - 2bc\cos\alpha$

① ②



$Res = \frac{P}{c} \cdot |B-A|_y$

$\gamma = \arccos\frac{b^2+c^2-a^2}{2bc}$

$Res_y = |A-B|_{xz}$

$v = \gamma \cdot |B-A|_{xz}$

$P = \sqrt{|B-T|_{xz}^2 - v^2}$

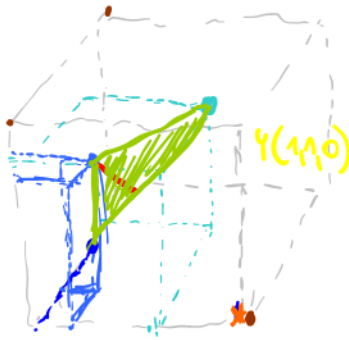
C $P = \cos\beta \cdot a$

$\vec{V} = A_{xz} - D_{xz}$

$Res_x = P \cdot \frac{\vec{V}_z}{|\vec{V}|}$

$Res_z = P \cdot \frac{\vec{V}_x}{|\vec{V}|}$

C (0,1,1) W(1,1,1)

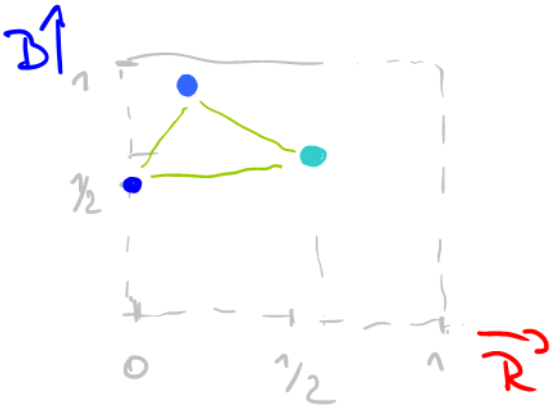


G (0,1,0) Y(1,1,0) M(1,0,1)

(0,0,0) R (1,0,0)

Black

CF48CC = 63, 72, 204 = (0.24, 0.28, 0.8)



$$\beta = \cos^{-1}\frac{(0,38)^2+(0,62)^2-(0,37)^2}{(2(0,38)(0,62))} = 33,72 = 33^\circ 43'$$

$$\sin\beta = \frac{2D}{0,38}$$

$$2D = \sin(33,72) * 0,38 = 0,21$$

$$P = \cos(33,72) * 0,38 = 0,14$$

$$2D = \sin\beta * 0,38$$