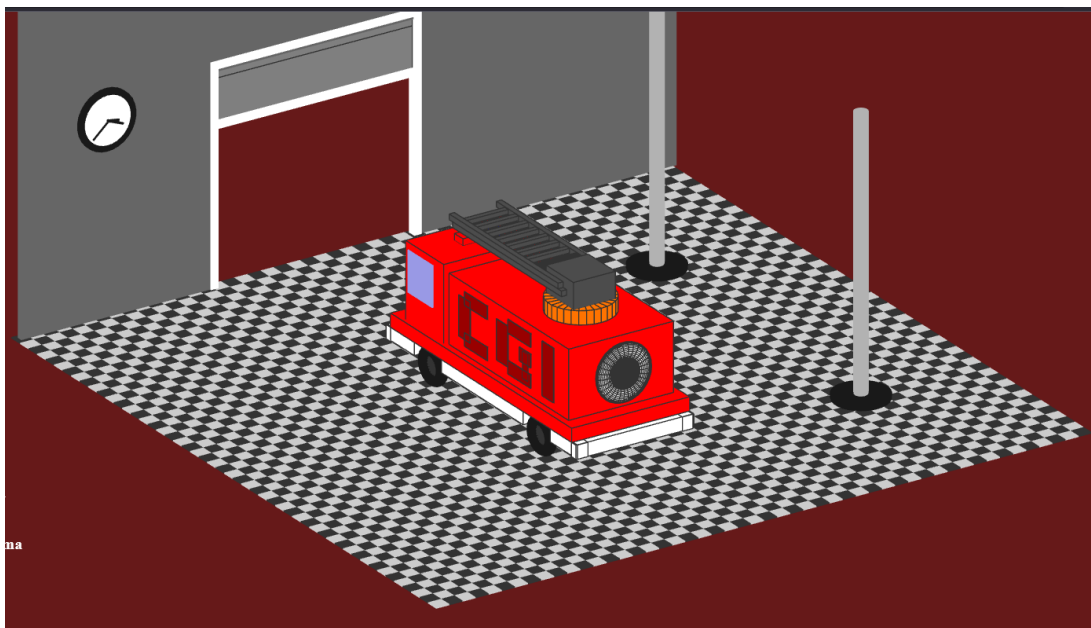




GRAFO DE CENA

Quartel dos Bombeiros



TPC2 CGI 24/25

Miguel Lourenço 66043 – Alexandre Cristóvão 65143

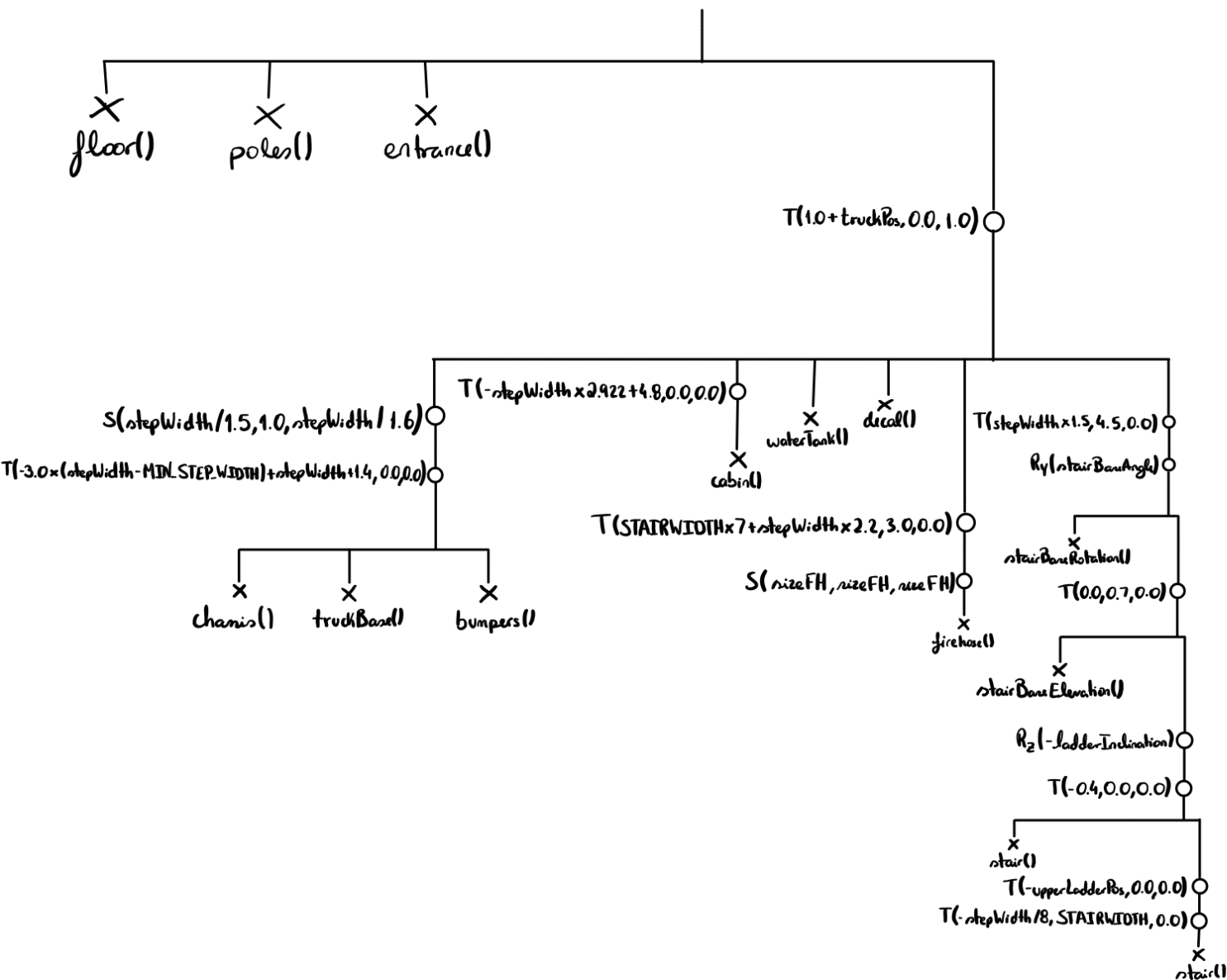
Turno P1

- truckPos = 0.0
- doorPos = 6.5
- upperLadderPos = 0.0
- WHEELRADIUS = 0.75
- wheelAngle = 0.0

- stair Base Angle = 0.0
- ladder Inclination = 0.0
- STAIR WIDTH = 0.2
- MAX_STEP_WIDTH = STAIRWIDTH \times 8.0
- MIN_STEP_WIDTH = STAIRWIDTH \times 3.0

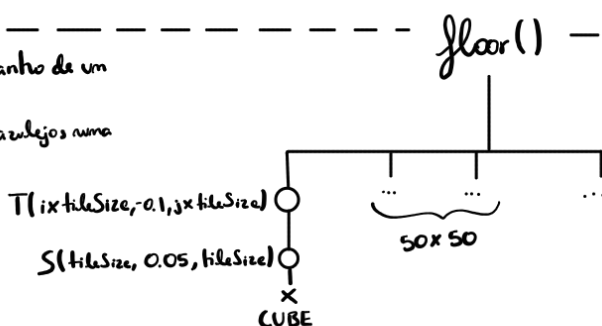
- `stepWidth = MAX_STEP_WIDTH`
- `DEFAULT_STEP_NR = 8.0`
- `stepNr = DEFAULT_STEP_NR`
- `sizeFit = Math.min(stepWidth * 1.0, 1.0)`

(app. jⁿ)

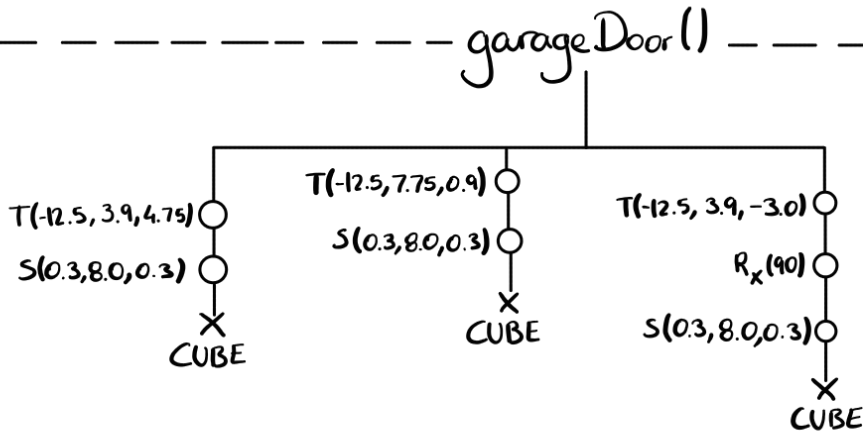
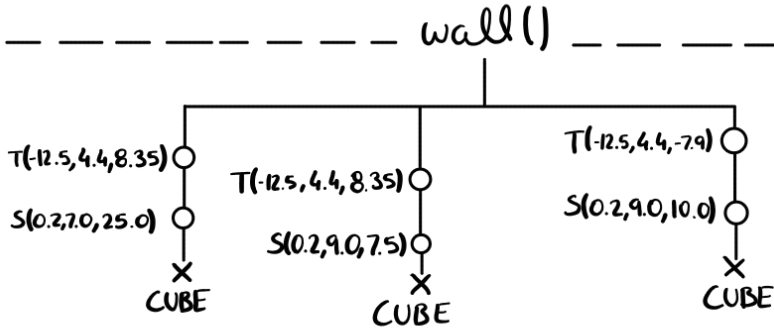
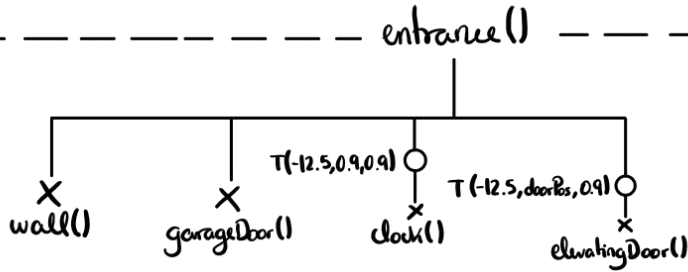
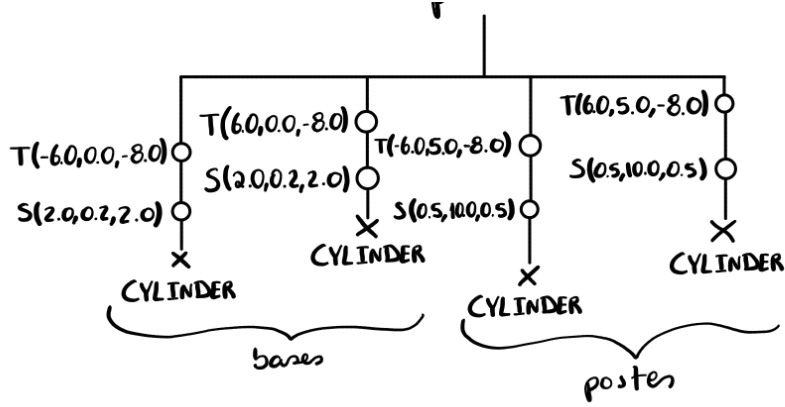


Grafo do Genário
(nenergy.js)

- `tileSize = 0,5`: tamanho de um azulejo (x e z);
- `gridSize = 25`: n° de azulejos numa coluna/linha;



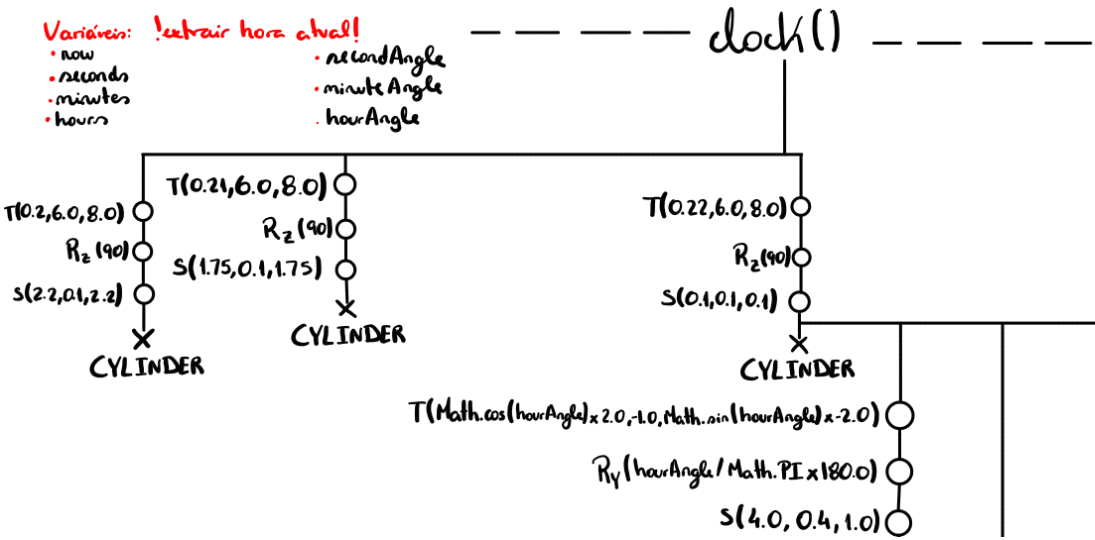
roles()

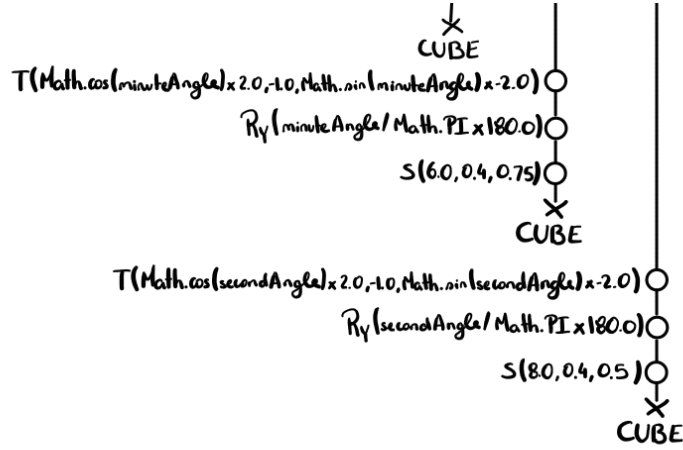


Variables: !extraire hora actual!

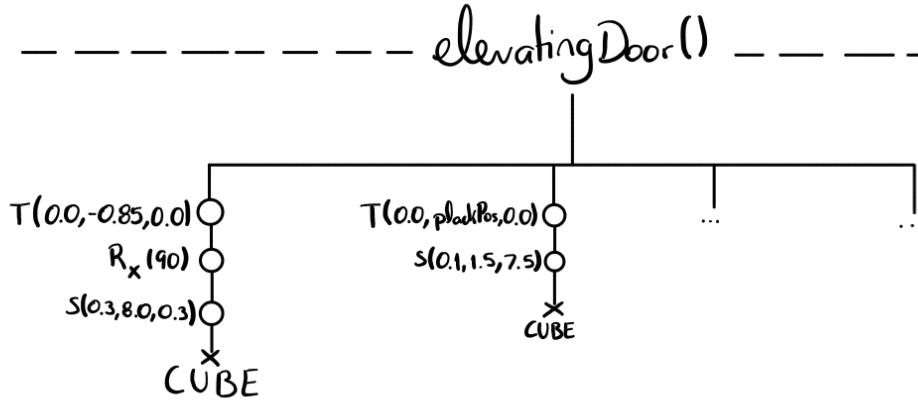
- now
- seconds
- minutes
- hours

- secondAngle
- minuteAngle
- hourAngle



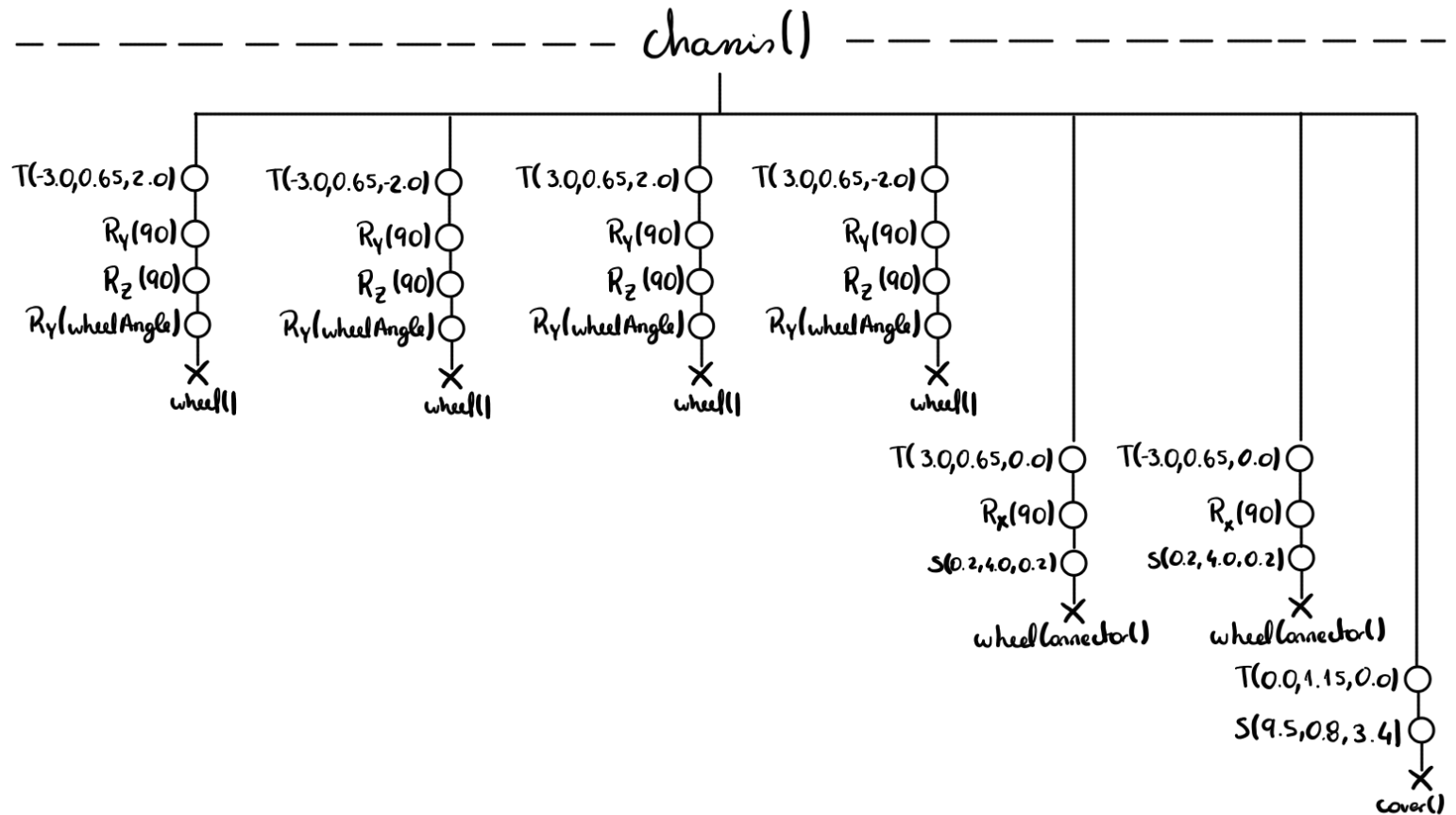


Variáveis:
 • `plackPos = -1.5`

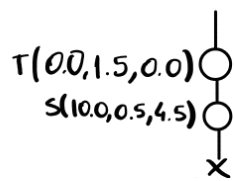


Grafo do Camião (fireTruck.js)

! Em cada objeto é adicionado um objeto de características iguais mais nomeado e representado o contorno (em preto)!

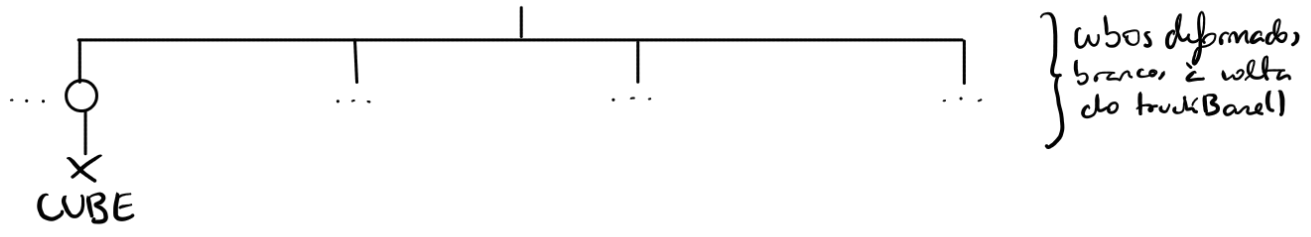


TruckBase()

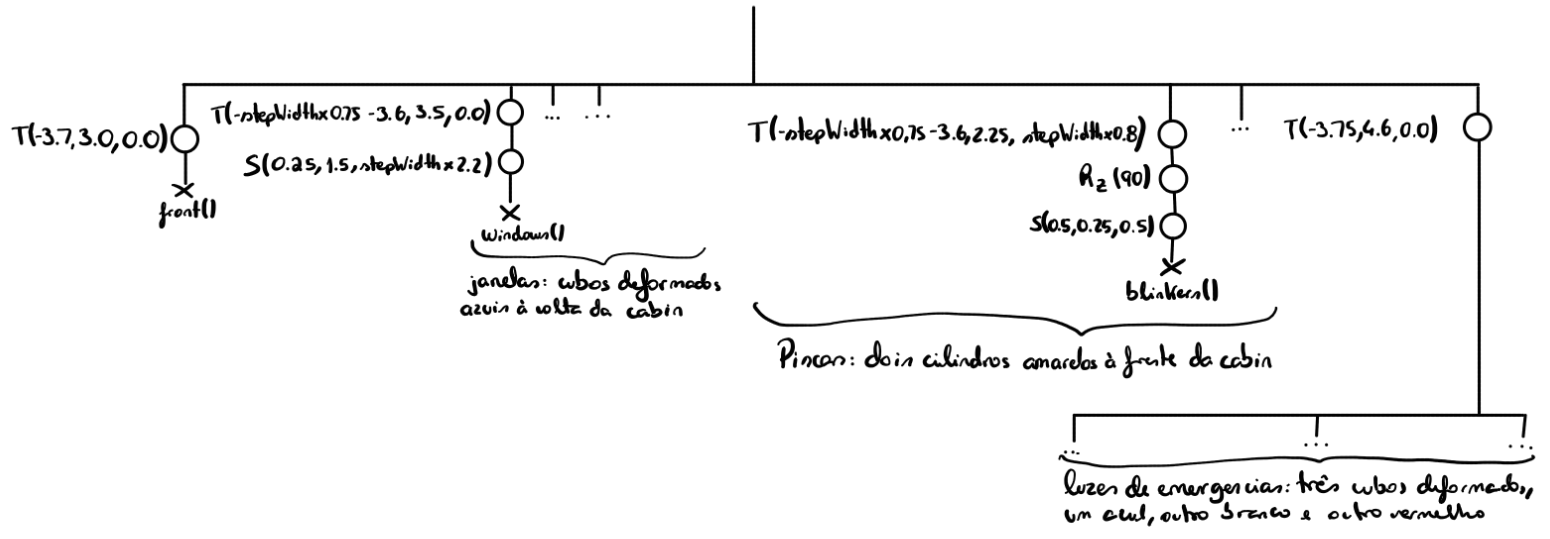


CUBE

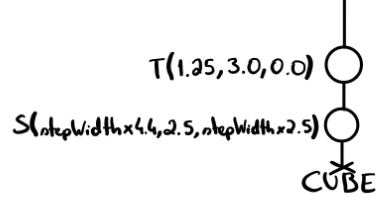
bumpers()



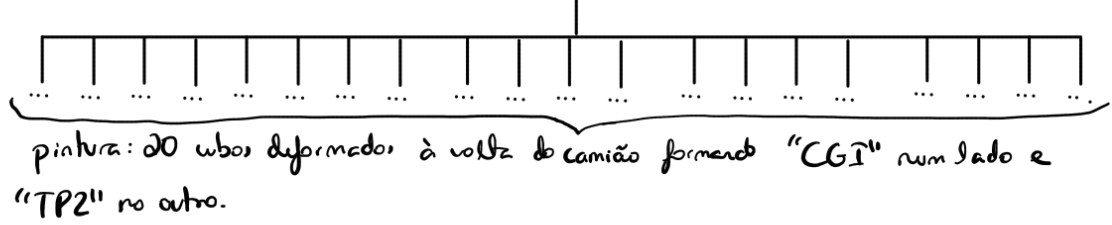
cabin()



waterTank()



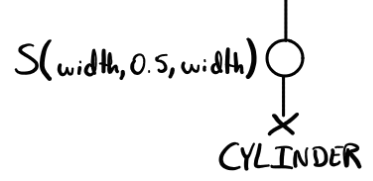
decal()



Variáveis:

• width = stepWidth x 1.5

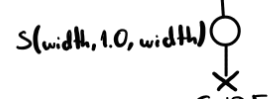
stairBaseRotation()



Variáveis:

• width = stepWidth

stairBaseElevation()



CUBE

Variables:

- $stairDepth = STAIRWIDTH$
- $nstepCount = nstepnr$
- $nstepHeight = STAIRWIDTH$
- $nstepDepth = stairDepth - 0.04$
- $nstepDistance = STAIRWIDTH \times 2$
- $nstepSpace = nstepHeight + nstepDistance$
- $gap = nstepwidth$
- $stairHeight =$
 $= nstepCount \times nstepSpace + gap$
- $compensationTrans =$
 $= nstepSpace \times nstepCount / 2$

$T(0.0, i \times nstepSpace - stairHeight / 2.0 + gap, 0.0)$

$S(nstepWidth, nstepHeight, nstepDepth)$

CUBE

Degraus: ambos deformados

stair()

$R_y(90)$

$R_x(-90)$

$T(0.0, compensationTrans, 0.0)$

$n = nstepCount$

$T((nstepWidth + STAIRWIDTH) / 2.0 \times -1.0, 0.0, 0.0)$

$S(STAIRWIDTH, stairHeight, stairDepth)$

CUBE

parte lateral de uma escada
(esquerda e direita)