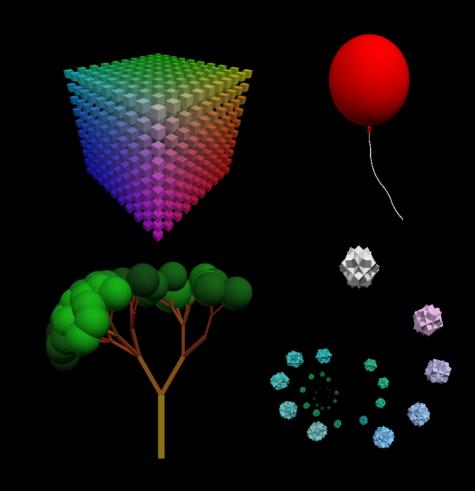
## Teoría de Lenguajes

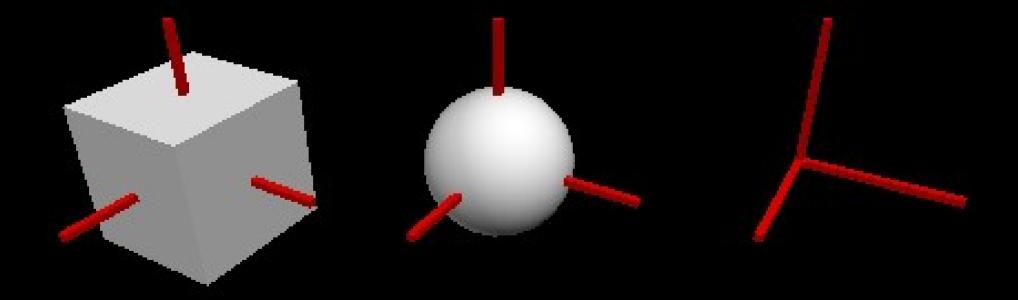
Procedural
Elements of
Grammatical
Synthesis

PEGS!

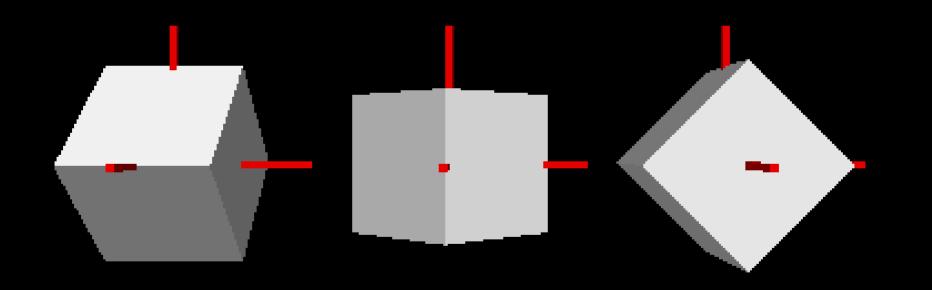


# Primitivas

box ball \_

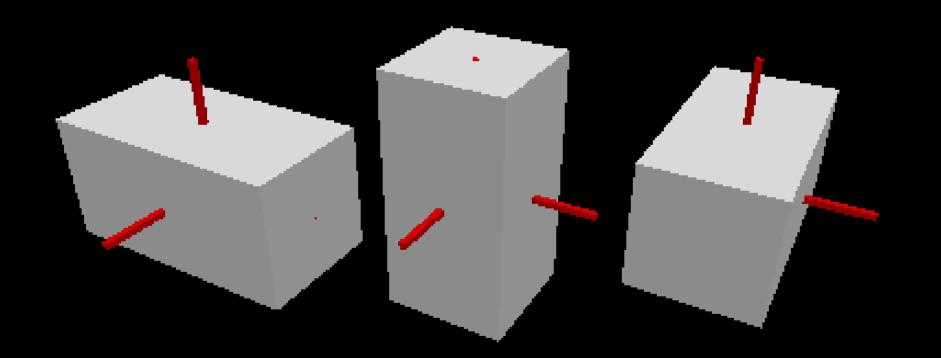


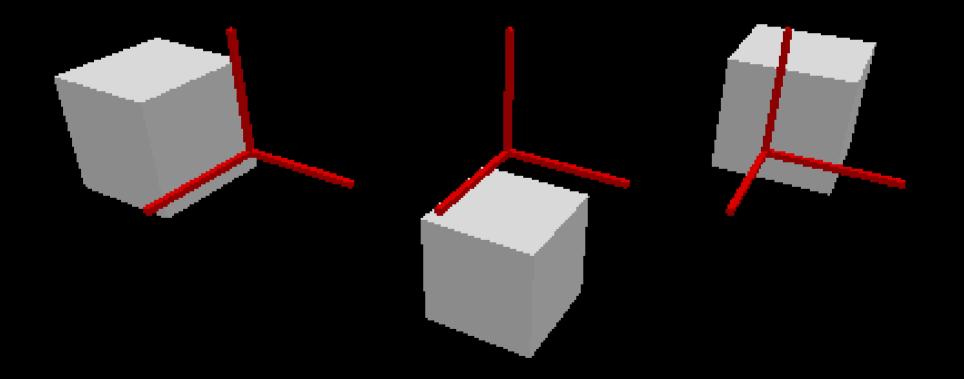
box:rx 45 box:ry 45 box:rz 45



box:s 1/2 box:s 1 box:s 4/3

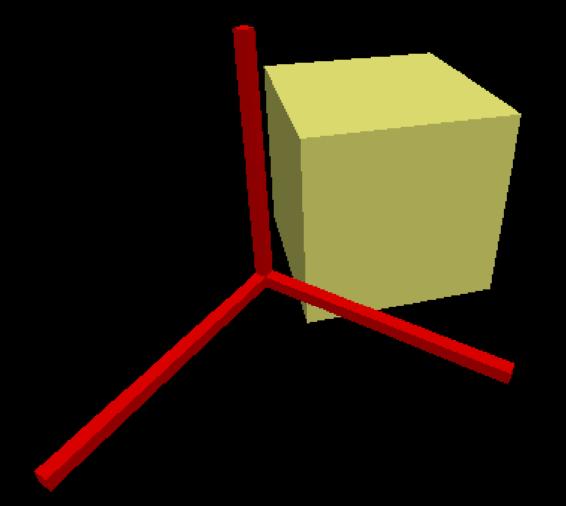
box:sx 2 box:sy 2 box:sz 2





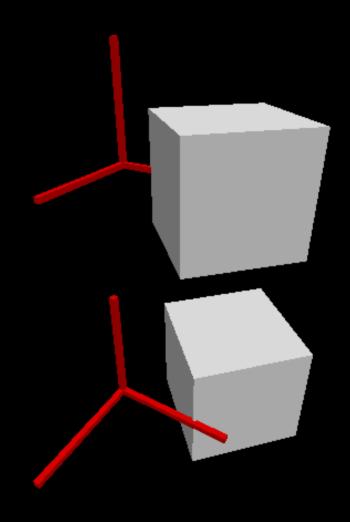
box:cr D box:cg D box:cb D

box : cb 0.5 : ry 360/8 : tz -1



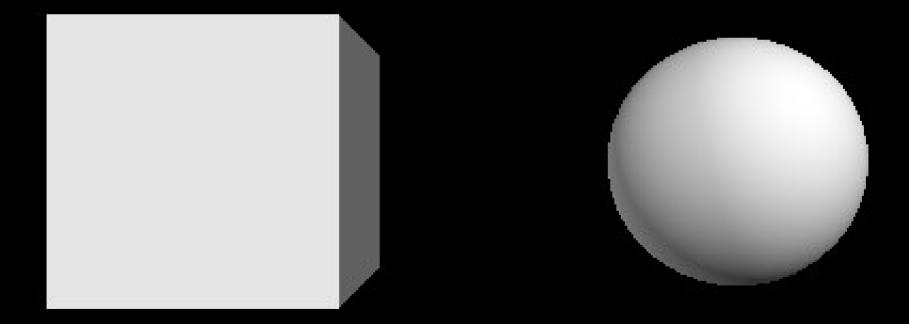
box:ry 45:tx 1

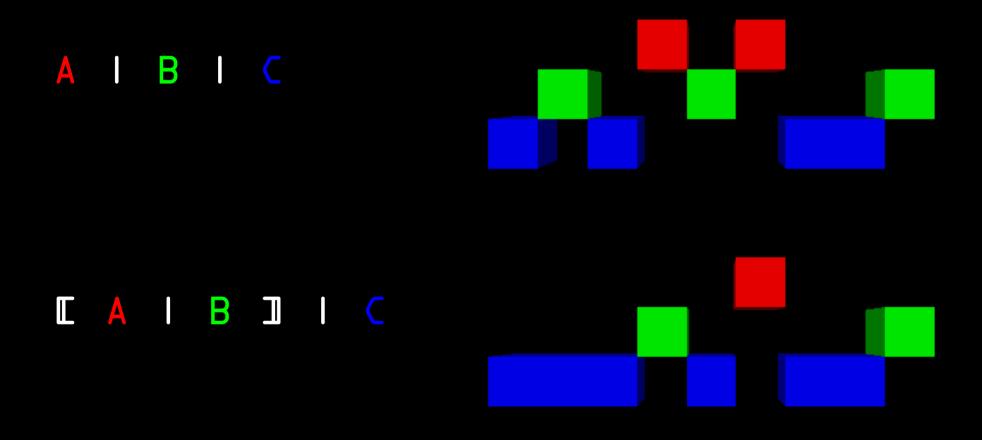
box:tx 1:ry 45

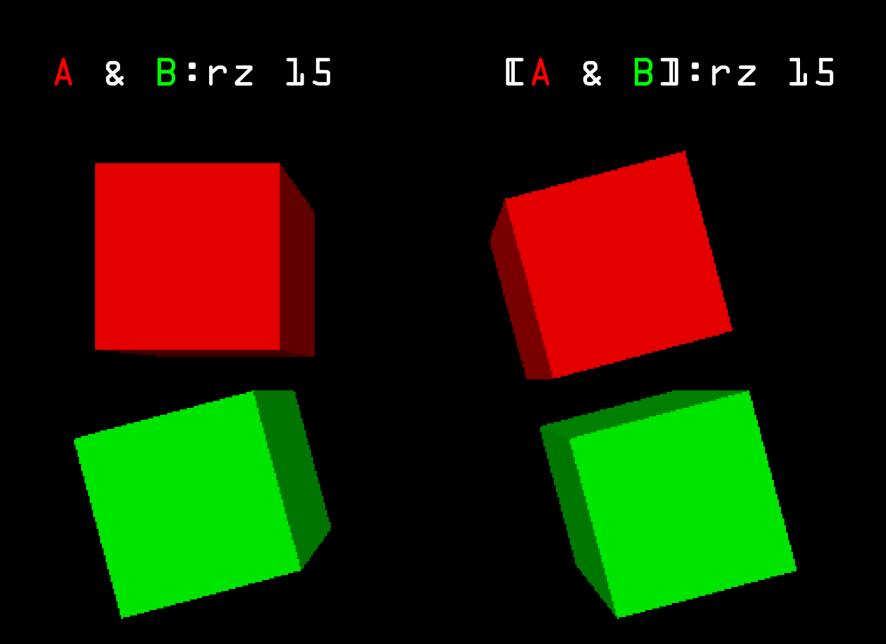


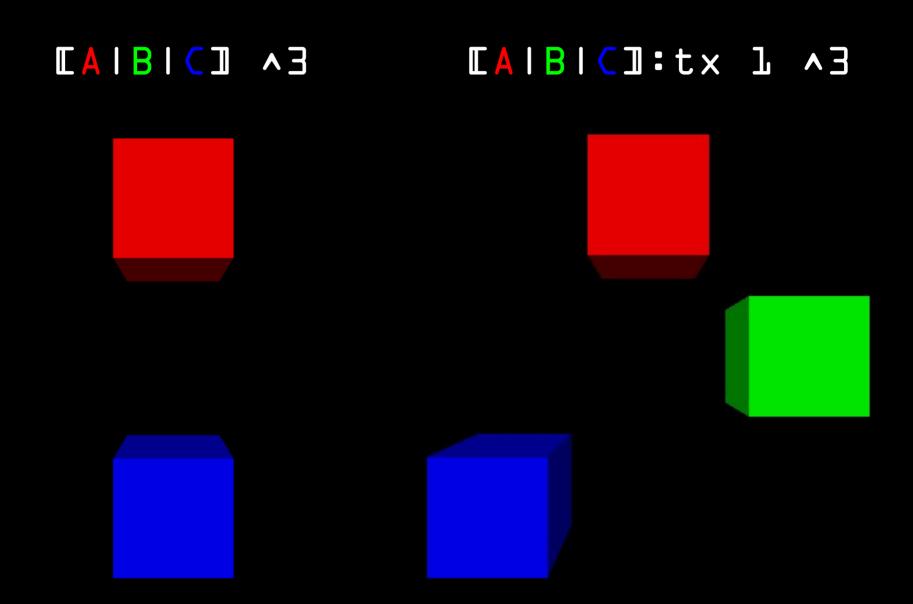
```
box:tx -1 & ball:tx 1
```

Box:tx -1 | ball:tx 1









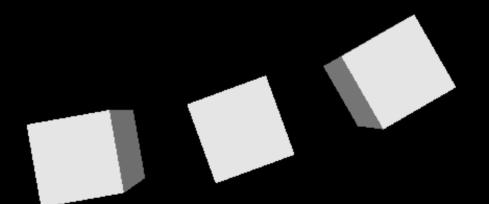
[box:rz l0]

:tx 2 ^ 3

[box]:rz l0

:tx 2 ^ 3





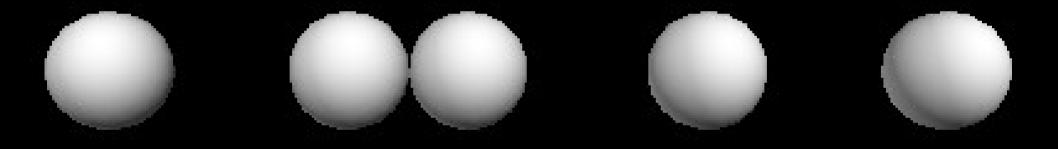
[box:rz l0]

:tx 2 ^ 3

box:rz 10

:tx 2 ^ 3

[[ < ball > ]:tx l ^ 告



```
A = ball:cg D
:cb D:ty L

B = ball:cr D
:cb D

C = ball:cr D
:cg D:ty -L
```

```
A = ball:cg O
:cb O:ty L

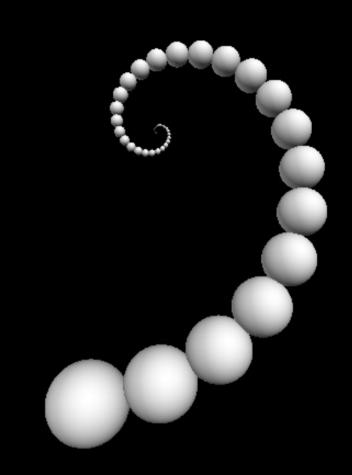
B = Bi | Bj

Bi = ball:cb O

Bj = ball:cg O

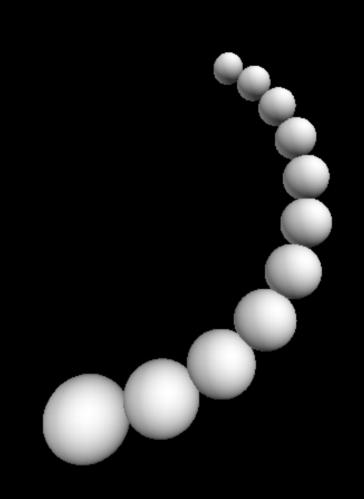
C = ball:cr O
:cg O:ty -L
```

```
spiral = ball
& spiral:tx l
:rz l5:s 0.9
```

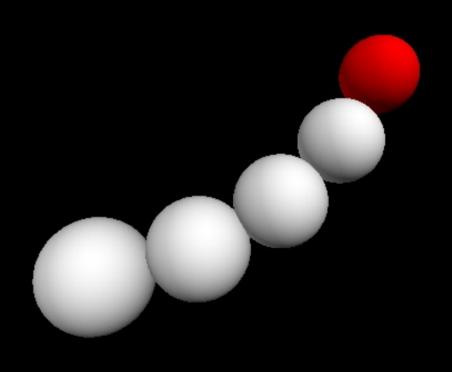


```
scene =
spiral:d l0
```

```
spiral = ball
& spiral:tx l
:rz l5:s 0.9
```

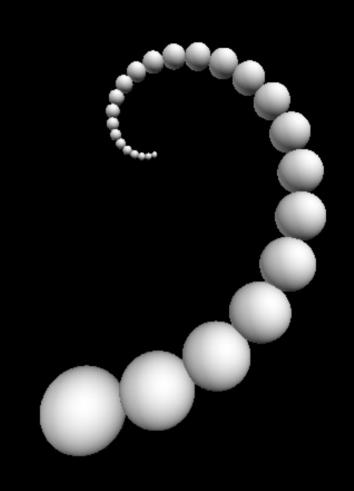


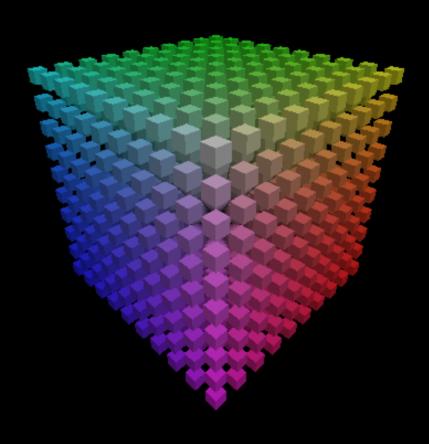
```
scene =
spiral:d l
spiral = ball &
spiral:tx l
:rz l5:s 0.9
spiral.=
ball:cg 0:cb 0
```



```
spiral = ball
& spiral:tx l
:rz l5:s 0.9

= spiral:d 25
```





```
balloon = ball:cgO:cbO:sxO.9:szO.9
     & ball:cg0:cb0:s0.04:ty-0.52
     & box:cq0:cb0:s0.03
          :rz45:rx45:ty-0.56
     & line:ty-0.56:dl0
line =
  box:sx0.01:sy0.1:sz0.01:ty-0.05
& [ line:rzlO:ty-0.l
  l line:rz-l0:ty-0.l l
 = balloon
```

```
spark = [ box:rz45 ]:ry45 ^ &
head = spark & tail
tail = head :s0.9
  :tx3 :rz-40 :rylo :cr ዐ.ል
tail = head :s0.9
  :tx4 :rz-30 :ry20 :cg 0.8
tail = head :s0.9
  :tx5 :rz-20 :ry30 :cb 0.8
$ = head
```

```
maze = [ [ path :tx -8 :ty 8 ] :tx 1 ^ 16 ] :ty -1 ^ 16

path = box :sz 0.2 :tz 0.1 & walk:tz 1/3 & wall:tz 1/3

walk = [ box :s 1/3 :cr 0.2 :cg 0.2 :cb 0.2 :tx 2/6 :ty 2/6 ]:rz 90 ^ 4

wall = [ << box :s 1/3 :cr 0.2 :cg 0.2 :cb 0.2 :tx 2/6 >> ]:rz 90 ^ 4

$ = maze :rx -30
```

