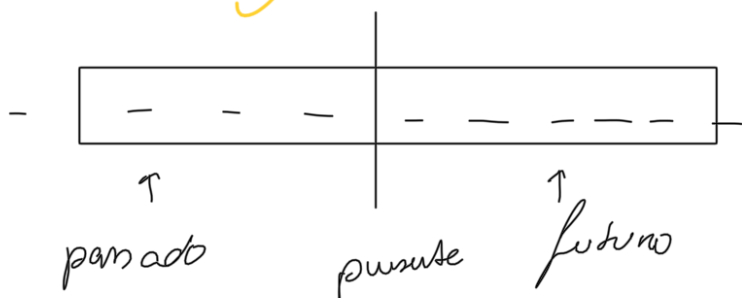


LZ77 janela deslizante



LZ78

$\{A, B\}$

→
+ complexa

AA B A A B A A B | A B B A B A A B B A B B

→
- complexa

AAA AAA AAA B | B B B B B B B

a

+ complexa

→ 1 - A
2 - AB
3 - B
4 - ABA

$(0, A), (1, B), (0, B), (2, A)$

- complexa

↘ 1 - A $(0, A) (1, A) (2, A) (2, B)$
2 - AA
3 - AAA
4 - AA B

L7W

Dicionário é iniciado com o alfabeto

$\{A, B\}$ $A | A | B | B | AB | AB | AB \dots$

- 1 - A
- 2 - B
- 3 - AA
- 4 - AB
- 5 - BB
- 6 - BA
- 7 - ~~ABA~~
- 8 - ABB

1, 1, 2, 2, 4, 4

Rec	n	1	2	2	4	4
		A	A	B	B	AB
pos		3	4	5	6	7

- 1 - A
- 2 - B
- 3 - AA
- 4 - AB
- 5 - BB
- 6 - BA
- 7 - AB
- 8 - AB?

→ Codificação aritmética

$-\log_2 P$

nº de bits ótimo

$P = 0,9$

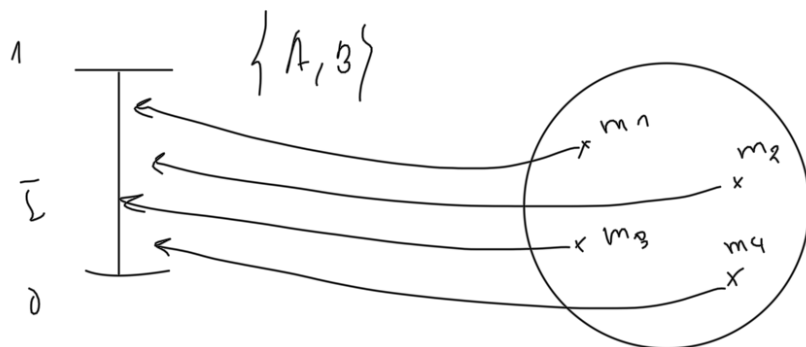
$-\log_2 0,9 \approx 0,15$

para apresentar um
arvore com prop. P

$$A - 1 \leftarrow 0^1$$

$$B - 00$$

$$C - 01$$



$I \subset \mathbb{R} \rightarrow$ Infinito não contável
 $I \subset \mathbb{Q} \rightarrow$ Infinito contável $\left. \vphantom{\begin{matrix} I \subset \mathbb{R} \\ I \subset \mathbb{Q} \end{matrix}} \right\} \mathbb{N}$

$$A - 0,5$$

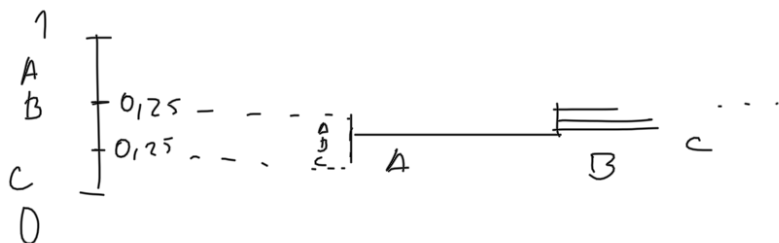
$$B - 0,25$$

BABC

Intervalo conexo

$$C - 0,125$$

$$[L^n, H^n]$$



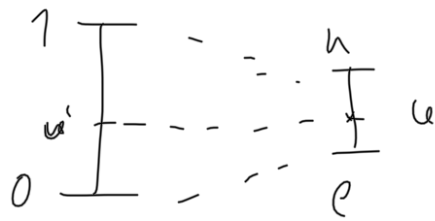
Novo simbolo

$$[l, h]$$

$$l^{n+1} = l^n + l(H^n - l^n)$$

} Transição de

$$H = l + h(H^n - l^n) \quad \text{implementação Gráfica.}$$



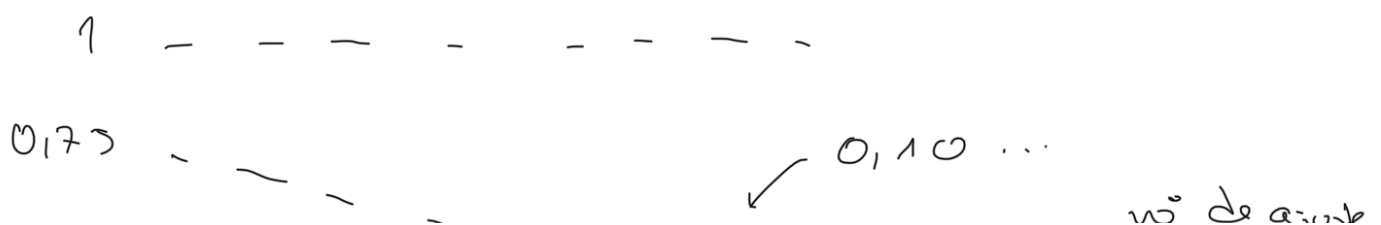
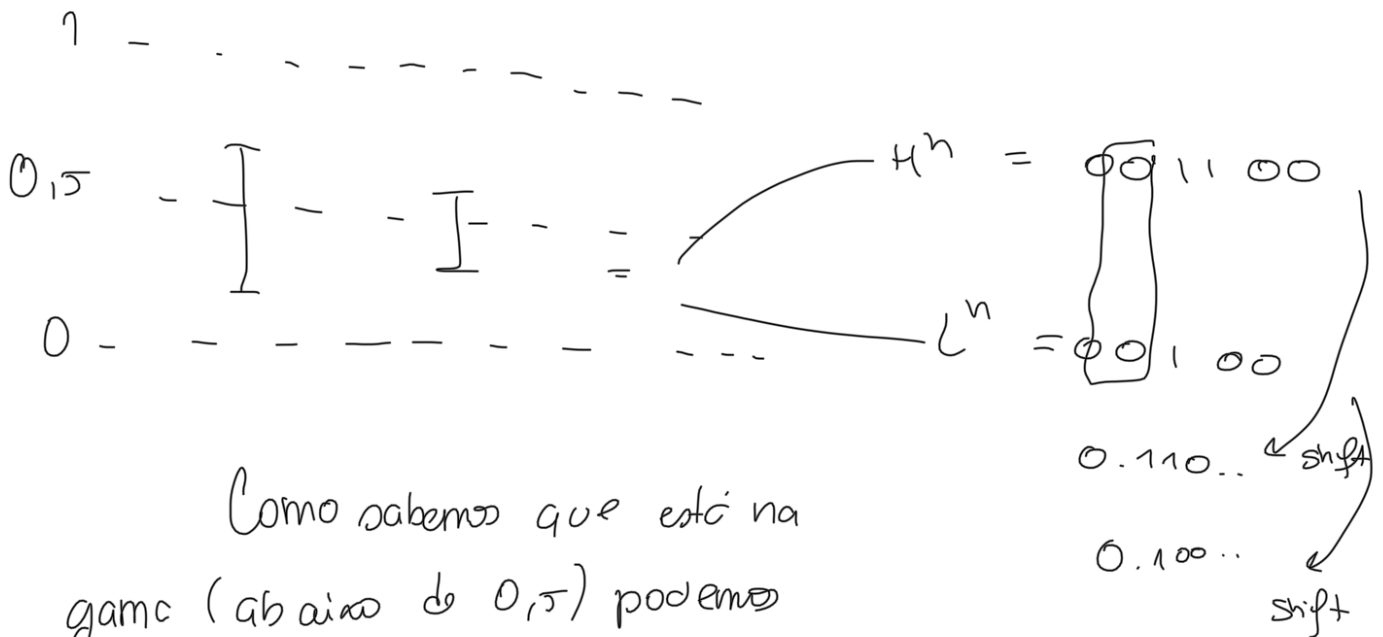
$$(n-1) - 1$$

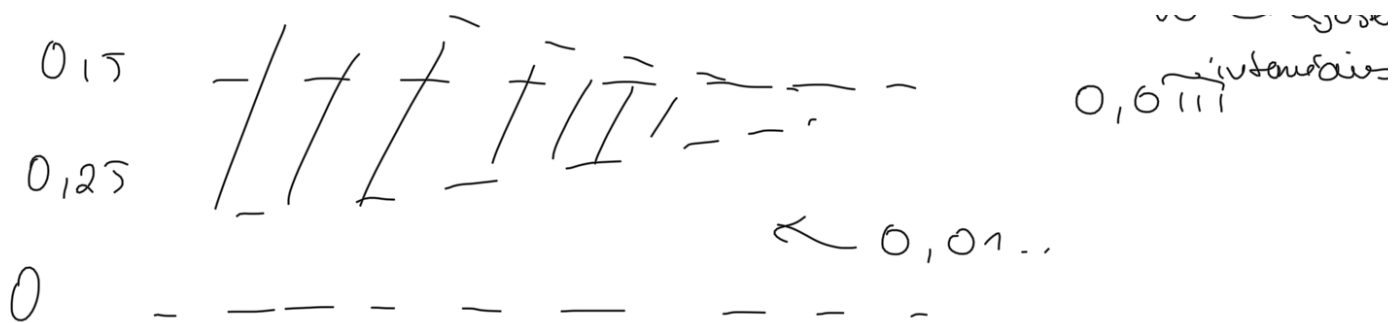
$$(u-1) - u'$$

↓
 verificam que o
 valor u pertence
 ao intervalo inicial de B

$$u'(n-1) = u-1$$

$$u' = \frac{u-1}{n-1}$$





$$L = (L - 0.125) \times 2$$

$$H = (H - 0.125) \times 2$$

rescaling (adeguando)
(uma dexa tem o bit
diferente e que não dá
info sobre este).