

motomático Dleson Samulacióo

Expermente real

Ingradientos boáscos xoro amulação \* modele

Se edocotive: ANG (60~)

conveying so weren so reported

\* Epsito giaicos (témico, dios 20.01, atomo) \* computador é determinátice - PRNG

PRN6 - Determentation

Linson Con exumential Garanton (LCG)

## 2;=(0,2;,+c) mod m

Lato stanto with a=2, c=0, 20=1, m=9

23 = (8×4) mod 9=8 7 = ( & x 8) mod 9 = 7 2 L= 2 mod 9 = 2 2 = (2 2 = 1) mod 9 26=(2×5) mod 9=1 5=bpow(tx8)=5f 2 = (2×2) mod 9 = 4 U,=2/q=0,22 U3=8/9=0.88 17=4/9=0H4 Ex. 16 mod 9 

Linson Raunains Gonoston

\* Adioona mais a penatro ? 0 **.901** 

2 = ( 0, 2 + 0, 2 + ...) mod m

Management Wiston & 5 mais ut surpode (Python)

Comprografia 58 800 N157 FIPS ITS

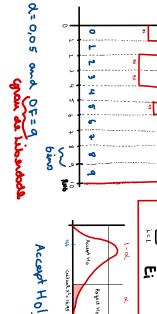
Entropy Source

Self toot, Hensed, good Alg.

(hi- square goodnem of git

(Experimental) histograma × Unisoma

## EXPERIMENT THEO RETICAL x= 5 (0; -E; ) = 4.6



H1: mon-surveyorm Where x2>16,95 Ho: Is sundarm where x2 16,95

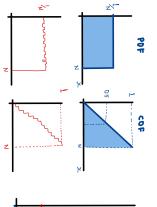
2 g = (2 x 2) ~ od a = 4 2 \*= (&×1) mod 9 = 2

> Us=5/9=0,55 0,4= p/4= pU

U6=1/9=0,11

U == 2/9 =0,22

Kolmogonovi - Sminmon toot



theoretical Experiment

D= mox (2: - 1-1)

D= mox (1-21)

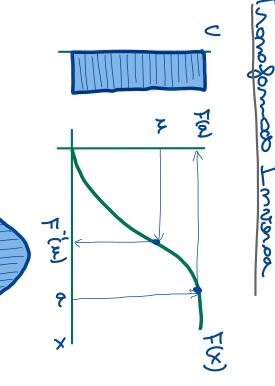
D=mox(0,0)

the by spothersis. If 0 5 On account

Outrostotos: Rumo Stotistical toot Suite de NIST

DIEHARO: 12 toots STS: 16 tooto

spore asympomentes within \* Of shore [0.01, 0.001] token. ( security modula) como HSM, contoso,



## Unilome desdecoo

$$\frac{1}{(b-0)}, x \in [0, b]$$

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$$\frac{1}{(b-0)}$$

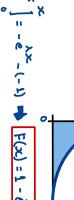
$$\frac{1}{(b-0)}$$

$$F(x) = \int \frac{1}{(b-a)} dt = \frac{1}{(b-a)} \frac{x}{(b-a)} = \frac{x-a}{(b-a)}$$

Writing x interme of b. Setting y= x-0, we obtain the invience by

$$\begin{cases}
\lambda = \begin{cases}
\lambda = \lambda \\
\lambda = \lambda \\
0 \text{ otherwise}
\end{cases}$$

$$F(x) = \begin{cases} \lambda = \lambda^{\frac{1}{2}} \\ \lambda = 0 \end{cases} = -\lambda^{\frac{1}{2}} = -\lambda^{\frac{1}{2}}$$



$$\frac{1}{2} \sum_{i=1}^{\infty} \frac{1}{2} \left( \frac{1}{2} - \frac{1}{2} \right)$$

$$\frac{1}{2} \sum_{i=1}^{\infty} \frac{1}{2} \left( \frac{1}{2} - \frac{1}{2} \right)$$