The building block of simulation is being able to scriple an iid sequence of Unif (0,1)

U1,...,Un

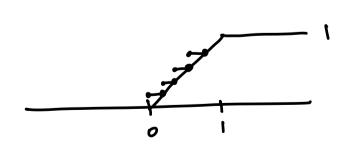
How do re supple Unifico, D rendom numbers

-Dabbaring a compou inférent

) a remon where m is $x_n = 0, 1, \dots, m-1 \quad |arge| \quad |arge|$

 $V_n = \frac{x_n}{m}$ $V_n = \frac{x_n}{m}$ $V_n = \frac{x_n}{m}$ $V_n = \frac{x_n}{m}$

est of Un conseses to the



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- A fire Lagou unpers cue per to 2 aves for
- Posengo conjan umper
             selvence of umpers a biengo-Langon
    -pwy of generally a deterministic sequence that
             looks radon
       simple one: (multiplicative conjumnation)
              xo = seed value
    bering of well is of wast w
  w is doil for ps pure ou the pit sise of
               m= 231-1
               a= 7<sup>s</sup>
               period 16,807
  linear congranteel generator
              x = (a x = 1 + b) nol n
```

Mersenne Taister 219,937 - 1
period of 2