

# The Impact of GIM

# Quark Mixing

The existence of charm

The “matrix” in “CKM matrix”

naïvely (almost) approximate  $T$  symmetry

the third family

Phenomenology of heavy quark decays

Axioms

# Loops

Taking loops seriously!

(This was especially bold, since even the trees were insecure.)



Short-distance analysis

Phenomenology of  $K_L \leftrightarrow K_S$  mixing,  $K \rightarrow \pi l \bar{l}$ ,  $\dots$ ,  
 $\mu \rightarrow e \gamma$ ,  $\dots$

Now What?

The family question is now sharply defined.

The answer, though, is quite unclear:

symmetry?

topology?



NO. 2  
50¢

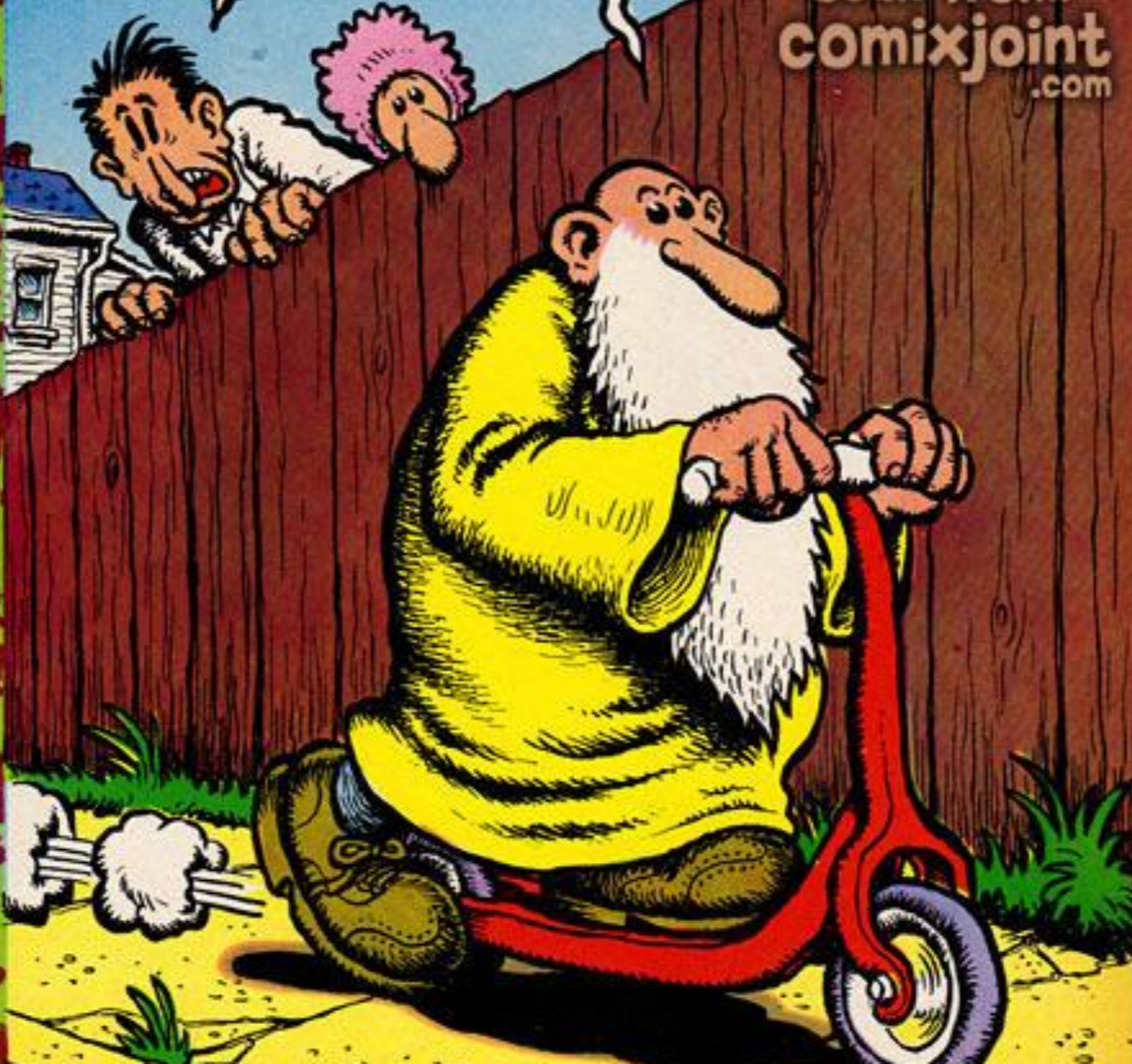


# Mr. Natural

MR. NATURAL!  
WHAT DOES IT  
ALL MEAN??

DON'T  
MEAN  
SHEET...

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landscape?