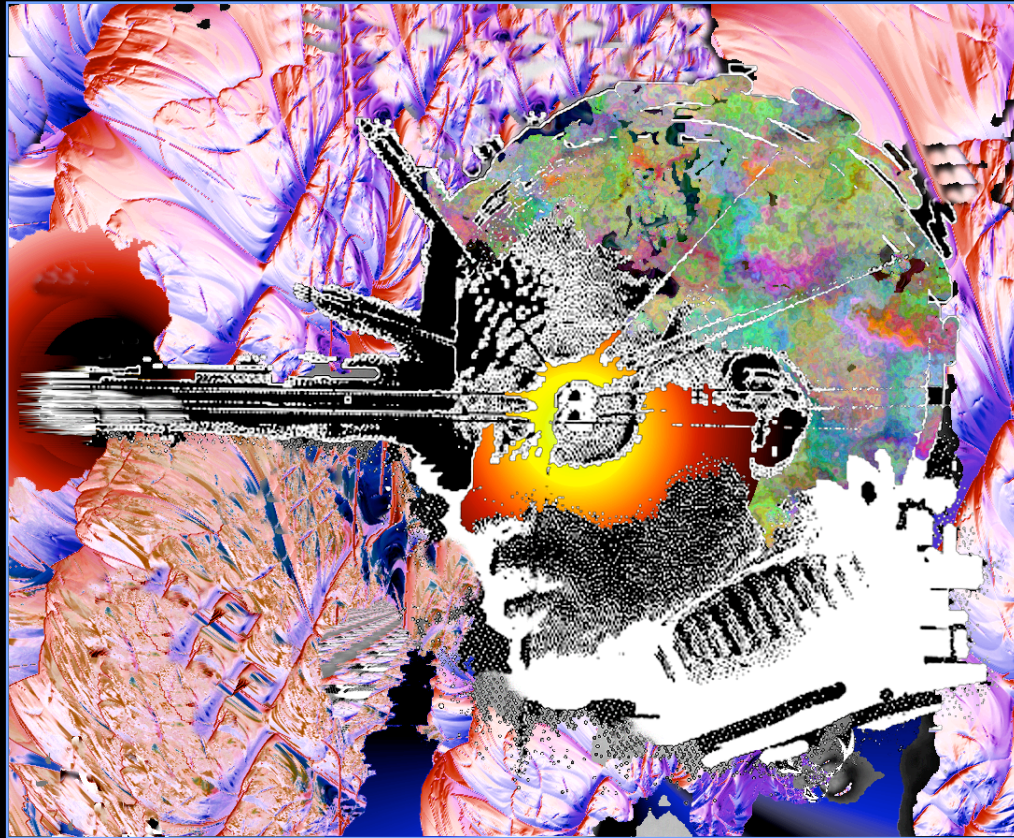


The Age of Silicon



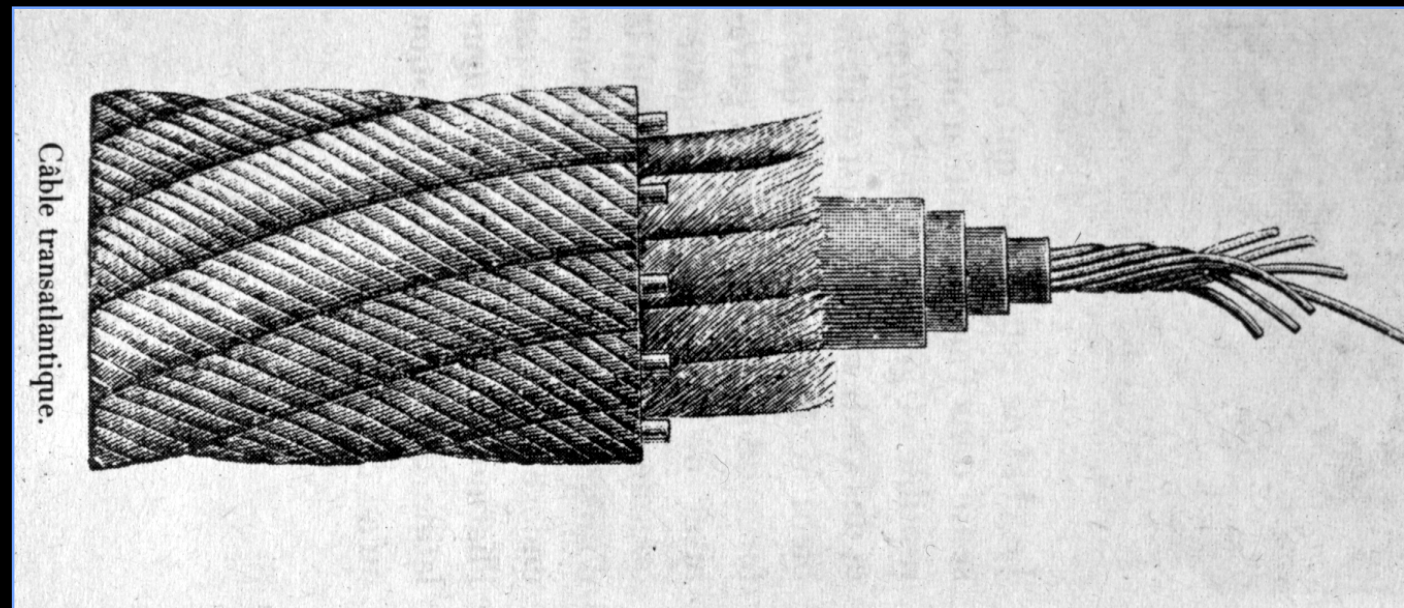
1977-200x

Age of Silicon

- Increasing control over inanimate forms of energy
- Its nature
- Its costs



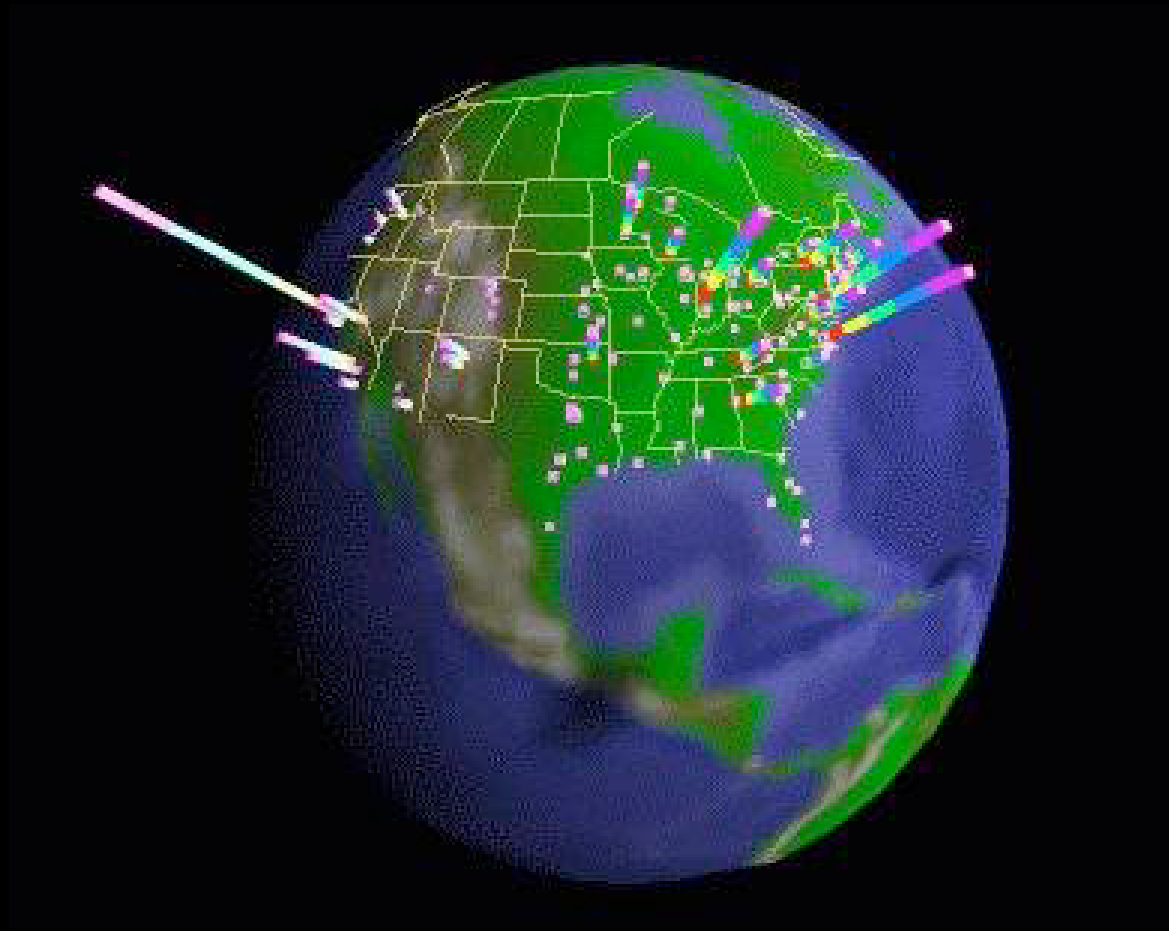
Pony Express:
Missouri to
California (1,966
miles) in ten days



The Age of Silicon: 1977, 1984



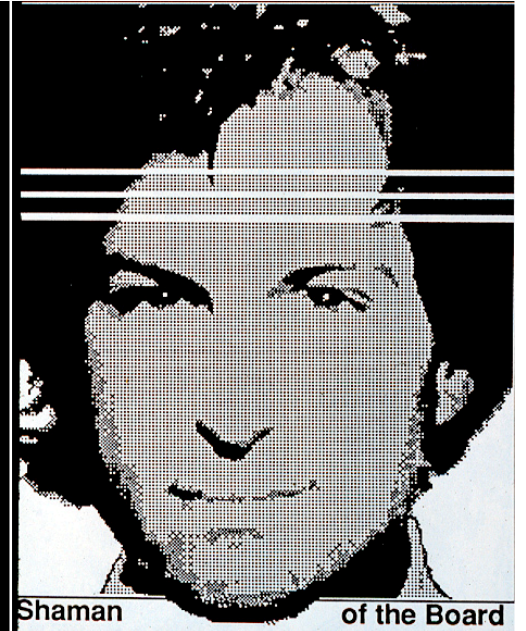
Scale Map of Internet Traffic Volume



CYBERSPACE

THE REAL PLACE
THAT ISN'T THERE

- In the personal computer, “there was something...*beyond*... what you see every day.” — Steve Jobs, Apple Co-Founder



THE HEAVENLY CITY

- “All images of the Heavenly City — East and West — have common features: weightlessness, radiance, numerological complexity, palaces upon palaces, peace and harmony through rule by the good and wise, utter cleanliness, transcendence of nature and of crude beginnings, the availability of all things pleasurable and cultured.”

— Michael Benedikt, *Cyberspace: First Steps*

THE NEW CITY

- “The city, traditionally the continuous city of physical proximity, becomes the discontinuous city of cultural and intellectual community.”

— Marcos Novak, “Liquid Architectures in Cyberspace”

PRINCIPLES OF THE PIONEERS

(from Steven Levy, *Insanely Great*)

They mostly did what they did because they loved doing it. But almost all of them believed that the fruits of their labors would empower ordinary people and perhaps even, in some subversive way, nudge the collective thought process, the group mind, toward the keystones of their philosophy, which were embodied in technology. These principles were:

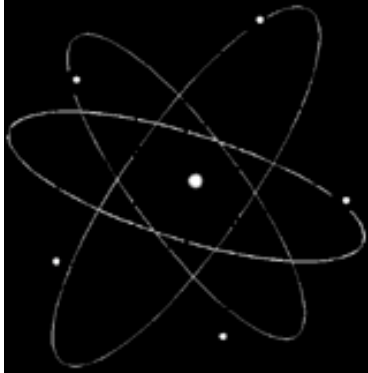
Decentralization

Sharing

Knowledge is a good in and of itself.



**THE NET INTERPRETS
CENSORSHIP
AS DAMAGE
AND SO TRIES
TO ROUTE AROUND IT.**



**A TECHNOLOGY
HAS TRULY ARRIVED
WHEN THE NEW PROBLEMS
IT GIVES RISE TO
APPROACH IN MAGNITUDE
THE PROBLEMS
IT WAS DESIGNED TO SOLVE.**



Reach Out And Touch Someone



“Sell-Out”... “Maturity”... or ?

“[In the early 1980s] the Third Generation lived with compromises in the Hacker Ethic that all software and all information should be free. “It all stemmed from money. Elegance, innovation, and coding pyrotechnics were much admired, but a new criterion for hacker stardom crept into the equation: **awesome sales figures.**” — Steve Levy, *Hackers*

COUNTERCULTURE

becomes

HYPERCULTURE

