



Computing & reading 3:
Emergent theory:
Writing a recent history of the present

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IBM Keypunch machine



A FORTRAN program as a deck of punched cards

FIGURE 1

Keypunch room,
Columbia University





FIGURE 2. IBM 7094, Columbia University, 1960s

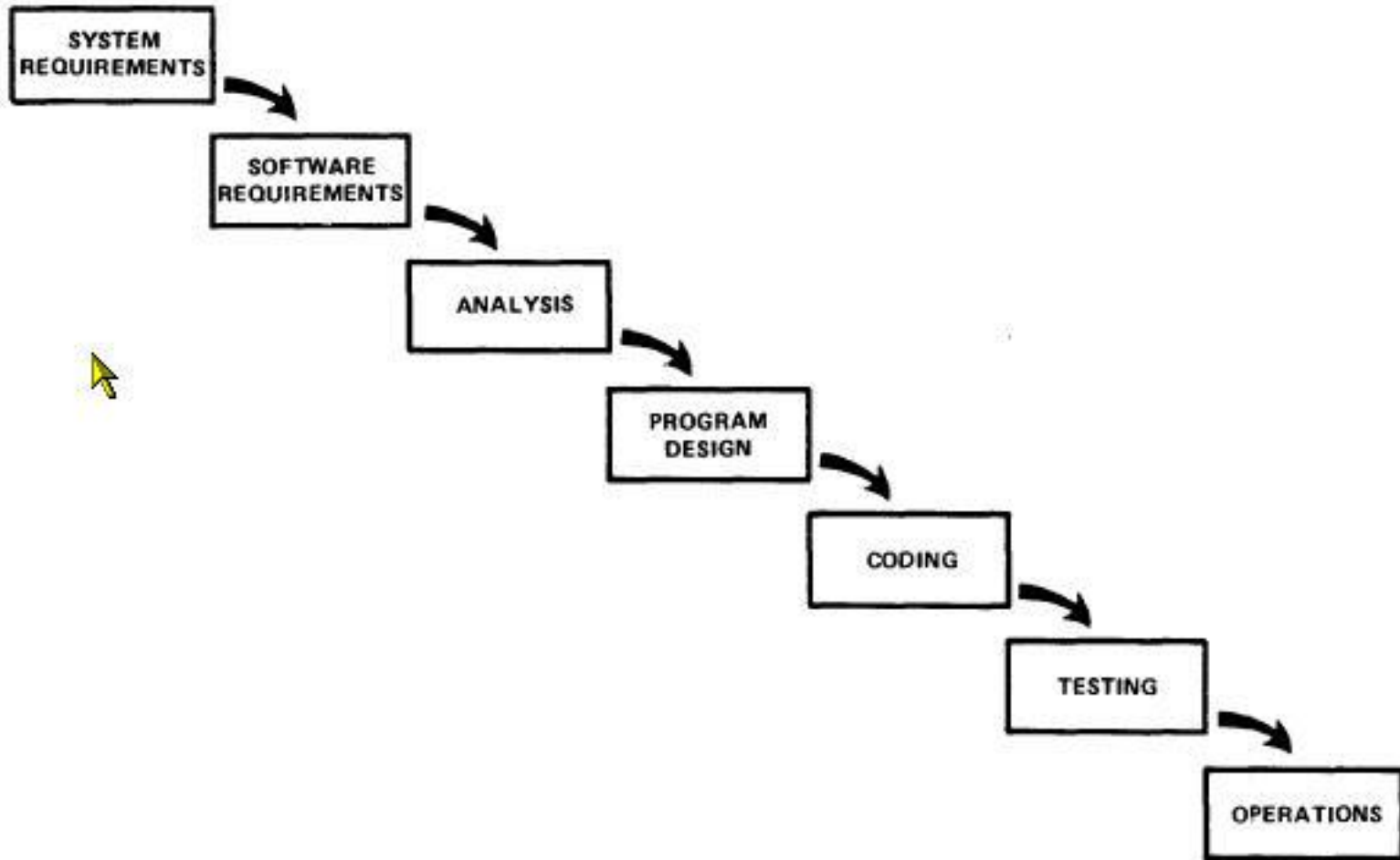


Figure 2. Implementation steps to develop a large computer program for delivery to a customer.

FIGURE 3. The Waterfall Model of program design & implementation in Winston W. Royce, "Managing the development of large software systems", IEEE WESTCON (1970: 1-9). Note his belief in the process but serious qualifications.

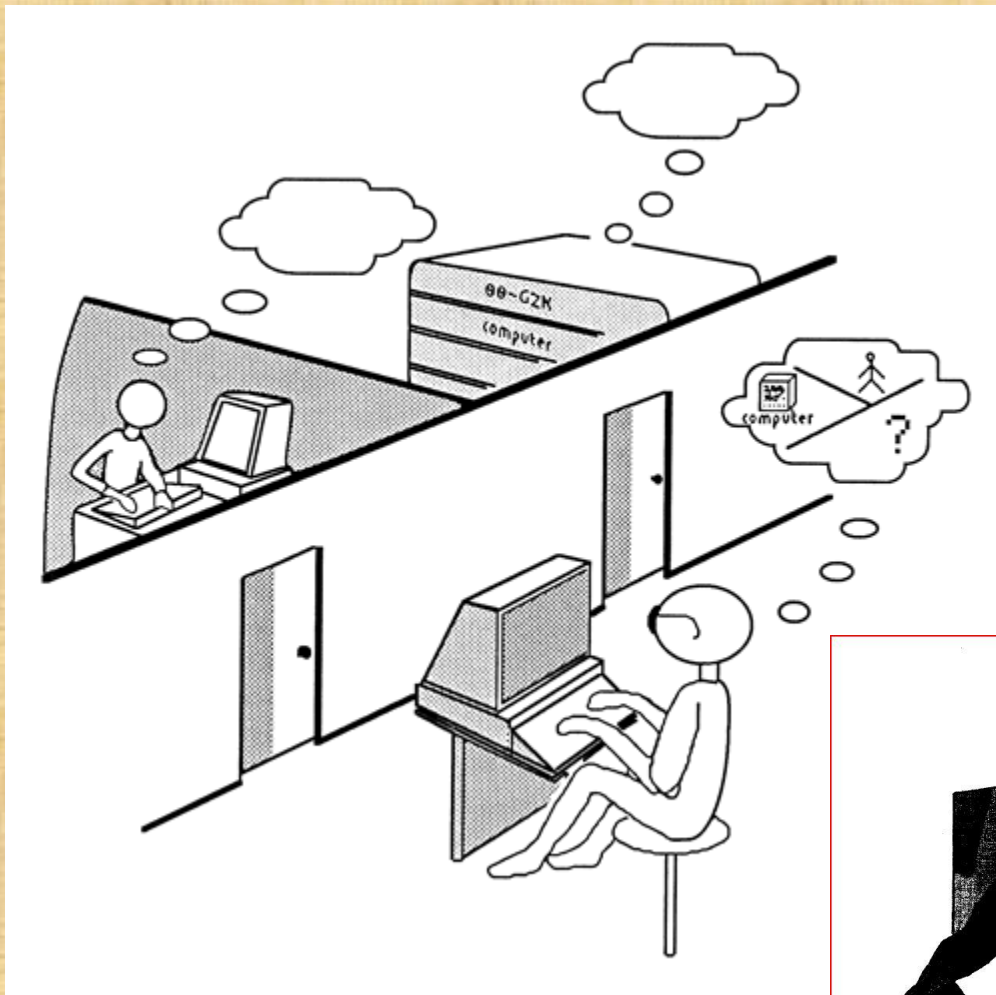
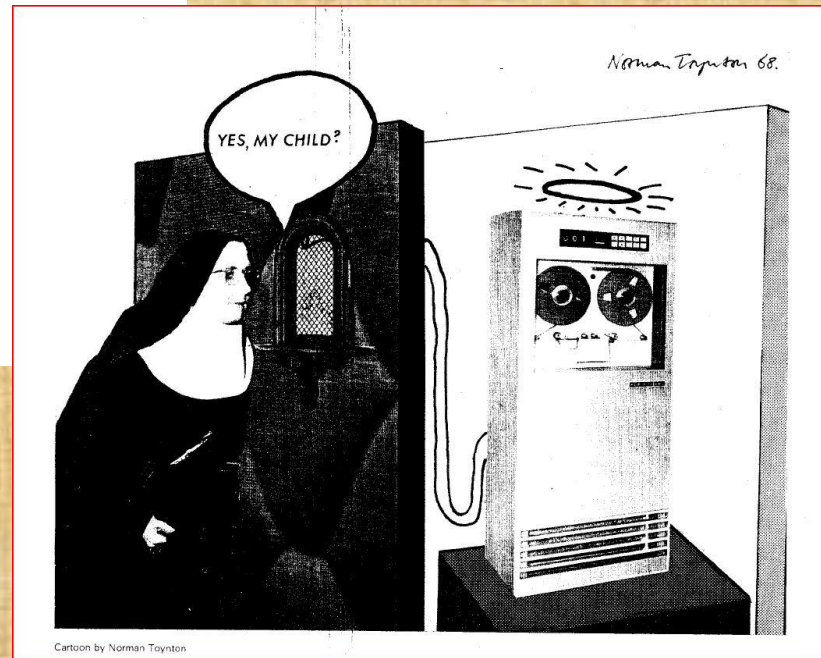


FIGURE 4

The Imitation Game as
proposed by Turing

& as depicted by
Norman Toynton in 1968

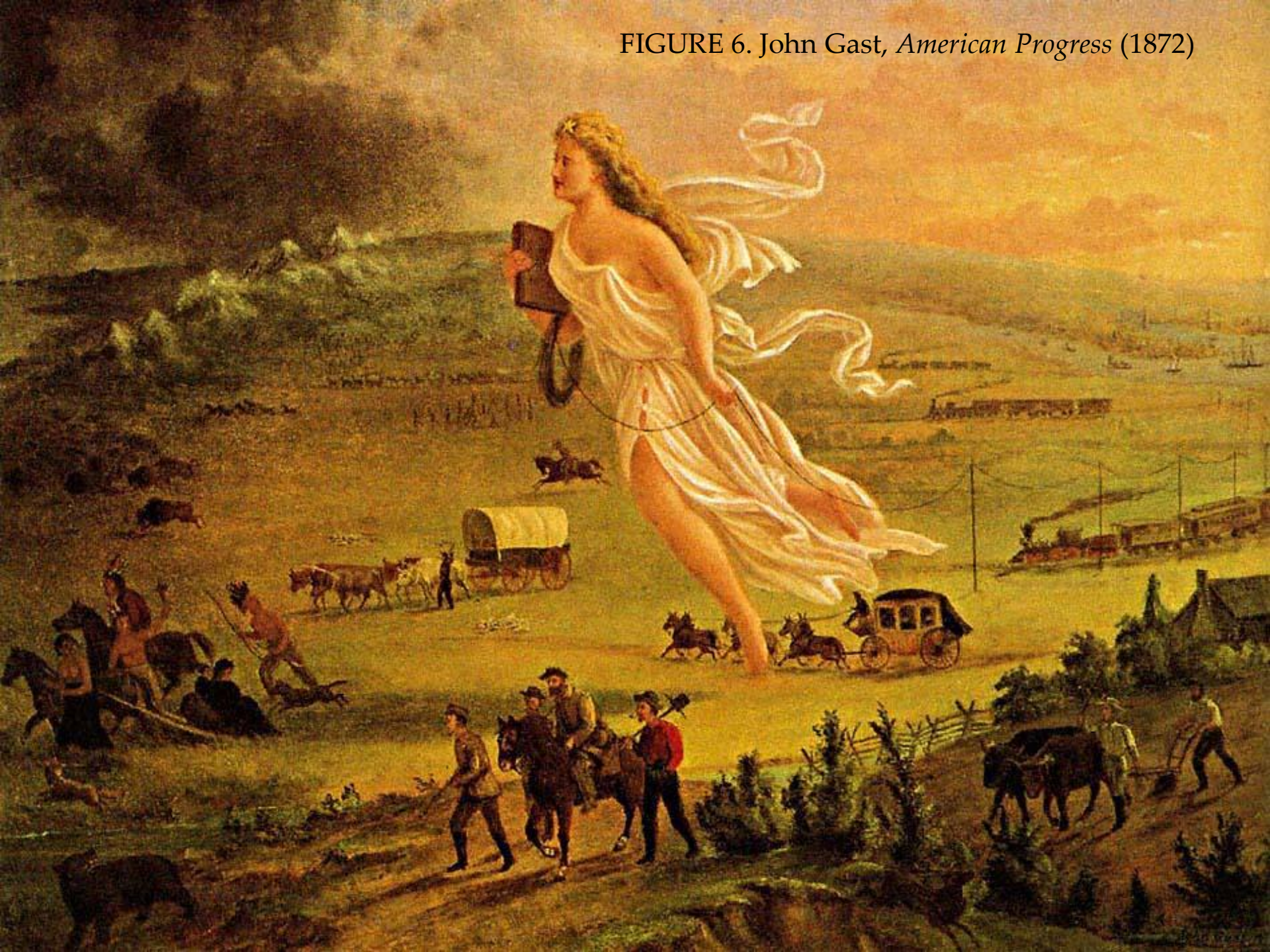


Cartoon by Norman Toynton



FIGURE 5.
Humphrey Bogart, in *The African Queen* (1951), dir. John Huston, based on a novel by C. S. Forester

FIGURE 6. John Gast, *American Progress* (1872)



PLANNING AND CODING OF PROBLEMS
FOR AN
ELECTRONIC COMPUTING INSTRUMENT

BY

Herman H. Goldstine

John von Neumann

Report on the Mathematical and Logical aspects of an
Electronic Computing Instrument

Part II, Volume I

Institute for Advanced Study
Princeton, New Jersey

1947

FIGURE 7

FIGURE 8.
Improvisational modelling

