Geschichte und Ästhetik der audiovisuellen und digitalen Medien II

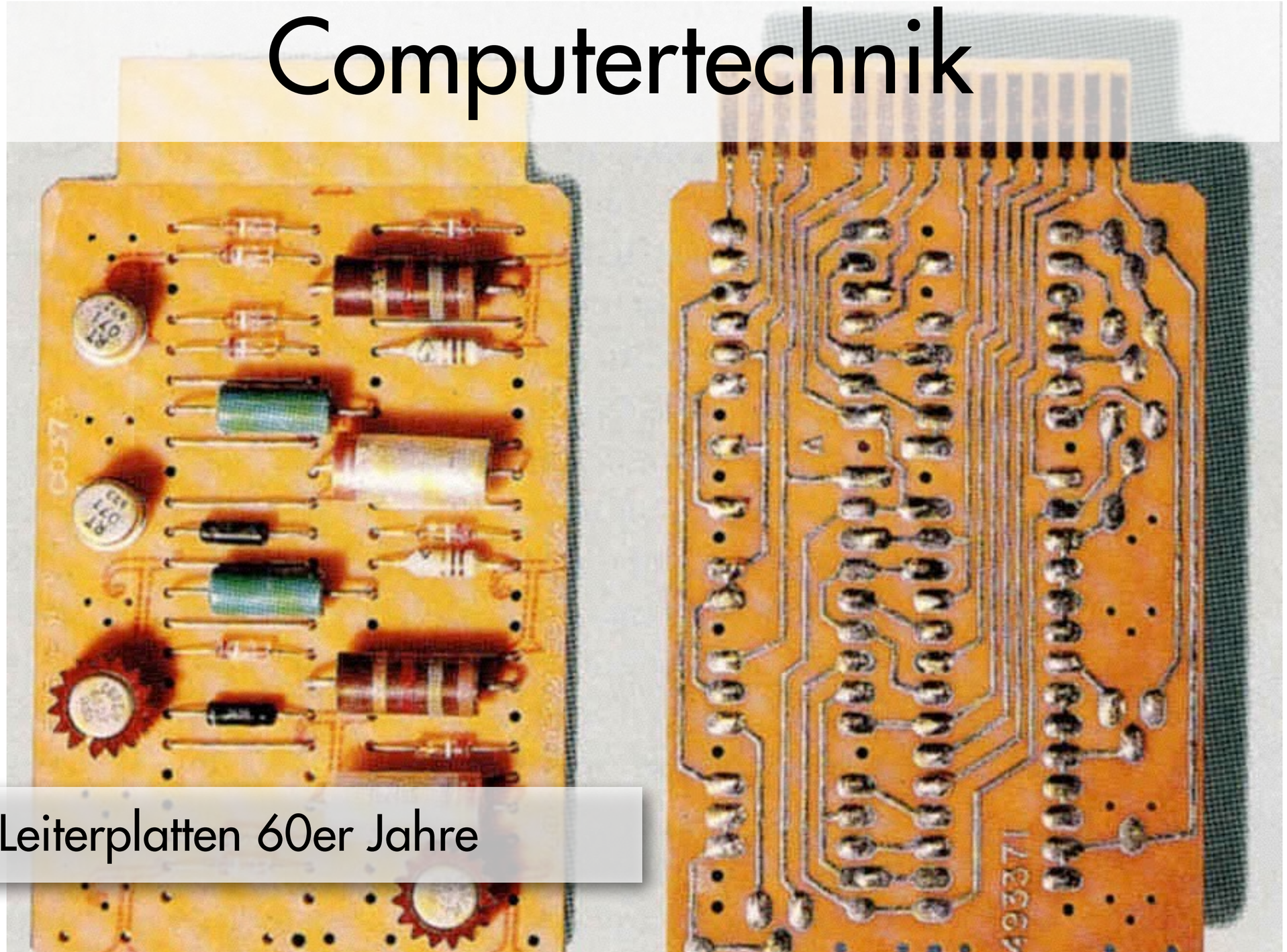
1960-1972

Prof. Dr. Jochen Koubek

Technikgeschichte

Whirlwind

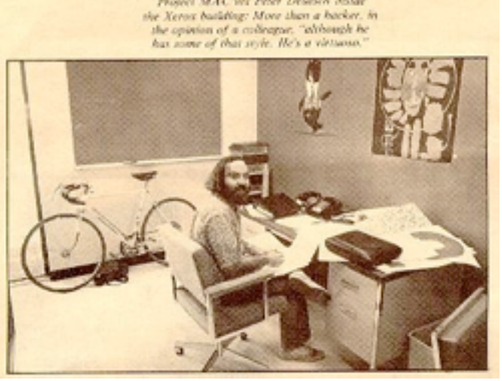
Computertechnik



Leiterplatten 60er Jahre

TX-0

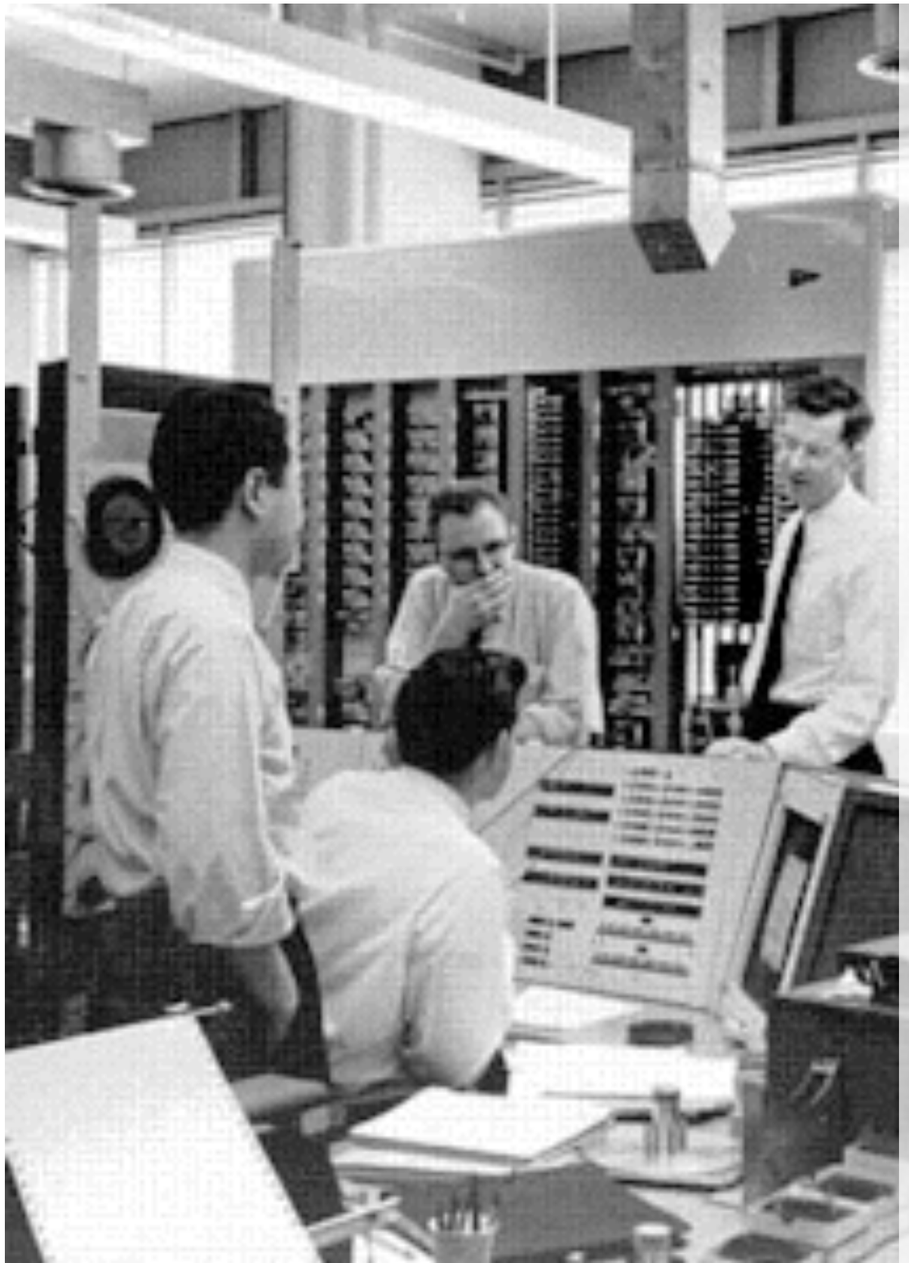
MIT – Hackers



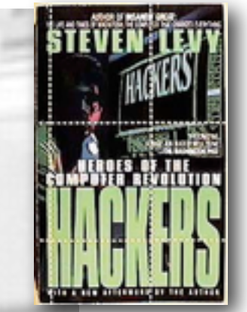
Peter Deutsch

Richard Greenblatt

Bill Gosper



TX-0 «Tixo»



Access to computers should be unlimited and total.

Always yield to the Hands-On Imperative

All information should be free.

Mistrust authority--promote decentralization.

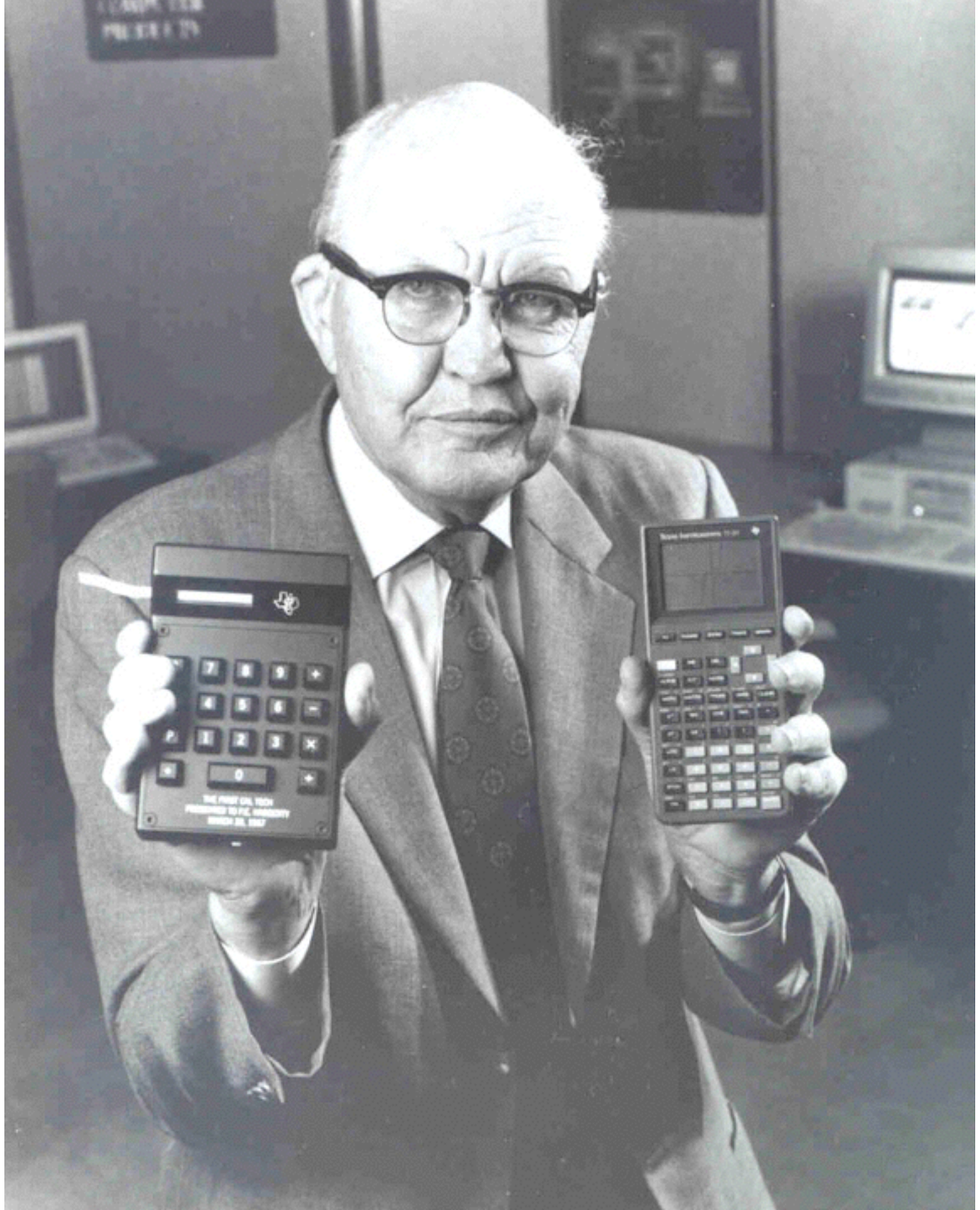
Hackers should be judged by their hacking.

You can create art and beauty on a computer.

Computers can change your life for the better.

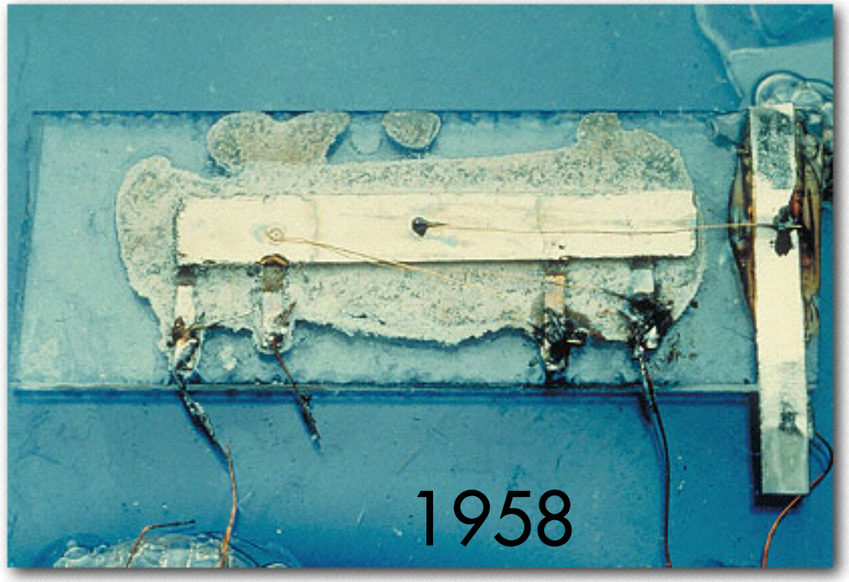
TX-2

Transistorized Experimental Computer
TX-2 am MIT, 1958



Jack Kilby

Integrierter Schaltkreis

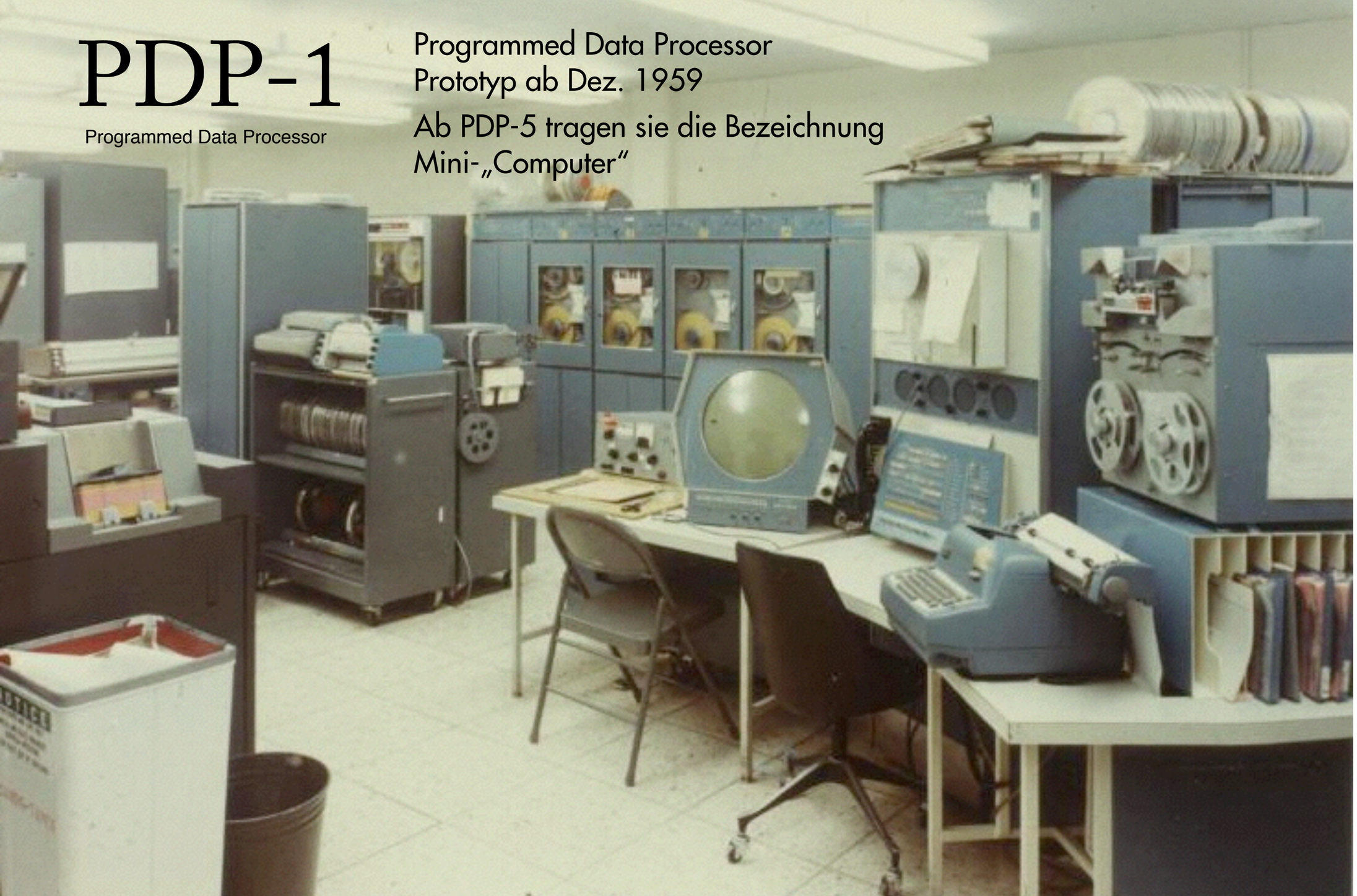


PDP-1

Programmed Data Processor

Programmed Data Processor
Prototyp ab Dez. 1959

Ab PDP-5 tragen sie die Bezeichnung
Mini-„Computer“



DEC, 1960

Timesharing

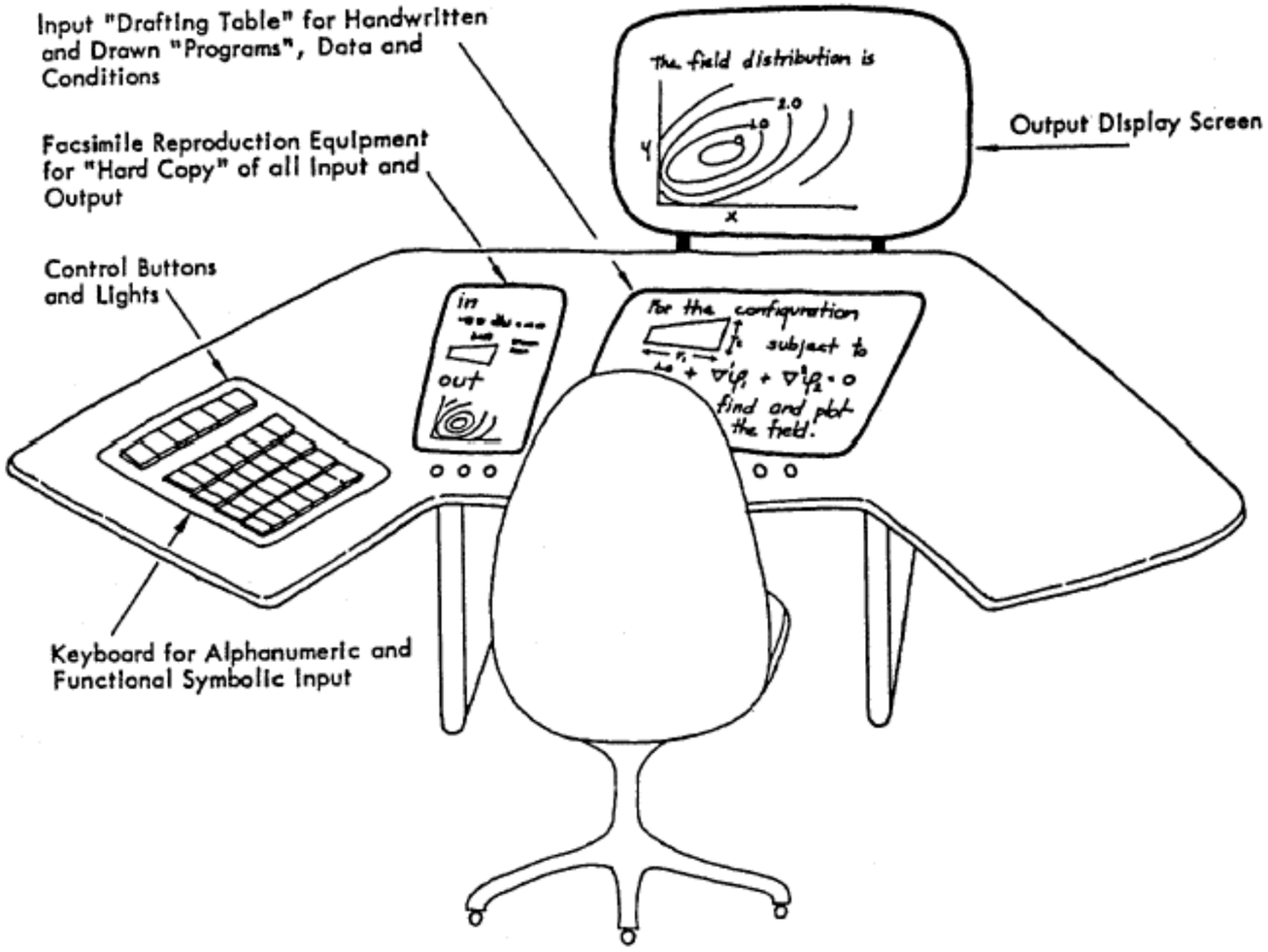


Abbildung 32. Herbert Teagers ambitionierter Entwurf eines Computerterminals von 1961. Teager leitete zu Beginn der sechziger Jahre eine der Time-Sharing-Forschungsgruppen am MIT, die aber bald zugunsten des pragmatischeren Project MAC aufgelöst wurde.

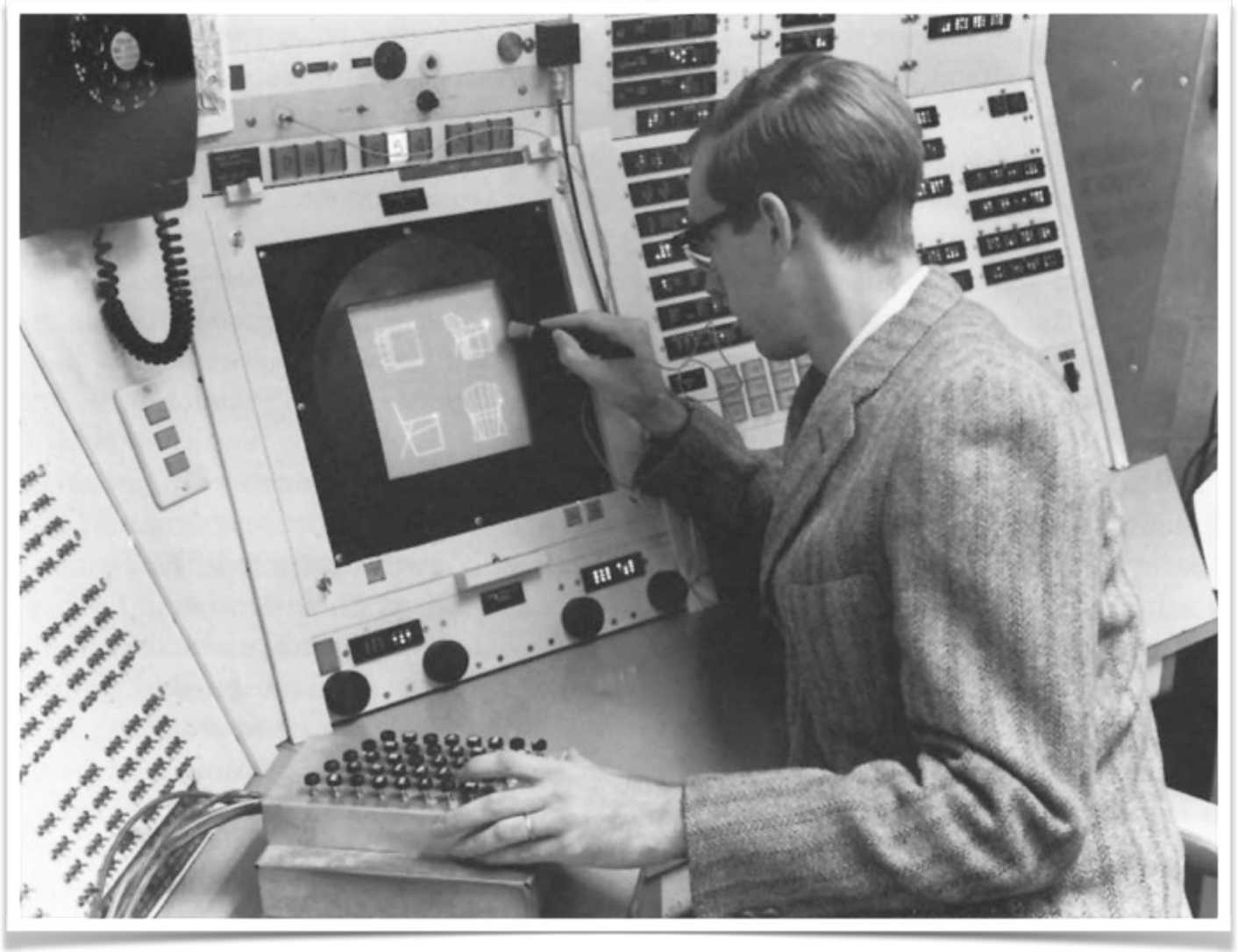
Bob Bemer,

John McCarthy,

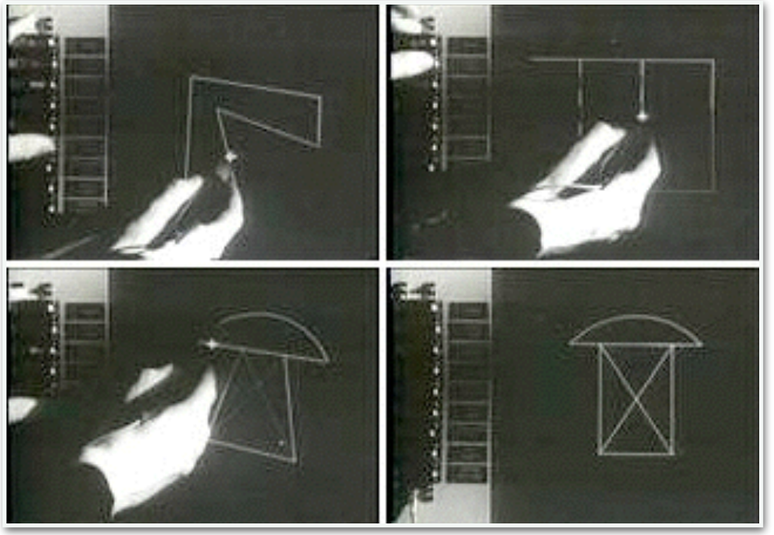
Überlegungen ab 1955

um 1961: Compatible Time Sharing System (CTSS) auf der IBM 7090 am MIT und auf der PDP-1 bei Bolt Beranek und Newman (BBN)

Sketchpad



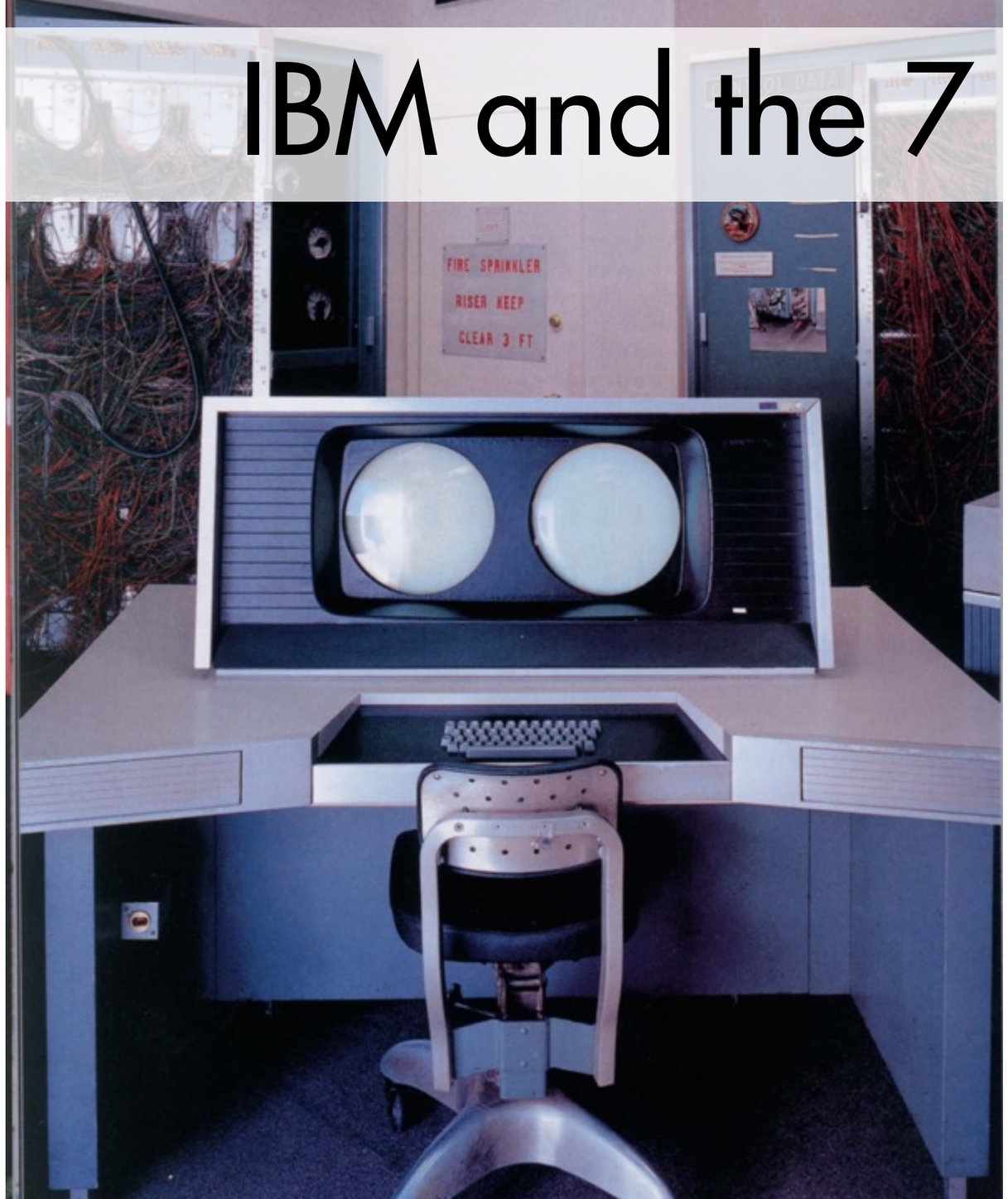
HCI, GUI, CAD, OOP auf dem TX-2 am MIT



Ivan Sutherland

1962

IBM and the 7 Dwarfs



CDC 6600, 1964

Burroughs

CDC

General Electrics

Honeywell

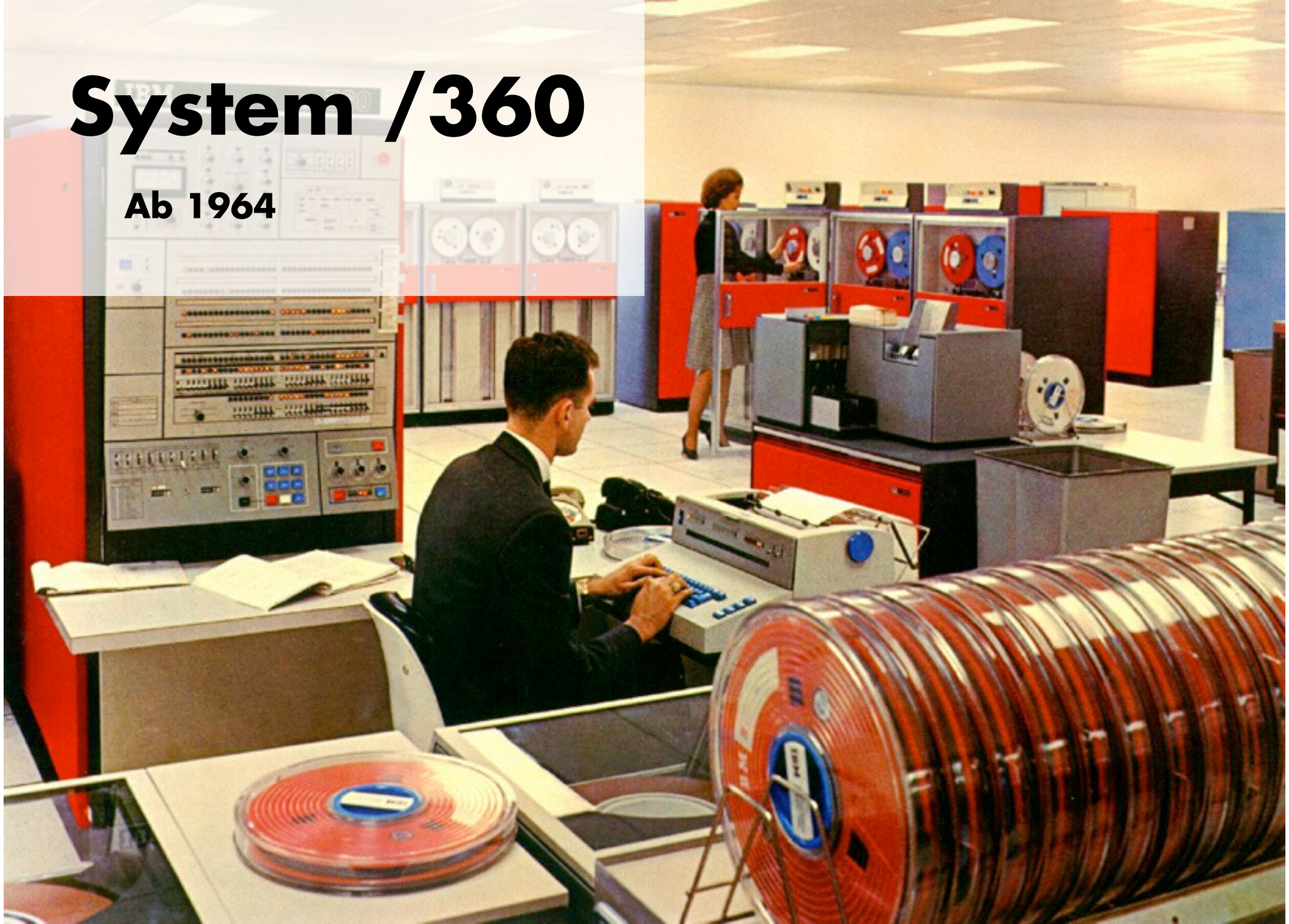
NCR

RCA

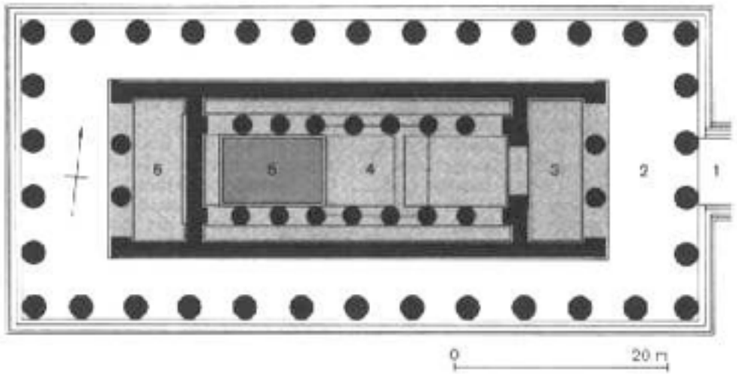
Univac/Remington Rand

System /360

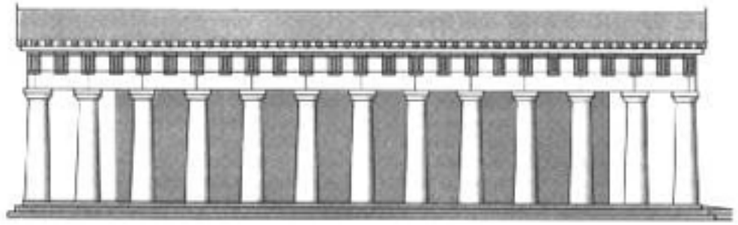
Ab 1964

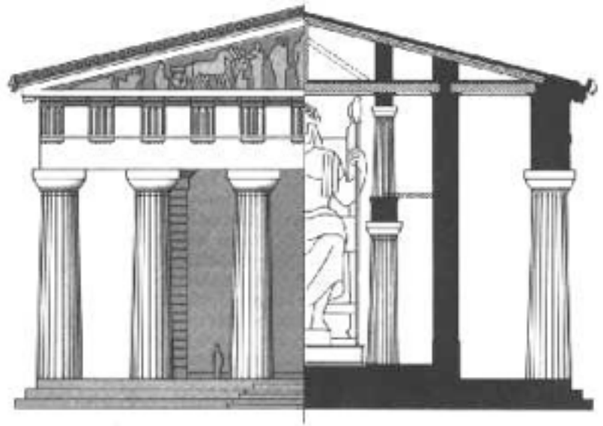


Kult- & Rechenzentren

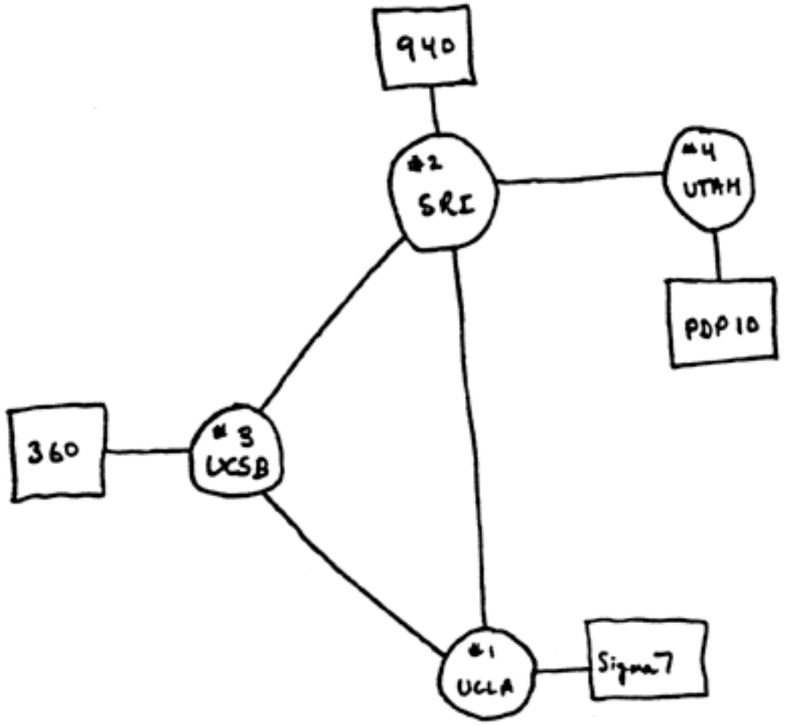


Griechische Tempelarchitektur





ARPANET
1969



Truett Thach, Bill Bartel, Dave Walden, Jim Geisman, Bob Kahn, Frank Heart,
Ben Barker, Marty Thrope, Will Crowther, Severo Ornstein

Visionen

Albert Robida:

Le XXe Siécle, Paris 1883

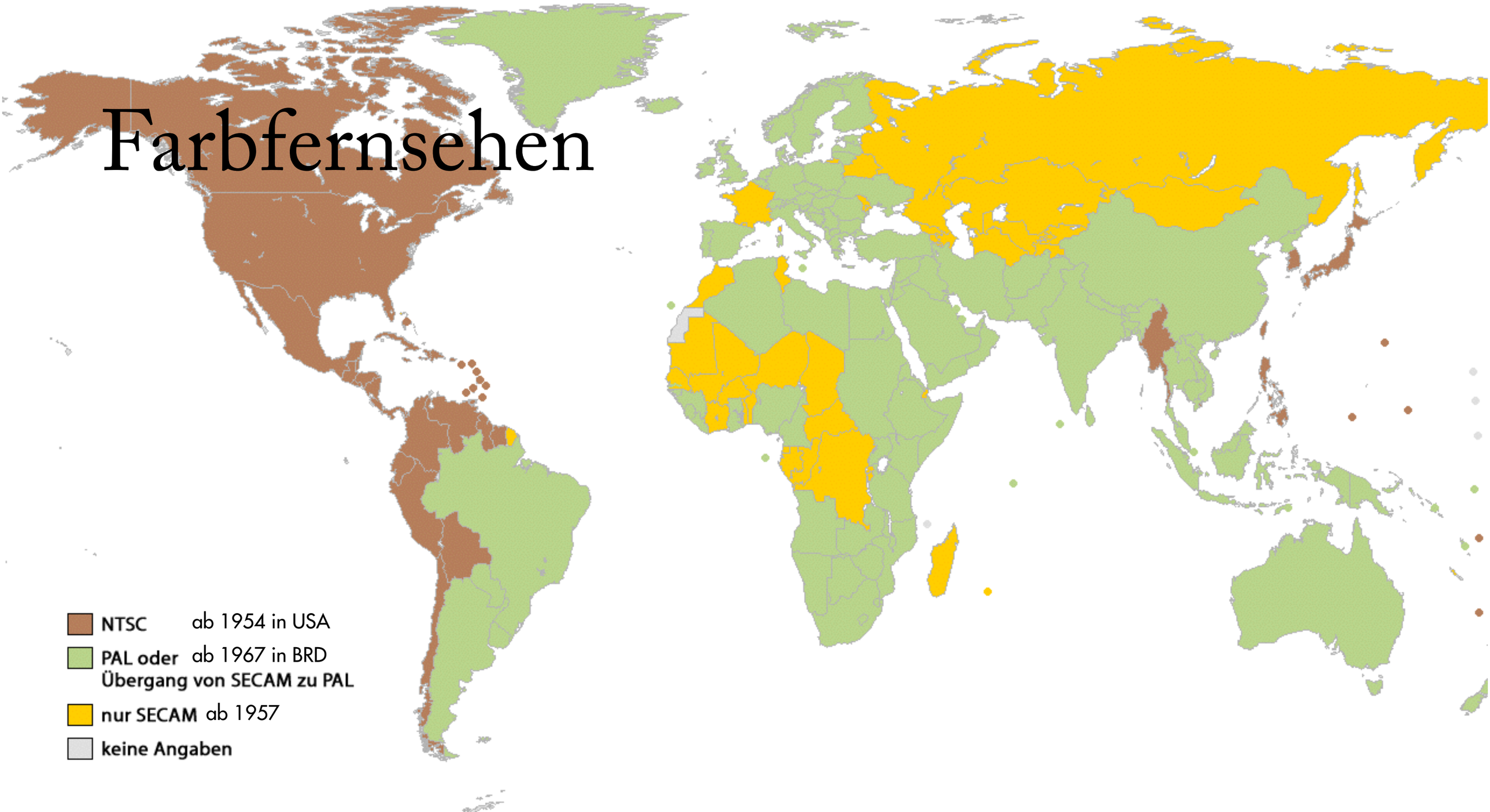
1969

http://www.youtube.com/watch?v=Y0pPfyYtiBc

E-Mail, @-Schreibweise

Ray Tomlinson, 1971

Farbfernsehen



Tonbandkassette

Philips, EL3300
ab 1963

Zeitgeschichtlicher Kontext

Vietnamkrieg, 1957-1975

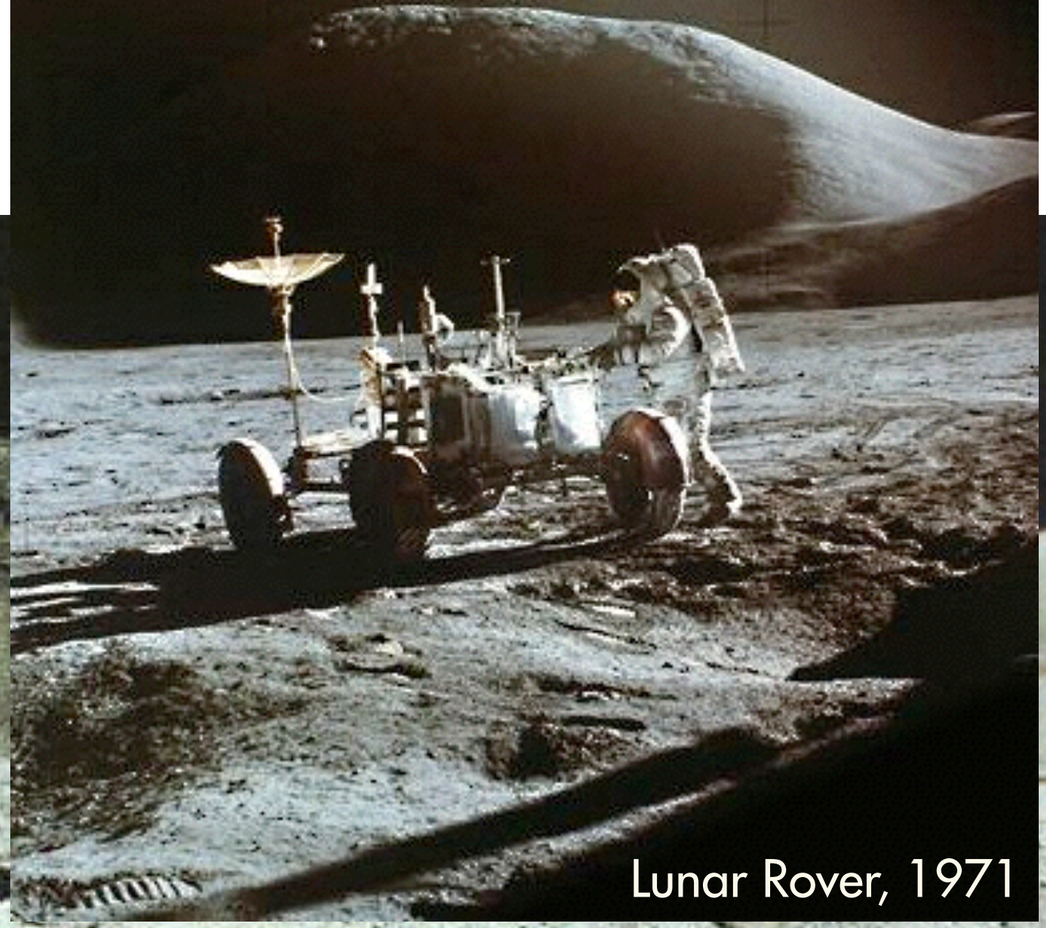
Kubakrise 1962

Summer of Love

1967-1969

Mondlandung

Apollo 11, 1969

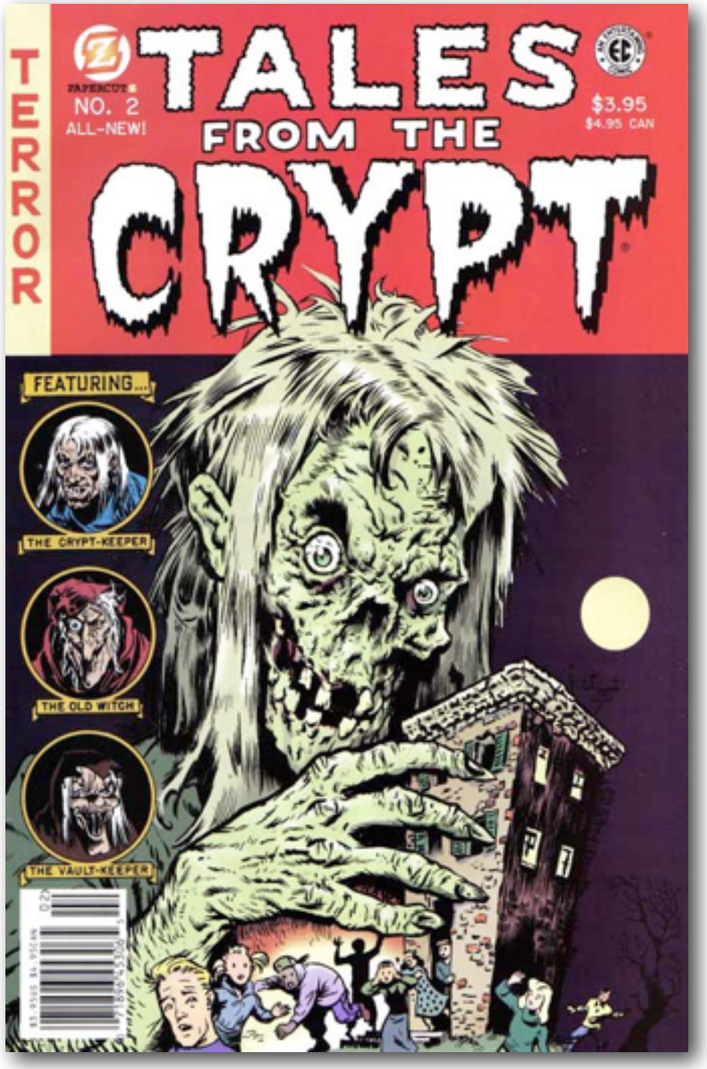


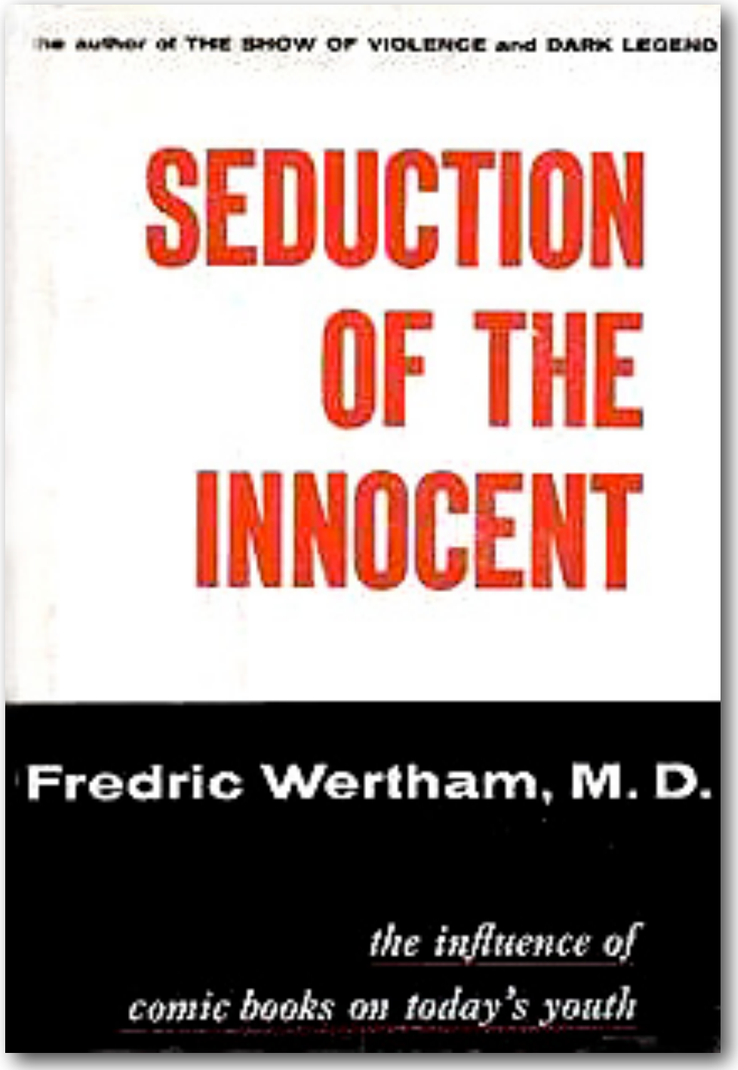
Lunar Rover, 1971

Kulturgeschichte

Amerika: Comic Code, ab 1954

http://www.seductionoftheinnocent.org





Marvel Super Heroes

ab 1961

ab 1962

ab 1962

ab 1963

Japan: Manga

Osamu Tezuka: Ribbon no Kishi, 1953-59

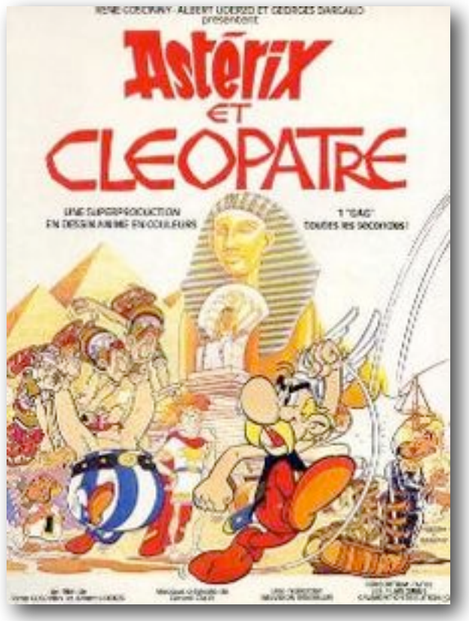
Shōnen Magazin, ab 1959

Tetsujin 28-gō, ab 1956, hier 1962

Trickfilm

1963 Wanpaku Ōji no Orochi Taiji
The Little Prince and the Eight
Headed Dragon

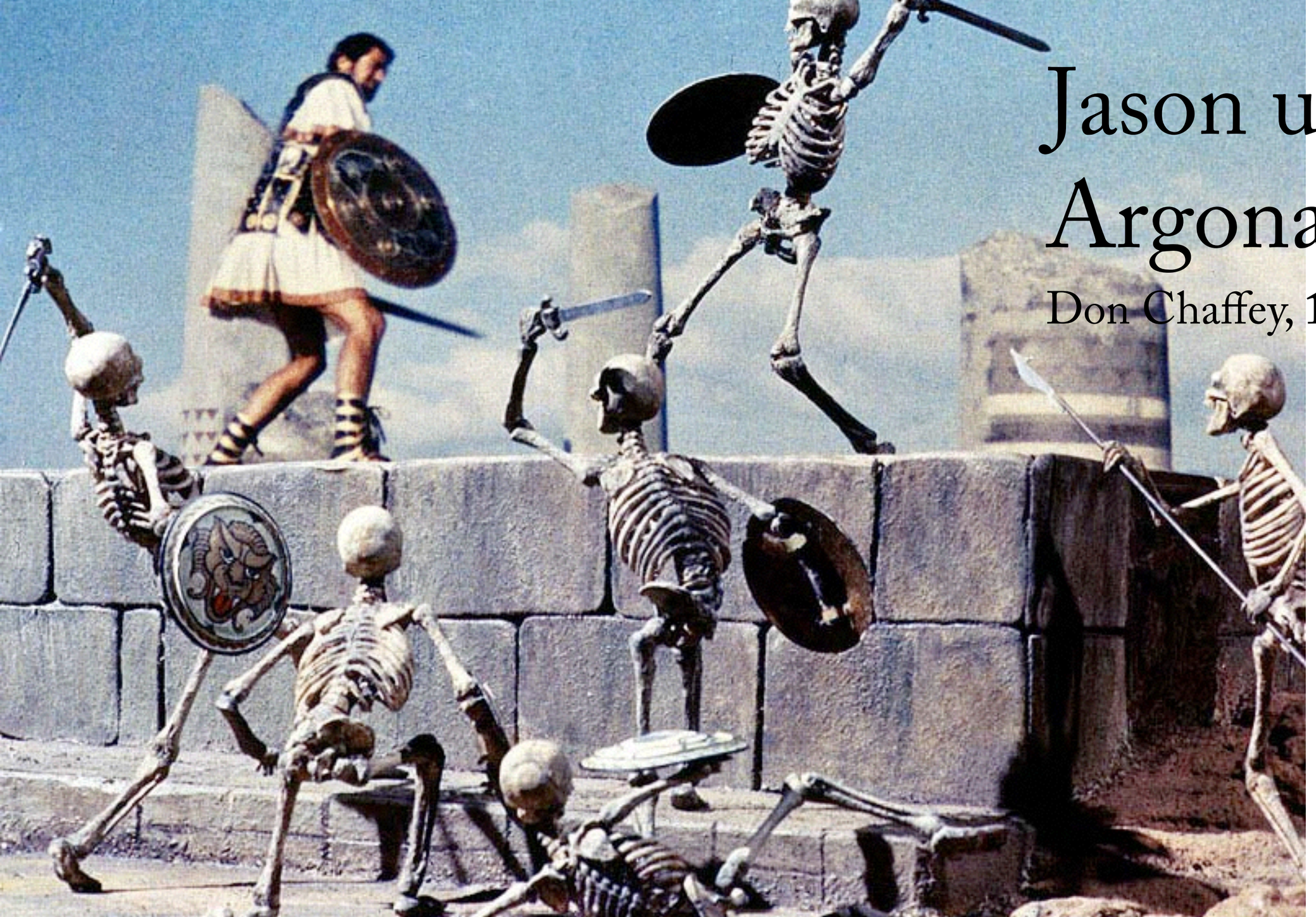
1963 The Sword in the Stone



1968 Asterix et Cléopatre

James Bond

Jagt Dr. No, 1962



Jason und die Argonauten

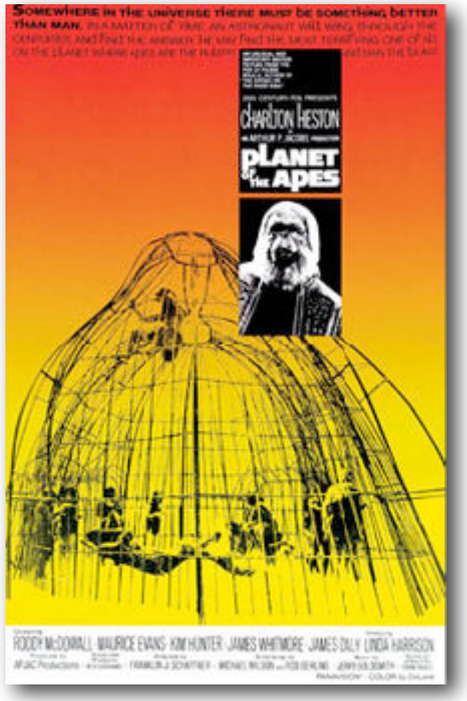
Don Chaffey, 1963

Science Fiction

Time Machine, 1960

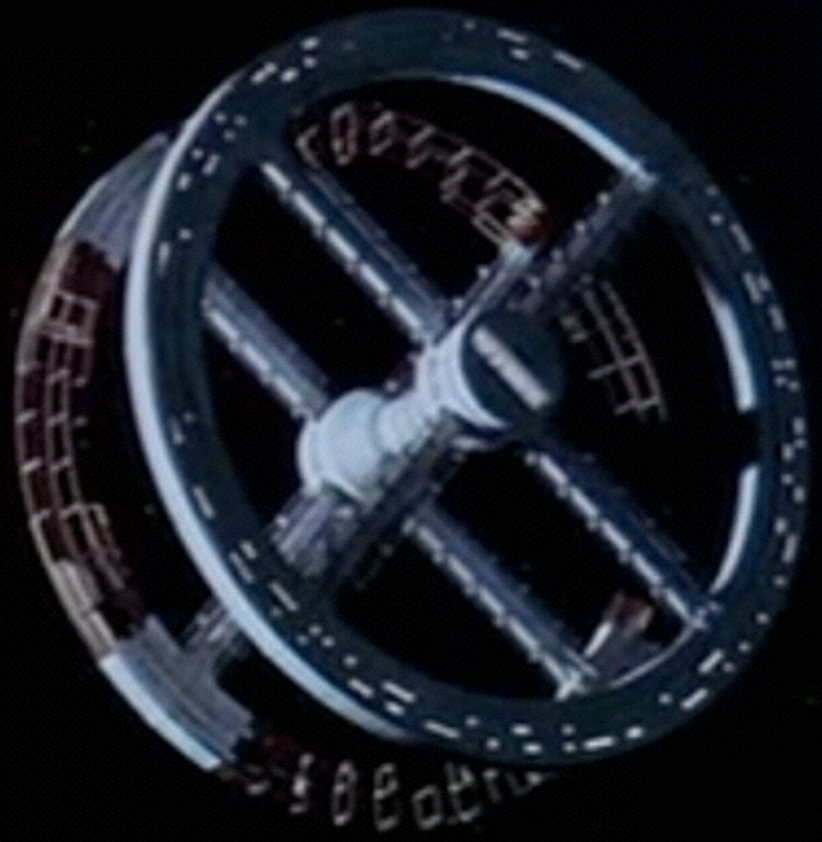
King Kong vs. Godzilla, 1962

Fahrenheit 451, 1966

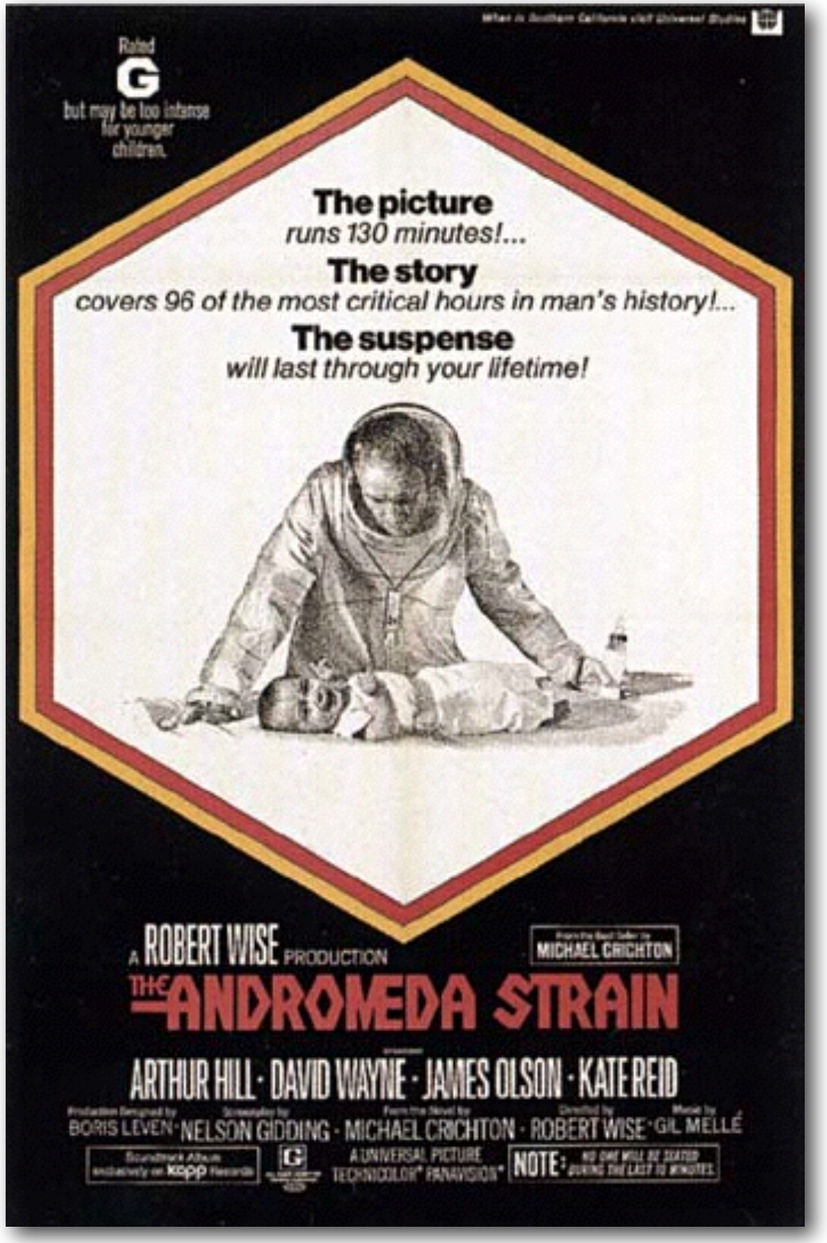


Planet of the Apes, 1968

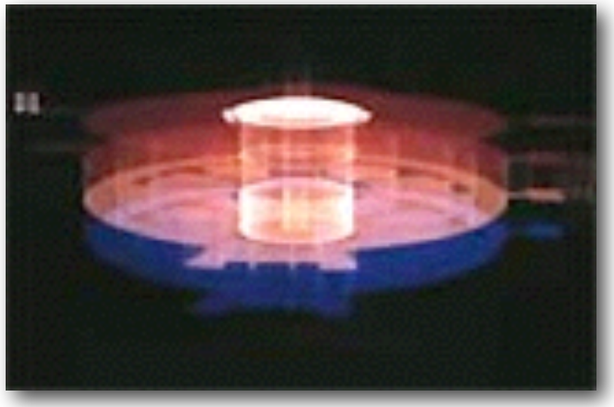
2001 – Space Odyssey



Stanley Kubrick, 1968



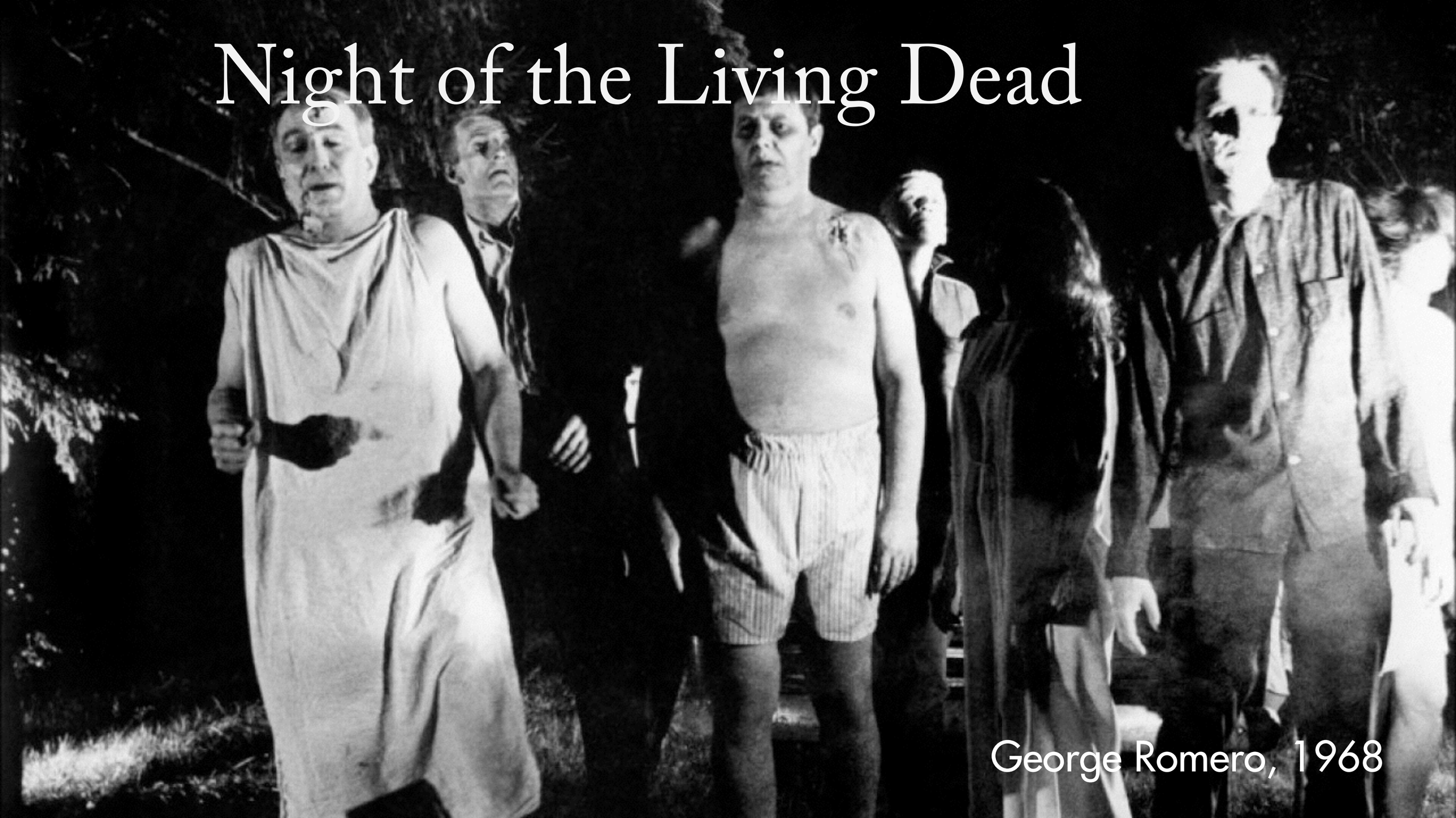
The Andromeda Strain



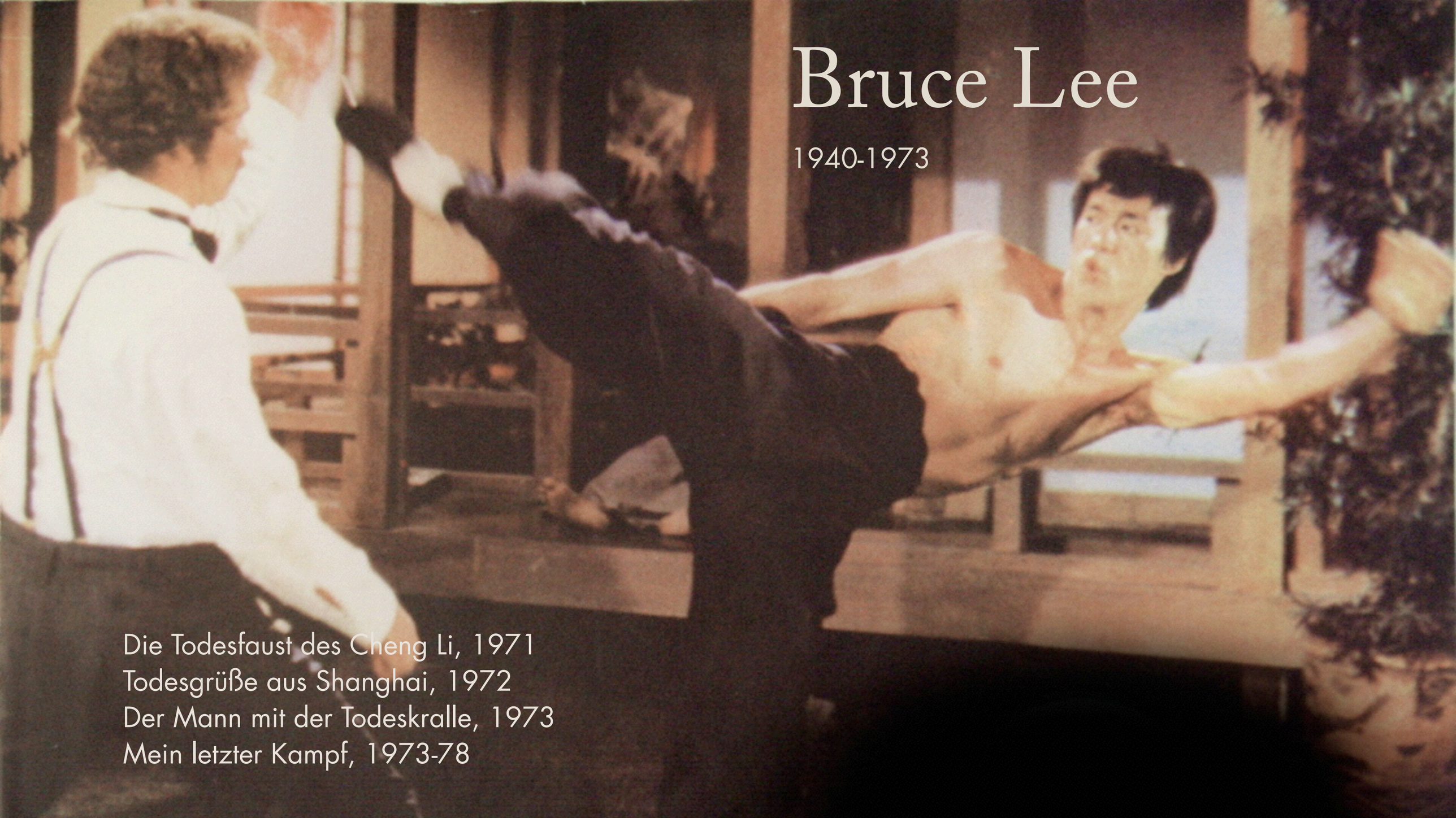
The Andromeda Strain (1971)

http://youtu.be/A6CSvuaWOFc?t=4m7s

Night of the Living Dead



George Romero, 1968



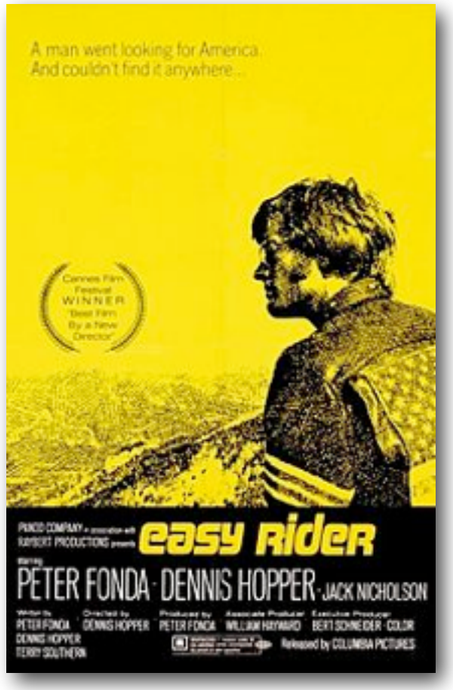
Bruce Lee

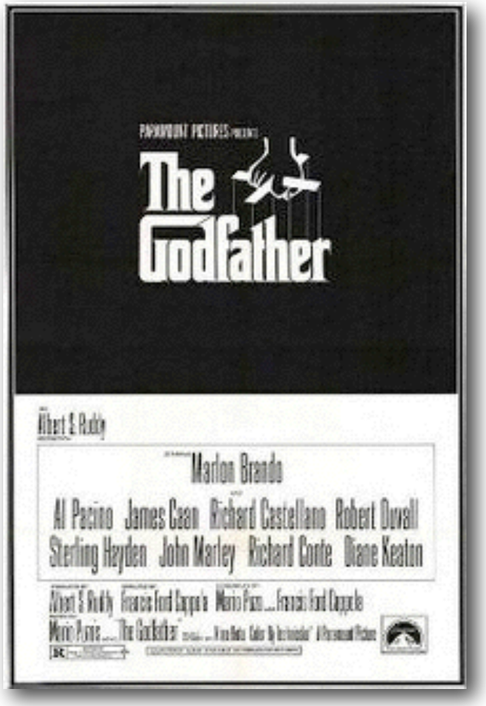
1940-1973

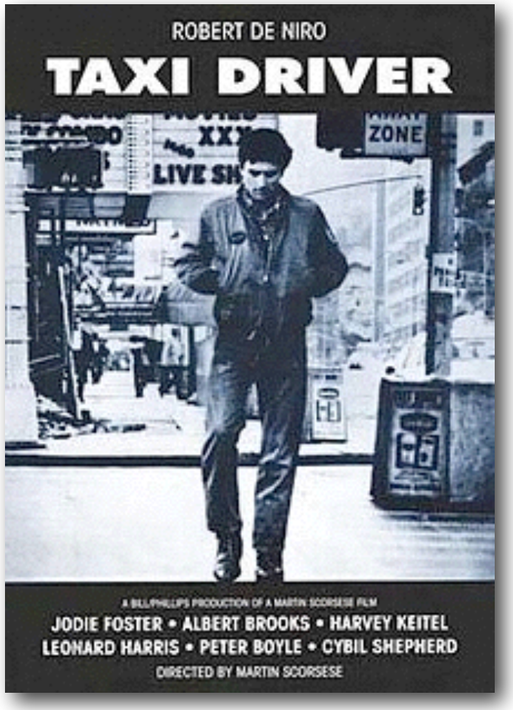
Die Todesfaust des Cheng Li, 1971
Todesgrüße aus Shanghai, 1972
Der Mann mit der Todeskralle, 1973
Mein letzter Kampf, 1973-78

New Hollywood

ab 1967







Spielgeschichte

Shooter

Spacewar!

Steve Russel, J. Martin Graetz
und Wayne Witanen
MIT, 1961-62.

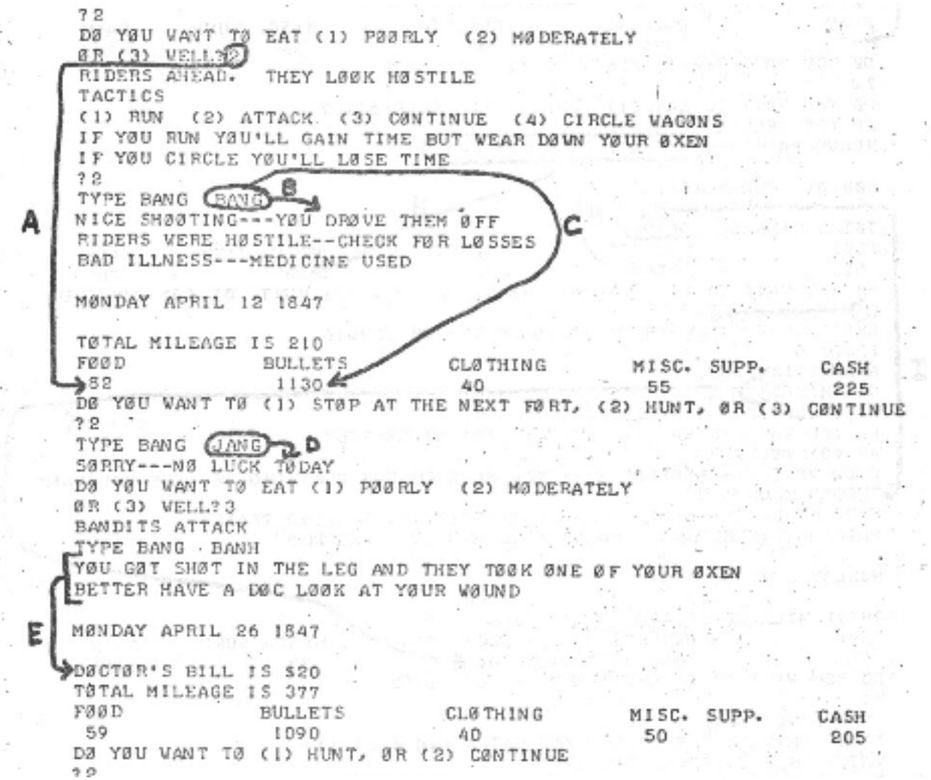
Galaxy Game 1971

Bill Pitts, Hugh Tuck

Computer Space

Nolan Bushnell, 1971

Lernspiele

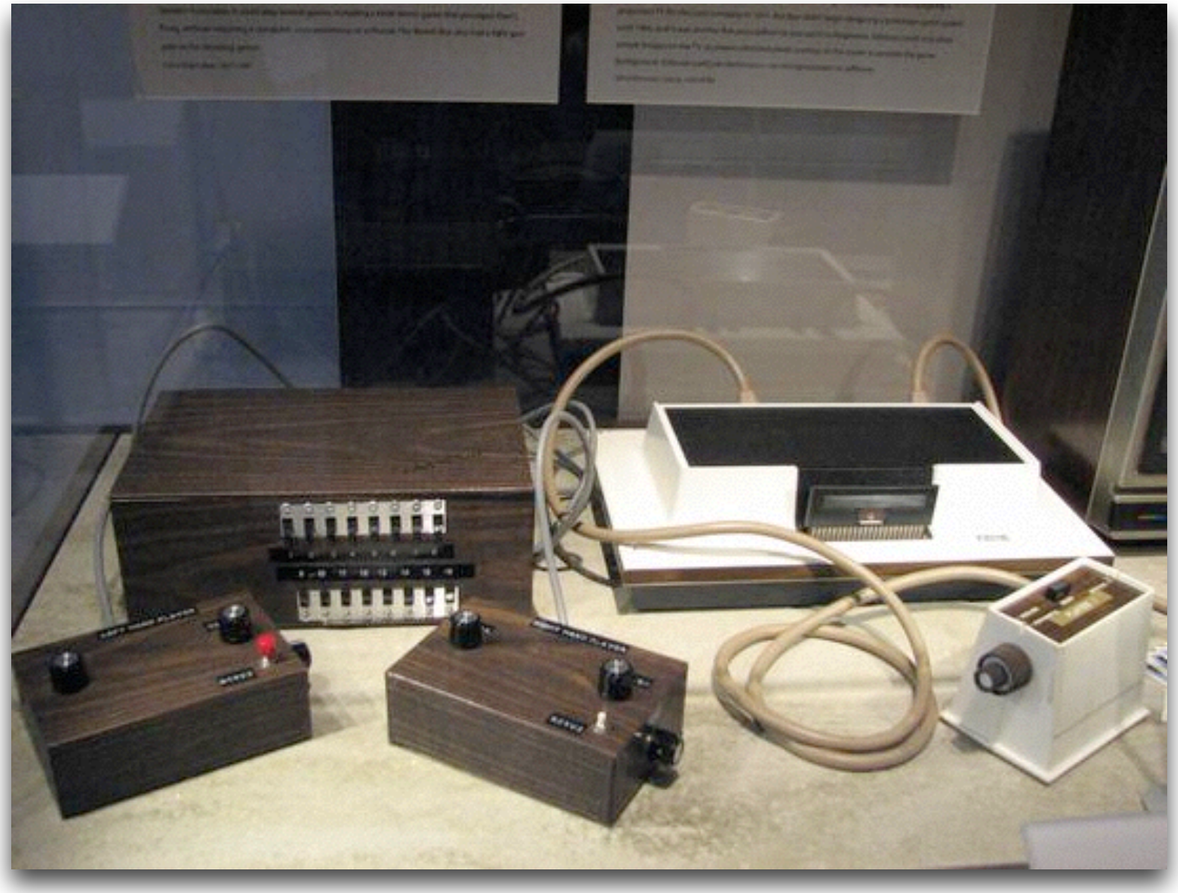


http://www.apolitical.info/webgame/westward/

The Oregon Trail

ab 1971

Konsole der 1. Generation
Magnavox Odyssey, 1972



Ralph Baer, 1972 (Prototyp 1967)

https://www.youtube.com/watch?v=0MnRkPvIjKE