

Simulationen

Cyrus Mobasheri

- “to simulate is to model a (source) system through a different system which maintains to somebody some of the behaviors of the original system”. The key term here is “behavior”. Simulation does not simply retain the – generally audiovisual– characteristics of the object but it also includes a model of its behaviors. This model reacts to certain stimuli (input data, pushing buttons, joystick movements), according to a set of conditions.

Reale Welt



Schemata



Simulation



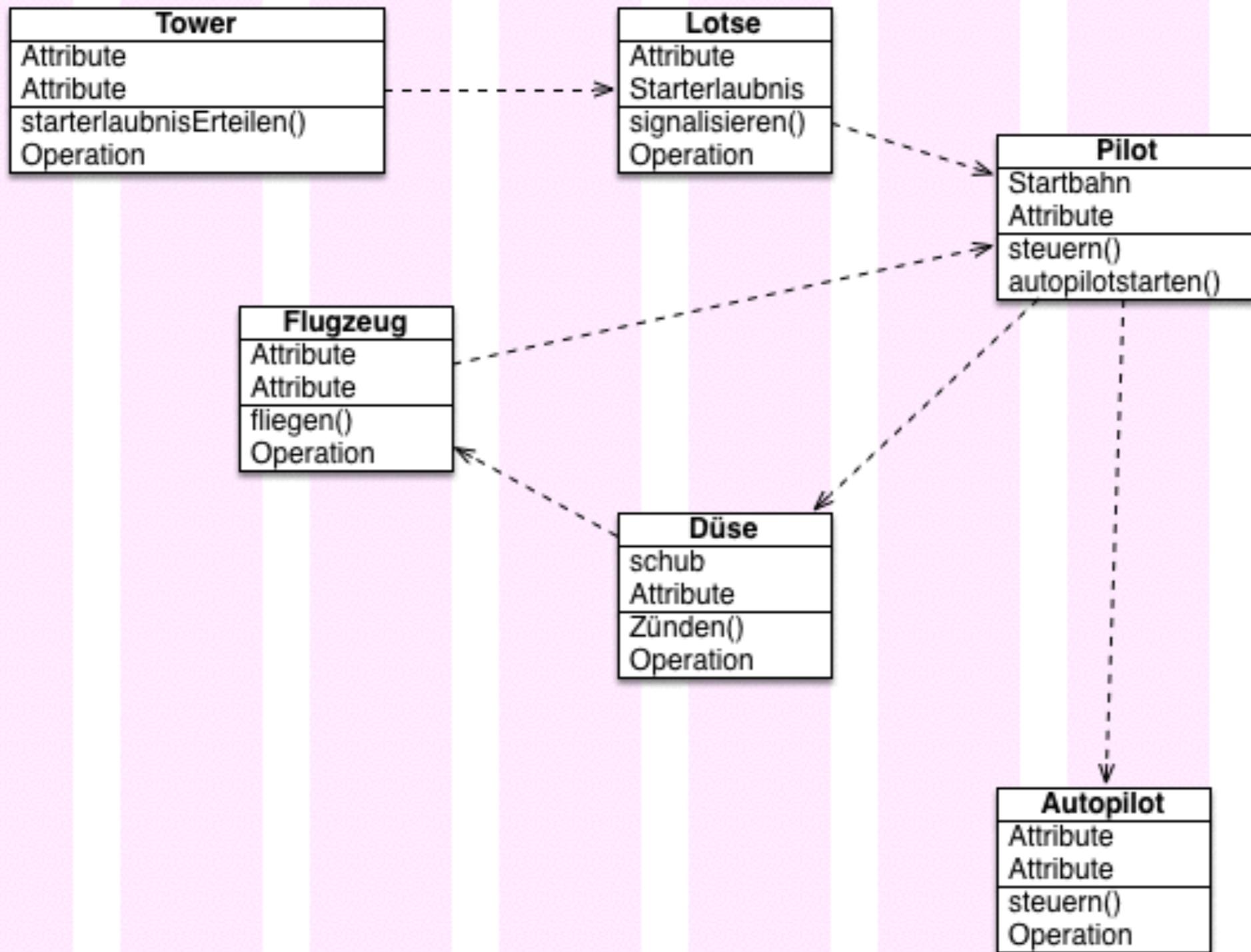
Transformation/
Abstraktion

Transfer

Simulationseinteilungen

- Computerbasiert vs. nicht computerbasiert
- Deterministisch vs. stochastisch
- Statisch vs. dynamisch





- Simulierendes System vs Simulator
- Modellierung vs Simulationsexperiment

Allianz Crash Research





FKFS

V8 51.5 km/h
Beta +0.0 Grad

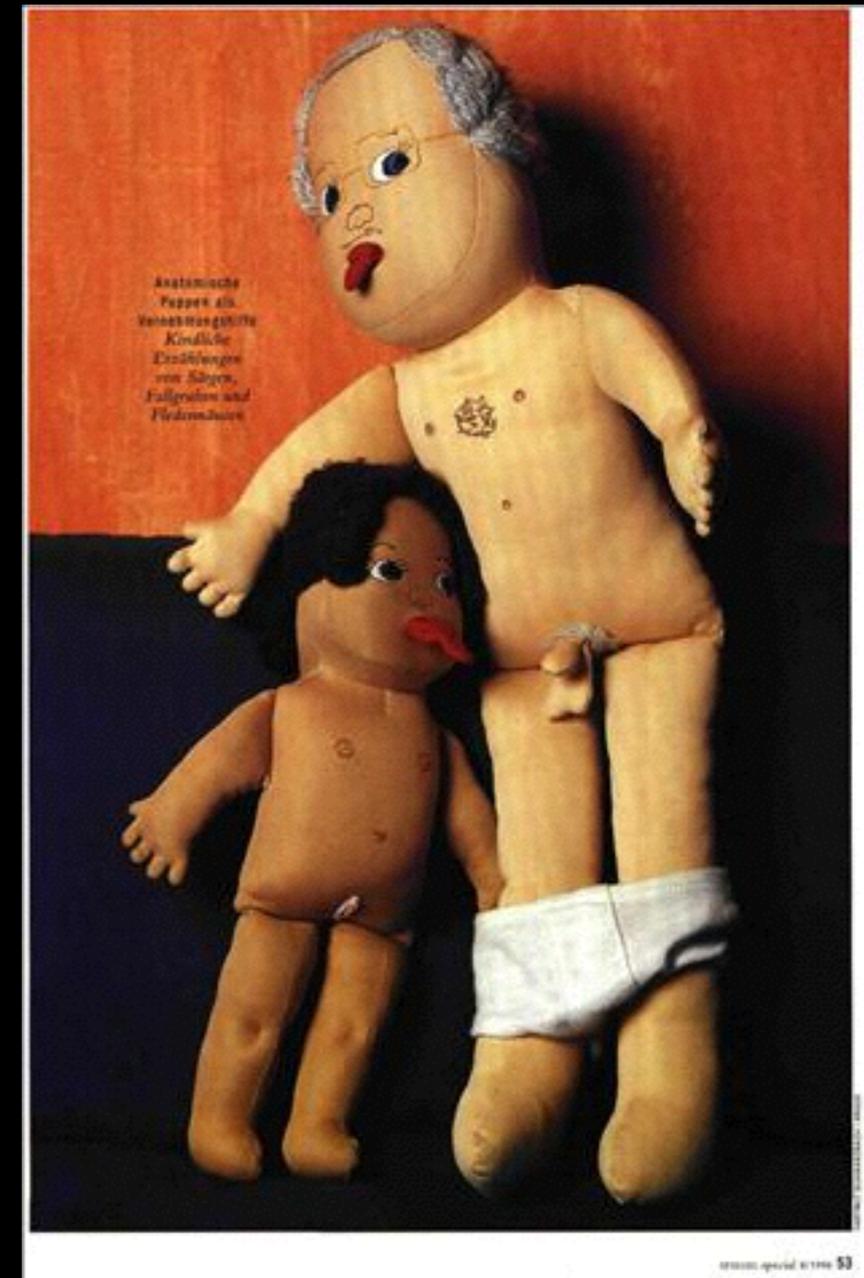
VOLCANTO

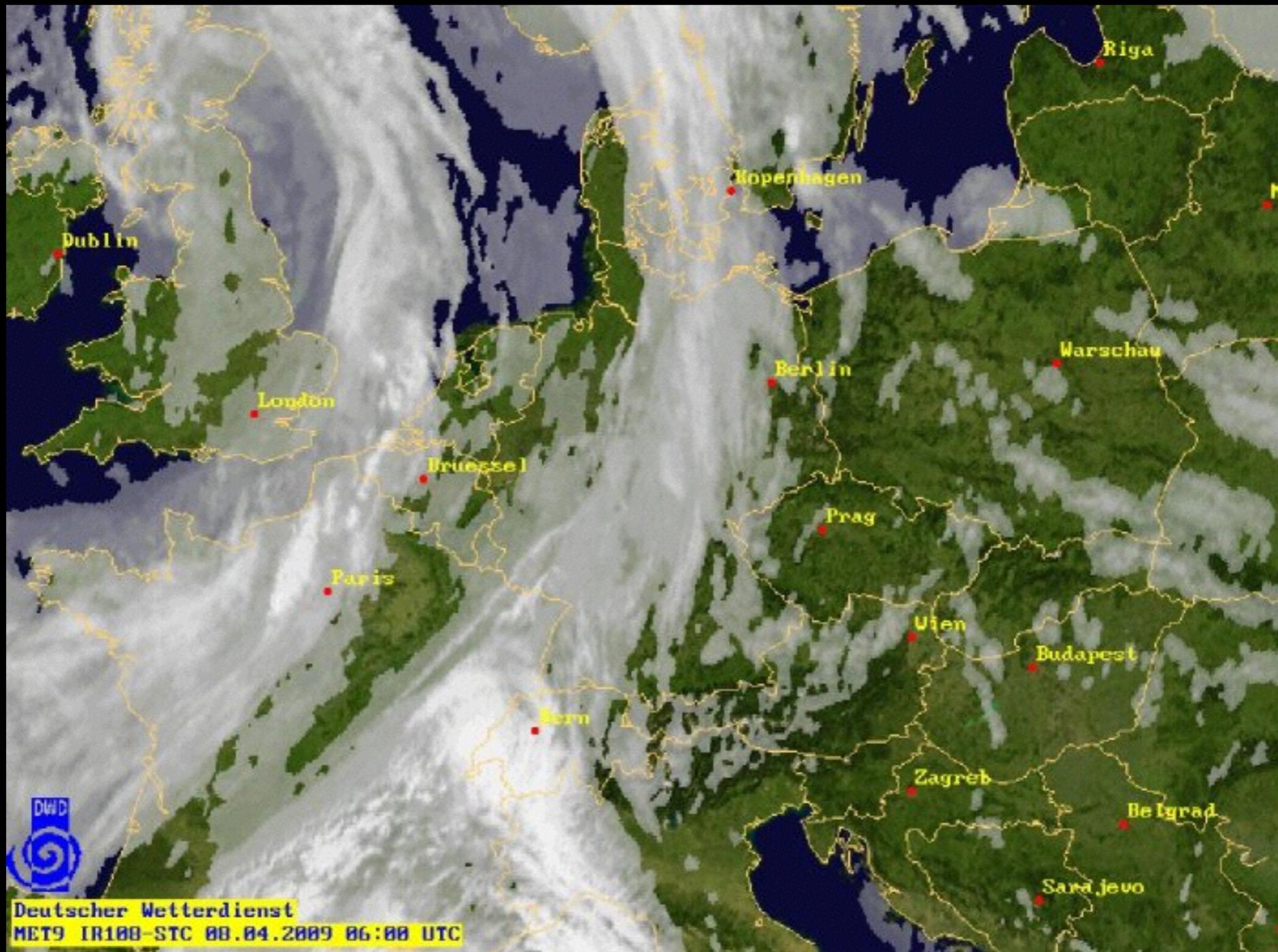


Puppenspiele

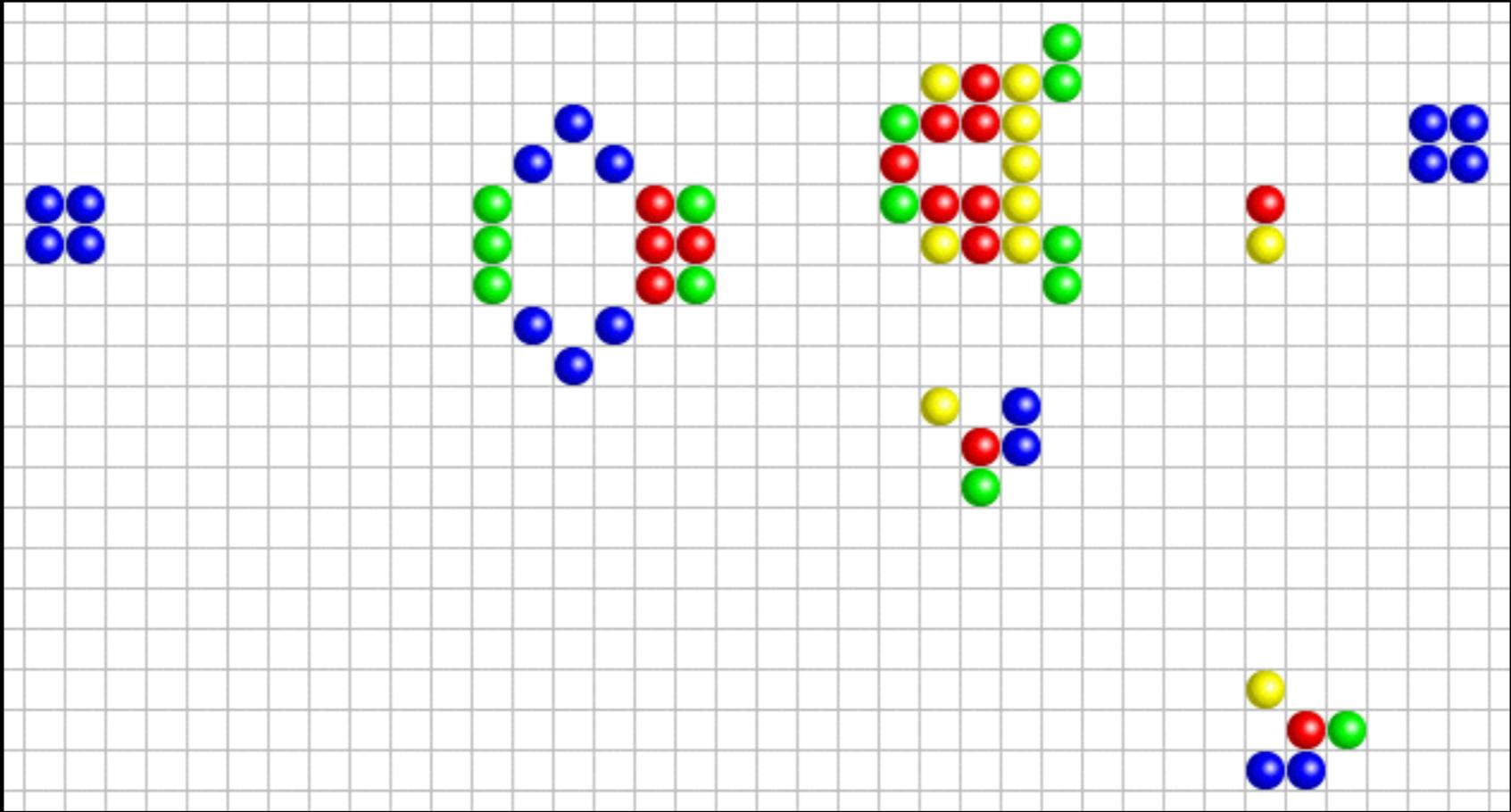


- Bei der Aufklärung von pädophilen Verbrechen werden Puppen eingesetzt um Kinder zu befragen, denen das Vokabular fehlt, die Verbrechen zu beschreiben.





Deutscher Wetterdienst
MET9 IR100-STC 00.04.2009 06:00 UTC







Game interface elements including icons for family, house, and camera, along with a clock showing PM 2:46 and a currency value of \$47,105.



Flight Simulator 1982-2012



apple II 1983



C64 1984

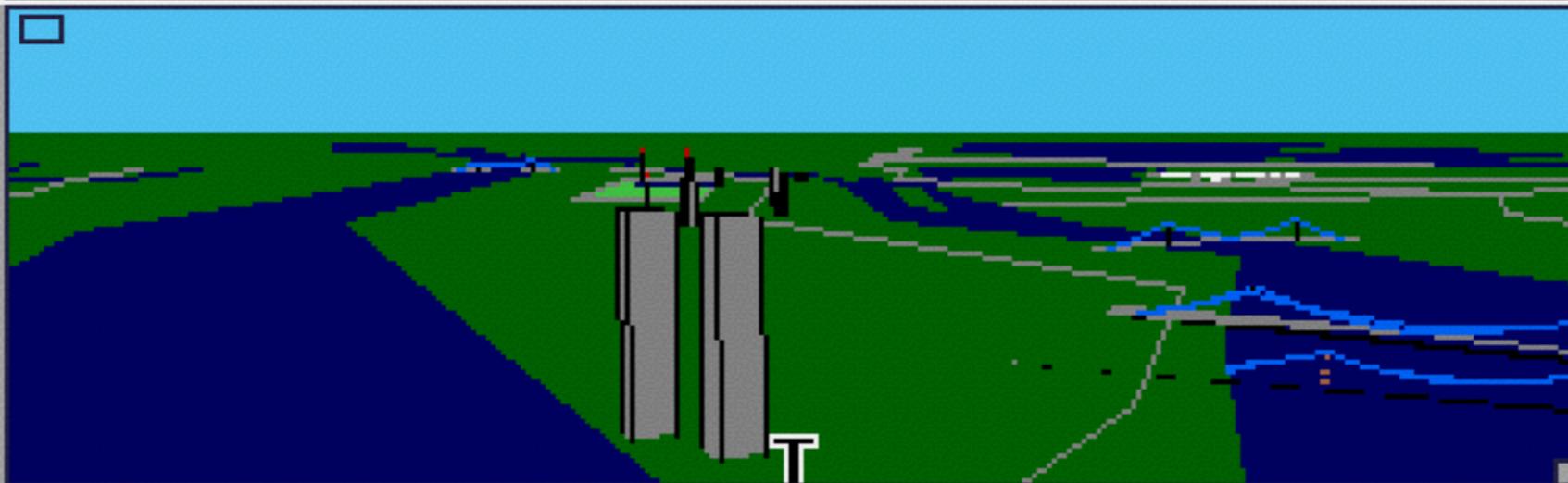


apple macintosh 1986



Amiga 1986

INFO FILE VIEW ENVIRO SIM NAV SITUATION



<p>200 40 180 60 160 KNOTS 80 140 100</p>	<p>OFF</p>	<p>9 0 8 1 7 2 6 3 5 4 4 5 3 6 2 7 1 8 0 9 000</p> <p>ALT</p>	<p>180 OFF 000</p>	<p>ET</p> <p>COMPASS 048</p> <p>FUEL E F E OIL T OIL P</p>
<p>120</p>	<p>10 5 0 DOWN 5 10 15 20</p>	<p>270 OFF 090</p>	<p>TH</p> <p>COM 123.40</p> <p>TIME 12:53:55</p> <p>XPNDR 1235</p>	
<p>051</p>	<p>231</p>	<p>NAV 1 114.15</p> <p>DME -</p> <p>NAV 2 114.25</p> <p>ADF 268</p>	<p>ZOOM 1.10</p> <p>MOUSE</p> <p>Yoke</p> <p>LIGHTS OFF</p>	
<p>CARB HEAT OFF</p>	<p>GEAR U</p>	<p>FLAPS</p>	<p>MAGS 1 2 BOTH</p>	



Microsoft 1986



Microsoft 1993



Microsoft 1995



Microsoft Windows 1996



Microsoft Windows 1997



Microsoft Windows 1999



Microsoft Windows 2001



Microsoft Windows 2003



Microsoft Windows 2006

Comanche Maximum Overkill 1992







178



4'662'666



50%



12

18:14





Sid Meier's
RAILROAD TYCOON™

Empire Building
in the
Golden Age
of Railroads.

IBM PC/XT/AT/PS2, Tandy 1000 & Most Compatibles
512K (640K with VGA) Required
Supports most CGA, EGA,
VGA/MCGA (256 color), and Tandy 1000 cards
Color Monitor Required, Mouse recommended
IBM is a registered trademark of International Business Machines, Inc.

MICRO PROSE™
SIMULATION • SOFTWARE

The cover art for Sid Meier's Railroad Tycoon features a man in a dark suit and white shirt, wearing glasses and holding a cigar. He is standing next to a steam locomotive. The background is a blue sky with clouds. The title "Sid Meier's RAILROAD TYCOON™" is prominently displayed at the top. Below the title is a framed image of the man and the train. To the right of the man is the text "Empire Building in the Golden Age of Railroads." At the bottom left, there is a list of system requirements. At the bottom right, the MicroProse logo is displayed.

PC CD-ROM

Windows® XP / Vista / 7

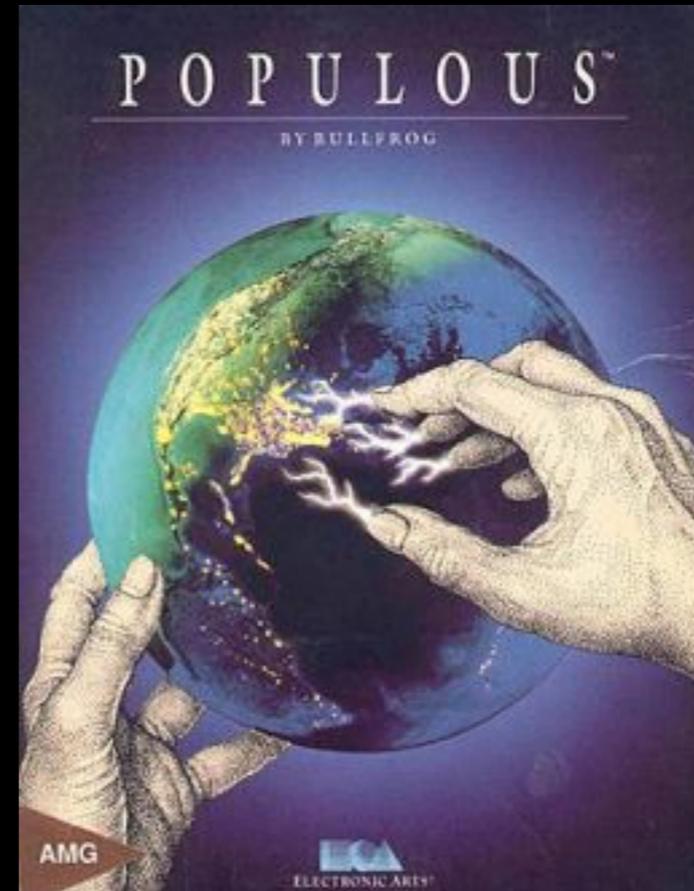
Modelleisenbahn Simulator



Planen, Bauen & Fahren



Göttersimulation



PC CD-ROM



BLACK & WHITE

95%
"Pure Genius"
Classic Award
PC Zone

Find out who you really are











REF REF REF REF
KICKFIELD'S MILL SOOLA LUDUM PILS
REF REF REF REF
ROUGHSTERO CAMP TEARDROP COLLEGE
REF REF REF REF
SWERTHAM HOTEL ROYAL OAK HOTEL
REF REF REF REF
CROWN FITNESS CENTRE RITZ HOTEL
REF REF REF REF
Crown Fitness Centre, £ 100000 /week
MAIN MENU

GRIMSBY TOWN LEYTON ORIENT
Spectators (RWBV)
Yellow cards..... 0
Red cards..... 0
Injured..... 0
Players..... 11
Chances..... 0
GOAL!
7th min

FOOTBALL
SA. 1 JUL 1995
PAGE 1
01.07.1995
compi's pa.
This game was created by Werner Krahe and Jens Onnen.
01.07.1995
Werner's pa.
You sold 8,900 season tickets.
£ 1,335,000 go into the club's coffers.
Takes Post
LEAGUE 4
New Player Bal
Bank Train
Advertise Star
GCH
Save
Settings
Kick-Off

FOOTBALL
WINCHESTER UNITED
Block A
Block B
Block C
Block D
Block E
Block F
Block G
Block H
2:3
OLD TRAFFORD - 26,000 SEATS

FOOTBALL
TEAM INFO
No. Name Pos. L. Rank W. R. V. T. P. S. M. A. P. B. Y. C. R.
1 A. CHAMBERLAIN GOA 50, 56, 51 (53)
2 K. HALL DEF 57, 56, 61 (57)
3 G. BENNETT DEF 54, 56, 56 (55)
4 T. BUTCHER DEF 54, 56, 44 (54)
5 I. RODGERSON MID 59, 56, 51 (57)
6 G. OWERS MID 55, 57, 57 (56)
7 B. ATHINSON MID 50, 55, 60 (53)
8 D. FERGUSON MID 53, 54, 54 (53)
9 M. ANGEL ATT 58, 53, 40 (57)
10 P. DAVENPORT ATT 52, 55, 64 (54)
11 C. RUSSELL ATT 59, 49, 48 (54)
12 T. NORMAN GOA 53, 50, 41 (50)
13 S. CUNNINGTON DEF 50, 53, 43 (50)
14 A. HARDING MID 56, 51, 42 (52)
15 G. ARMSTRONG MID 54, 52, 46 (52)
16 S. BRODIE ATT 50, 52, 59 (51)
17 P. GRAY ATT 49, 51, 44 (49)
M. GRAVE MID 49, 56, 47 (51)
R. ORD DEF 49, 50, 56 (49)
M. GRAY DEF 50, 52, 41 (50)
DATA-B STATISTICS



FRAMES
0

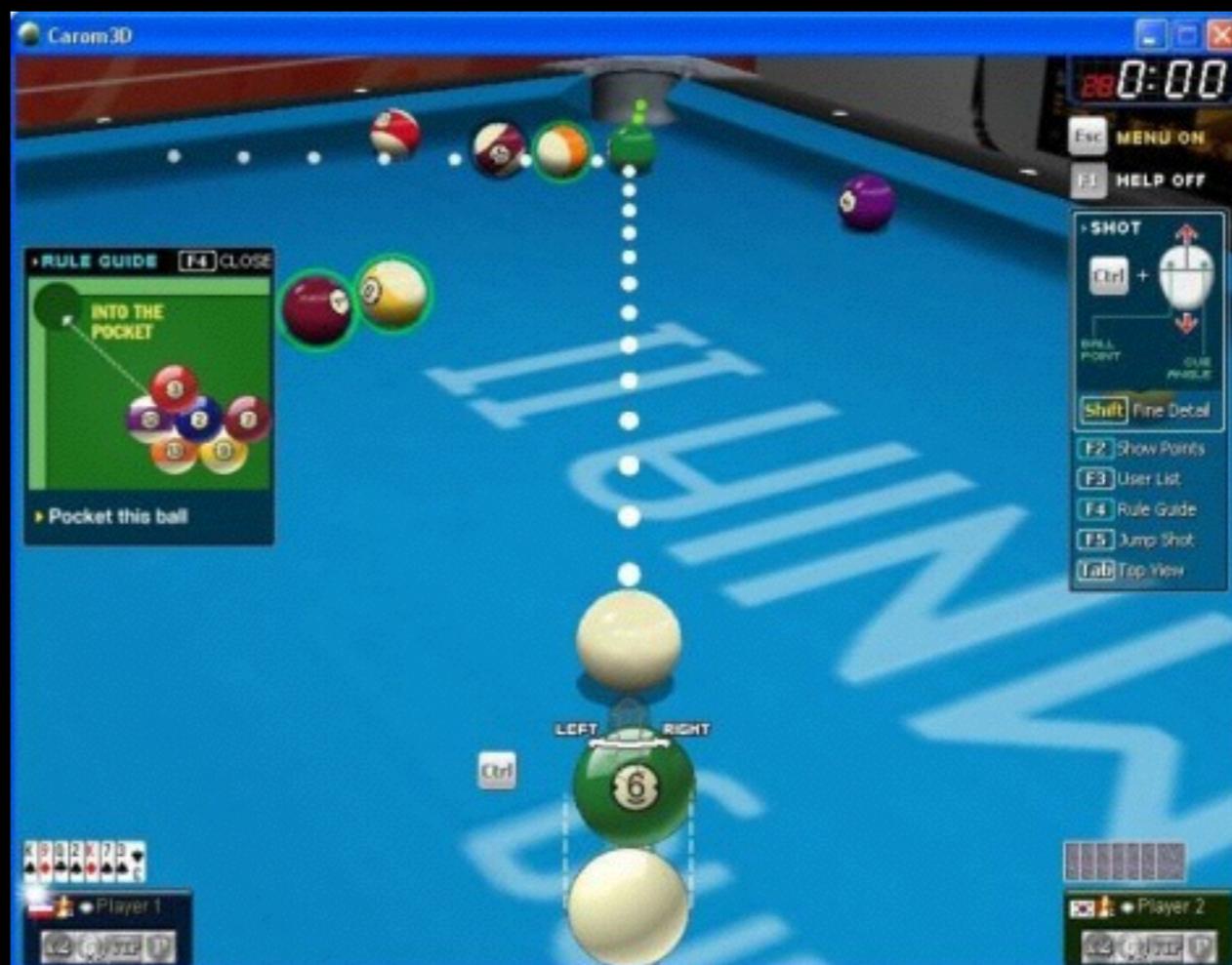
BALLS
4

SHOTS
●●●●

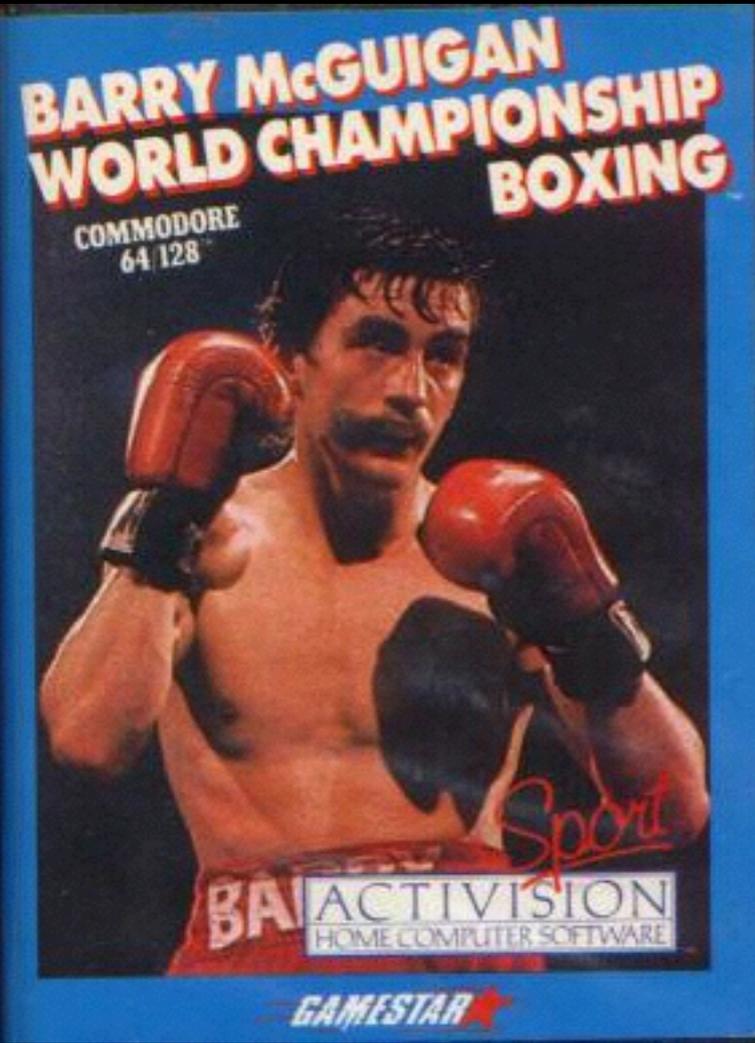
HI-SCORE
0

SHOTS

SCORE







PLAYER 1

ROCKFORD BALBOA

IMAGE: LOUDMOUTH
 ATTITUDE: CONVINCED
 STAMINA: MIGHTY
 AGILITY: LIGHTNING
 STRENGTH: AWESOME
 ENDURANCE: MASSIVE
 BEST PUNCH: CROSS
 RECOVERY: SLOW

BOXING STYLE	RECORD			
BOXER	WINS	DRAW	KO'S	LOST
	17	00	17	06

RANKING

00

EARNINGS

57818000

CONTINUE

END
052

ROCKY BALBOA
SHAMROCK O'LEARY

END
049

COUNT
0

ROUND:
01

TIME:
2:56

TRAINING CAMP
ROCKY BALBOA

SCHEDULED ROUNDS: 12 WEEKS TO TRAIN: 10

CATEGORIES:

LIGHT BAG
 HEAVY BAG

ROADWORK
 WEIGHTS
 SPARRING TIME

ALLOCATED TRAINING TIME:

⚡ LIGHT BAG	0	⚡
HEAVY BAG	0	
SPAR TIME	0	
WEIGHTS	0	
ROADWORK	0	

CONTINUE





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www.mastersgames.com

Kriegselefant



- Erst Läufer,
- dann Turm



Turm



Erst Streitwagen
dann Elefant
in Russland
Kriegsschiff



Reiter = Kavallerie



- Kann



Dame



- War bis vor kurzem der General
- Der General hatte die besten Truppen direkt kommandiert

König



- Die Gesundheit des Königs war elementar für die Truppenmoral.
- Seine Funktion war eher symbolisch.
- Deswegen endet das Spiel, wenn der König besiegt ist.

Verbildlichung

Regel-
objekt

Assetmapping



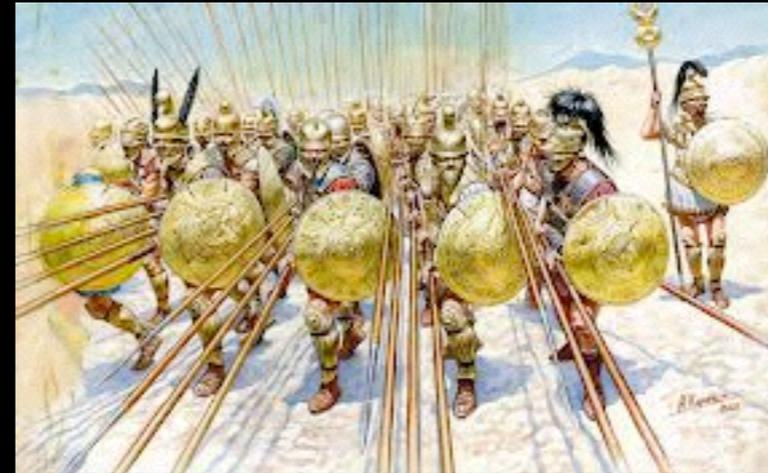
Spielmaterial

Metapho-
risierung

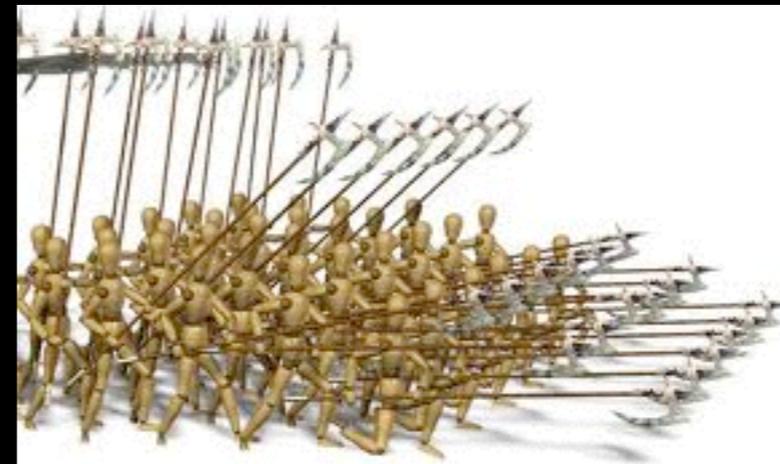


Bauer

Bauernaufstellung



Wie Bauern sich decken





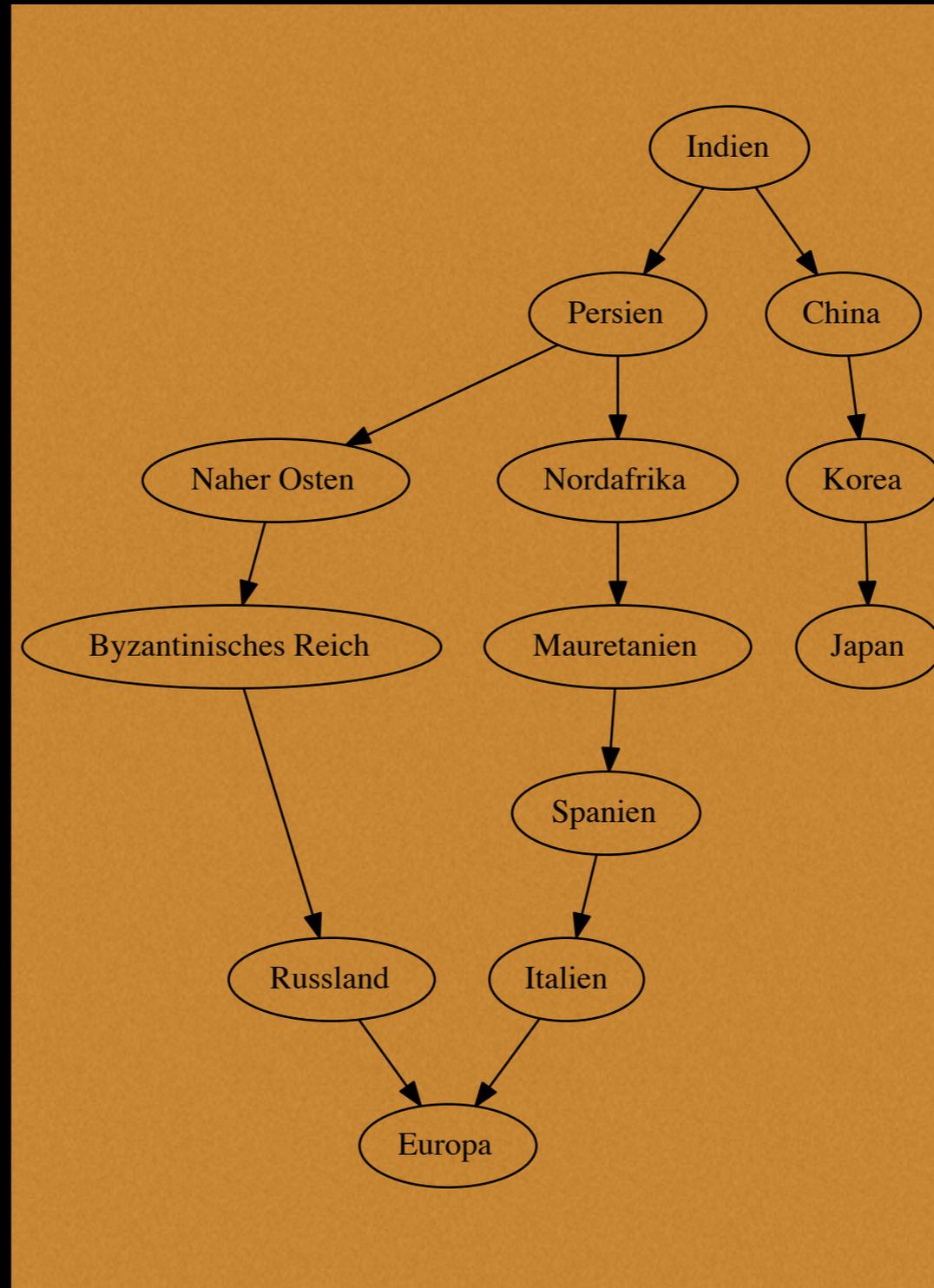
Bauern können nicht zurückziehen



Bauern können am Anfang 2 Felder ziehen



Verbreitung von Schach



Zhongguo Xiangqi (China)

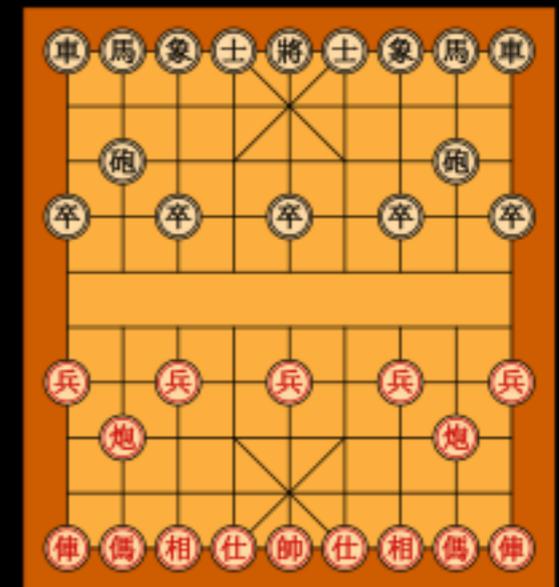
- Mit Einführung der Kanone gab es auch in China eine Schachvariante mit einer Figur, die Kanonen repräsentierte.  
- Der Fluss

Janggi (Korea)

Janggi



Xiangqi



- ähnlich wie Xiangqi
- aber ohne Fluss
- leicht andere Startpositionen

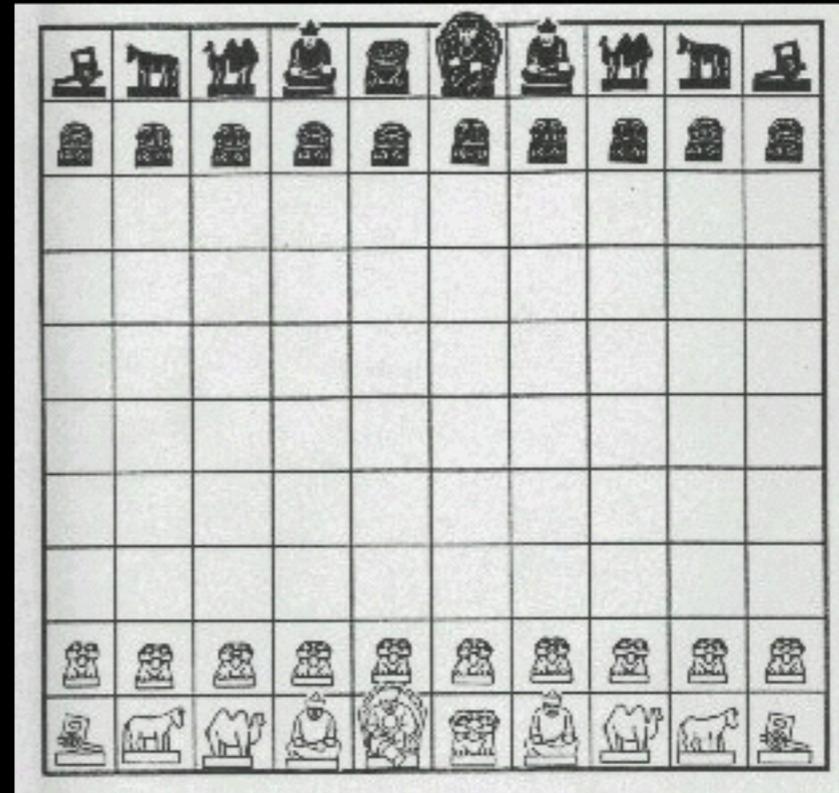
Shogi (Japan)

- Lanzenreiter
- Goldener General
- Silberner General
- Geschlagene Figuren können vom Gegner eingesetzt werden



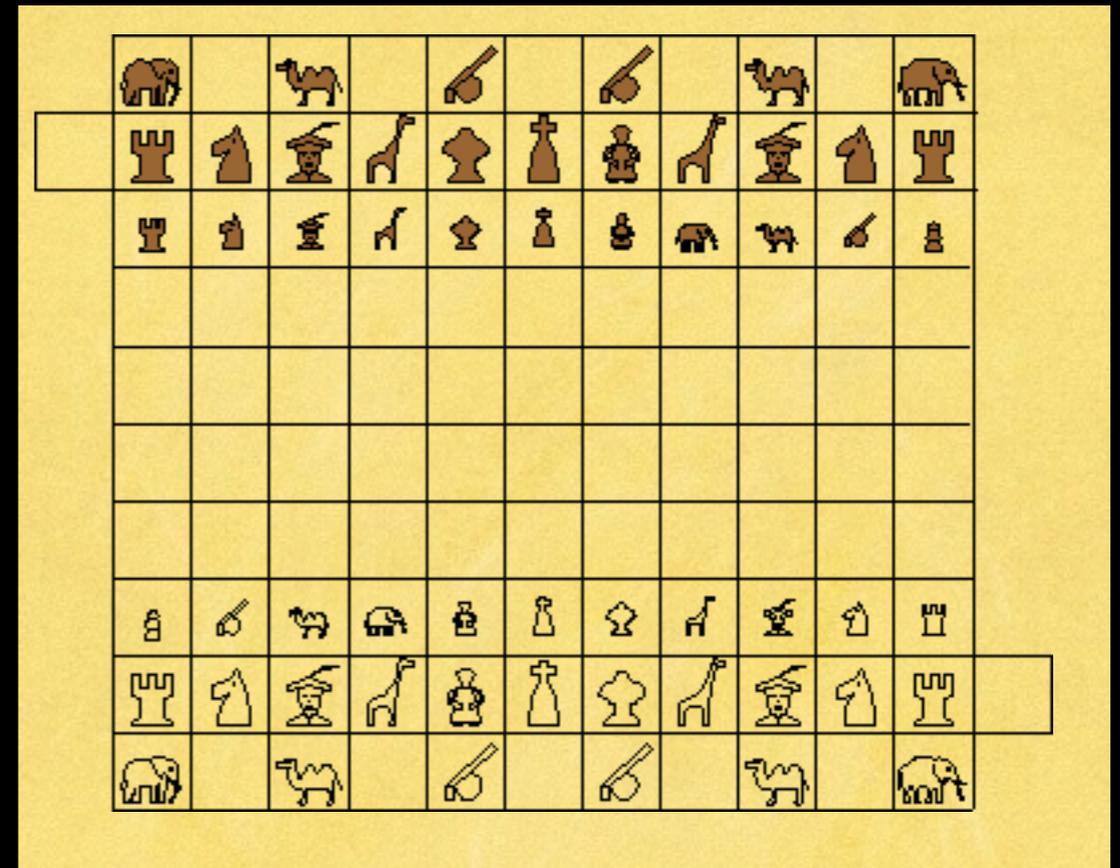
Hiashatar (mongolisch)

- 10X10 Feld
- Bodyguard



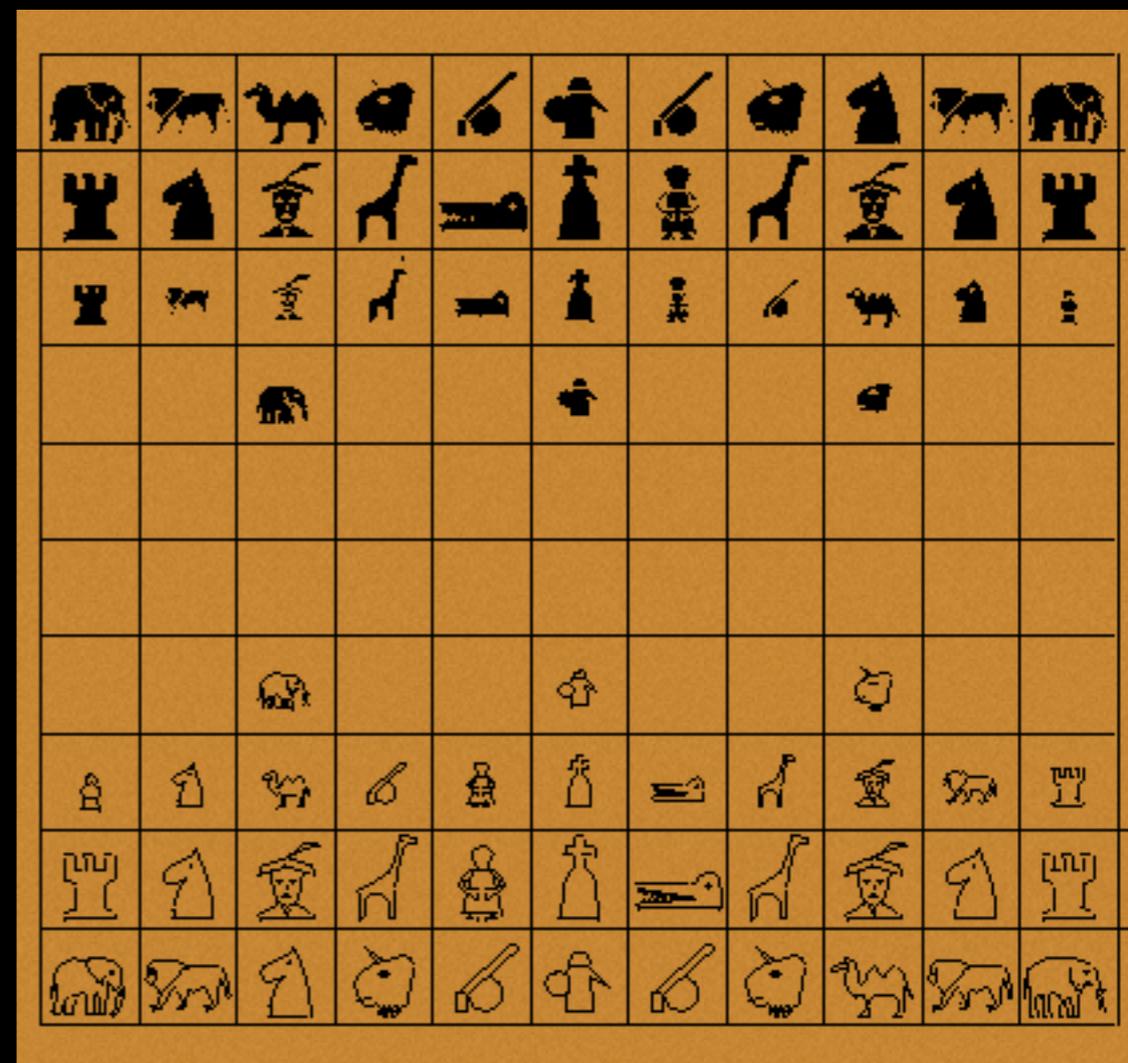
Tamerlane (1336 - 1405)

10 Rows x 11 Columns
Persische Schachvariante



Tamerlane Chess Variant (14-15.Jhd)

- Elephant
- Lion
- Camel
- Bull
- Dabbabah
- Sentinel
- Rook
- Knight
- Talî`a
(vanguard)
- Crocodile
- King
- Ferz
- Giraffe
- Pawns



Johann Christian Ludwig Hellweg (1780)



Preußische Kriegsspiele 1812











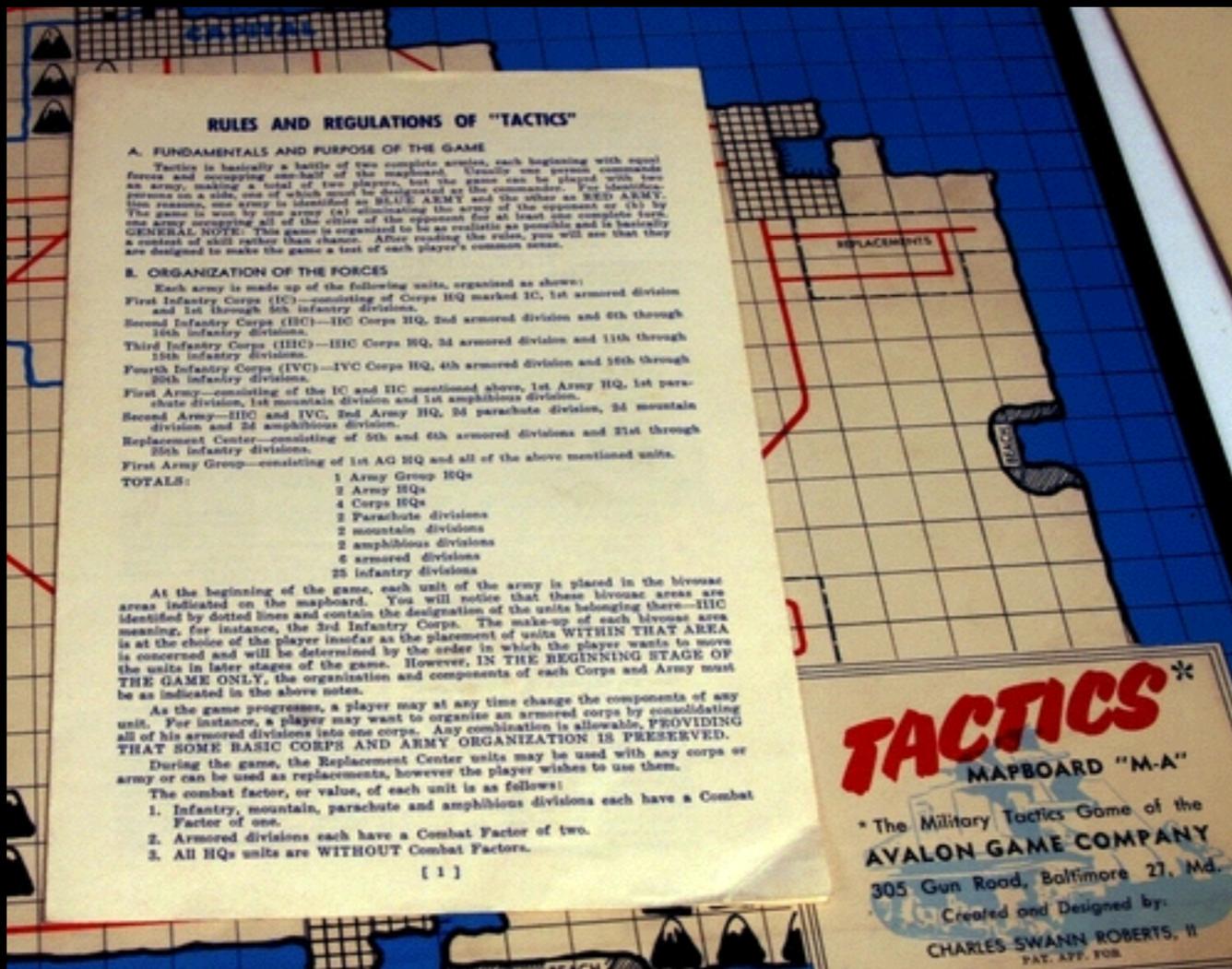


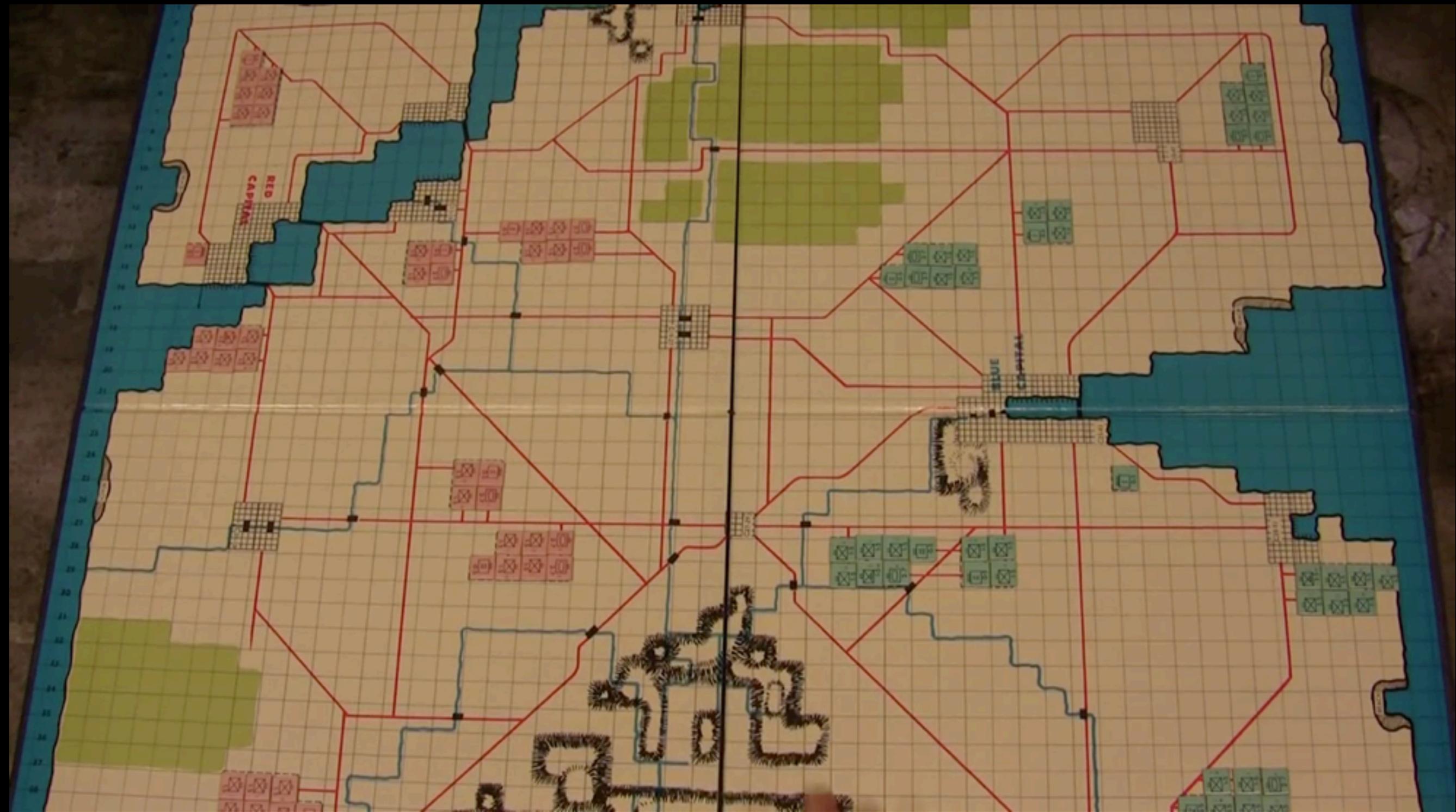


Tactics



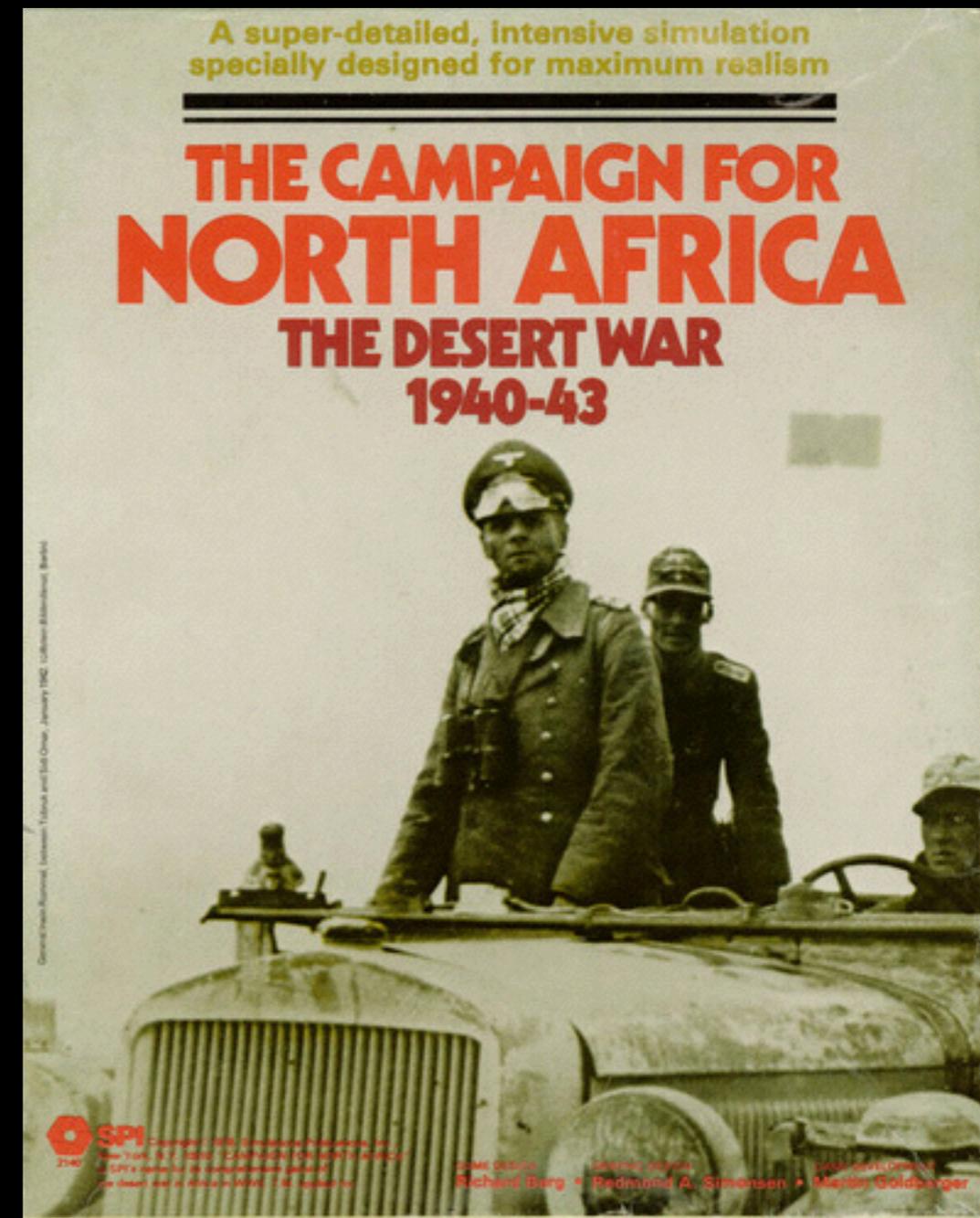
- 1954 von Charles S. Robert (US Nationalgardist)
- Gründung von Avalon Hill
- Einführung von Countern
- 1958 Entwicklung von Tactics 2
- wurde bis 1998 produziert





The Campaign for North Africa

- 8-10 Spieler
- 1000 Stunden Spielzeit
- 1979
- Richard H. Berg



- 2 Spieler
- 180 Minuten Spielzeit
- 200 Seiten starker Ringordner mit Regeln
- Wird durch Zusatzregeln aus 367 Erweiterungen ergänzt
- weitere sind in Planung



The cover art for ASL Module 1: Beyond Valor features a red background with four circular vignettes of soldiers in various combat poses. Below the vignettes, the text reads: "ASL contains only written material; necessary playing pieces are contained in ASL Module 1: BEYOND VALOR". To the right of this text is the large "ASL" logo and the copyright notice "© Rodger B. MacGowan". At the bottom, the Avalon Hill logo is followed by the text "Advanced Squad Leader Rules" and "The Avalon Hill Game Company".

ASL contains only written material; necessary playing pieces are contained in ASL Module 1: BEYOND VALOR

ASL

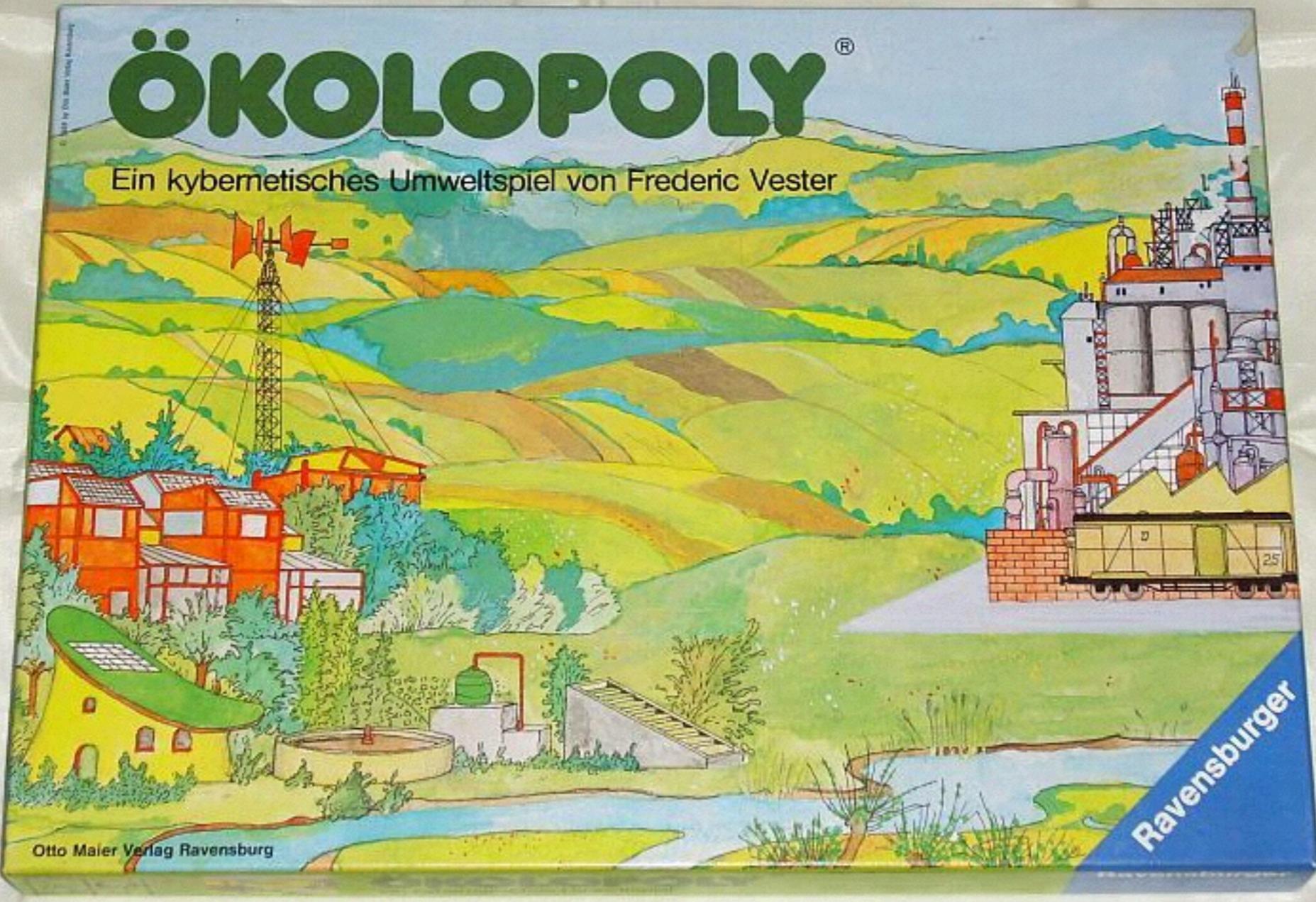
© Rodger B. MacGowan

ADVANCED SQUAD LEADER
is The Avalon Hill Game Company
Trademark for its WWII Tactical Warfare Game System

 **Advanced Squad Leader Rules**
The Avalon Hill Game Company

ÖKOLOPOLY[®]

Ein kybernetisches Umweltspiel von Frederic Vester



Otto Maier Verlag Ravensburg

Ravensburger

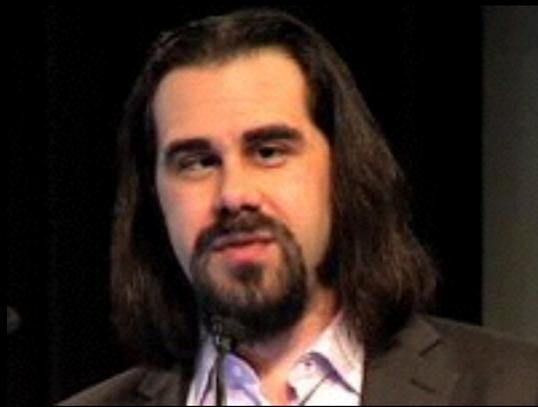
Planspiel



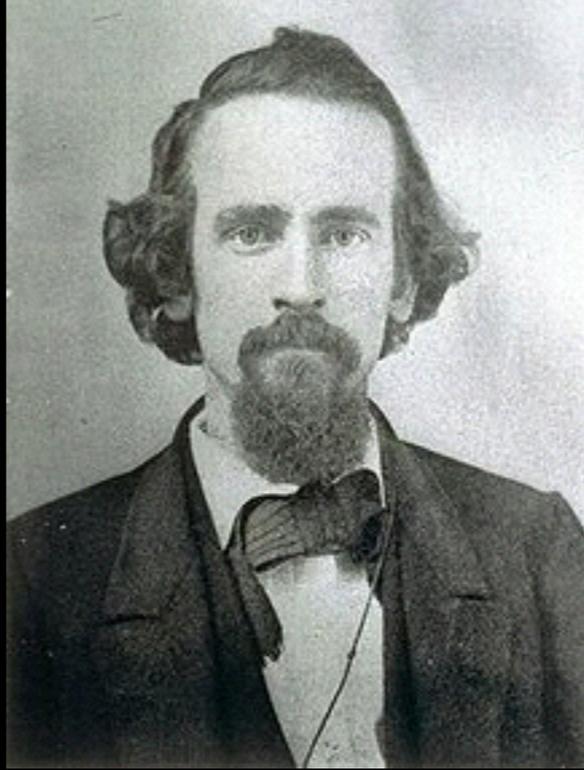
Vergleich

Spielelemente werden durch Vergleich ihrer Attribute in Bezug zueinander beschrieben

Prozedurale Rhetorik



Elizabeth Magie
Erfinderin
„Landlords Game“



„Arbeitslose Einkünfte des Grundbesitzers auf der einen Seite schaffen Armut und Verelendung auf der anderen Seite.“

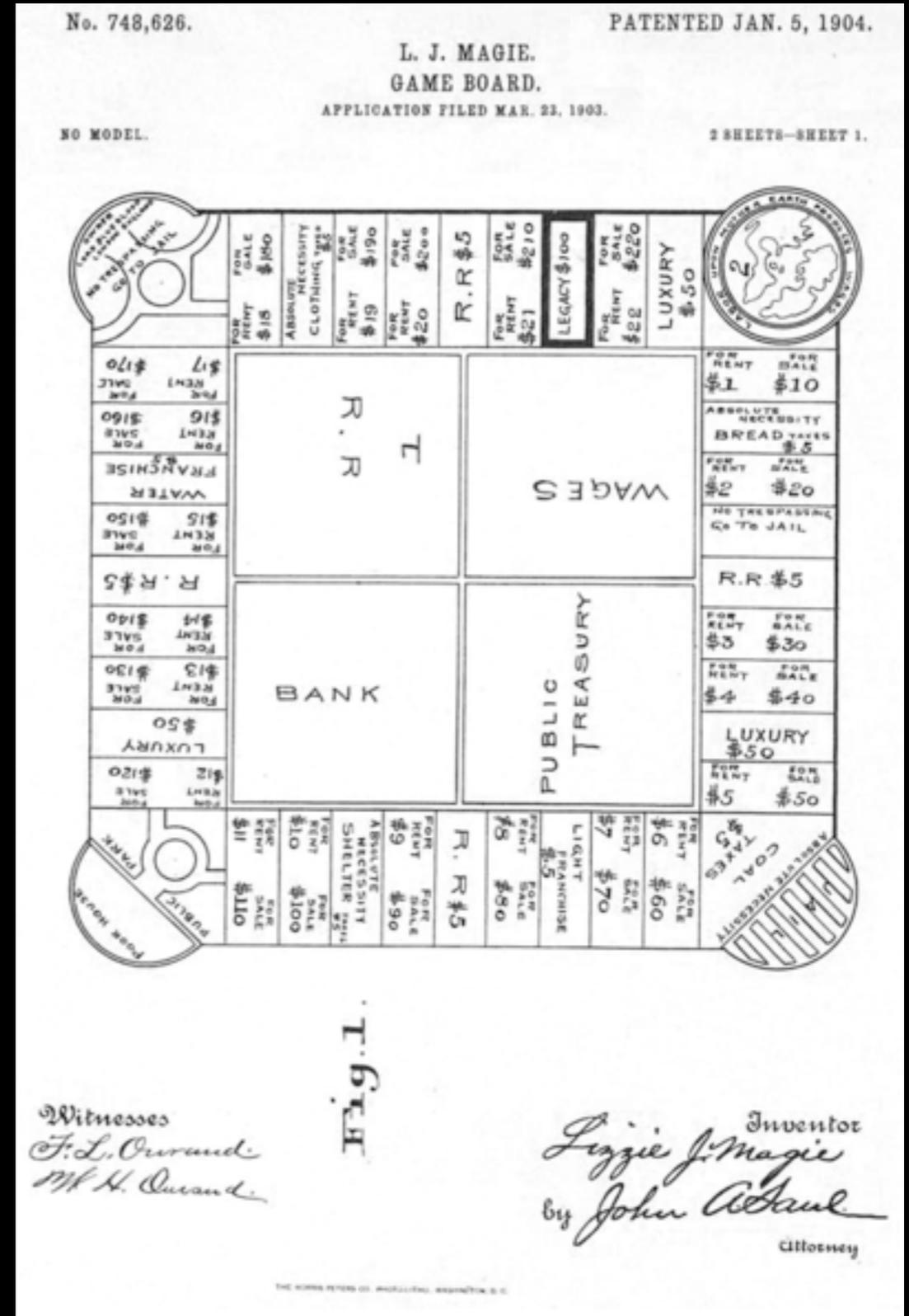
Henry George, -Ökonom

Single Land Value Tax

- Zeitlich begrenzte Nutzungsrechte an Land werden vom Staat regelmäßig versteigert.
- Dadurch kann man Land nicht horten, um damit zu spekulieren. Der es am effektivsten nutzen kann, bekommt das Land.

The Landlords Game

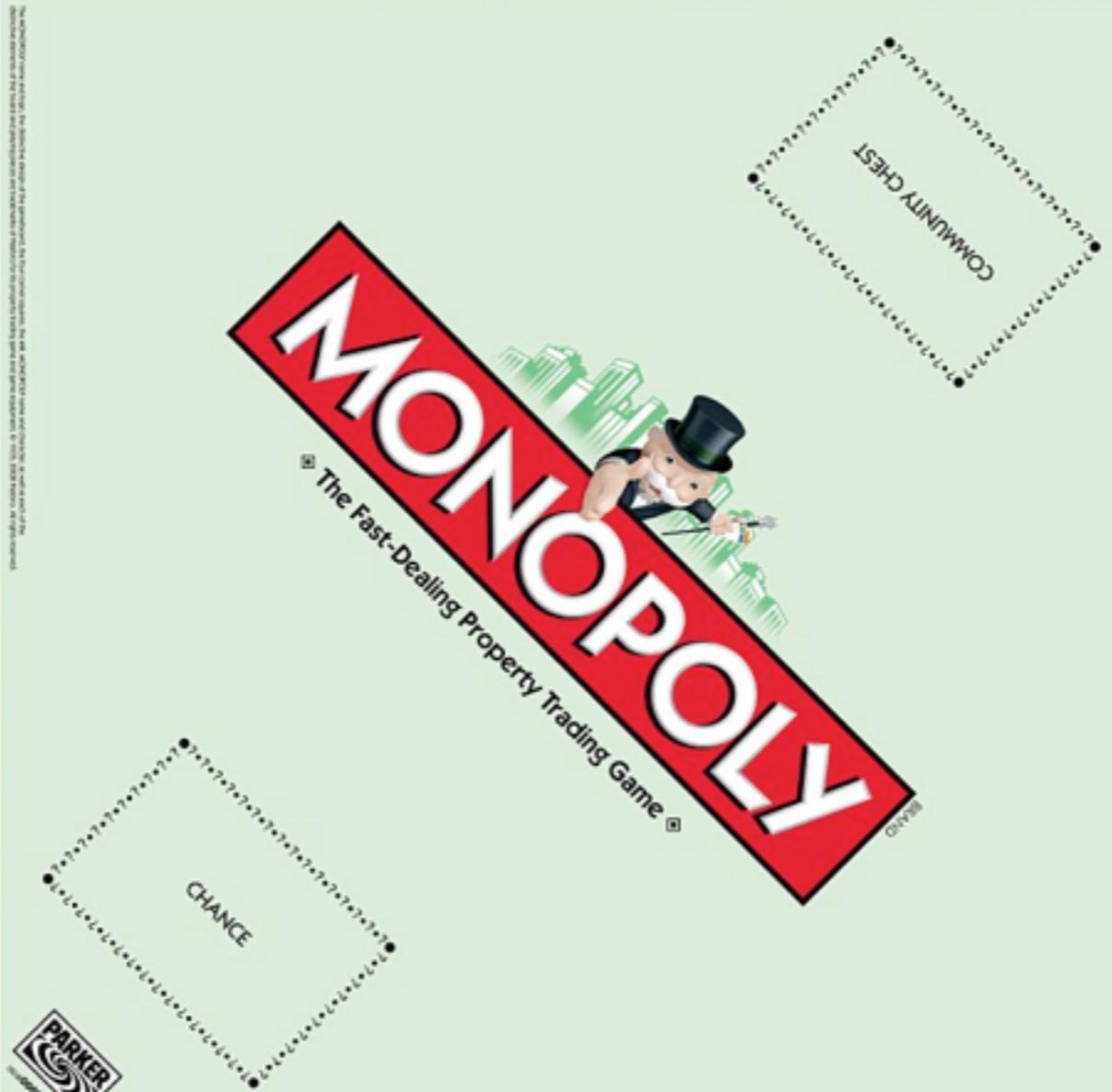
- Patent 1904
- zwei Versionen!



 GO TO JAIL COLLECT £200-SALARY AS YOU PASS	MAYFAIR £1.8bn	SUPER TAX  £200m	PARK LANE £562m	CHANCE 	LIVERPOOL ST. STATION  £1.5bn	OXFORD STREET £550m	COMMUNITY CHEST 	PICCADILLY £440m	EUSTON ROAD £404m	GO TO JAIL 	REGENT STREET £370m	WATER WORKS  £88m	STRAND £320m	BOND STREET £271m	KINGS CROSS STATION  £1bn	PALL MALL £228m	PENTONVILLE ROAD £215m	CHANCE 	WHITEHALL £211m	FREE PARKING 	OLD KENT ROAD £208m	FLEET STREET £148m	COMMUNITY CHEST 	M. BOROUGH STREET £125m	FENCHURCH ST. STATION  £700m	NORTHWORLD AVENUE £112m	TRAFALGAR SQUARE £97m	ELECTRIC COMPANY  £12.4bn	THE ANGEL ISLINGTON £91m	JUST VISITING 	WHITCHAPEL ROAD £81m	BOW STREET £71m	CHANCE 	LEICESTER SQUARE £68m	MARPLESTONE STATION  £500m	INCOME TAX PAY £100m	COVENTRY STREET £57m	COMMUNITY CHEST 	VINE STREET £15m
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MONOPOLY

The Fast-Dealing Property Trading Game



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Persuasive Game





Jean Baudrillard

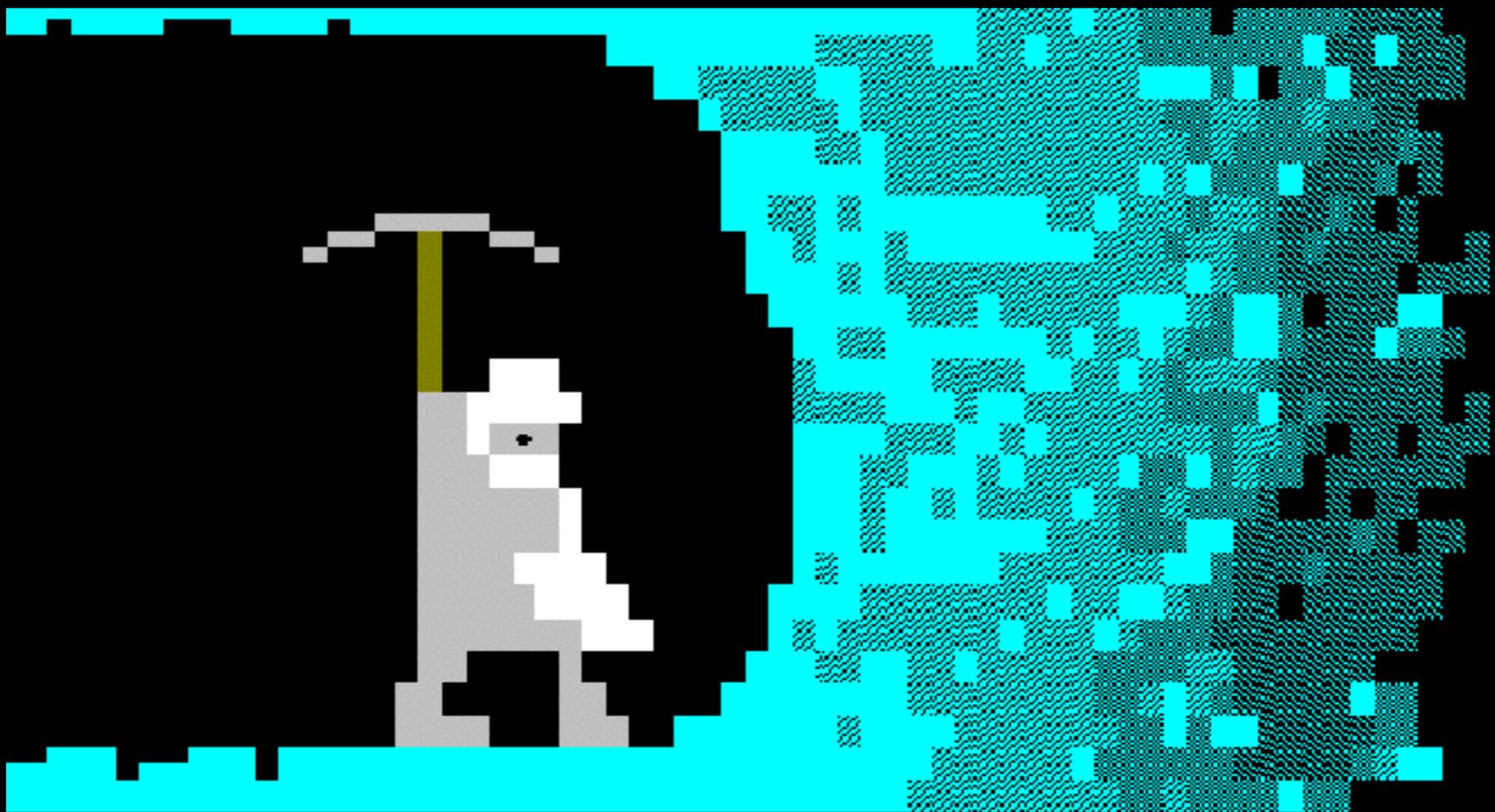
1926-2007



"Simulacra and Simulation" breaks the sign-order into 4 stages:







Simulacra and Simulation identifies three types of simulacra and identifies each with a historical period:



H = [HackTheGame 1.20] = X

Inbox 0 Ping Hangup Settings

Telnet Get File Info

Telnet login succesful...12-5-2007 21:03:59

root[.]# ls

Windows <DIR>
HackingToolz <DIR>
Documents <DIR>
TelnetLogs <DIR>
Pictures <DIR>
autoexec.bat
command.com
config.sys
io.sys
msdos.sys

5 file(s)
5 folder(s)

root[.]# cd hackingtoolz

Ok.

root[hackingtoolz]#

Jobs done: 0 Trace: 192.516.387.652 (c)2007 - E.Wenners / chaozz@work
Times Busted: 0 Status: online

H = [FileLeecher] = X

Filename	Download
portscannerw32.exe	<div style="width: 60%;"></div>



Stable system with 33 major bodies.

Vast areas are used for growing custom grain crops in enormous quantities which are then exported to the surrounding worlds. No manufacturing industry is permitted to avoid any polluting emissions.

