



Panel 2: IT- und Medienstandort Berlin

Open Source und Linux in Berlin



DeepaMehta

Informations- und Kommunikationsplattform mit
Gehirngerechter Benutzerschnittstelle

Plattform für Wissensmanagement

Jörg Richter
jri@freenet.de



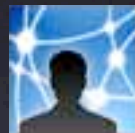
www.deepamehta.de



Reducing the Semantic Distance



2005



DeepaMehta



Jörg Richter



Human-Computer Interaction



Klaus Rebensburg





Microprofessor MPF-I (1981)
 Z80 / 8 Bit / 1,7 MHz
 2 KB RAM
 Assembler
 Hex-keypad
 150 Euro

computermuseum.obit-datentechnik.de



Sinclair ZX81 (1981)
 Z80A / 3,5 MHz
 1 KB RAM + 16 KB expansion
 Basic
 QWERTY-keypad
 TV-output: 32x24 chars
 64x44 block graphics
 200 Euro

tim.pritlove.org



Sinclair ZX Spectrum (1982)
 Z80A / 3,5 MHz
 16/48 KB RAM
 8 colors / 256x192 pixel graphics
 365 Euro



Spectravideo SV 328 (1983)
 Z80A / 3,6 MHz
 64 KB RAM + 16 KB VRAM
 Full-stroke keyboard with numeric keypad
 Microsoft Extended Basic
 40x24 Chars
 16 colors / 256x192 pixel
 3 channel sound
 650 Euro

www.atarihq.com/museum/



Atari 1040 STF (1985)
 68000 / 16/32 Bit / 8 MHz
 1 MB RAM
 Graphical user interface (GEM)
 Mouse
 Built-In floppy drive, 720 KB
 B/W monitor: 640x400
 16 colors (from 512) @ 320x200 pixel
 Sampled sound
 1750 Euro



“Das derzeitige Benutzer-Modell (Programme, Dateien, Fenster, ...) ist nicht geeignet, um PCs als Informations- und Wissensmedium einer Großzahl von Menschen zugänglich zu machen.”

My Computer Nero Burning ROM Mozilla Firefox

My Network Places Pop-Up Stopper Windows Media Player

Recycle Bin SiSoftware Sandra 5... Microsoft Outlook

Internet Explorer Spybot - Search... hosting

Ad-aware 6.0 Kazaa Lite K++ installedhacks

Norton SystemWorks CloneCD Games... bs.net email

WinZip Winamp Self Test

Ashampoo WinOptimi... AOL Instant Messenger

Index of /homepage/

Name	Rn	Rm	Name	Size	Perm	Modified	Vw	Ed	Rn	DI	Rm
.			dan_vestergaard_christensen.png	104,65 KB	666	12:43 01-31-2002					
..			index.php	234 B	666	17:58 08-25-2002					
Beyond_Exiled			raad.php	11,95 KB	666	19:20 08-23-2002					
Kalender											
Razo											
Small scripts											
Tæller											
filesystem											
frozzzer											
home											
oso											
phpMyAdmin											
php_manual_sample_7											
projekt											

初出:月刊ニュータイプ(角川書店刊)2003年4月号
 illustrated by OSAMU HORIUCHI
 3DCG by TAKETO KOBAYASHI
 finished by KEIKO GOTOU

Nelson Email Organizer - NEO Pro - [NEO Tutorial]

File Edit Filter View Tools Help

New Reply Reply All Forward Send/Receive Sync Outlook Back

Filter: Disable Class: Status: Folder: Recip: Dir: Age

Hot Correspondent Bulk Mail Category Status Date Attachment Search

Hot

Current

- Active Mail (3 of 13)
- To Do [4]
- Today (4)
- Yesterday (5)
- David Clark (2)
- Gibson, Tom (3)
- Downloads
- Drafts

Dormant

Active Mail

To	Name	Subject	Date/Time
	Chapters.Indigo.ca	Online Member Exclusive: 25...	Today 7:34
	Brian Chard	Re: Pinning down deploymen...	Yesterday
	Barry Hunt	Distribution/Reseller proposal	10/28/2003
	Sid Cho	revised Press ReleaseB	8/6/2003
	Christine Abbey	Re: Introduction	5/28/2003
	Gregory Tate	Spam Alert: RE: Nelson Email Or...	5/13/2003
	DigiBuy	Product 94754368946	2/8/2003
	Downloads	Download	2/8/2003

Outlook

- Archive_1997
- Archive_1998
 - Calendar
 - Contacts
- Deleted Items (127)
- Drafts
- Inbox
- Journal

13 items

Modified	Vw	Ed	Rn	DI	Rm
2:43 01-31-2002			A B		
7:58 08-25-2002			A B		
9:20 08-23-2002			A B		

Distribution/Reseller proposal

Barry Hunt

To: tjohnston@caelo.com

Folder: Archive_2000\Sample OL folder

Categories:

Hi Terry,

I've attached a "beta version" of a powerpoint I may wish to use when approaching potential distribution and reseller prospects. Could you review it to ensure I have the latest graphics etc. I also need your help on the slide transition for the last 3 slides.

projekt

Nelson Email Organizer - NEO Pro - [NEO Tu

File Edit Filter View Tools Help

New Reply Reply All Forw

Filter: Disable Class: Status:

Hot Correspondent Bulk Mail

Hot Active

Current

- Active Mail (3 of 13)
 - To Do [4]
 - Today (4)
 - Yesterday (5)
 - David Clark (2)
 - Gibson, Tom (3)
 - Downloads
 - Drafts
- Dormant

Outlook

- Archive_1997
- Archive_1998
 - Calendar
 - Contacts
 - Deleted Items (127)
 - Drafts
 - Inbox
 - Journal

13 items

projekt

RealPlayer: Tag der Artenvielfalt - III

File View Play Channels Radio Favorites Help

Location: http://www.uni-heidelberg.de/media/biologie/artenvielfalt3_high

real.com take5 Click to Play!

LAUNCH Over 5,000 Music Videos On Demand

(PSEUDO) eYada.com ADD NEW CHANNELS ABCNEWS.com Bloomberg.com

My channels Updated 28.8

Radio Tuner Guide Search Message Service

Buffering (224.8 Kbps, 2 seconds)

Distrib Barry H
To:
Folder:
Hi Terry
I've att
approaching potential distribution and reseller prospects. Could you review it to ensure I have the latest graphics etc. I also need your help on the slide transition for the last 3 slides.

SlimBrowser - Yahoo!

File Edit View Favorites Language Groups AutoLogin Tools Window Help

Address <http://www.yahoo.com/>

Links submit flashpeak NSIS Home NSIS Live help desk php Mainpage hits Tracking Data Overture Search

Utilities Notepad Enable Ad Filter Filter Current Page Now Frequently Used Menu Items RoboForm Passcards

Google Yahoo! AltaVista Alexa Web Search

Google

AltaVista

Alexa Web Search

Yahoo!

Personalize Finance Shop **YAHOO!** Mail Messenger

Get free offers from Weight Watchers. Jumpstart your New Year's Resolution.

Web Images Yellow Pages Products

Search the Web: Yahoo! Search [Advanced](#) [Preferences](#)

New! [Top Yahoo! Searches of 2003](#)

Shop Find Connect [Auctions, Autos, Classifieds, Real Estate, Shopping, Travel](#)
[HotJobs, Maps, People Search, Personals, Yellow Pages](#)
[Chat, GeoCities, Greetings, Groups, Mail, Messenger, Mobile](#)

Personal Assistant
Get free email with S Yahoo! Mail - [Sign up](#)

Yahoo! Web Hosting

NUM

biologie/artenvielfalt3_high

Message Service

Adobe Acrobat 5.0.5 10/26/2001
Licensed to: User Name MCG
License Number



Adobe Acrobat 5.0

Copyright © 1987-2001 Adobe Systems Incorporated and its licensors. All rights reserved. Adobe, the Adobe logo, Acrobat, the Acrobat logo, PostScript, and the PostScript logo are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States and/or other countries.

Protected by U.S. Patents 4,837,813; 5,050,103; 5,185,818; 5,200,740; 5,233,336; 5,237,313; 5,255,357; 5,546,528; 5,634,064; 5,737,599; 5,781,785; 5,819,301; 5,832,530; 5,832,531;

Address: http://www.yahoo.com/
Links: submit, flashpeak, NSIS Home
Utilities: Notepad, Enable Ad Filter
Search: Google, Yahoo!, AltaVista

Google
AltaVista
Alexa Web Search

Yahoo!
My Personalize Finance
Get free offer

Web
Search the Web: [Search Box] Yahoo! Search

New! Top Yahoo! Searches of 2003
Shop Auctions, Autos, Classifieds, Real Estate, Shopping, Travel
Find HotJobs, Maps, People Search, Personals, Yellow Pages
Connect Chat, GeoCities, Greetings, Groups, Mail, Messenger, Mobile

Personal Assistant
Get free email with S Yahoo! Mail - Sign up
Yahoo! Web Hosting



Message Service
[Progress Bar]

File Edit Document Tools View Window Help

75%


Bookmark


- Home
- English
- Español
- Français
- Deutsch
- Italiano
- Nederlands
- Português

Guia Rápido de Instalação do WinProxy

Antes de iniciar

Antes de instalar o WinProxy, é necessário ligar todos os computadores a uma rede local com o protocolo TCP/IP instalado em todos. Pode verificar se tem uma ligação funcional à Internet ligando-se à Internet a partir do PC onde vai instalar o WinProxy.

- ▶ No PC WinProxy: Clique em Start. Clique em Settings Abaixo o Control Panel Clique em System. Clique em Device Manager
- ▶ Verifique se a ligação do equipamento (ligação de acesso telefónico à rede/placa modem ou de rede local) à Internet está bem instalada.
- ▶ Verifique se a ligação do equipamento (placa de rede) à rede local (LAN) está bem instalada (instincta de )
- ▶ Se todas as ligações estiverem verificadas, passe à etapa seguinte.

Se aparecer para alguma ligação o sinal , pare imediatamente. É necessário que a ligação esteja correcta para a rede funcionar bem. Contacte o fabricante do seu equipamento para suporte técnico.

Para informações sobre a instalação de uma rede local, veja os Manuais do Utilizador contidos no CD-ROM ou contacte o suporte através do endereço Internet <http://www.winproxy.com>.

Protecção de actualização

A compra do WinProxy confere-lhe o direito de telecarregar gratuitamente todas as revistas e actualizações à mesma edição de software, nos 30 dias subsequentes à data de instalação do produto. É aconselhável consultar o endereço Internet de Datas Software WinProxy, para verificar se tem a última versão do produto. É possível efectuar telecarregamentos no endereço Internet <http://www.winproxy.com>.

As definições que seguem podem ajudá-lo a compreender melhor o WinProxy:

Computador central/servidor: É o computador ou servidor onde está carregado o WinProxy. É o único computador onde deve ter o sistema operativo Windows 95/98/2000/Me ou Windows NT 4.0 (estação de trabalho ou servidor). Serão necessários uma ligação à Internet e a outra à rede local. A ligação à Internet pode ser um adaptador conectado (para ligações standard de modem) ou (para ligação por cabo, DSL, e directa).

Computador cliente: São os outros computadores da rede local. Estes computadores têm acesso à Internet através do servidor. O WinProxy nestes computadores e podem ser PC's ou Mac's e devem funcionar com sistema operativo Windows, UNIX ou Linux.

Configuração do servidor

14 of 15 8,5 x 11 in

File Edit View Favorites La

Address <http://www.yahoo.com/>

Links submit flashpeak

Utilities Notepad Enable Ad

Google Yahoo! Alta

Google

AltaVista

Alexa Web Search

Yahoo!

Personalize

Get

Search the

New! **Top Yahoo! Searches of 2003**

Shop Auctions, Autos, Classifieds, Real Estate, **Shopping**, Travel

Find HotJobs, Maps, People Search, Personals, Yellow Pages

Connect Chat, GeoCities, **Greetings**, Groups, Mail, Messenger, Mobile

Personal Assistant

Get free email with S Yahoo! Mail - [Sign up](#)

Yahoo! Web Hosting

NUM

Address <http://www.yahoo.com/>

Links submit flashpeak

Utilities Notepad Enable Ad

Google Yahoo! Alta

AltaVista

Alexa Web Search

Yahoo!

My Personalize

Get

Search the

New! [Top Yahoo! Searches of 2003](#)

Shop Find [Auctions](#), [Autos](#), [Classifieds](#), [Real Estate](#), [HotJobs](#), [Maps](#), [People Search](#), [Personals](#)

Connect [Chat](#), [GeoCities](#), [Greetings](#), [Groups](#), [Mail](#)

File Edit Document Tools View Window Help

75%

Bookmark

- Home
- English
- Español
- Français
- Deutsch
- Italiano
- Nederlands
- Português

Guia Rápido de Instalação do WinProxy

Antes de iniciar

Antes de instalar o WinProxy, é necessário ligar todos os computadores a uma rede local com o protocolo TCP/IP instalado em todos. Pode verificar se tem uma ligação funcional à Internet ligando-se à Internet a partir do PC onde vai instalar o WinProxy.

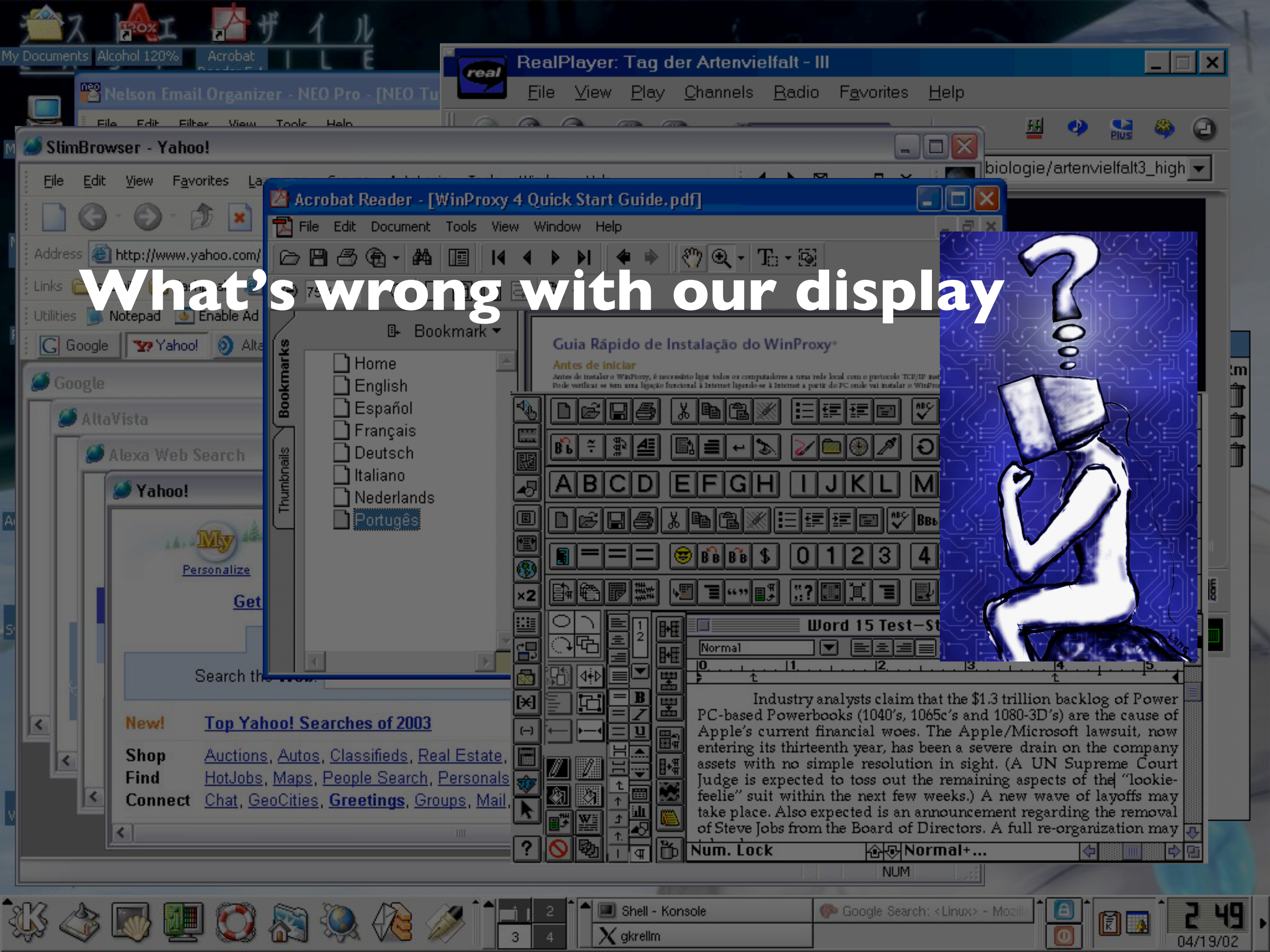
Word 15 Test - Stardate 3.10.2004

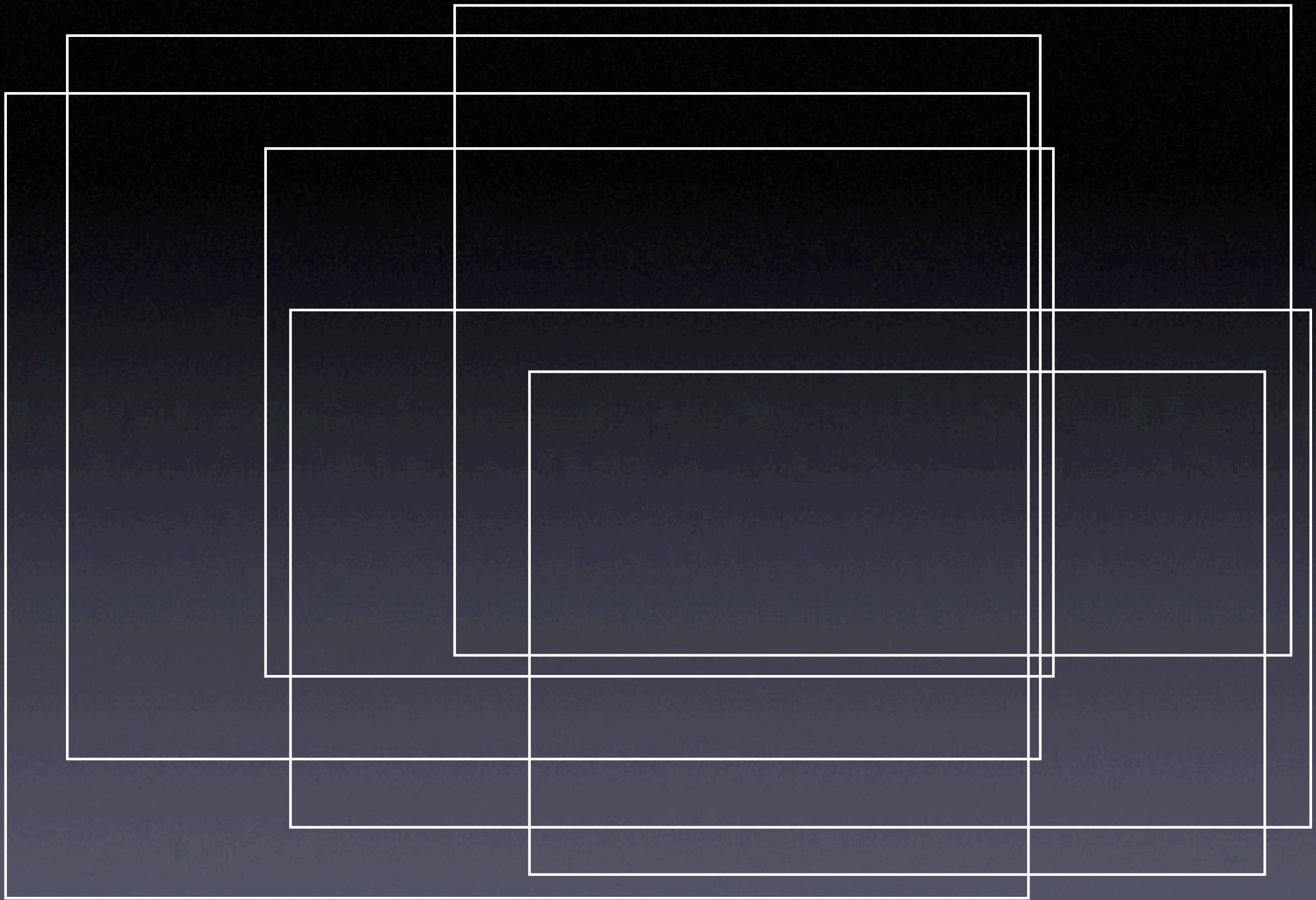
Normal

Industry analysts claim that the \$1.3 trillion backlog of Power PC-based Powerbooks (1040's, 1065c's and 1080-3D's) are the cause of Apple's current financial woes. The Apple/Microsoft lawsuit, now entering its thirteenth year, has been a severe drain on the company assets with no simple resolution in sight. (A UN Supreme Court Judge is expected to toss out the remaining aspects of the "lookie-feelie" suit within the next few weeks.) A new wave of layoffs may take place. Also expected is an announcement regarding the removal of Steve Jobs from the Board of Directors. A full re-organization may

Num. Lock Normal+...

What's wrong with our display





Die Sterne



“Wir müssen nichts so machen wie wirs kennen
nur weil wir's kennen wie wirs kennen”

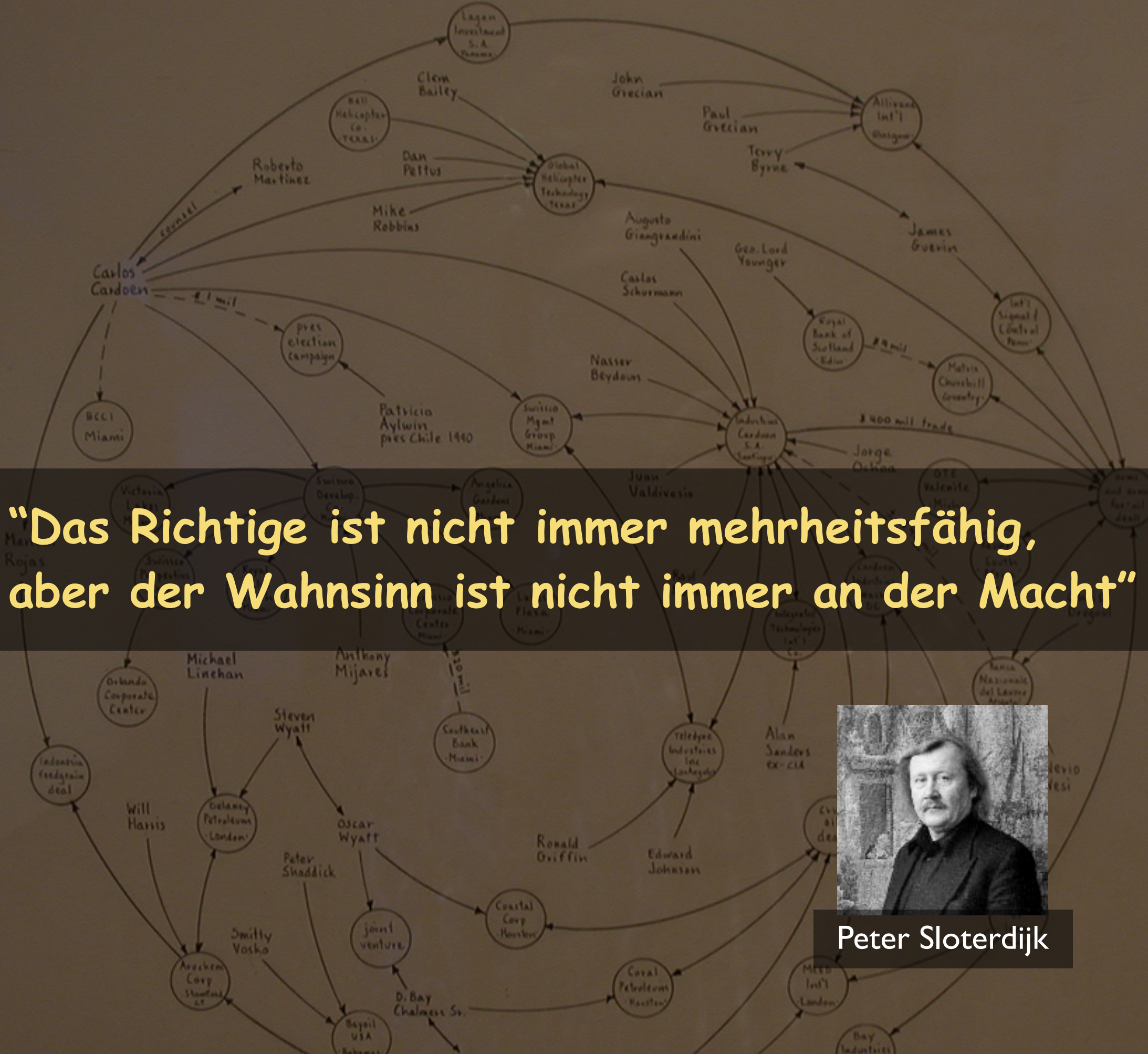


“Bezüge sind alles,
Bezüge sind das Leben”
– Goethe

“Das Richtige ist nicht immer mehrheitsfähig,
aber der Wahnsinn ist nicht immer an der Macht”



Peter Sloterdijk



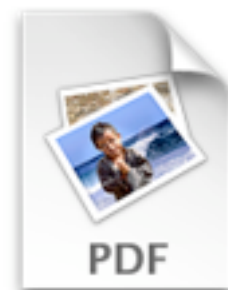
Brad A. Myers: "A Brief History of Human Computer Interaction Technology"



Brad Myers



Computer History



myers.pdf



Human Computer Interaction



Reducing the Semantic Distance

Objects of Interest



Secondary Objects

- **Navigation**
- **Command**

SlimBrowser - Yahoo!

File Edit View Favorites Language Groups AutoLogin Tools Window Help

Address <http://www.yahoo.com/>

Links submit flashpeak NSIS Home NSIS Live help desk php Mainpage hits Tracking Data Overture Search

Utilities Notepad Enable Ad Filter Filter Current Page Now Frequently Used Menu Items RoboForm Passcards

Google Yahoo! AltaVista Alexa Web Search

Google

AltaVista

Alexa Web Search

Yahoo!

Personalize Finance Shop **YAHOO!** Mail Messenger

Get free offers from Weight Watchers. Jumpstart your New Year's Resolution.

Web Images Yellow Pages Products

Search the Web: Yahoo! Search [Advanced](#) [Preferences](#)

New! [Top Yahoo! Searches of 2003](#)

Shop Find Connect [Auctions, Autos, Classifieds, Real Estate, Shopping, Travel](#)
[HotJobs, Maps, People Search, Personals, Yellow Pages](#)
[Chat, GeoCities, Greetings, Groups, Mail, Messenger, Mobile](#)

Personal Assistant
Get free email with S Yahoo! Mail - [Sign up](#)

Yahoo! Web Hosting

NUM

biologie/artenvielfalt3_high

Message Service

Mißbrauch kognitiver Ressourcen

"Welches Programm? Welche Datei? Welches Fenster?"

"Huch, was ist das?"

A Cognitive Account

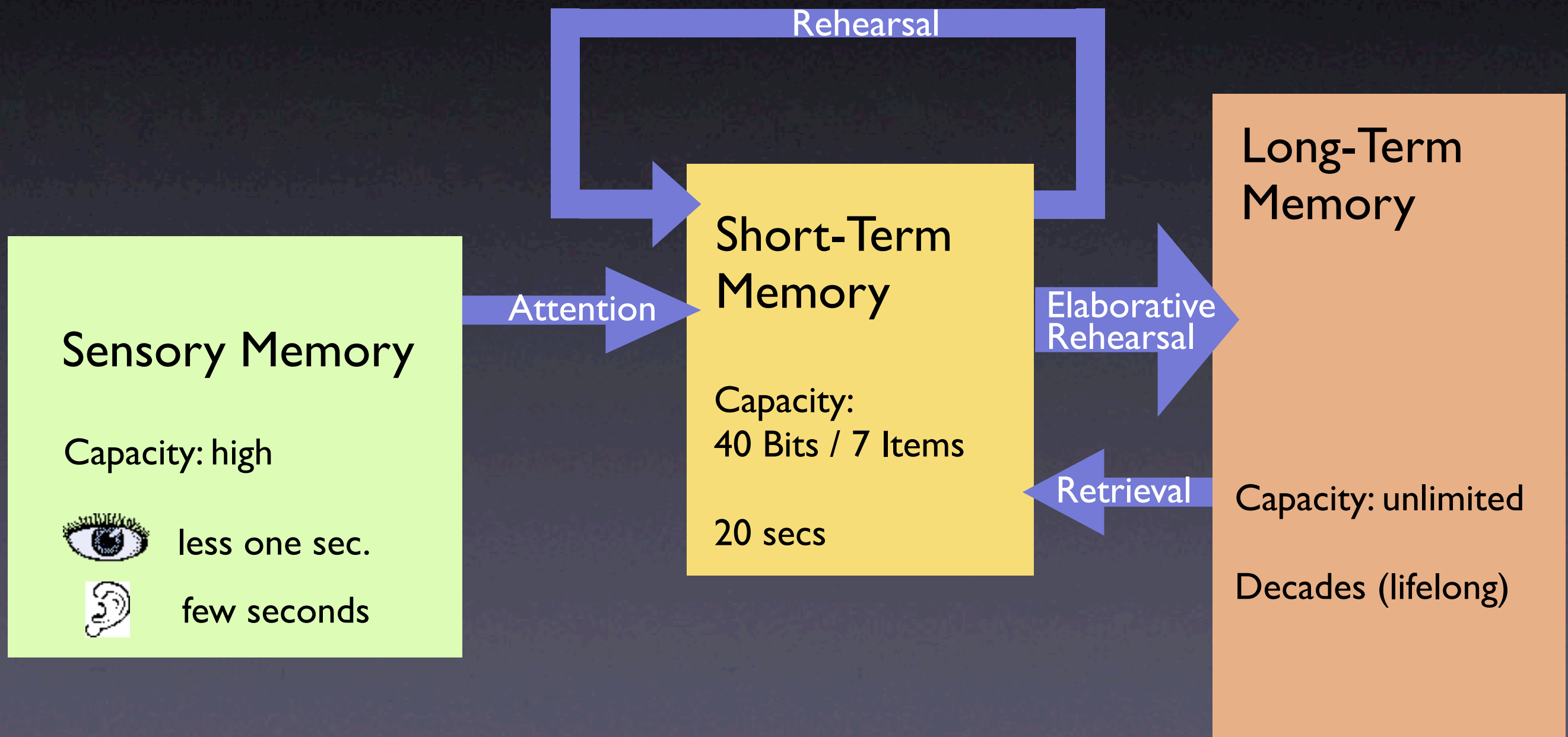
Human Brain



Sheep Brain

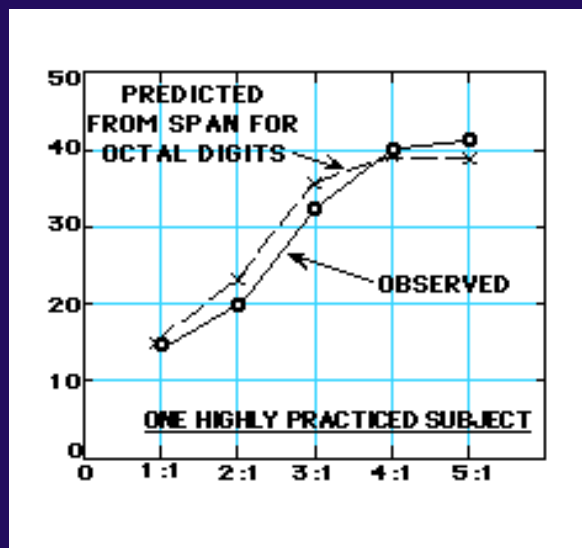
Memory

Persistence of learning over time



40 Bit / 7 items

George Miller: "The Magical Number Seven, Plus or Minus Two: Some Limits on Our Capacity for Processing Information", 1956



Memory Span for Binary Digits

Binary Digits (Bits)		1	0	1	0	0	0	1	0	0	1	1	1	0	0	1	1	1	0
2:1	Chunks	10	10	00	10	01	11	00	11	10									
	Recoding	2	2	0	2	1	3	0	3	2									
3:1	Chunks	101		000	100	111	001	110											
	Recoding	5		0	4	7	1	6											
4:1	Chunks	1010		0010	0111	0011	10												
	Recoding	10		2	7	3													
5:1	Chunks	10100		01001	11001	110													
	Recoding	20		9	25														

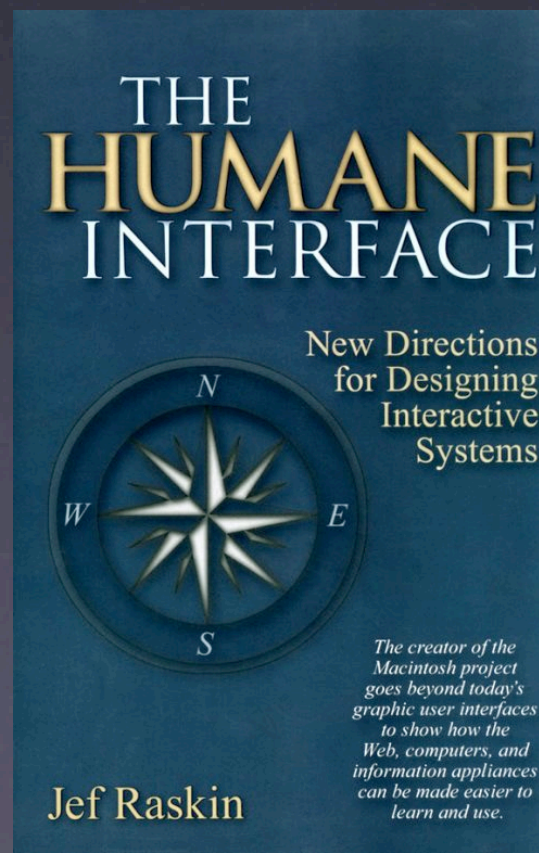
Ways of Recoding Sequences of Binary Digits



Jef Raskin

Father of the Macintosh

"We are oppressed by our
electronic servants"





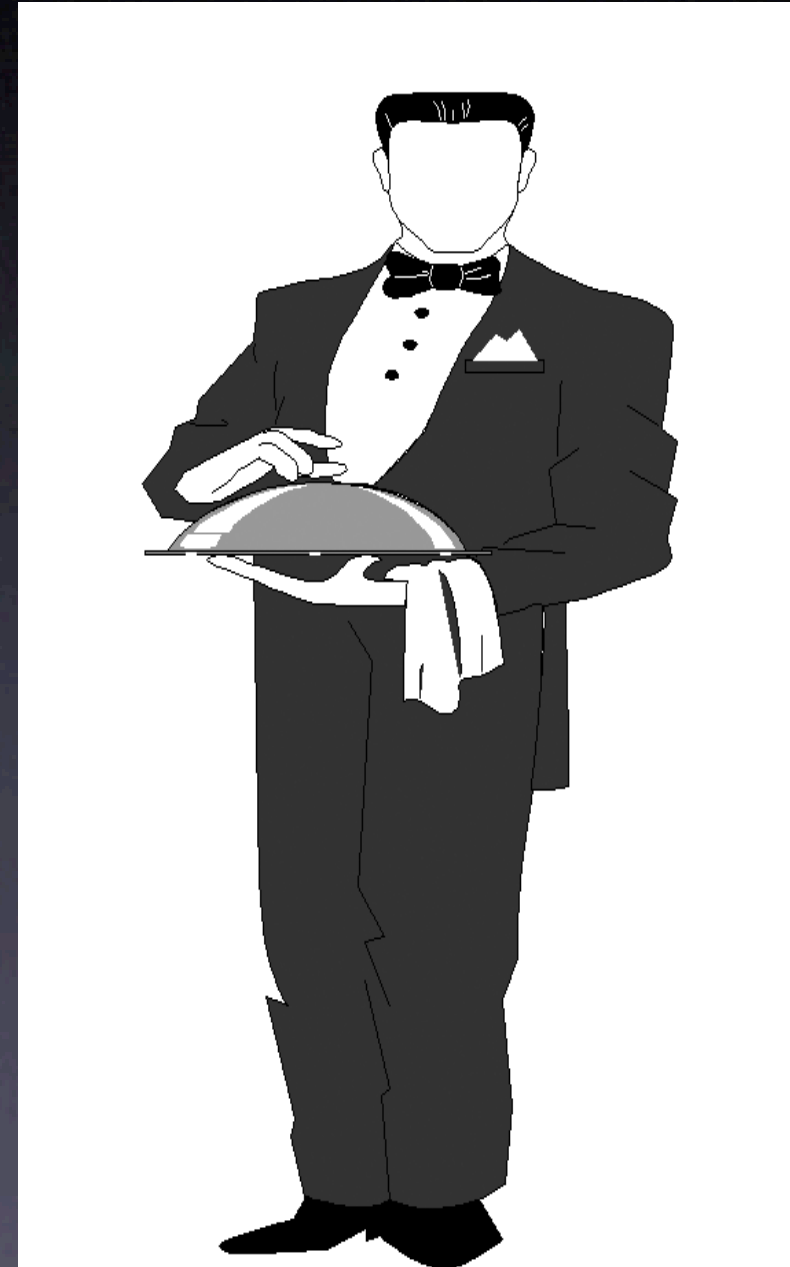
Computer

as a Tool



"to augment"

as an Assistant



"to automate"



Das Netzwerk für Freie Software



- Communications
- Store
- IT-Systems
- Design

newthinking store
Tucholskystraße 48
10117 Berlin

www.newthinking.de



Homebase of the DeepaMehta Community

- Strategic Meeting (2nd wednesday)
- User Group
- Developer Group
- Beginners Meeting (last wednesday)



www.deepamehta.de

Maintain your head, and share it

Jörg Richter
jri@freenet.de