

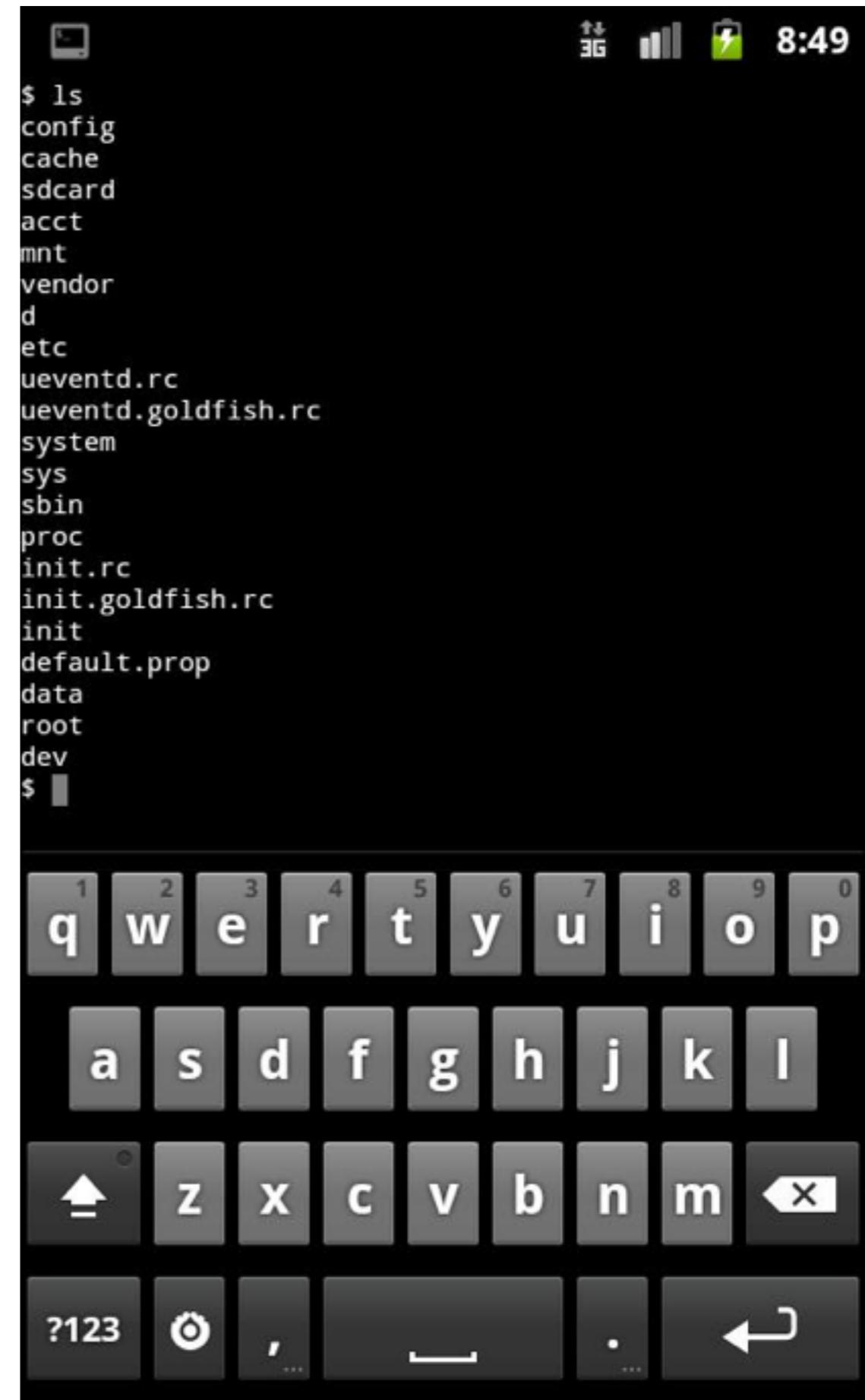
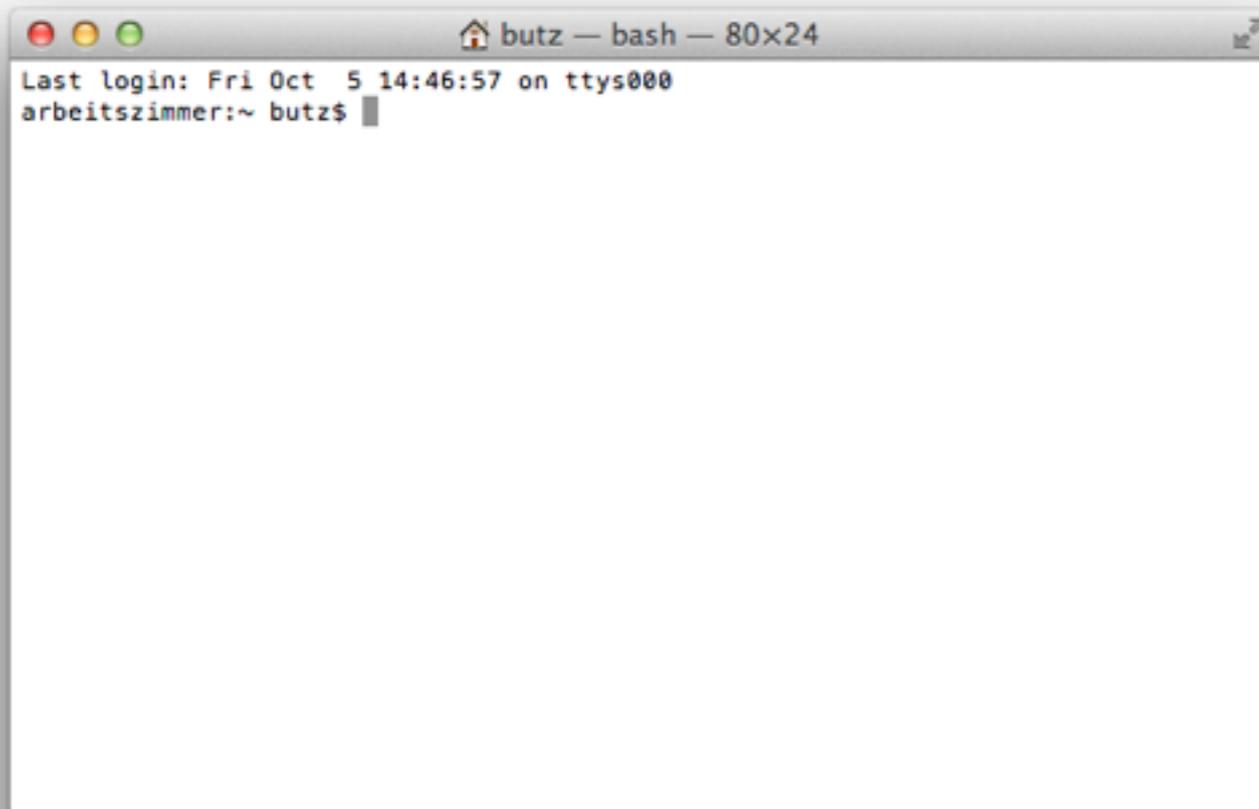
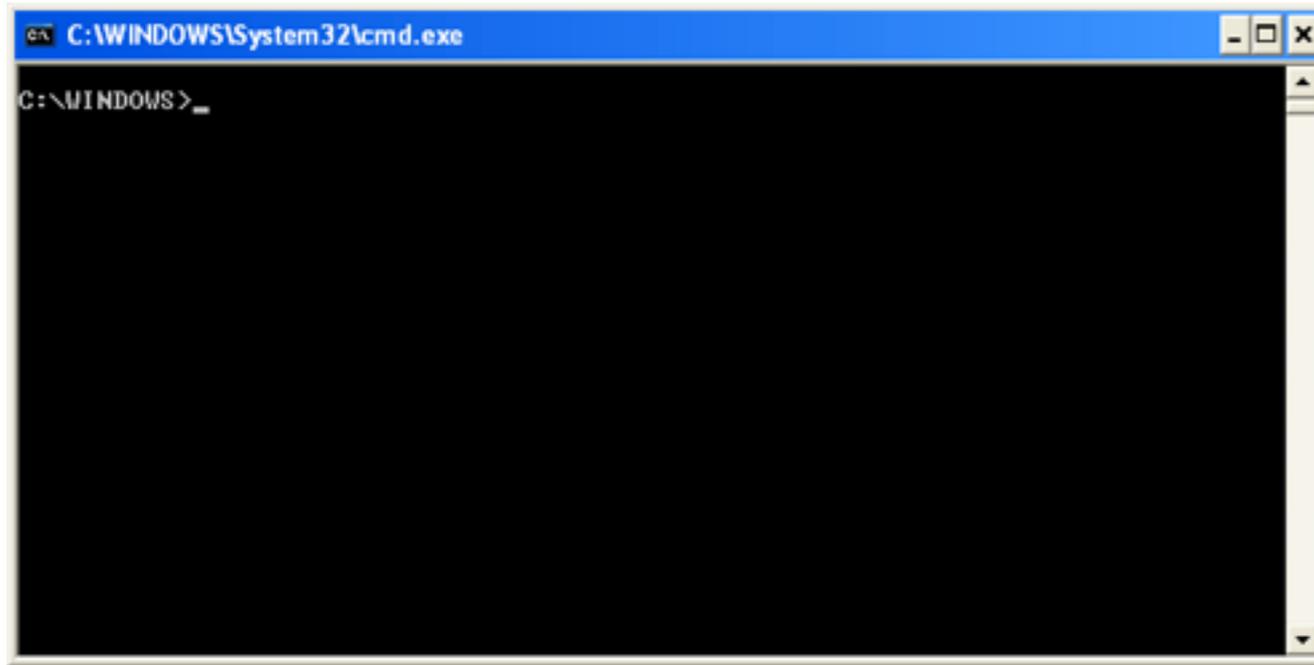
Mensch-Maschine-Interaktion



Kapitel 8 - Etablierte Interaktionsstile

- Kommandos
- Dialoge
- Suche und Browsen
- Direkte Manipulation
- Interaktive Visualisierungen

Kommandozeilen



<https://play.google.com/store/apps/details?id=jackpal.androidterm>

Kommandos auf Tasten



<http://www.logitech.com/assets/50806/6/harmony-ultimate-one.jpg>



<http://www.bsks.info/Handicaped/fernbedienung.jpg>

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Bildschirmdialog am Mainframe Computer

```

  _Menu  _Utilities  _Compilers  _Options  _Status  _Help
-----
                    ISPF Primary Option Menu
                          More:      +
0  Settings      Terminal and user parameters      User ID . : IBM0000
1  View          Display source data or listings    Time. . . : 10:54
2  Edit          Create or change source data       Terminal. : 3278
3  Utilities     Perform utility functions          Screen. . : 1
4  Foreground   Interactive language processing     Language. : ENGLISH
5  Batch         Submit job for language processing  Appl ID . : ISR
6  Command      Enter TSO or Workstation commands   TSO logon : SPFPROCE
7  Dialog Test  Perform dialog testing                TSO prefix: IBM0000
8  LM Facility  Library administrator functions       System ID : S0W1
9  IBM Products IBM program development products    MVS acct. : FB3
10 SCLM         SW Configuration Library Manager     Release . : ISPF 6.0
11 Workplace   ISPF Object/Action Workplace

          ----- Other Install Products -----

SD SDSF        System Display and Search Facility
IP IPCS        Inter Problem Control Facility
Option ==>
F1=Help       F2=Split       F3=Exit       F7=Backward  F8=Forward  F9=Swap
F10=Actions   F12=Cancel

```

IBM "Interactive System Productivity Facility" for OS/360 mainframe computers, ab 1974

Bildschirm- dialoge

Dialog Example Setup

Modify, Repair or Remove installation

Select the operation you wish to perform.

- Modify**
Allows users to change the way features are installed.
- Repair**
Repairs errors in the most recent installation state - fixes missing or corrupt files, shortcuts and registry entries.
- Remove**
Removes Dialog Example from your computer.

< Back Next > Cancel

Init Events Published Events Subscribed Events Control Conditions

Event	Argument	Condition
[InstallMode]	Change	1
[Progress1]	[CtrlEvtChanging]	1
[Progress2]	[CtrlEvtchanges]	1
[AI_INSTALL_MODE]	Change	1
NewDialog	CustomizeDlg	AI_MAINT

New...
Edit...
Up
Down
Remove

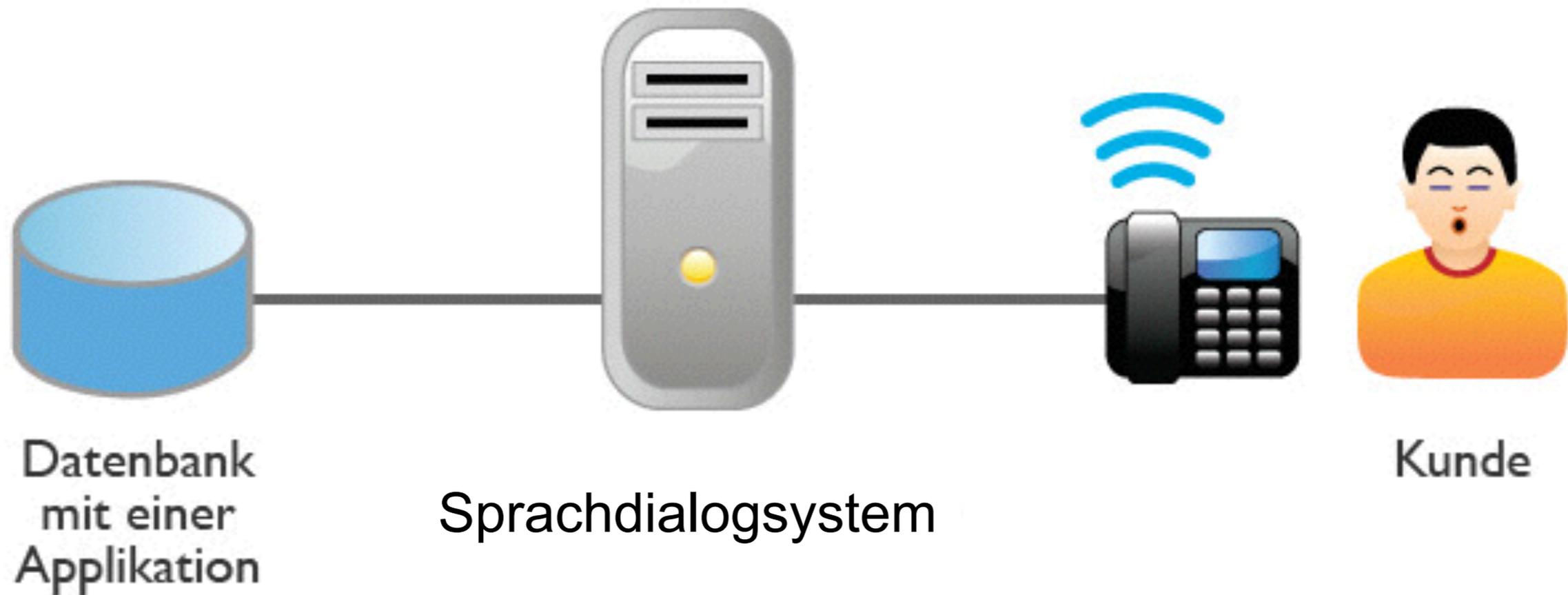
Properties

ChangeButton

- Identification**
Type: Push
Name: Chan
- Display**
Use Indirection: True
Indirect Property: Custo
- Attributes**
Visible: True
Sunken: False
Enabled: True
RTLRO: False
Button Type: Icon
Icon Size: Icon
Fixed Size: True
Elevation Shield: False
- Help**
Tooltip: Modf
- Layout**
X: 50
Y: 65
Width: 38
Height: 38

Project Saved 50, 65 38 x 38 272, 157

Sprachdialogsysteme



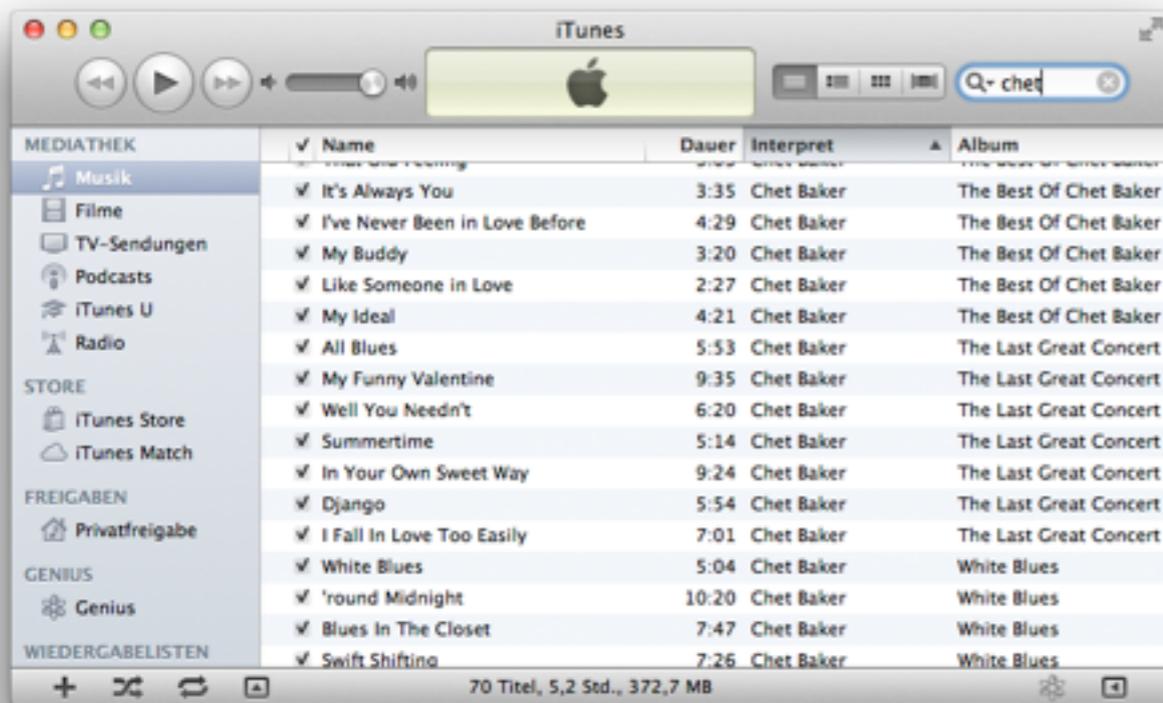
Dialog vs. Kommandos



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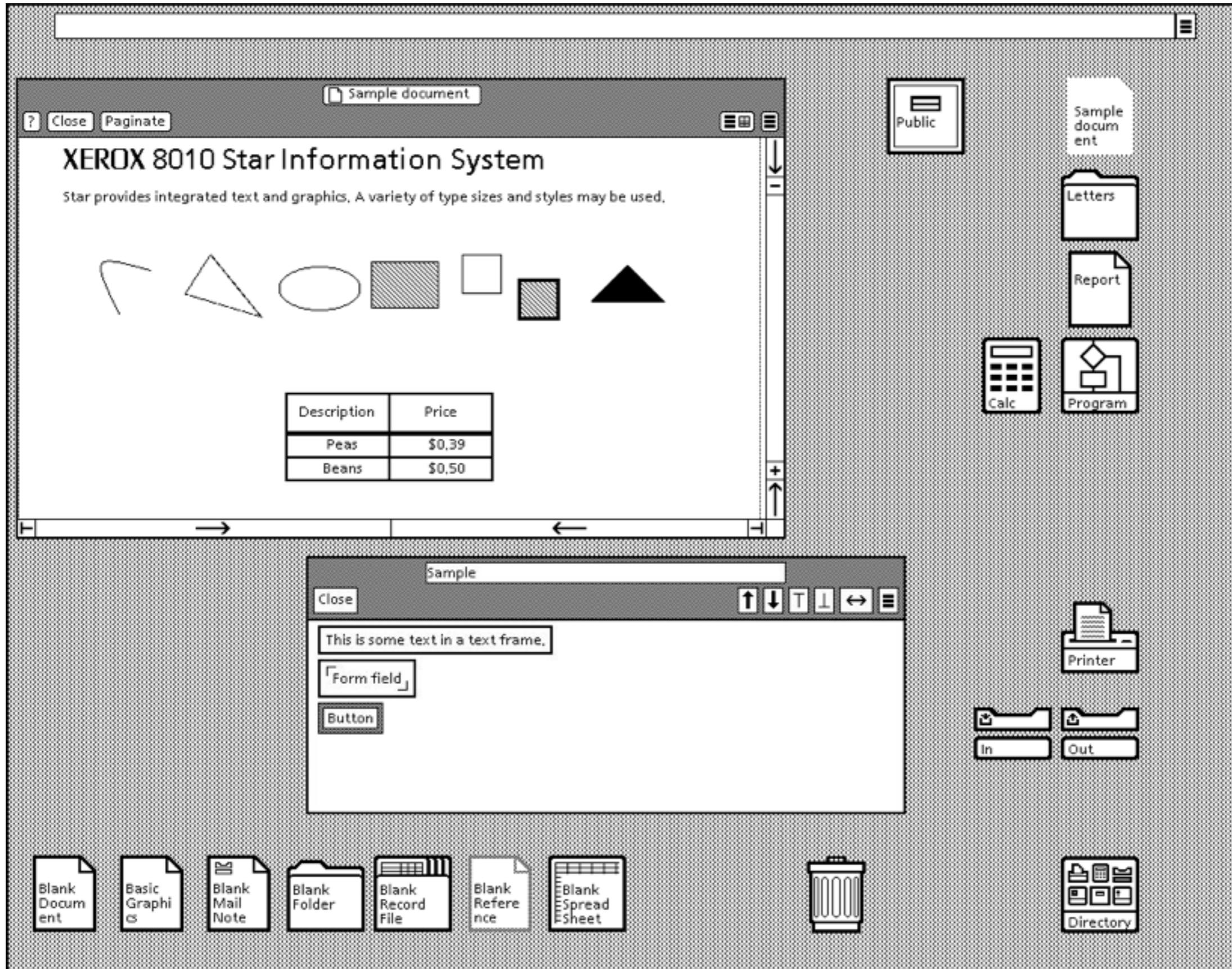
Suchen oder Stöbern?



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Das erste DMI Interface



3 Charakteristika von DMI

- **Visibility of Objects and Actions**
 - Sichtbarkeit aller Objekte und Aktionen
- **Rapid, reversible, incremental actions**
 - schnelle, umkehrbare, schrittweise ausführbare Aktionen
- **Replacement of complex command-language syntax with direct, visual manipulation of the object of interest**
 - direkte, visuelle Manip. der Objekte statt komplizierter Kommandos



http://upload.wikimedia.org/wikipedia/commons/thumb/b/b9/Ben_Shneiderman_at_UNCC.jpg/220px-Ben_Shneiderman_at_UNCC.jpg

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Infovis Beispiel: Paperlens

Home

Go

Popularity of Topic (152 papers)

User Study: Yes No Planned

Selected Authors Clear All

- S. K. Card Clear X
- J. Mackinlay Clear X
- George Robertson Clear X

Authors: 315

First Name	Last Name	# Pap..
George	Otto	1
Thomas	Overbye	1
Alex	Pang	2
Christian	Panse	1
J.	Paris	1
K.	Pennock	1
A.	Pernicks	1
Ken	Perrine	1
E.	Petajan	1
M.	Pichler	1
Linda	Pickle	2
Catherine	Plaisant	2
Zvi	Polunsky	1
M.	Pottier	1
Sandeep	Prabhakar	1
Pearl	Pu	1
R.	Rao	1
James	Rayson	1
Johan	Redstr?	2
K.	Reichenberg_	1
S.	Reiss	1
T.	Rhyne	1
Randy	Ribler	1
John	Riedl	2
D.	Roberts	1
E.	Robertson	2
George	Robertson	1
Kernv	Rordden	1

Degrees of Separation Links

From: ● S. K. Card To: ● 3 Allison Woodruff

```

graph TD
    A[S. K. Card] --> B["The structure of the information visualization design space (1997)"]
    B --> C[J. Mackinlay]
    C --> D["Visualizing Data with Bounded Uncertainty (2002)"]
    D --> E[Chris Olston]
    E --> F["Getting Portals to Behave (2000)"]
    F --> G[Allison Woodruff]
    
```

InfoVis Papers by George Robertson, J. Mackinlay, S. K. Card

Year	Title	Author
1997	The structure of the information visualization design ...	S. K. Card, J. Mackinlay
1999	Sensemaking of Evolving Web Sites Using Visualiz...	Ed Huai-hsin Chi, S. K. Card
1999	Constellation: A Visualization Tool for Linguistic Qu...	T. Munzner, Francois Guimbretiere, George ...
2002	Visualizing Data with Bounded Uncertainty	Chris Olston, J. Mackinlay

Year by Year Top 10 Cited Papers

Overall ■ CHI ■ InfoVis ■ Etc

leider kein Video zu Paperlens...

raunk.com/histcompare/1?users=2,3

raunk Search + Create a List Jeremy

Best Movies

Jeremy Keeshin x Zach Galant x

0 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6 7 8 9

+ Add Another User

Images: Click the number at the bottom of a column to highlight the entire column.

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