

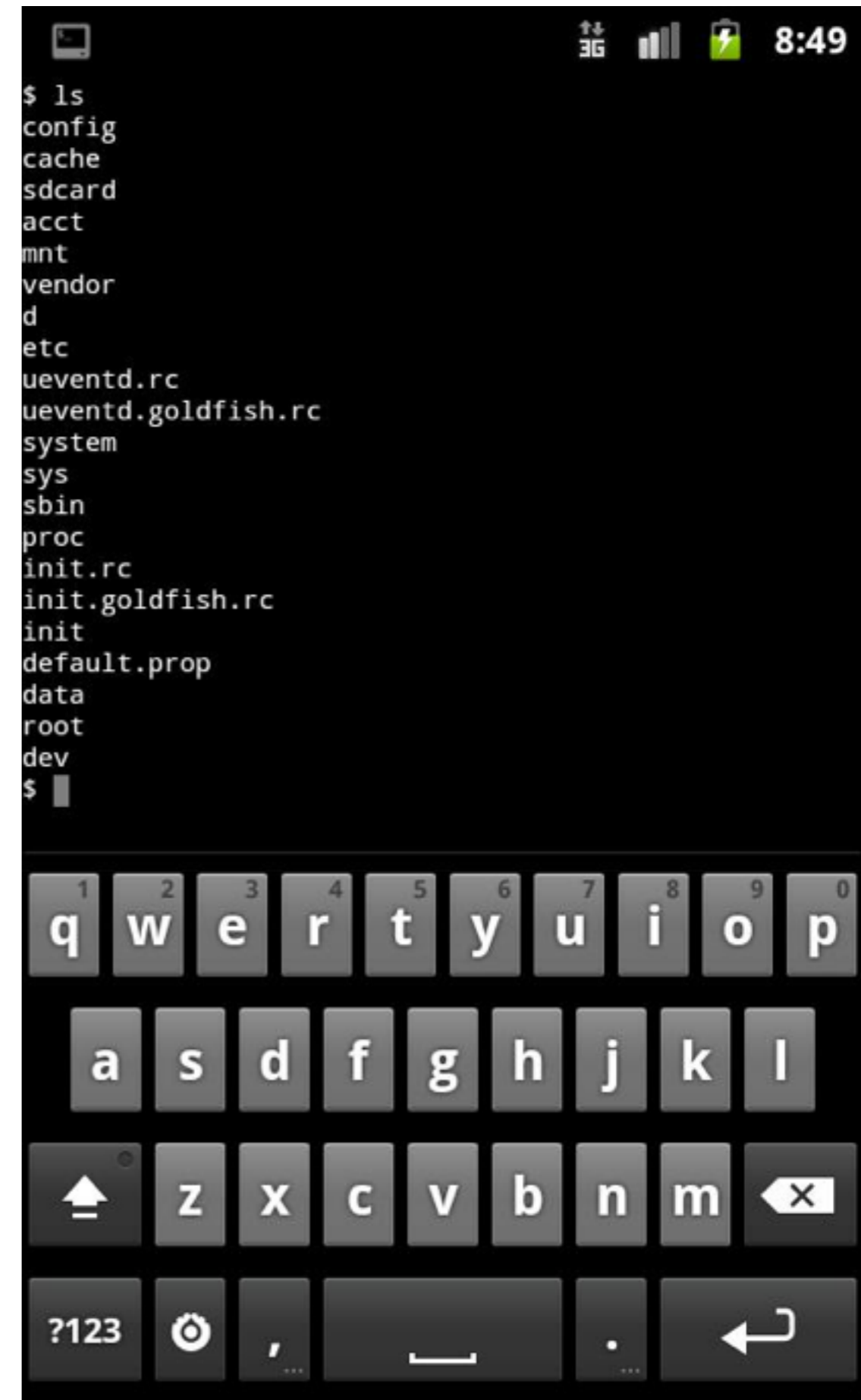
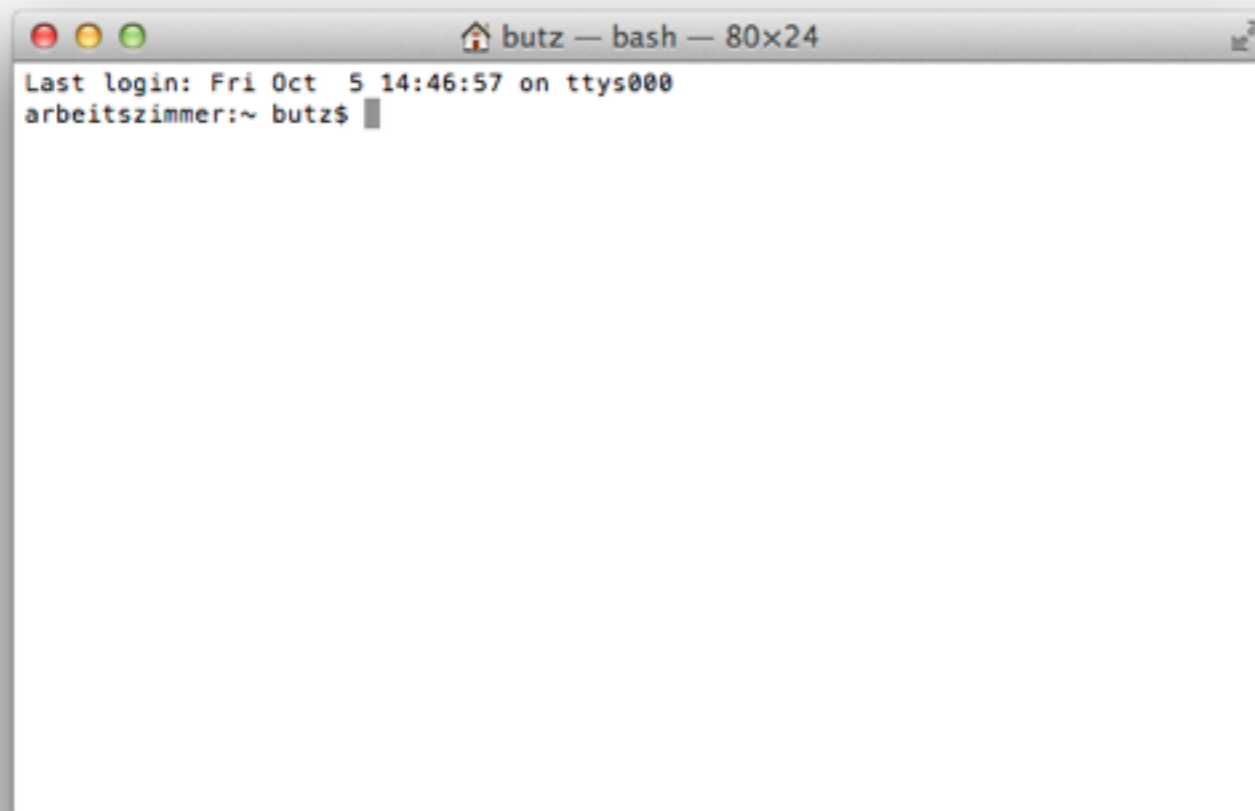
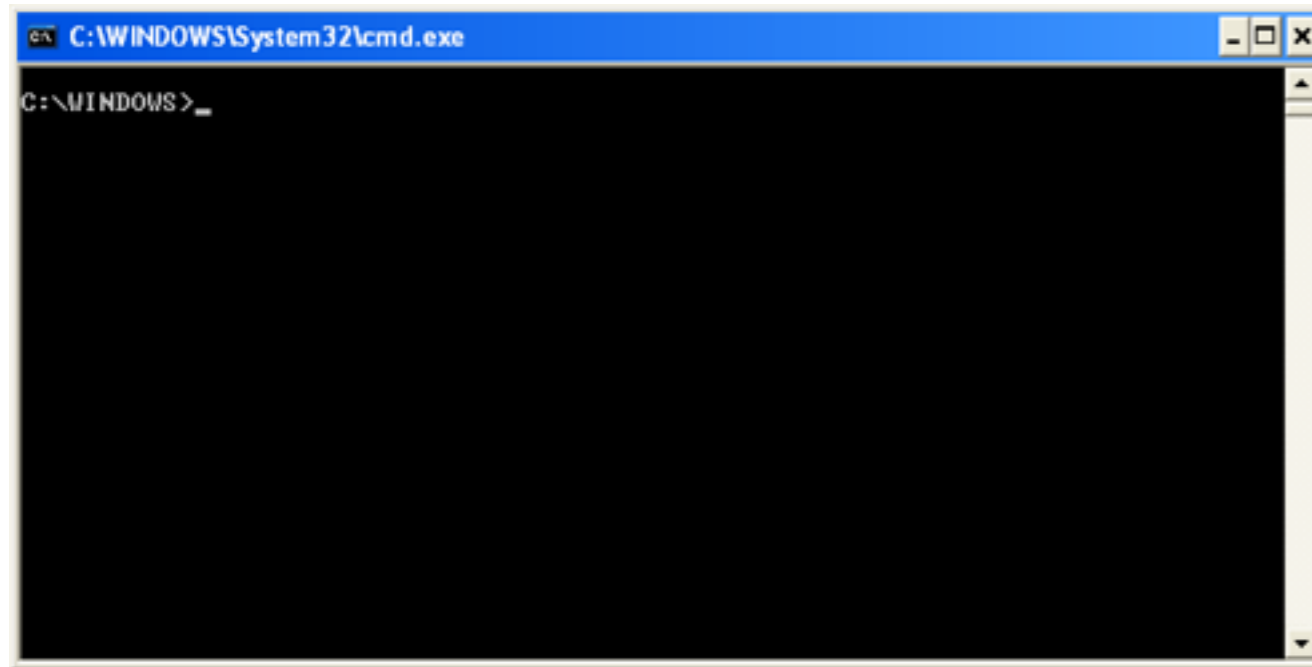
Mensch-Maschine-Interaktion



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.

Install Sequence

- EXE Bootstrapper
 - Bootstrapper UI
- MSI Package
 - First Time Install
 - PrepareDlg
 - WelcomeDlg
 - FolderDlg
 - VerifyReadyDlg
 - ProgressDlg
 - ExitDialog
 - Maintenance
 - PrepareDlg
 - MaintenanceWelcomeDlg
 - MaintenanceTypeDlg
 - CustomizeDlg
 - VerifyReadyDlg
 - ProgressDlg
 - ExitDialog
 - Patch
 - PrepareDlg
 - PatchWelcomeDlg
 - VerifyReadyDlg
 - ProgressDlg
 - ExitDialog
 - Resume
 - PrepareDlg
 - ResumeDlg
 - ProgressDlg
 - ExitDialog
 - Administrative Dialogs
 - Special Dialogs
 - Unused Dialogs

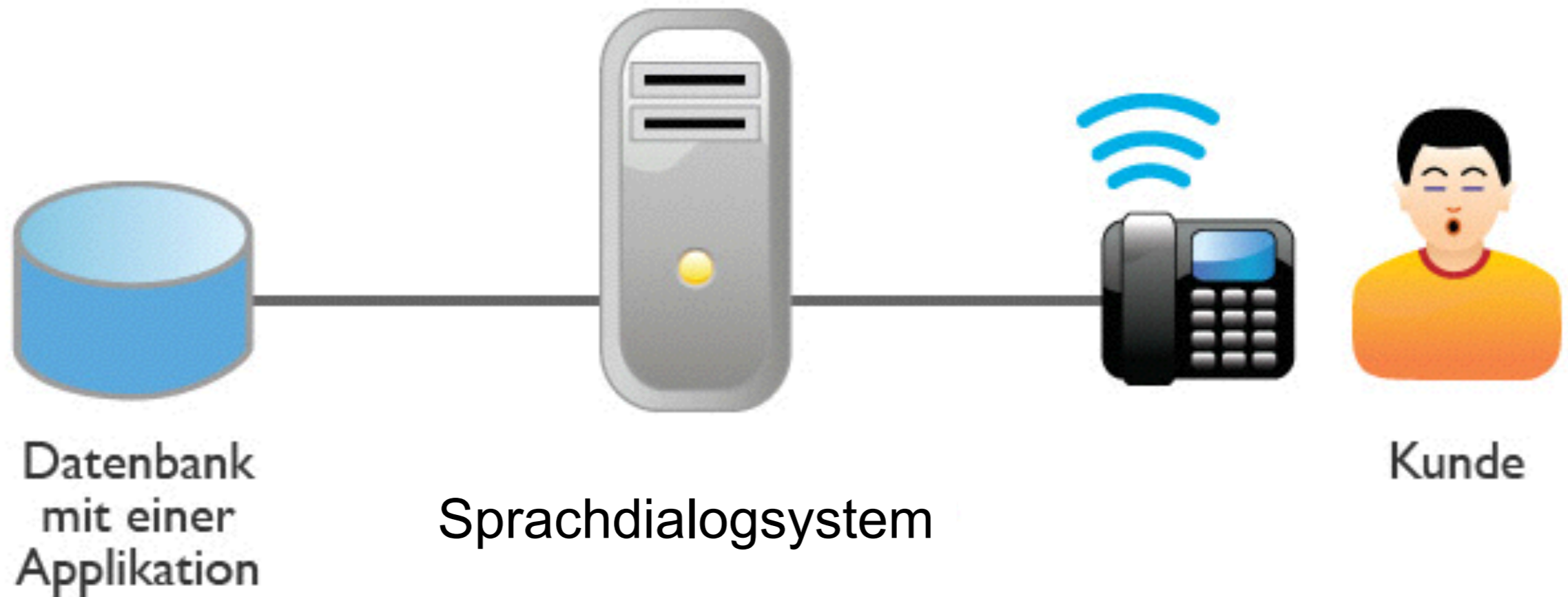
Properties

- 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: Modif
- Layout**
 - X: 50
 - Y: 65
 - Width: 38
 - Height: 38

Init Events

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

Sprachdialogsysteme



Sprachassistenten



<https://jaxenter.de/sprachassistenten-hype-alexa-siri-cortana-71872>

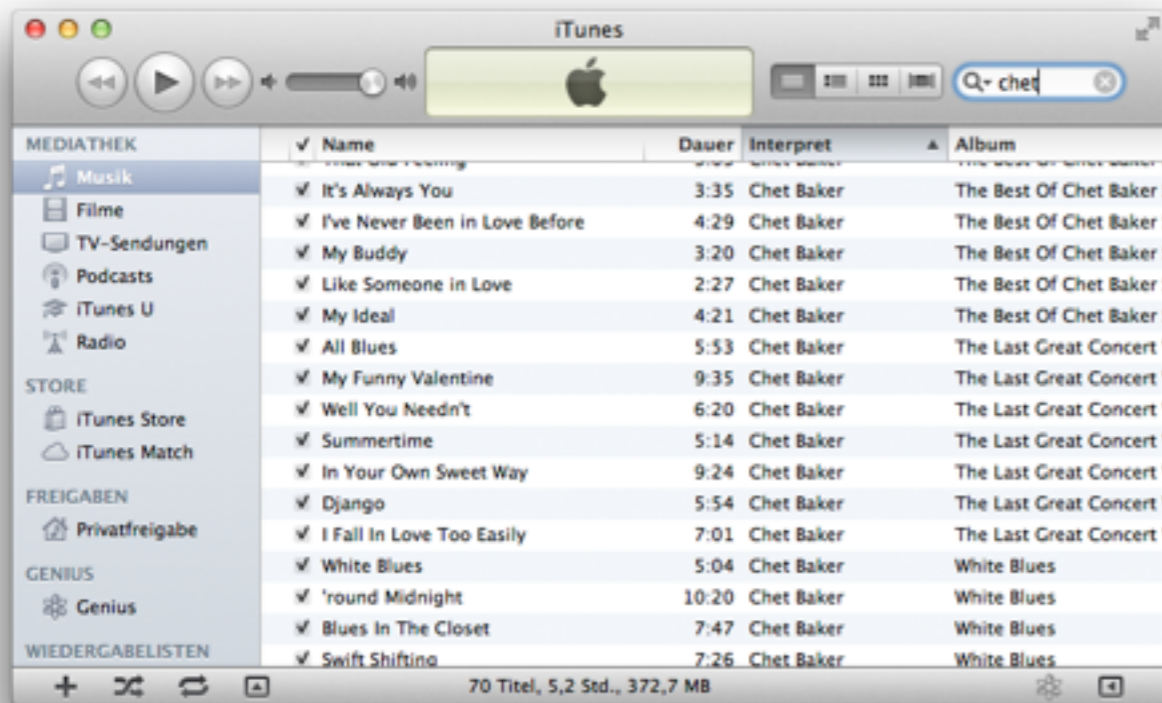
Dialog vs. Kommandos



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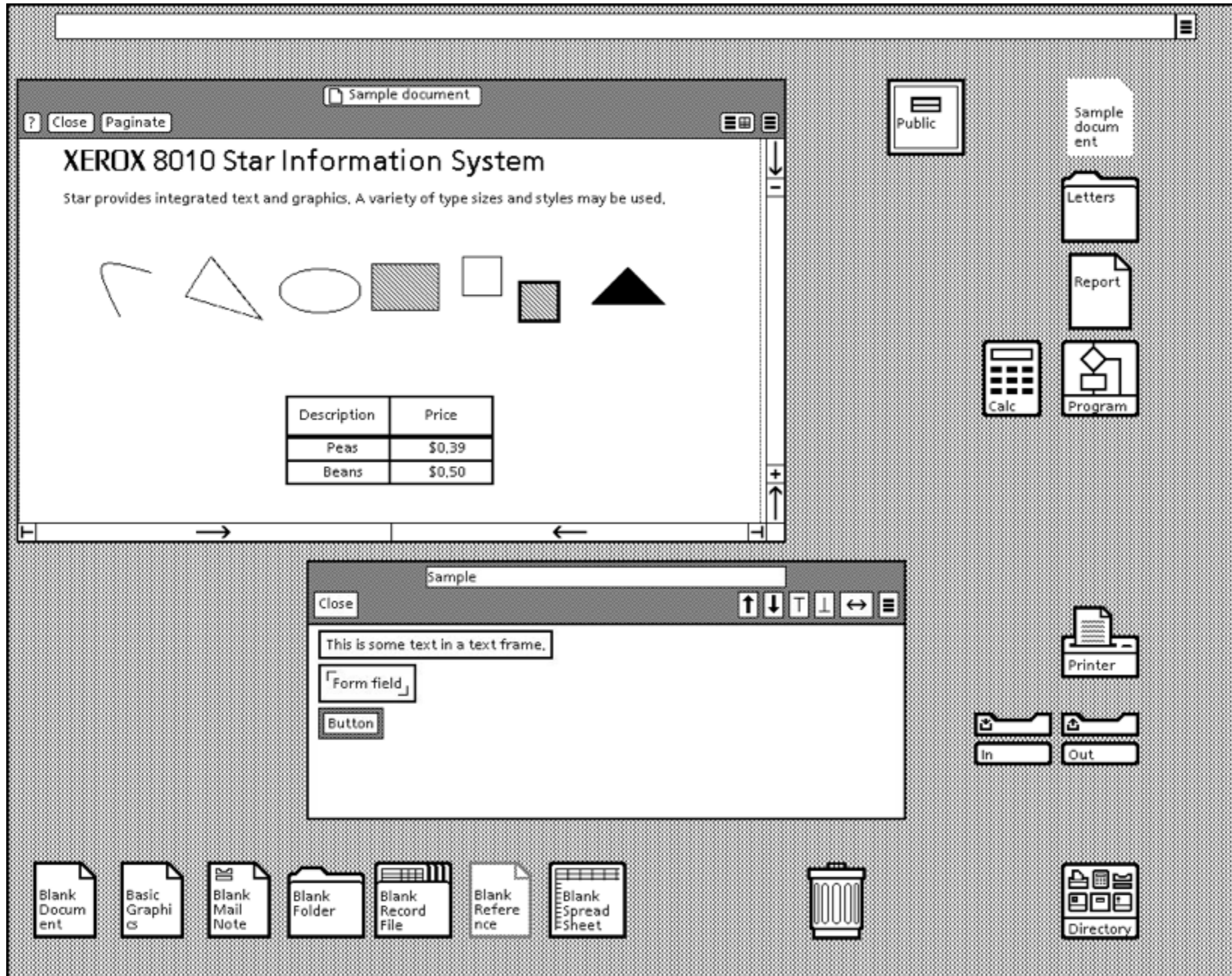
Suchen oder Stöbern?



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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

- 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.	Rhyme	1
Randy	Ribler	1
John	Riedl	2
D.	Roberts	1
E.	Robertson	2
George	Robertson	1
Kerry	Rodden	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
1	1	1	1
2	1	2	1
3	8	3	5
4	2	5	8
5	3	7	4
6	7	8	7
7	10	10	8
8	10	8	4
9	6	5	6
10	6	10	10

leider kein Video zu Paperlens...

The screenshot shows a web browser window with several tabs open, including 'Raunk - Jeremy Keeshin', 'Raunk', 'Raunk - Best Movies', and 'Raunk - Best Beers'. The main content area displays a comparison of movie preferences for two users: Jeremy Keeshin and Zach Galant. The interface features a search bar, a 'Create a List' button, and a user profile dropdown for 'Jeremy'. The comparison is visualized as two vertical columns of movie posters, each corresponding to a user's top-rated movies. The x-axis at the bottom of each column is labeled with numbers 0 through 9, representing the rank of the movies. Below the comparison, there is a '+ Add Another User' button and a section for 'Images' with a checked checkbox and a note: 'Click the number at the bottom of a column to highlight the entire column.' The footer contains the Raunk logo, copyright information (© 2011), and links to 'Have comments? We'd love to hear.', 'team@raunk.com', 'Blog', 'Facebook', 'Twitter', 'Terms of Service', and 'Privacy Policy'. A 'Feedback' button is visible on the left side of the page.