

# Mensch-Maschine-Interaktion



# JOBMESSEN SoSe 2016

**BRANCHENTREFF  
MEDIEN  
14.06.2016**

**medien**

**KARRIEREFORUM  
15.06.2016**



**karriere forum**

**BRANCHENTREFF  
IT & COMMUNICATIONS  
16.06.2016**

**it  
&  
communications**

- CV CHECKS
- EINZELGESPRÄCHE
- BEWERBUNGSFOTOS
- COMPANY INSIGHTS
- TOP UNTERNEHMEN

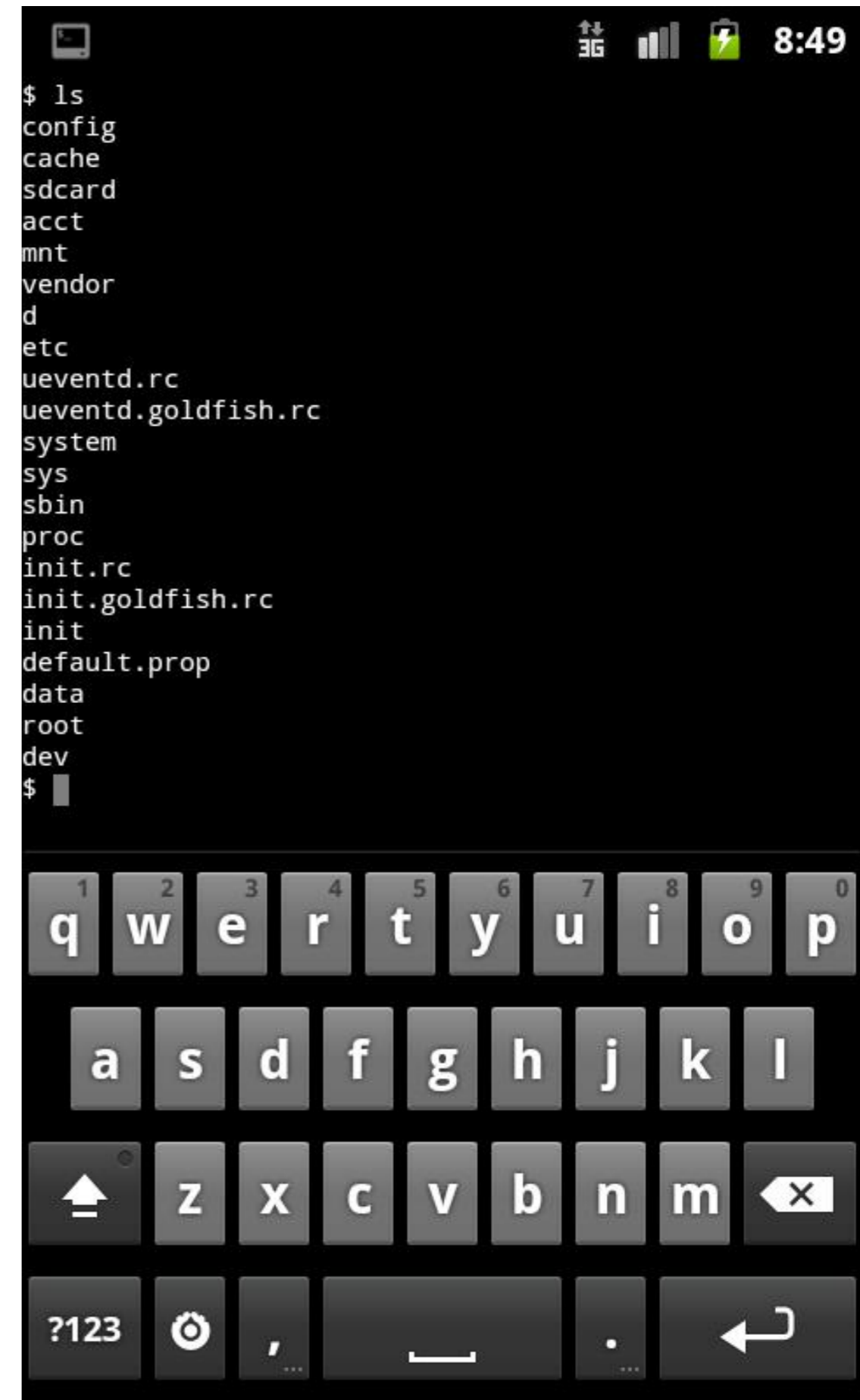
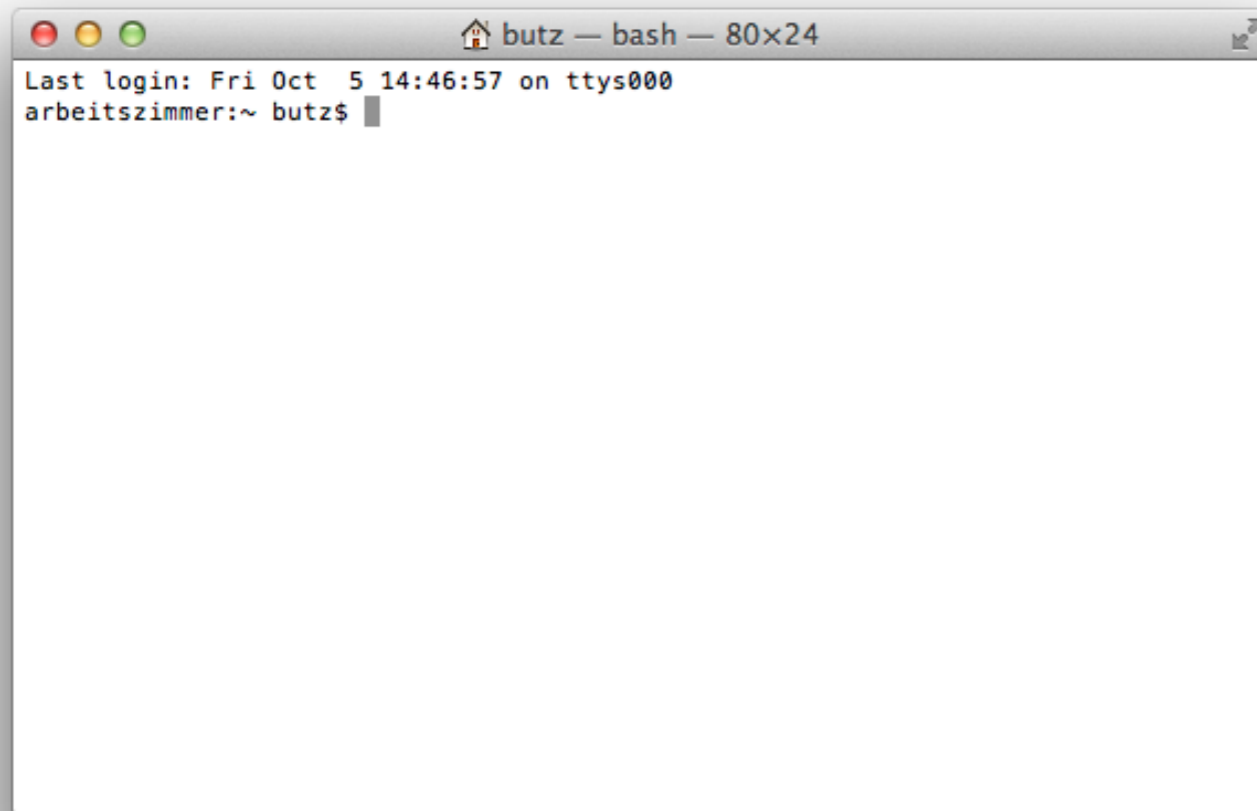
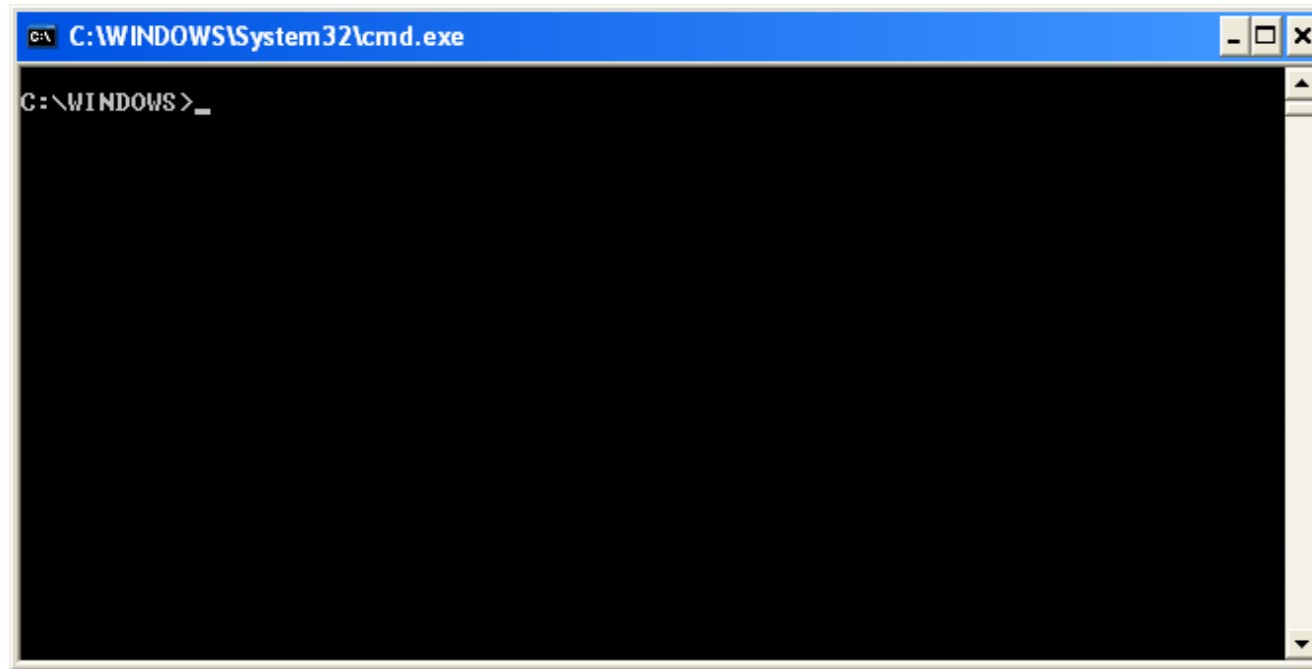
**10:00 BIS 16:00 UHR  
IM LICHTHOF DER LMU**



# 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.

**Toolbox**

**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

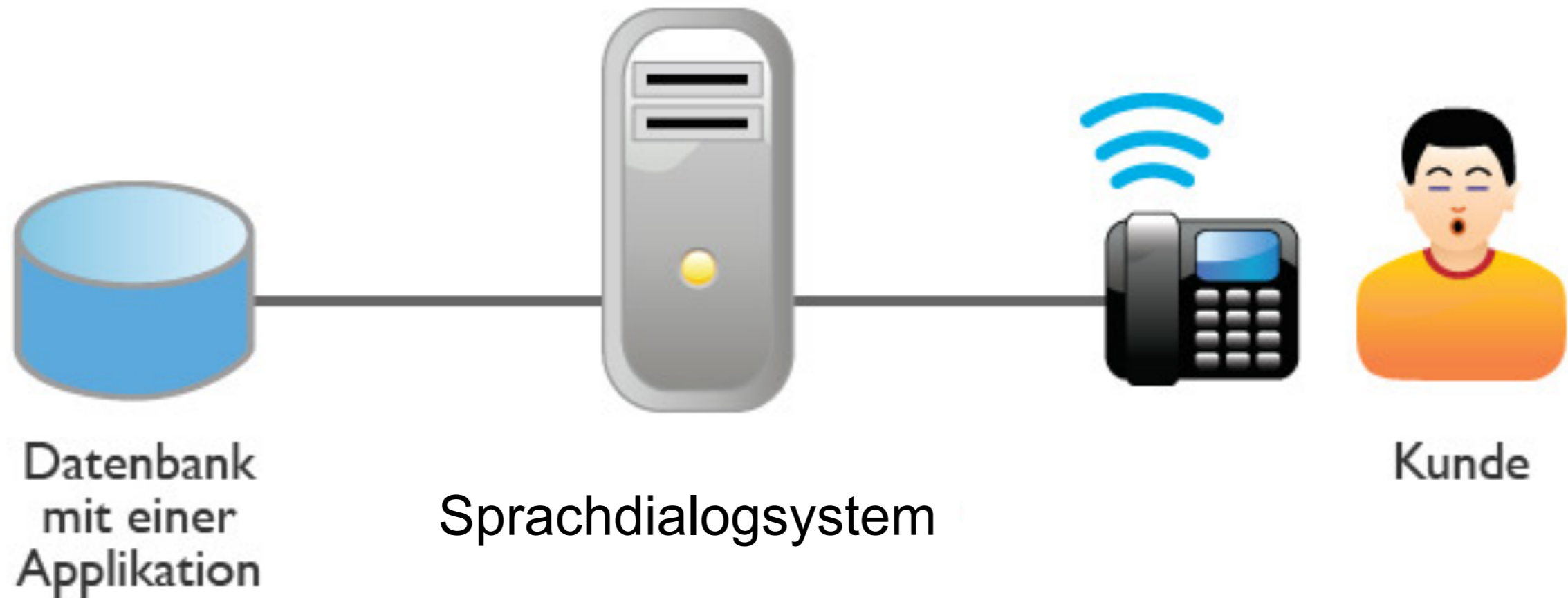
**Init Events | Published Events | Subscribed Events | Control Conditions**

Event	Argument	Condition
[InstallMode]	Change	1
[Progress 1]	[CtrlEvtChanging]	1
[Progress 2]	[CtrlEvtchanges]	1
[AI_INSTALL_MODE]	Change	1
NewDialog	CustomizeDlg	AI_MAINT

Project Saved | 50, 65 | 38 x 38 | 272, 157



# Sprachdialogsysteme



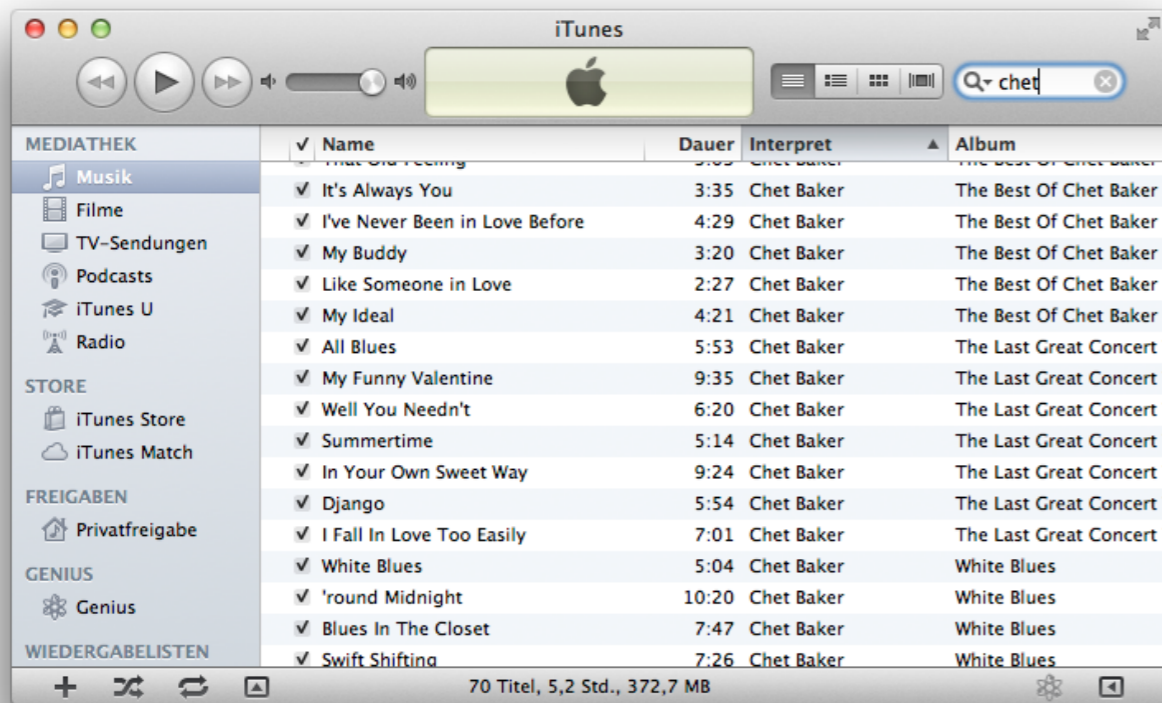
# Dialog vs. Kommandos



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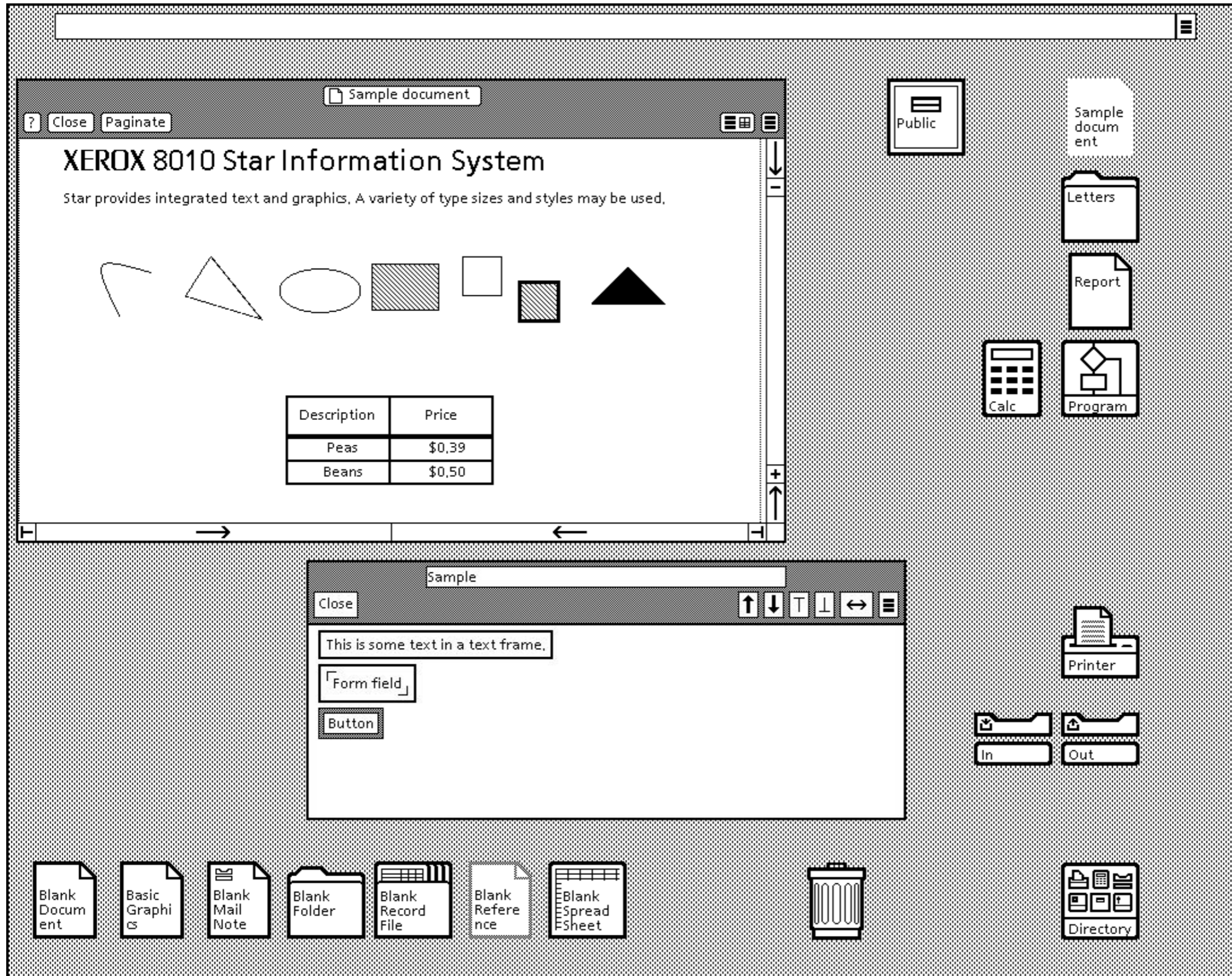
# Suchen oder Stöbern?



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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](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

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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.	Rhyn	1
Randy	Ribler	1
John	Riedl	2
D.	Roberts	1
E.	Robertson	2
George	Robertson	1
Kerrv	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**

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 10

CHI

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 10

InfoVis

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 10

Etc

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 10

# Infovis Beispiel: Paperlens



# 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 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 ranking. Below the comparison, there is a '+ Add Another User' button and a note about images: 'Images:  Click the number at the bottom of a column to highlight the entire column.' The footer contains copyright information for Raunk © 2011 and links to team@raunk.com, Blog, Facebook, Twitter, Terms of Service, and Privacy Policy.