

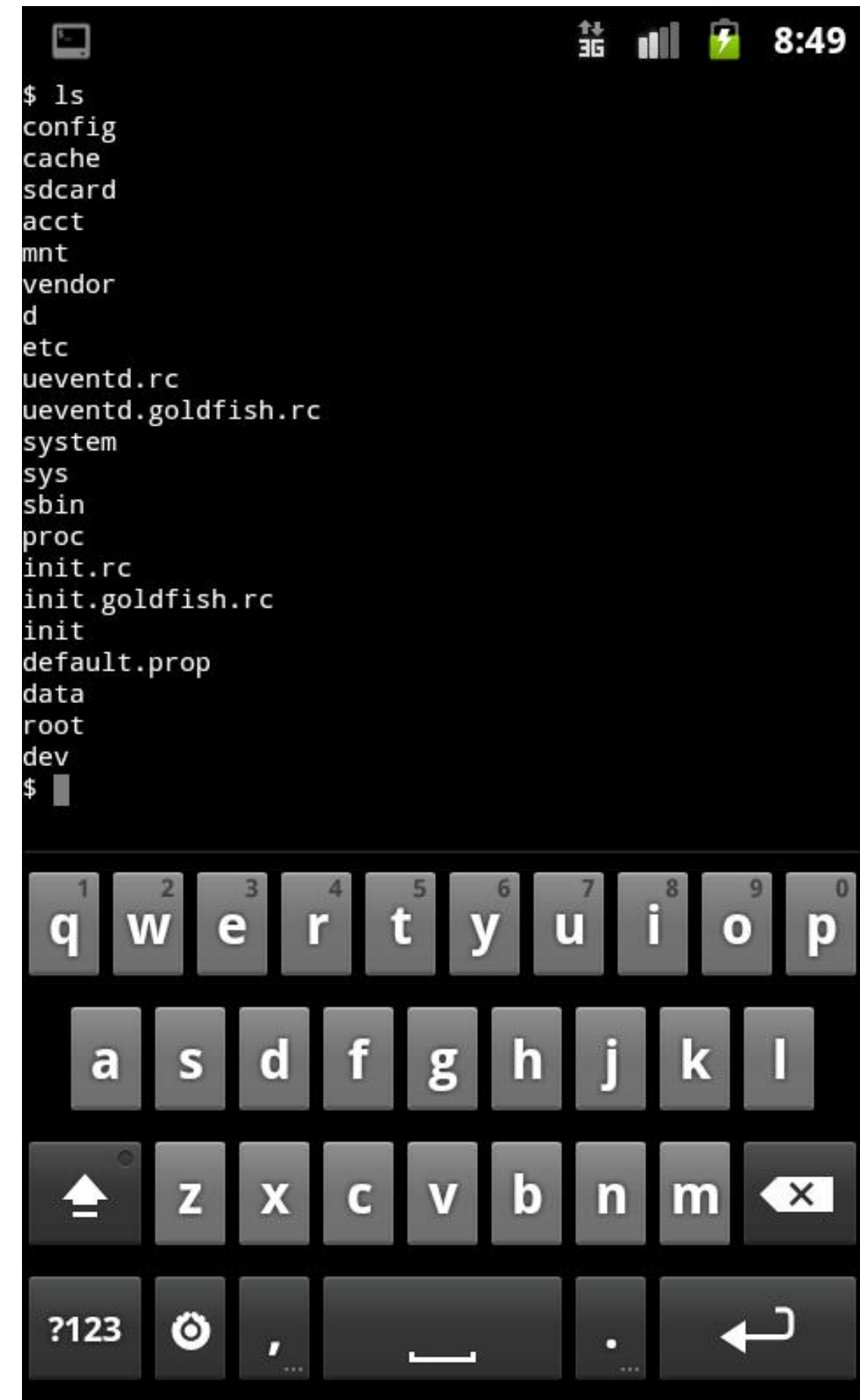
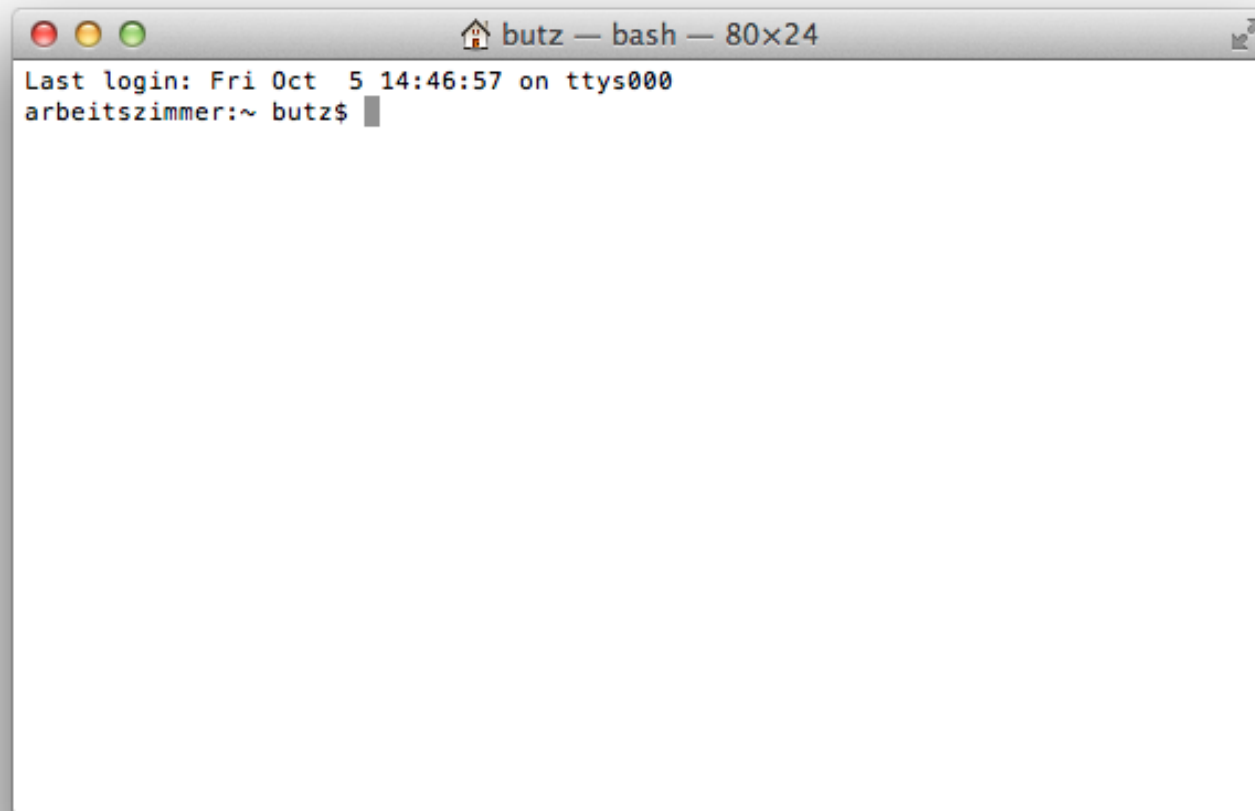
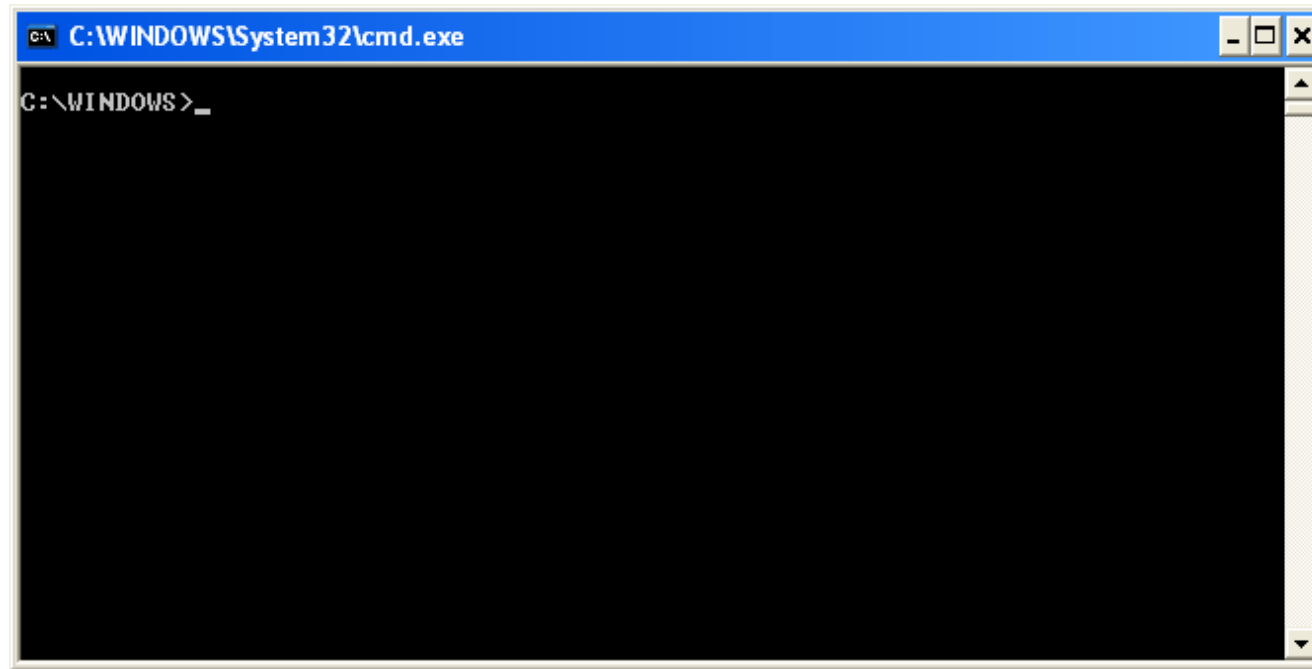
Mensch-Maschine-Interaktion



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.

Toolbox

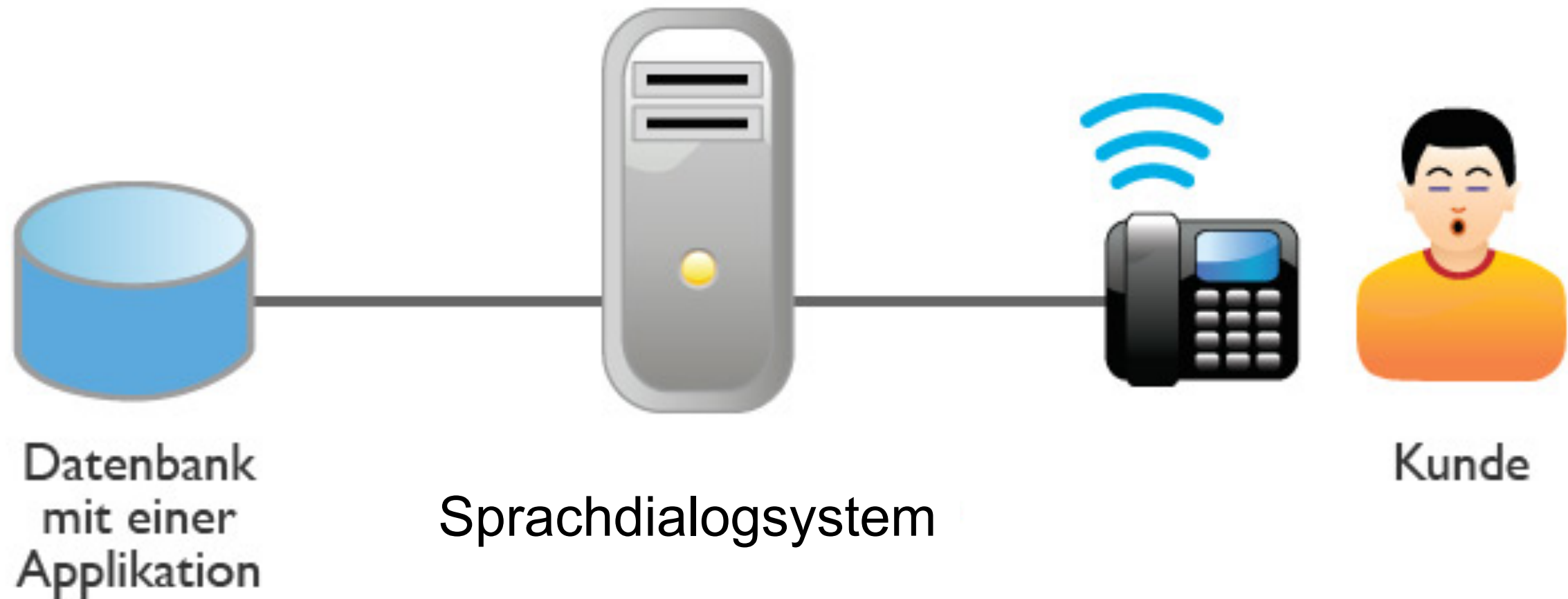
Properties

Property	Value
Type	Push
Name	Chan
Use Indirection	True
Indirect Property	Custo
Visible	True
Sunken	False
Enabled	True
RTLRO	False
Button Type	Icon
Icon Size	Icon
Fixed Size	True
Elevation Shield	False
Tooltip	Modif
X	50
Y	65
Width	38
Height	38

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



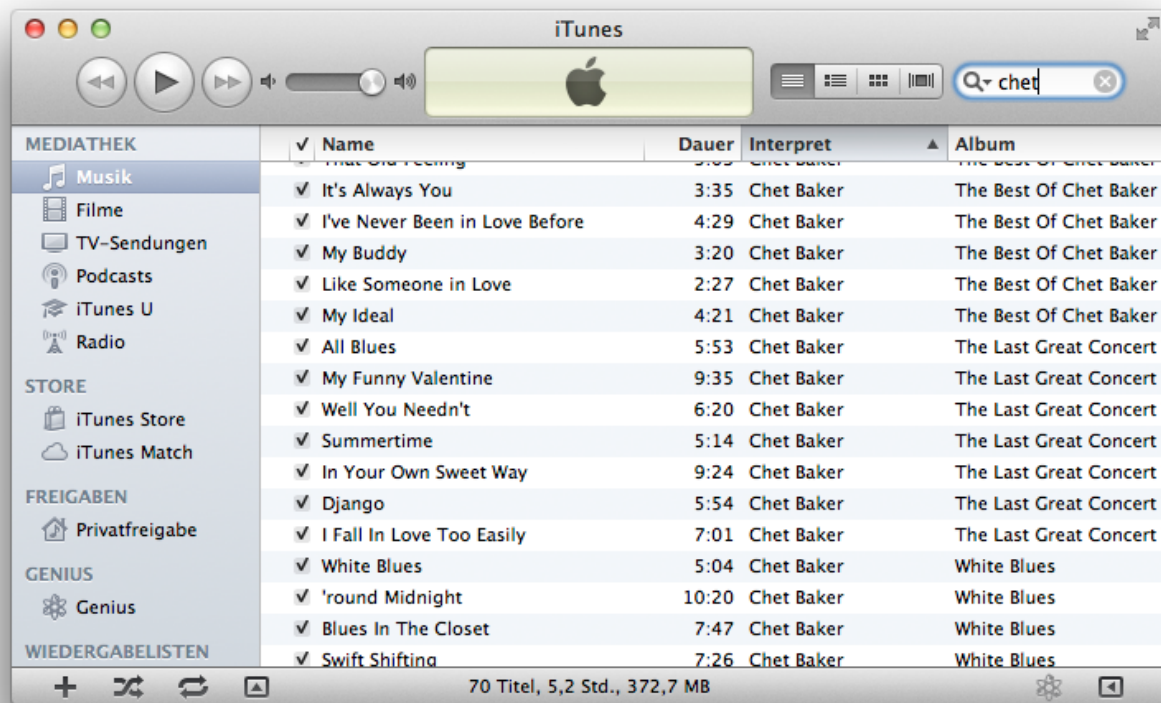
Dialog vs. Kommandos



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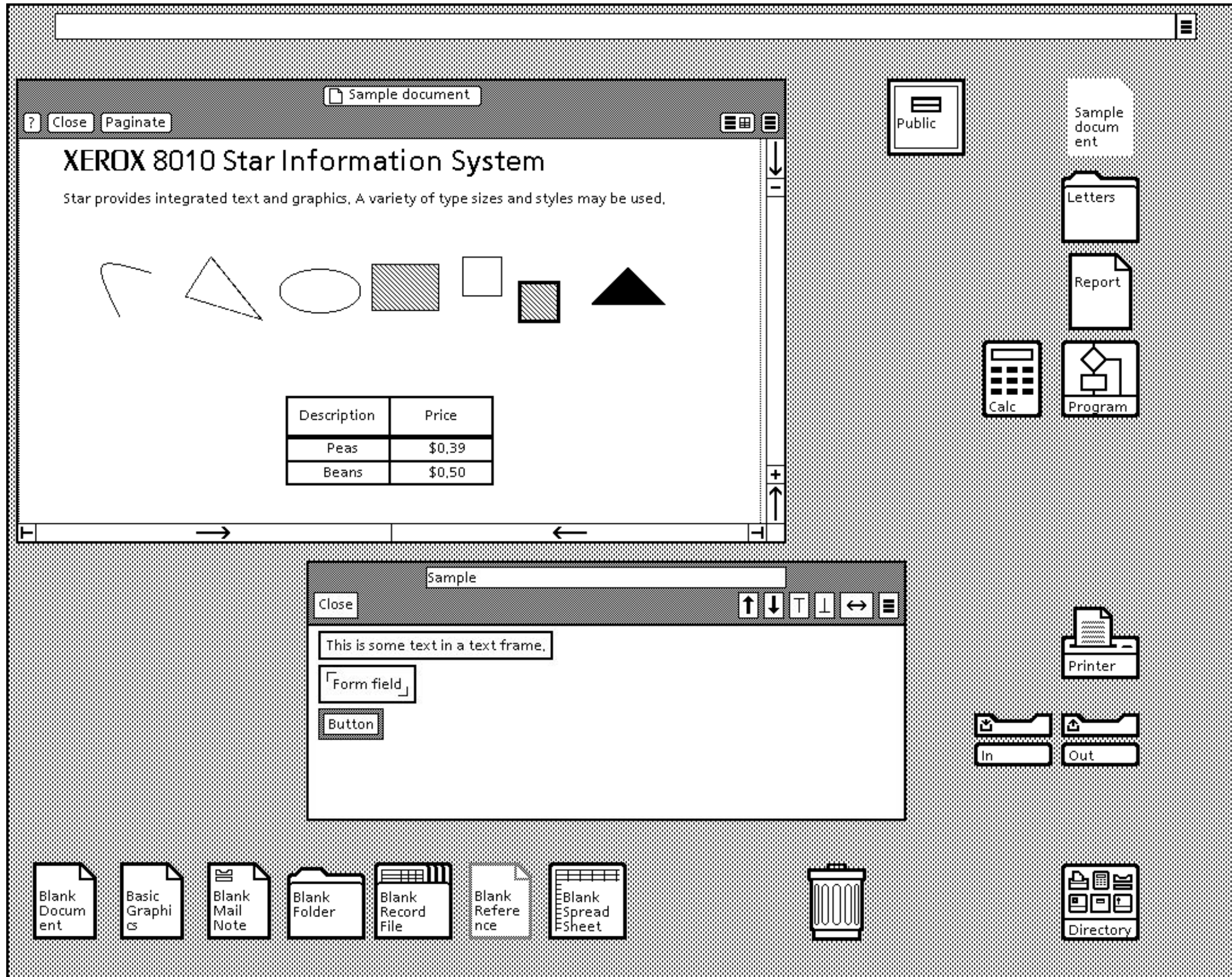
Suchen oder Stöbern?



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Das erste DM Interface



3 Charakteristika von DMI

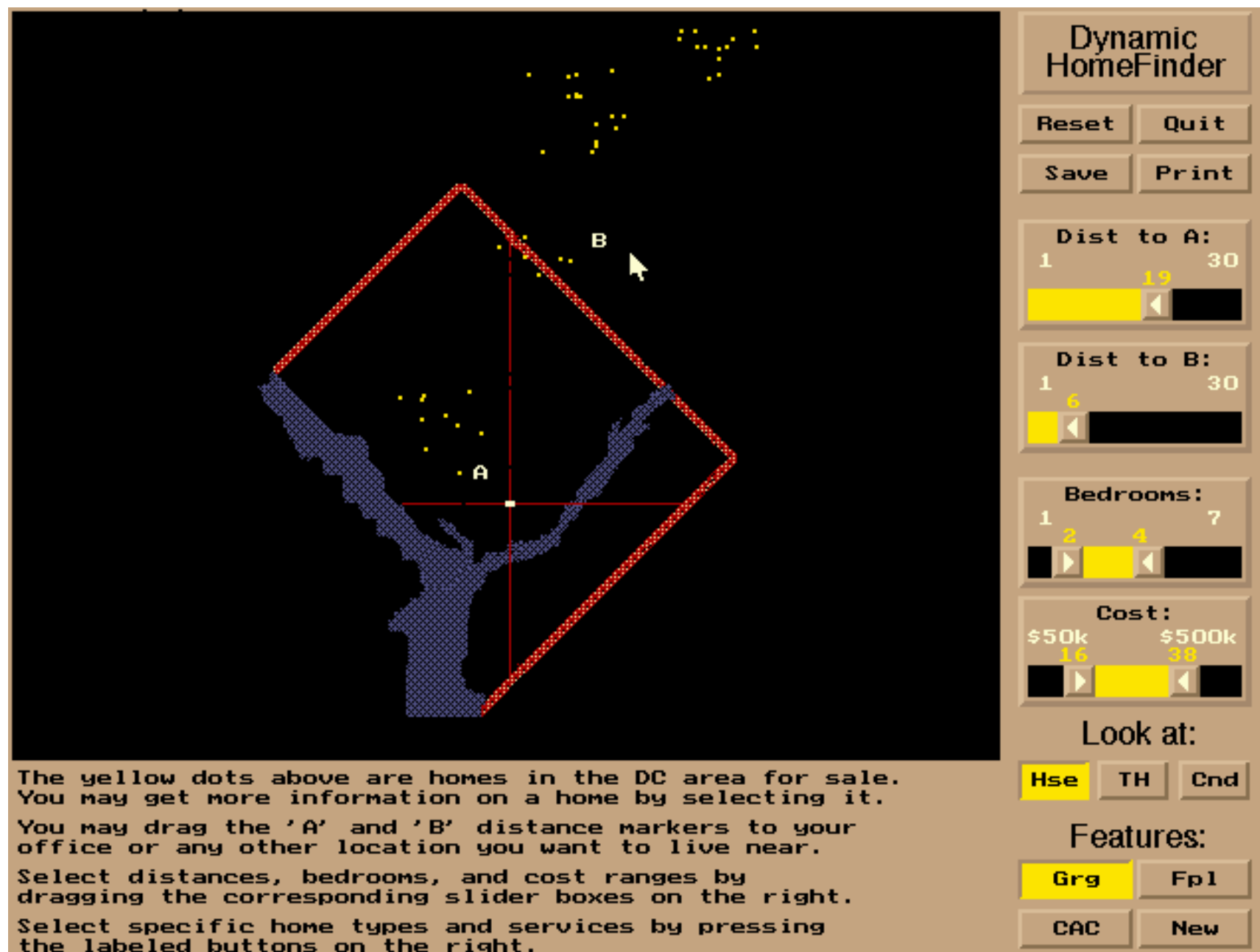
- **Visibility of Objects and Actions**
 - Sichtbarkeit aller Objekte und Aktionen
- **Rapid, reversible, incremental actions**
 - schnelle, umkehrbare, schrittweise ausführbare Aktionen
- **Replacement of complex command-language syntax with direct, visual manipulation of the object of interest**
 -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

HomeFinder

- Eines der ersten DQ Interfaces
- Williamson & Shneiderman 1983(!)



The yellow dots above are homes in the DC area for sale. You may get more information on a home by selecting it. You may drag the 'A' and 'B' distance markers to your office or any other location you want to live near. Select distances, bedrooms, and cost ranges by dragging the corresponding slider boxes on the right. Select specific home types and services by pressing the labeled buttons on the right.

Dynamic HomeFinder

Reset Quit

Save Print

Dist to A:
1 19 30

Dist to B:
1 6 30

Bedrooms:
1 2 4 7

Cost:
\$50k 16 \$500k 38

Look at:
Hse TH Cnd

Features:
Grg Fp1
CAC New



This graph shows the network structure. The nodes are represented by small white dots. The edges are represented by thin lines. The red diamond shape highlights a specific cluster of nodes. The blue structure within the diamond represents a specific network component or flow.

Dynamic Network

Reset | Back

Zoom | Fit

Scale: 100%

Scale: 100%

Zoom: 100%

Scale: 100%

Zoom: 100%

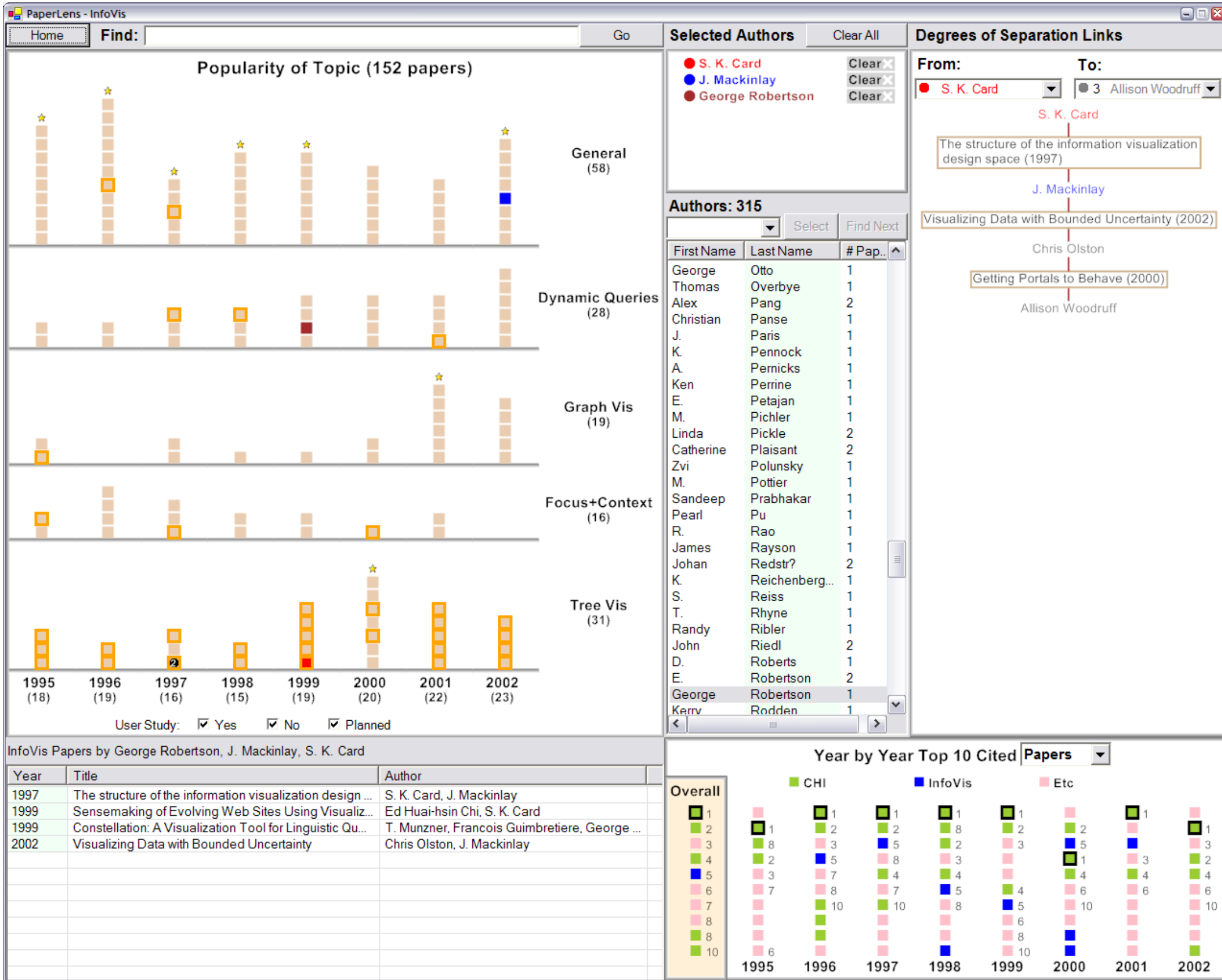
Zoom: 100%

Zoom: 100%

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Infovis Beispiel: Paperlens



Infovis Beispiel: Paperlens



Weiteres Beispiel: raunk

The screenshot shows the raunk.com website interface. At the top, there are browser tabs for 'Raunk - Jeremy Keeshin', 'Raunk', 'Raunk', 'Raunk - Best Movies', and 'Raunk - Best Beers'. The address bar shows 'raunk.com/histcompare/1?users=2,3'. The main content area is titled 'Best Movies' and compares two users: Jeremy Keeshin and Zach Galant. Each user's preference is represented by a vertical bar chart where the height of the bar indicates the number of movies rated with a specific score (from 0 to 9). The x-axis for each chart is labeled with the scores 0 through 9. Below the charts is a '+ Add Another User' button. At the bottom, there is a note: 'Images: Click the number at the bottom of a column to highlight the entire column.'

Feedback

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