

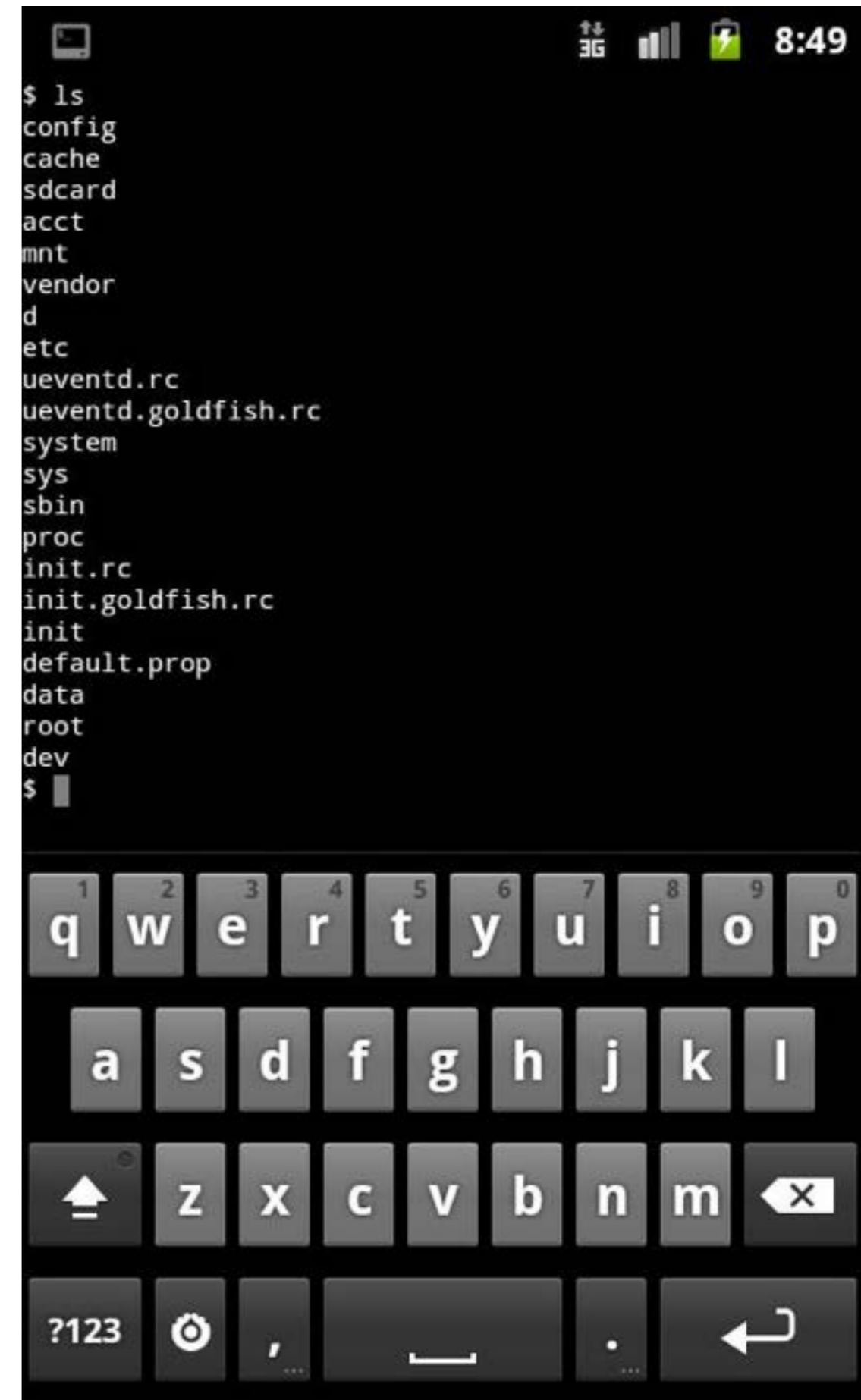
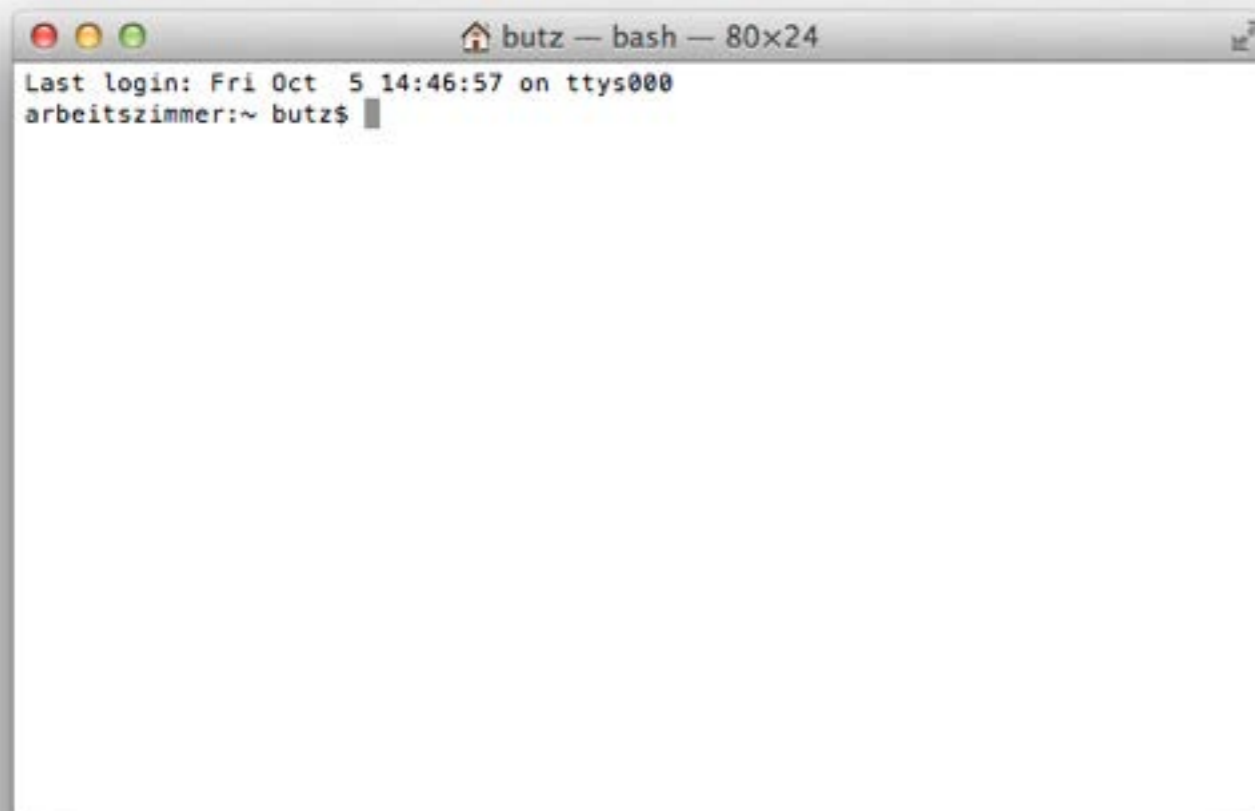
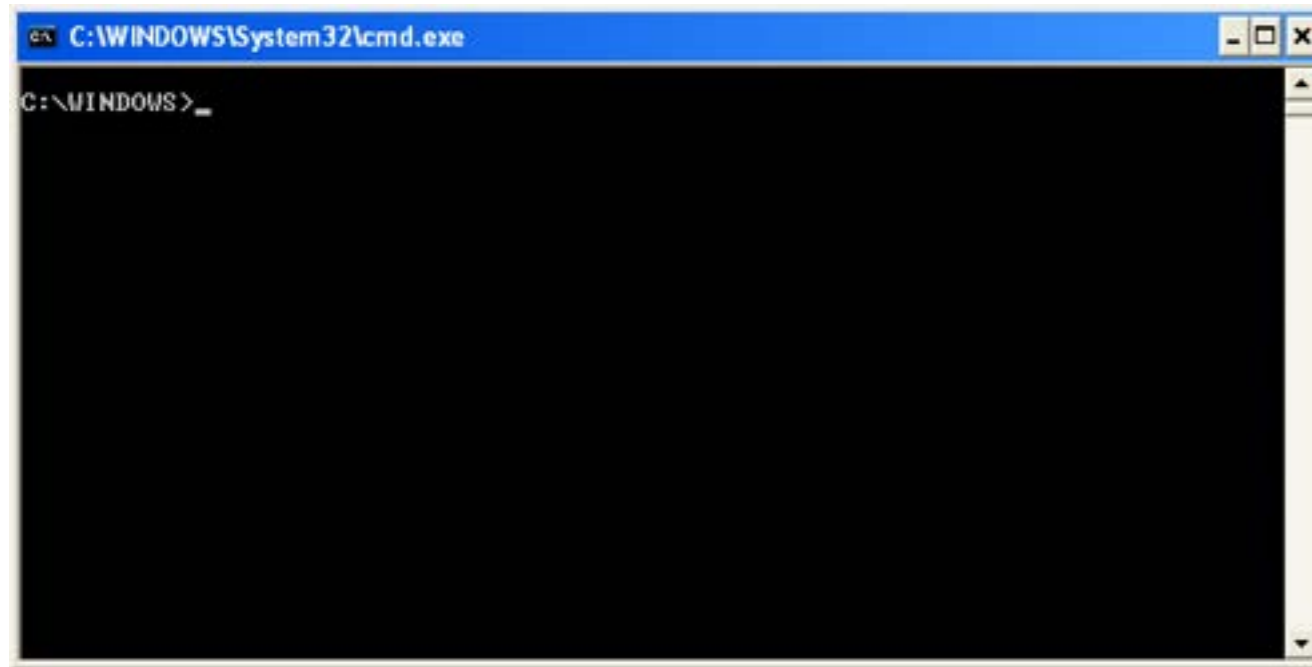
Mensch-Maschine-Interaktion



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

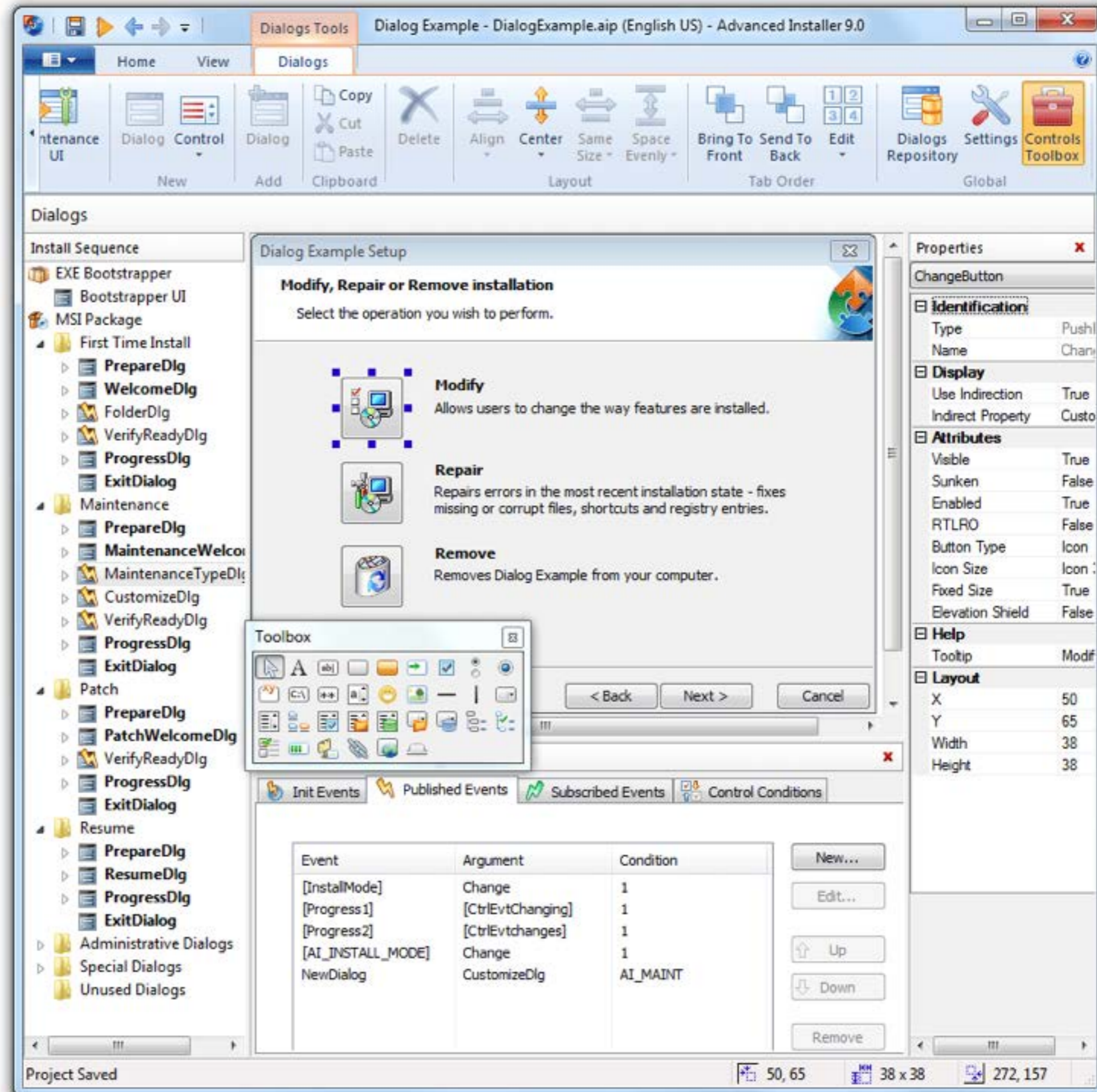
----- Other Install Products -----

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

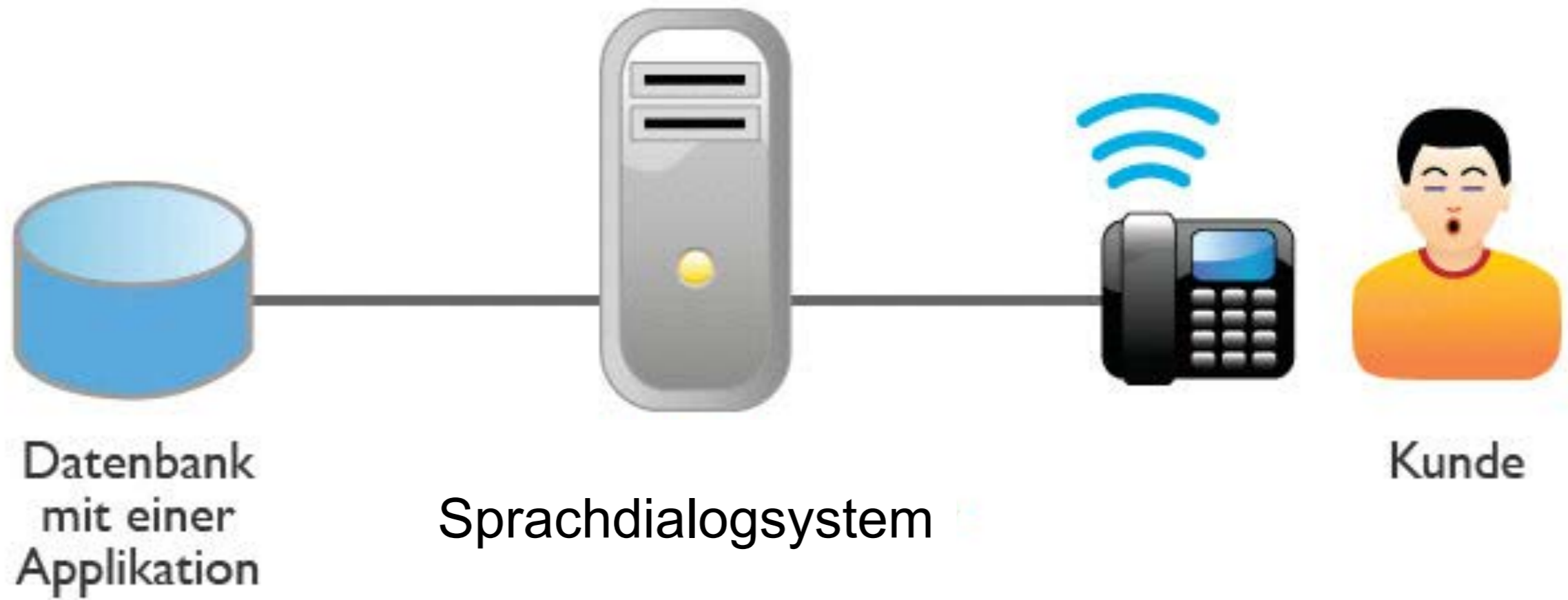
```

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

Bildschirm-dialoge



Sprachdialogsysteme



Sprachassistenten



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

Dialog vs. Kommandos



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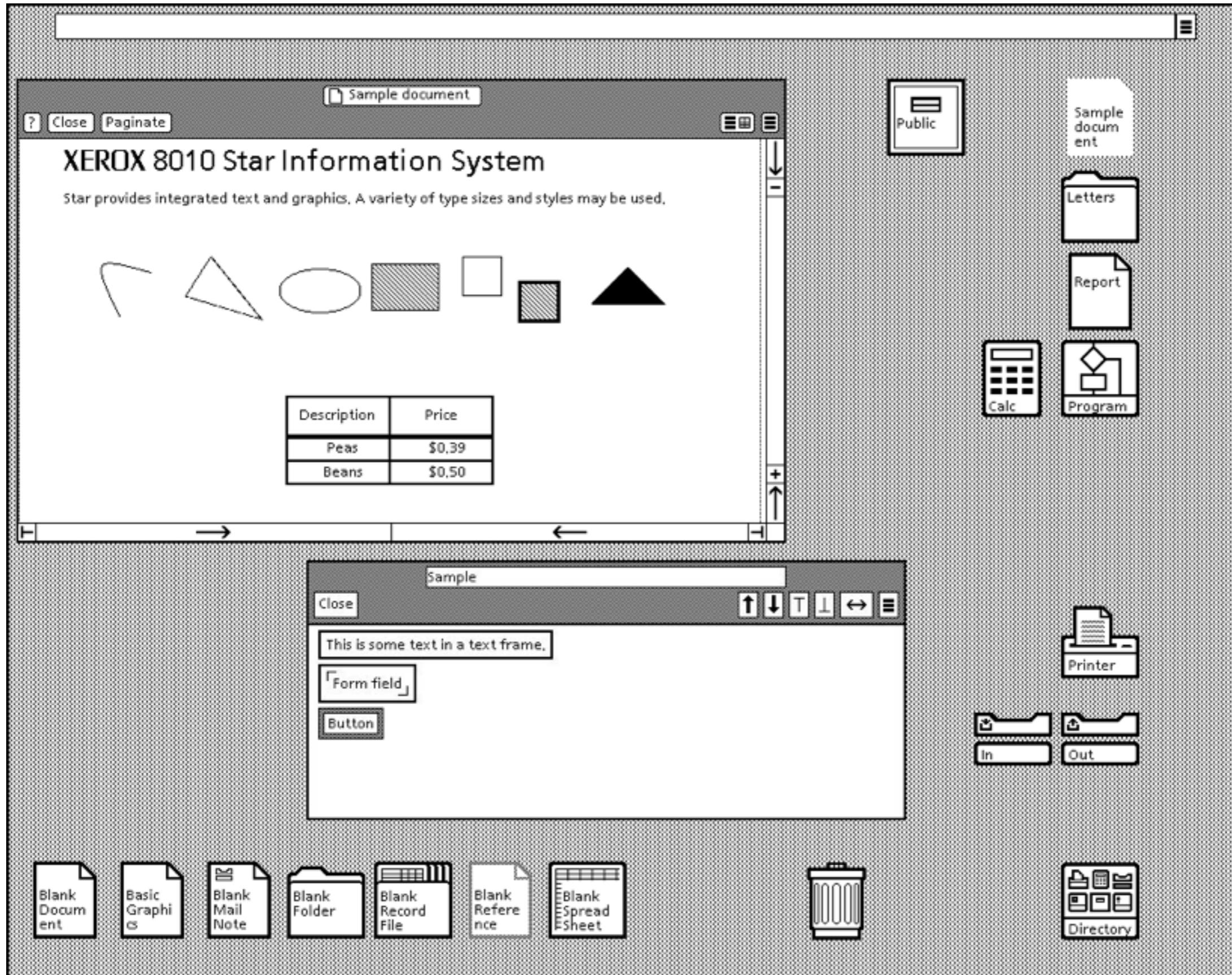
Suchen oder Stöbern?



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- **Direkte Manipulation**
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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

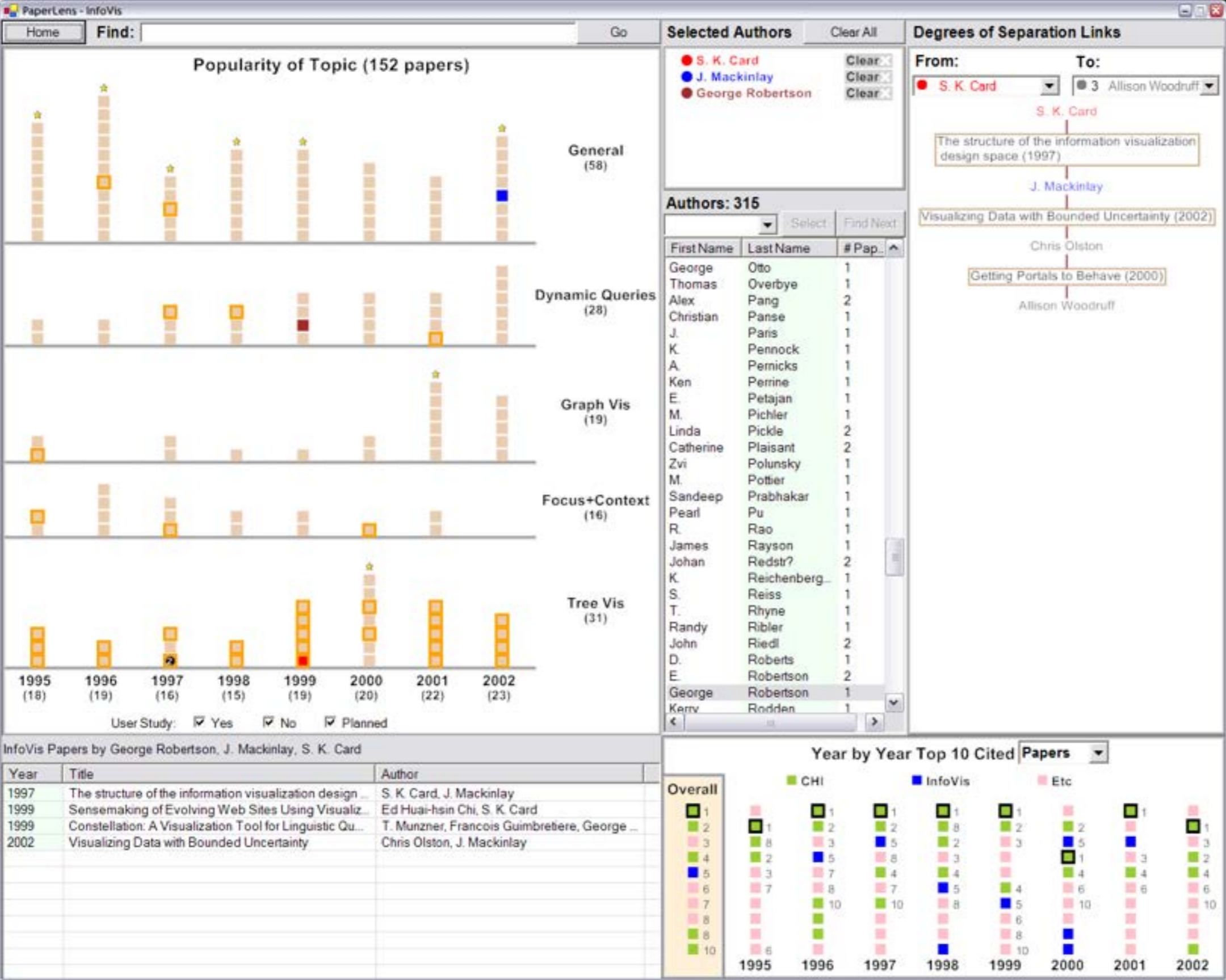


http://upload.wikimedia.org/wikipedia/commons/thumb/b/b9/Ben_Shneiderman_at_UNCC.jpg/220px-Ben_Shneiderman_at_UNCC.jpg

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Infovis Beispiel: Paperlens



leider kein Video zu Paperlens...

The screenshot shows a web browser window with several tabs open, including 'Raunk - Jeremy Kooshin', 'Raunk', 'Raunk - Best Movies', and 'Raunk - Best Beers'. The address bar shows 'raunk.com/historycompare/17users=2,3'. The Raunk logo is at the top left, and a search bar is next to it. On the right, there is a '+ Create a List' button and a user profile for 'Jeremy'. The main content area is titled 'Best Movies' and compares two users: 'Jeremy Kooshin' and 'Zach Galant'. Each user's list is represented by a vertical bar of movie posters, with the height of the bar indicating the number of movies. The x-axis at the bottom of the chart is labeled with numbers 0 through 9. Below the chart is a '+ Add Another User' button. At the bottom left, there is a 'Feedback' button. At the bottom right, there is a footer with copyright information and links to 'Have comments? We'd love to hear: team@raunk.com', 'Blog', 'Facebook', 'Twitter', 'Terms of Service', and 'Privacy Policy'.