

Controls & Menus

Lecture 15

Outline

- Control Types
- Menus
- Menu Idioms

Types of Controls

- Imperative Controls
- Selection Controls
- Entry Controls
- Display Controls

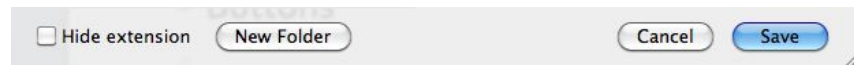
Types of Controls

- Imperative Controls
 - Selection Controls
 - Entry Controls
 - Display Controls
-
- Can you name an example of each?

Imperative Control

- Imperative – control takes immediate action

- Buttons



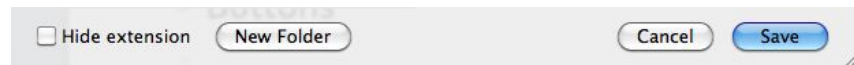
- Butcons

- Links

Imperative Control

- Imperative – control takes immediate action

- Buttons



- Butcons

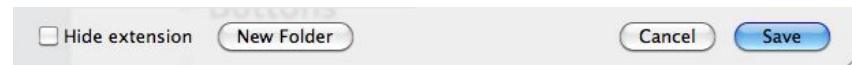


- Links

Imperative Control

- Imperative – control takes immediate action

- Buttons



- Butcons



- Links

A screenshot of a Wikipedia article for the band Coldplay. The title 'Coldplay' is at the top, followed by the text 'From Wikipedia, the free encyclopedia'. The main text describes the band's formation in 1996 by lead vocalist Chris Martin and lead guitarist Jonny Buckland at University College London. It mentions that after forming Pectoralz, Guy Berryman joined as a bassist and they changed their name to Starfish. A small image of the band is shown on the right side of the article.

Selection Controls

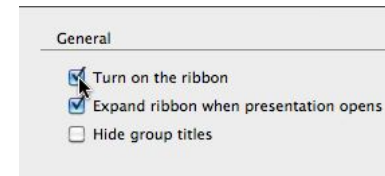
- Selection Controls – allow a user to modify or configure the system
 - “Selection Controls” not the same as the general, more generic idea of “Selection”

Selection Controls

- Check boxes
- Radio buttons
 - Radio buttons
- Flip Flop buttons
- Combutcon
- Lists
- Combo box

Selection Controls

- Check boxes
- Radio buttons
 - Radio buttons
- Flip Flop buttons
- Combobox
- Lists
- Combo box



Selection Controls

- Check boxes
- Radio buttons
 - Radio buttons
- Flip Flop buttons
- Combobutton
- Lists
- Combo box



Selection Controls

- Check boxes
- Radio buttons
 - Radio buttons
- Flip Flop buttons
- Combutcon
- Lists
- Combo box



Selection Controls

- Check boxes
- Radio buttons
 - Radio buttons
- Flip Flop buttons
- Combobox
- Lists
- Combo box



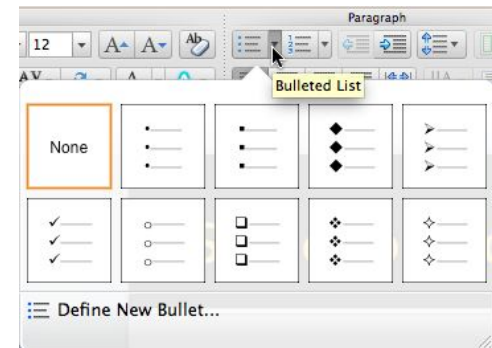
Selection Controls

- Check boxes
- Radio buttons
 - Radio buttons
- Flip Flop buttons
- Combobox
- Lists
- Combo box



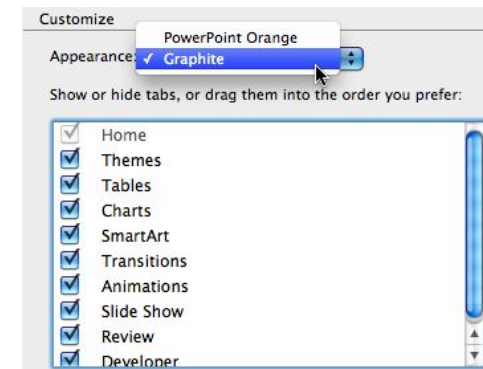
Selection Controls

- Check boxes
- Radio buttons
 - Radio buttons
- Flip Flop buttons
- Combobox
- Lists
- Combo box



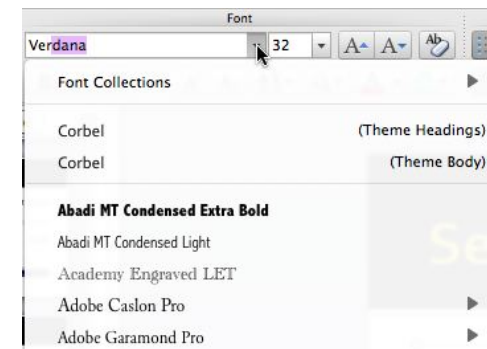
Selection Controls

- Check boxes
- Radio buttons
 - Radio buttons
- Flip Flop buttons
- Combobox
- Lists
- Combo box



Selection Controls

- Check boxes
- Radio buttons
 - Radio butcons
- Flip Flop buttons
- Combutcon
- Lists
- Combo box

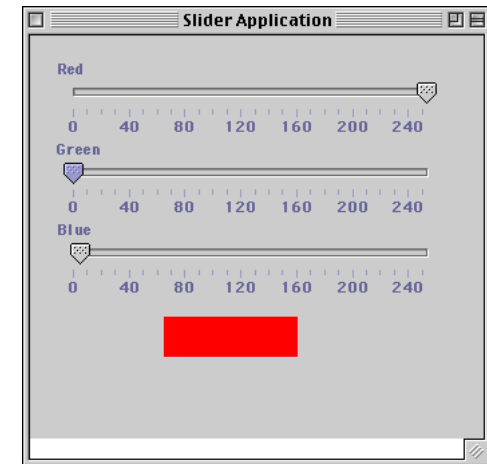


Entry Controls

- Bounded Entry
- Spinner
- Sliders, Dials

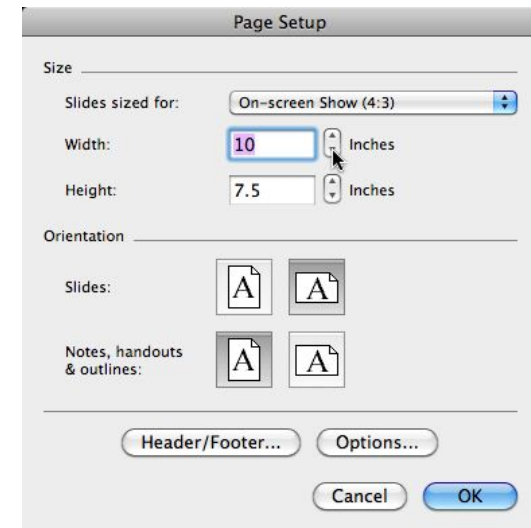
Entry Controls

- Bounded Entry
- Spinner
- Sliders, Dials



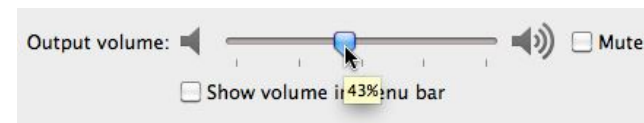
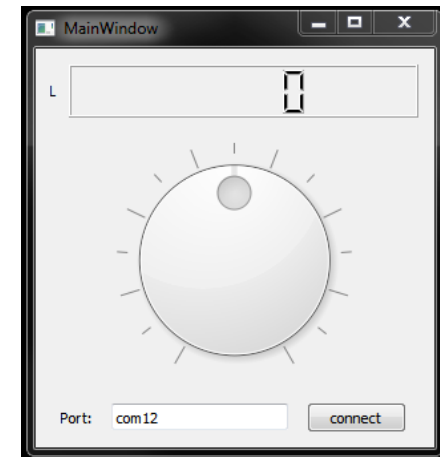
Entry Controls

- Bounded Entry
- Spinner
- Sliders, Dials



Entry Controls

- Bounded Entry
- Spinner
- Sliders, Dials



Display Controls

- Text Controls
- Scrollbars
- Splitters

Display Controls

- Text Controls
- Scrollbars
- Splitters



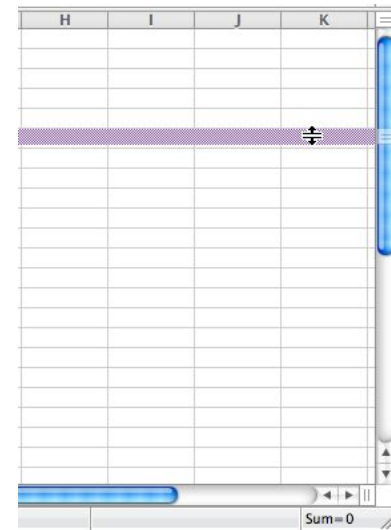
Display Controls

- Text Controls
- Scrollbars
- Splitters



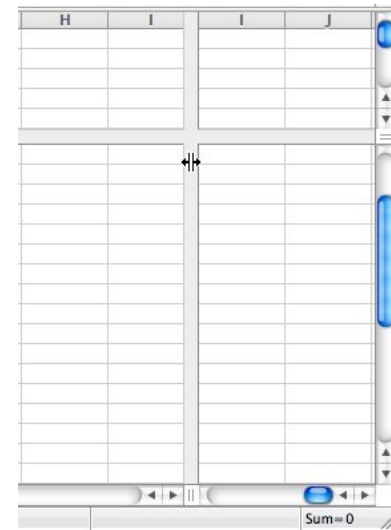
Display Controls

- Text Controls
- Scrollbars
- Splitters



Display Controls

- Text Controls
- Scrollbars
- Splitters



Menus & Menuing

- Command line
 - Early systems

Menus & Menuing

- Command line
 - Early systems
- Text menus
 - Gopher



The screenshot shows a terminal window titled "jgoerzen@fritz:" with a sub-window titled "The Gopher Project". The content is as follows:

```
THE GOPHER PROJECT
-----

Welcome to The Gopher Project! Gopher is a slim, powerful, and
fast way to present information in a hierarchial catalog online.
Gopher actually predates the Web -- although most web browsers
make excellent gopher browsers too.

Good places to start are the "Why Gopher?" and "Using Gopher"
areas!

[12] A Brief Introduction to Gopherspace
[13] Clients, Servers, and Downloads/
--> [14] Mailing List
[15] Mailing List Archives/
[16] Using Gopher/
[17] Why Gopher/?

Press ? for Help, q to Quit, u to go up a menu
Page: 1/1
```

Menus & Menuing

- Command line
 - Early systems
- Text menus
 - Gopher
 - Sequential Hierarchical menus

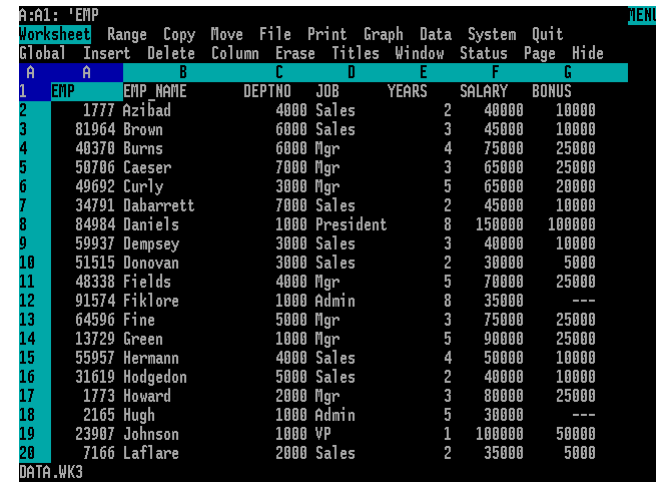


The screenshot shows a terminal window titled "The Gopher Project" with the following content:

```
jgoerzen@fritz:~  
The Gopher Project  
-----  
THE GOPHER PROJECT  
  
Welcome to The Gopher Project! Gopher is a slim, powerful, and  
fast way to present information in a hierarchial catalog online.  
Gopher actually predates the Web -- although most web browsers  
make excellent gopher browsers too.  
  
Good places to start are the "Why Gopher?" and "Using Gopher"  
areas!  
  
[12] A Brief Introduction to Gopherspace  
[13] Clients, Servers, and Downloads/  
--> [14] Mailing List  
[15] Mailing List Archives/  
[16] Using Gopher/  
[17] Why Gopher?/  
  
Press ? for Help, q to Quit, u to go up a menu  
Page: 1/1
```

Menus & Menuing

- Lotus 1-2-3
 - On screen with work area
 - “/” to switch to commands



The screenshot shows the Lotus 1-2-3 interface. At the top, the menu bar is visible with options: Worksheet, Range, Copy, Move, File, Print, Graph, Data, System, Quit. Below the menu bar, a data table is displayed with columns labeled A through G. The data table contains employee information including EMP, EMP_NAME, DEPTNO, JOB, YEARS, SALARY, and BONUS. The bottom of the screen shows the file name DATA.WK3.

A	B	C	D	E	F	G	
1	EMP	EMP_NAME	DEPTNO	JOB	YEARS	SALARY	BONUS
2	1777	Azibad	4000	Sales	2	40000	10000
3	81964	Brown	6000	Sales	3	45000	10000
4	40370	Burns	6000	Mgr	4	75000	25000
5	50706	Caeser	7000	Mgr	3	65000	25000
6	49692	Curly	3000	Mgr	5	65000	20000
7	34791	Dabarrrett	7000	Sales	2	45000	10000
8	84984	Daniels	1000	President	8	150000	100000
9	59937	Dempsey	3000	Sales	3	40000	10000
10	51515	Donovan	3000	Sales	2	30000	5000
11	48338	Fields	4000	Mgr	5	70000	25000
12	91574	Fiklore	1000	Admin	8	35000	---
13	64596	Fine	5000	Mgr	3	75000	25000
14	13729	Green	1000	Mgr	5	90000	25000
15	55957	Hermann	4000	Sales	4	50000	10000
16	31619	Hodgedon	5000	Sales	2	40000	10000
17	1773	Howard	2000	Mgr	3	80000	25000
18	2165	Hugh	1000	Admin	5	30000	---
19	23907	Johnson	1000	VP	1	100000	50000
20	7166	Laflore	2000	Sales	2	35000	5000

Menus & Menuing

- Modern Menus
 - Pedagogic vector – menu item names provides for recognition (versus) recall of the function
 - Menu scanning – see the functions in the menus assists learning of the application

Common Sovereign Application Menus

- Standard
 - File
 - Edit
 - Windows
 - Help
- Additional
 - View
 - Insert
 - Settings
 - Format
 - Tools

Menu Idioms

- Cascading Menus
 - Hierarchical Menus
- Adaptive Menus
- Ribbon Menus
- Enabled/Disabled Menus
- Toggle Items
- Accelerators/Command Equivalents

