

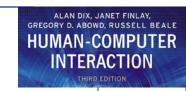
Dix , Alan Finlay, Janet Abowd, Gregory Beale, Russell

screen design and layout

basic principles grouping, structure, order alignment use of white space







available tools

- grouping of items
- order of items
- decoration fonts, boxes etc.
- alignment of items
- white space between items





grouping and structure

logically together ⇒ physically together

Billing details: Delivery details:

Name Name

Address: ... Address: ...

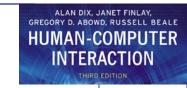
Credit card no Delivery time

Order details:

item quantity cost/item cost size 10 screws (boxes) 7 3.71 25.97

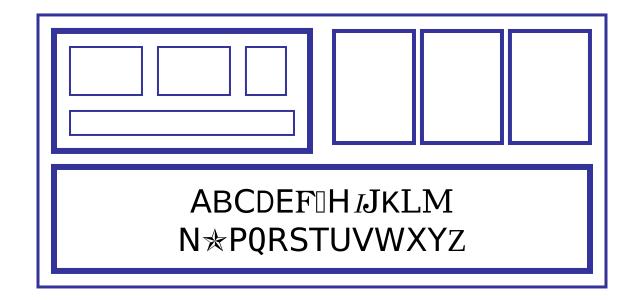
••••

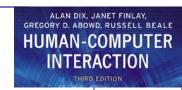




decoration

- use boxes to group logical items
- use fonts for emphasis, headings
- but not too many!!





alignment - text

 you read from left to right (English and European)

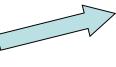
⇒ align left hand side

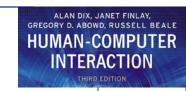
Willy Wonka and the Chocolate Factory Winston Churchill - A Biography Wizard of Oz boring but readable!

Xena - Warrior Princess

Willy Wonka and the Chocolate Factory
Winston Churchill - A Biography
Wizard of Oz
Xena - Warrior Princess

fine for special effects but hard to scan





alignment - names

Usually scanning for surnames
 ⇒ make it easy!

Alan Dix
Janet Finlay
Gregory Abowd
Russell Beale

Alan Dix
Janet Finlay
Gregory Abowd
Russell Beale

Dix , Alan Finlay, Janet Abowd, Gregory Beale, Russell





alignment - numbers

think purpose!

which is biggest?

532.56 179.3 256.317 15 73.948 1035 3.142 497.6256





alignment - numbers

visually:

long number = big number

align decimal points or right align integers

627.865

1.005763

382.583

2502.56

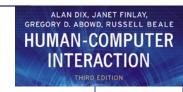
432.935

2.0175

652.87

56.34





multiple columns

scanning across gaps hard:

sherbert	75
toffee	120
chocolate	35
fruit gums	27
coconut dreams	85



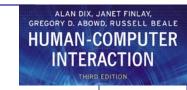


multiple columns - 2

use leaders

sherbert	75
toffee	120
chocolate	35
fruit gums	27
coconut dreams	85



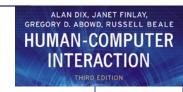


multiple columns - 3

or greying (vertical too)

sherbert	75
toffee	120
chocolate	35
fruit gums	27
coconut dreams	85





multiple columns - 4

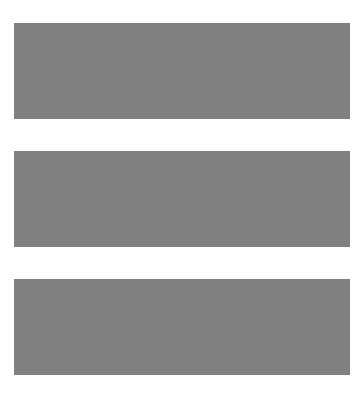
or even (with care!) 'bad' alignment

sherbert 75
toffee 120
chocolate 35
fruit gums 27
coconut dreams 85





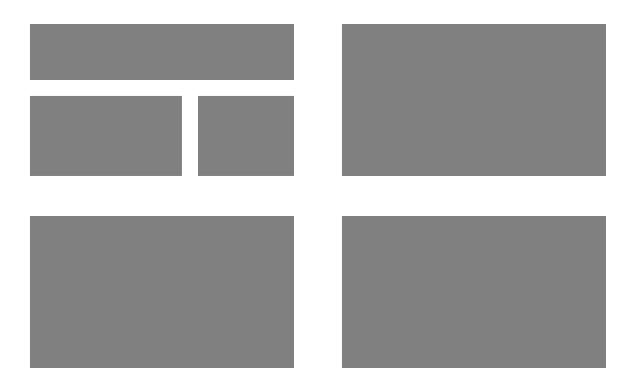
White space to separate



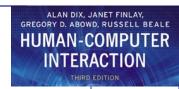




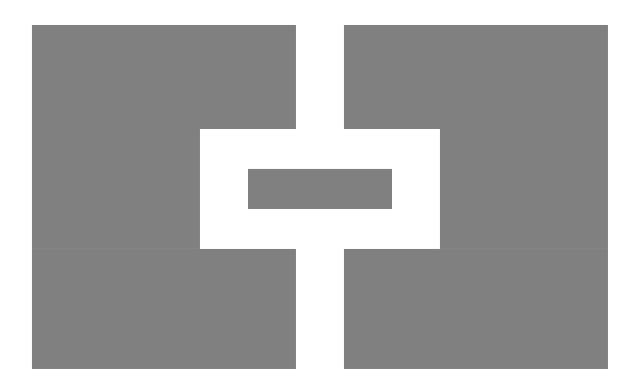
space to structure



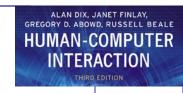




space to highlight





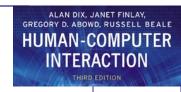


grouping of items defrost settingstype of food

time to cook



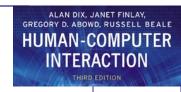




- grouping of items
- order of items
- 1) type of heating
- 2) temperature
- 3) time to cook
- 4) start







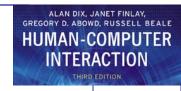
- grouping of items
- order of items
- decoration

different colours for different functions

lines around related buttons (temp up/down)







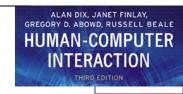
- grouping of items
- order of items
- decoration
- alignment

centred text in buttons

? easy to scan?







- grouping of items
- order of items
- decoration
- alignment
- white space

gaps to aid grouping







Navigation Design

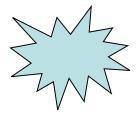




start

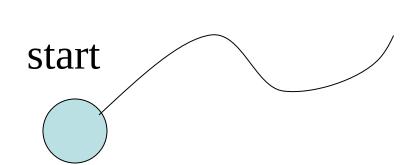


goal







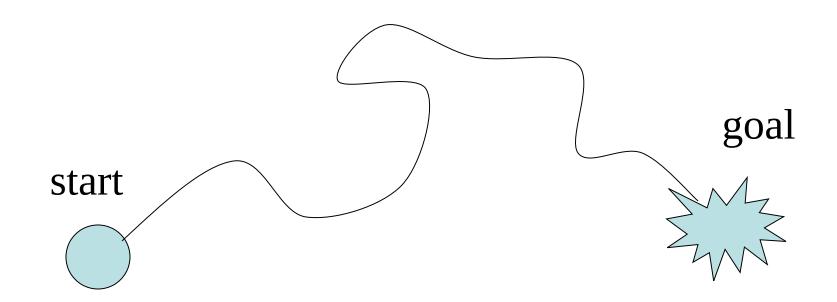


goal



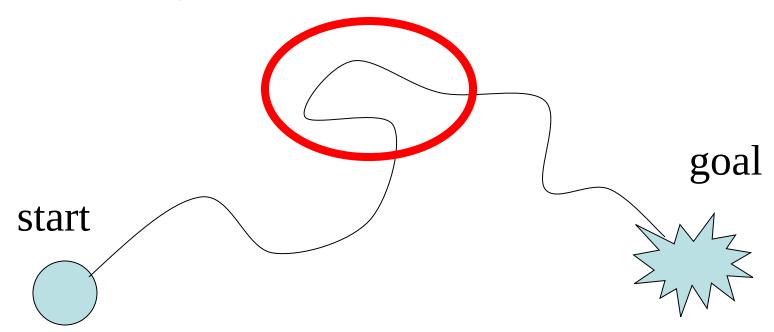
progress with local knowledge only ...





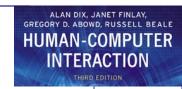
... but can get to the goal





... try to avoid these bits!

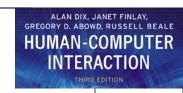




four golden rules

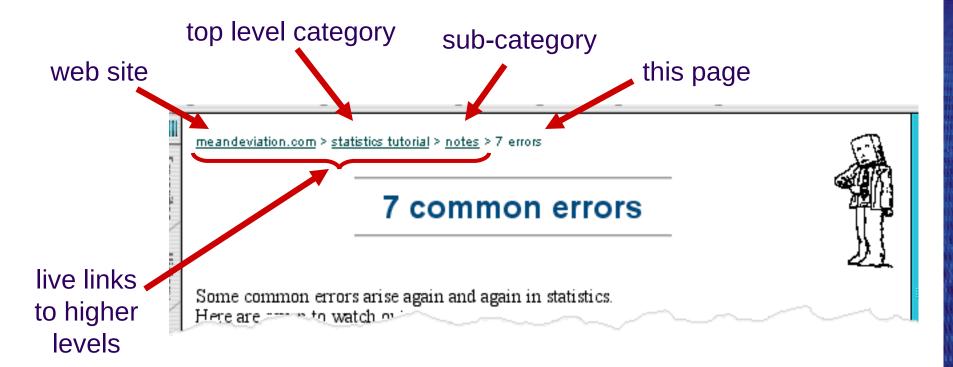
- knowing where you are
- knowing what you can do
- knowing where you are going
 - or what will happen
- knowing where you've been
 - or what you've done





where you are – breadcrumbs

shows path through web site hierarchy







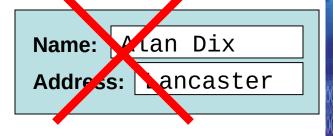
user action and control

entering information knowing what to do affordances



entering information

- forms, dialogue boxes
 - presentation + data input
 - alignment
- logical layout
 - groupings
 - natural order for entering information
 - top-bottom, left-right (depending on
 - set tab order for keyboard entry



Name: Alan Dix
Addre. : Lancaster

Name: Ran Dix
Address: Pancaster





knowing what to do

- what is active what is passive
 - where do you click
 - where do you type
- consistent style helps
 - e.g. web <u>underlined links</u>
- labels and icons
 - standards for common actions





affordances

- The psychological idea of affordance says that things may suggest by their shape and other attributes what you can do to them.
 - shape and size suggest actions
 - pick up, twist, throw
- for screen objects
 - button-like object 'affords' mouse click
- culture of computer use
 - icons 'afford' clicking
 - or even double clicking ... not like real buttons!



mug handle

'affords' grasping







appropriate appearance

presenting information
aesthetics and utility
colour and 3D
localisation & internationalisation



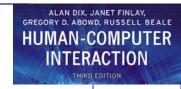


presenting information

- purpose matters
 - sort order (which column, numeric alphabetic)
 - text vs. diagram
 - scatter graph vs. histogram
- use paper presentation principles!
- but add interactivity
 - softens design choices
 - e.g. re-ordering columns

name	size
chap10	12
chap5	16
chap1	17
chap14	22
chap20	27
chap8	32





aesthetics and utility

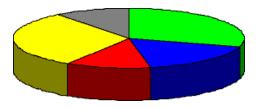
aesthetically pleasing designs increase user satisfaction and improve productivity beauty and utility may conflict mixed up visual styles ⇒ easy to distinguish clean design - little differentiation ⇒ confusing backgrounds behind text good to look at, but hard to read





colour and 3D

- both often used very badly!
- Colour
 - colour over used because 'it is there'
 - beware colour blind!
 - use carefully to reinforce other information
- 3D effects
 - good for physical information and some graphs
 - but if over used ...e.g. text in perspective!! 3D pie charts







bad use of colour

- OVEr USE without very good reason (e.g. kids' site)
- colour blindness
- poor use of contrast
- do adjust your set!
 - adjust your monitor to greys only
 - can you still read your screen?





across countries and cultures

- localisation & internationalisation
 - changing interfaces for particular cultures/languages
- globalisation
 - try to choose symbols etc. that work everywhere
- deeper issues
 - cultural assumptions and values
 - meanings of symbols

Gesture	Country	Meaning
a cincipal	most countries	OK
	Japan	money
	France	zero
	Brazil	
	Germany	rude

1	the US	great/good job
B	Nigeria	rude
	Germany	No.1
	Japan	