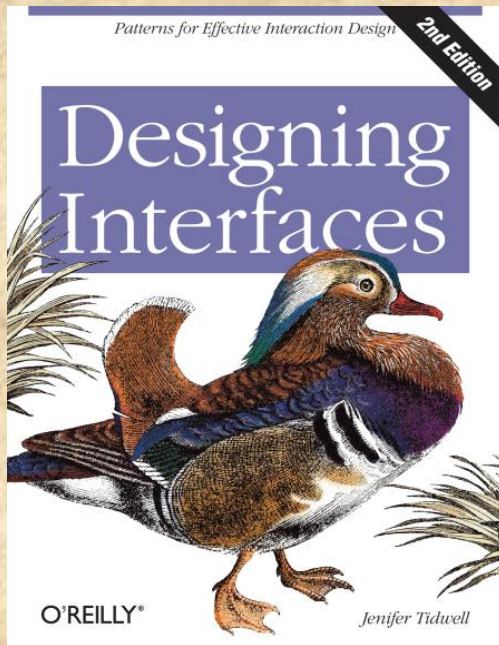


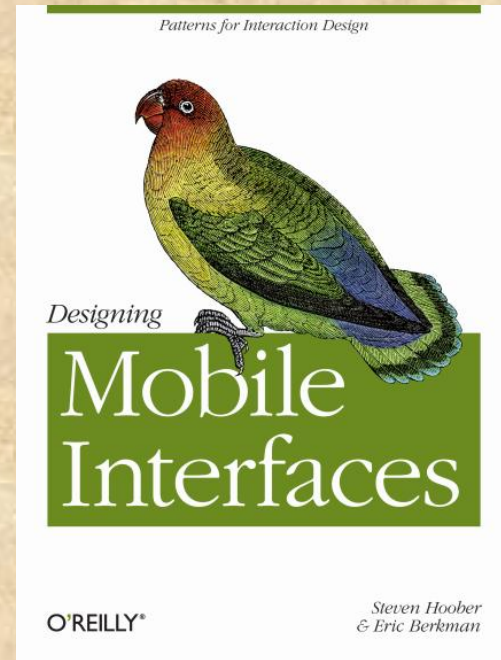
UI Design Interface (UI Patterns)

References

Book 1:
“Designing Interfaces”, Second Edition, by Jenifer Tidwell



Book 2:
“Designing Mobile Interfaces”, by Steven Hooper, and Eric Berkman



General UI (User Interface) Patterns



Type 1

Navigation Models

- How do users know **where they** are **now**?
- where to **go next**?
- and how to get **there** from **here**? (**target page**)

Features to Help way Finding

1. **Good signage:**

labels to tell what you're looking for and tell you where to go.

2. **Environmental clues:**

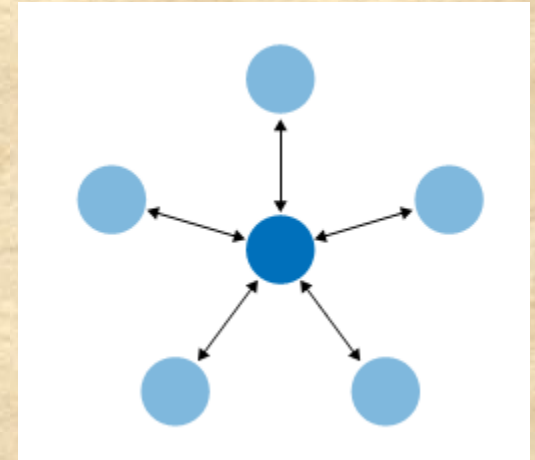
icons and symbols with clear meanings, like (X) for closing.

3. **Maps:**

global view/dictionary of applications
pages/functionalities

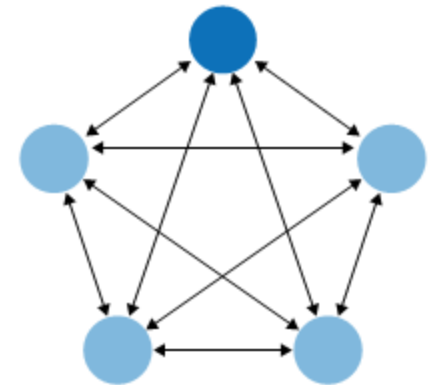
Navigational Models/Patterns

- 1.1- Hub and spoke: نقطة مركزية وفروعها
 - (Home Screen and sub pages)
 - Most **often** found on **mobile** devices,
 - lists all the major parts of the site or app on the home screen, or “**hub**.”
 - Each part has its own sub page “**spoke**”
 - The user clicks or taps through to them, does what she needs to do, and comes back to the hub to go somewhere else.
 - The “**spoke**” **screens** focus tightly on their jobs, making careful use of space



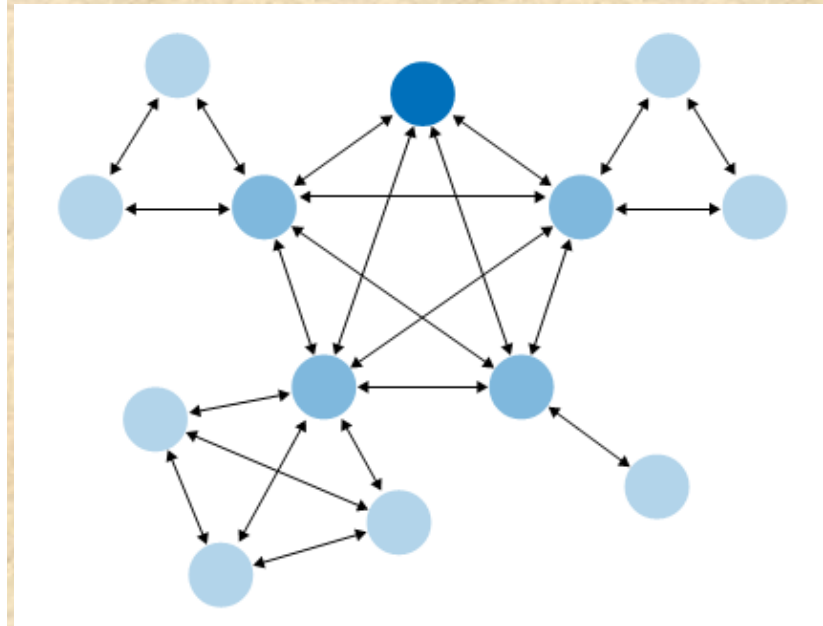
Navigational Models

- **1.2-Fully connected**
 - Many websites follow this model.
 - There's a **home page or screen**, but it and every **other page link to all the others**
 - They each have a **global navigation feature**, such as **a top menu**.
 - The global navigation may be:
 - a single level
 - or it might be deep and complex, with multiple levels and deeply buried content.
 - As long as the user can reach any page from any other with a single jump, it's fully connected.



Navigational Models

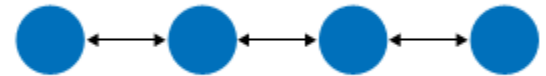
- **1.3- Multi-level:**
 - This is also common among websites
 - The **main pages** are fully connected with each other,
 - but the **subpages** are only connected among themselves
 - Subpages can be connected usually to the other main pages, via global navigation (menu/icon)
 - It takes two or more jumps to get from one subpage to another.



Navigational Models

- **1.4-Stepwise:**

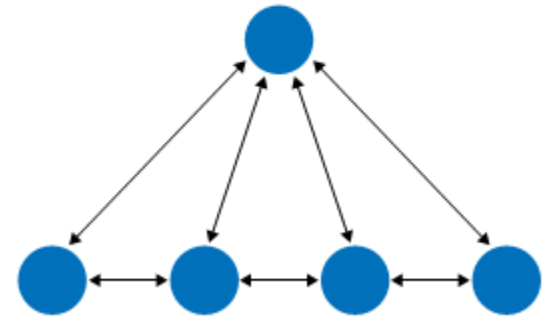
- **Sequence** of pages/process flows, and Wizards lead the user **step by step**
- through the screens in a prescribed sequence تسلسل مسبق
Back/Next links are available on the page.



Navigational Models

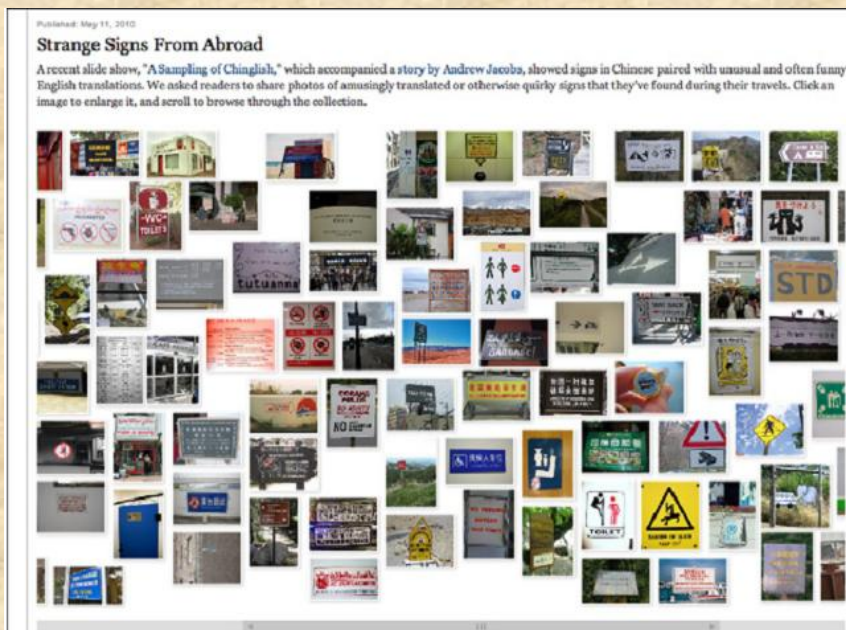
- **1.5- Pyramid**

- A variant on the stepwise/Hub-spoke models,
- uses a hub page or menu page to list an entire sequence of items
- The user picks out any item, jumps to it,
- and then has the option to use Back/Next links to step through other items in order.
- He can go back to the hub page anytime



Pyramid Example (New York Times)

Parent Page



Child page

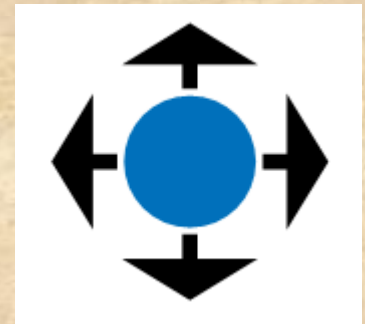


Pyramid Model

Description	<p>1- Link together a sequence of pages with Back/Next links.</p> <p>2-Create a parent page that links to all of the pages in this sequence</p>
When to Use?	<p>1- site or application contains a sequence of items that a user would normally view one after another (in order),</p> <p>2- such as a slideshow, a wizard, chapters in a book, or a set of products.</p> <p>3- Some other users would rather view them one at a time and out of order, and they need to be able to pick from a full list of the items</p>
Why to Use?	<p>-reduces the number of clicks it takes to get around.</p> <p>-and it expresses a sequential relationship among the pages</p>

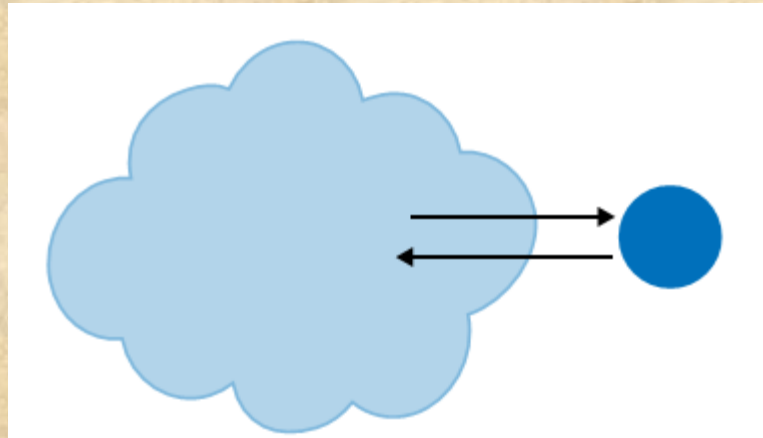
Navigational Models

- **1.6- Pan-and-zoom** التحريك والتقريب
 - Some information are best represented as single large spaces, not many small ones.
 - Examples:
 - Maps,
 - large images,
 - large text documents,
 - information graphics (InfoGraphic),
 - Time based media (sound and video)
 - Options:
 - **panning** (moving horizontally or vertically),
 - **zooming** in and out,
 - **resetting** to a known position and state



Navigational Models

- **1.7-Modal panel (Message Boxes)**
 - screen with no navigation options other than acknowledging its message, completing its form, or clicking the panel away (OK-Cancel)



Example for Modal Pane (slideshare)

The image shows a SlideShare modal pane overlaid on a website. The modal has a yellow header bar with the text "Login or Signup to add this document to a group/event." Below this, there are two main sections: "Signup for a free SlideShare account" and "Login to SlideShare".

Signup for a free SlideShare account

Username *

Password *

Email *

Account type * Default

Login to SlideShare

Username or Email

Password

☐ Remember me

[Forgot Username/Password?](#)

The background website shows the SlideShare logo, navigation links (HOME, BUSINESS, CHANNELS, EVENTS, BROWSE, UPLOAD), and a search bar. There are also promotional banners for "Easy Online Recruitment", "Social Media for Business", and "Build your business".

Example 2

KAYAK
[Modify or start search over](#)
[Get a fare alert](#)
[Show fare charts](#)
[Share results - LIVE](#)

Stops
☐ nonstop
☒ 1 stop **\$321**
☒ 2+ stops **\$447**

Flight Times
☒ Take-off
☐ Landing
Take-off (Depart Flight) [show all](#)
Mon 3:00p - 8:00p
Take-off (Return Flight) [show all](#)
Mon 5:00a - 6:30p

Airlines
[select all](#) [close](#)

Modify or start search over [close](#)
☒ Round-trip ☐ One-way [Multi-city](#) [Weekend](#)
From To
☐ Include nearby airports ☐ Include nearby airports
Depart Time
Monday, Aug 2 2010
Return Time
Monday, Aug 9 2010
 Travelers ☐ Prefer Nonstop
Compare sites in new windows
☐ Priceline ☐ Travelocity
☐ Expedia ☐ Hotwire
[Compare all](#)
Search
Select
2 sites [details](#) [save](#) [✉](#) [★](#) [📶](#) [🔋](#)
\$324 BOS 6:30a MSY 10:30a 1 (Ch. 20m)

[Virgin America](#)
Hot low fares fr
WiFi, movies, m
[www.virginame](#)
[Honda Indy Tor](#)
Enjoy 2-Nr Sun
2 three-day 20
[SeeTorontoNow](#)
[Cheap New Orle](#)
Compare Rates
Sites - Fast & E
[www.SmartTr](#)
[Flights from 40](#)
To USA and Eur
Limited places!
[www.edreams.n](#)
[Find New Orlea](#)
Compare Disco
Save Time & Mo
[www.BookingB](#)

Modal Pane

Description	1- Show only one page, with no other navigation options, until the user finishes the current task
When to Use?	1- the application reached a state which it shouldn't or can't proceed without input from the user
Why to Use?	<ul style="list-style-type: none">- Forces User to take action and can't ignore it- When that's done, he gets sent back to where he was before.

Navigational Models

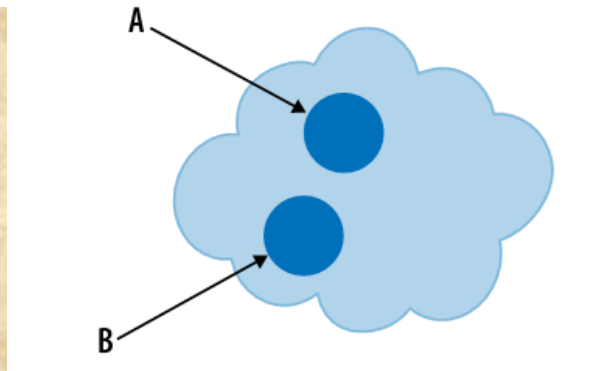
- **1.8-Flat navigation**

- little or no navigation at all.
- Example: Photoshop, Excel
- Some Tools and functions are reached via menus, toolbars
- Other Tools that don't act immediately upon the work may be accessible via Modal Panels (like: Save-open dialogs)
- User may not easily find the tools he needs (User can get Lost).

Navigational Models

- **1.9- Clear entry points:**
 - Helps a user to start in a complex site or app
 - Shows where to go first
 - For first-time and infrequent users,
 - it removes some of the burden of learning the site.

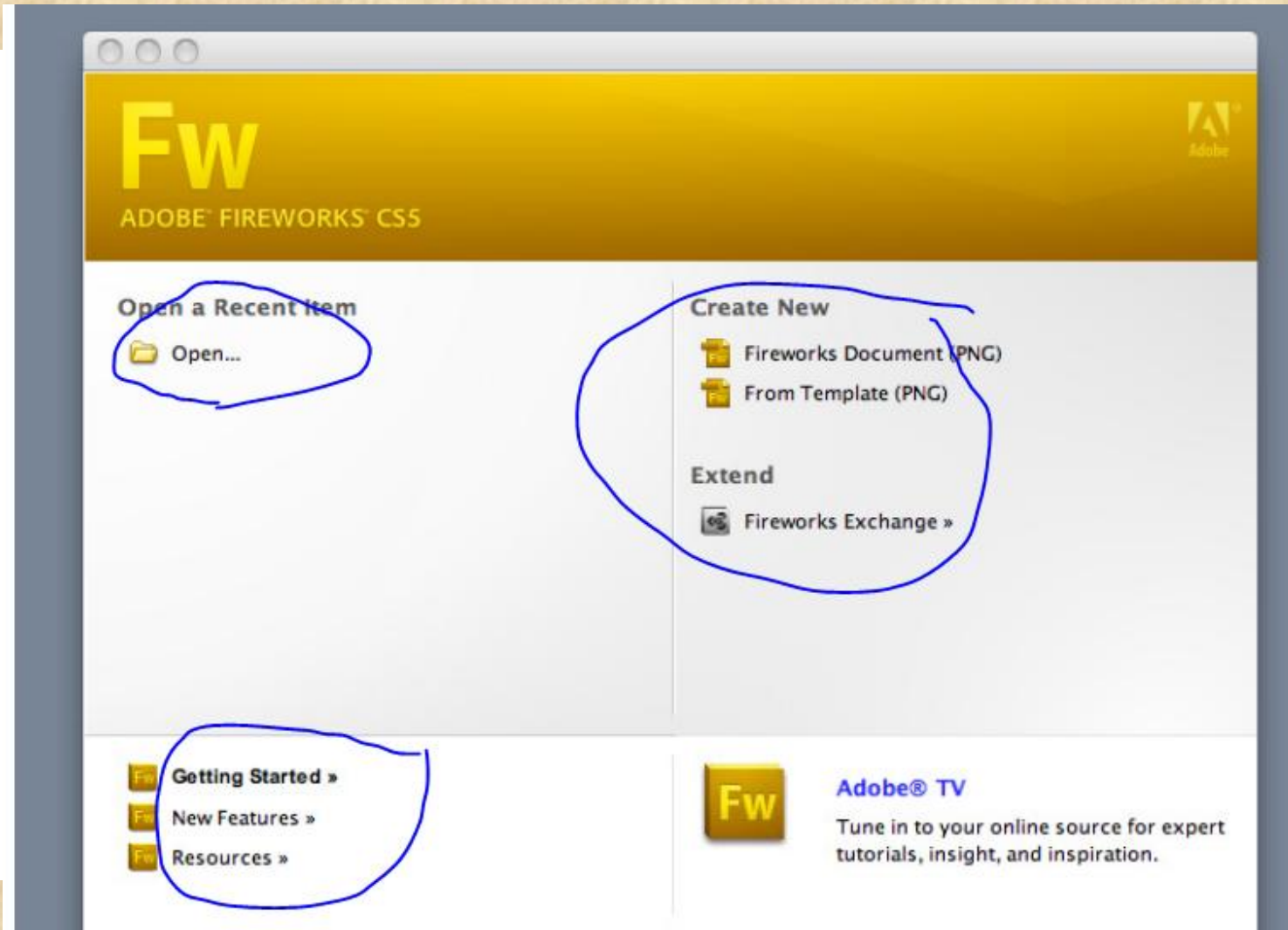
تفوت بعض الخطوات غير الأساسية للمستخدمين الجدد



Clear Entry Points

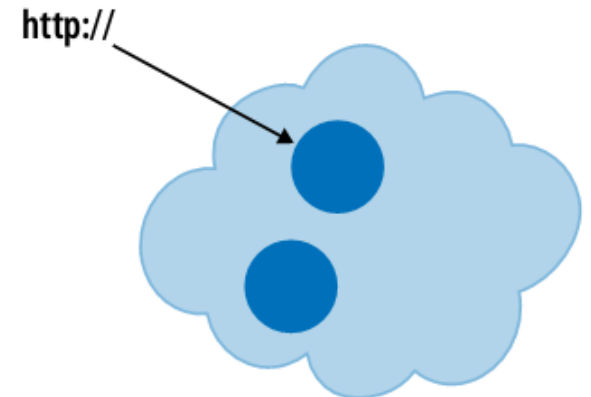
Description	<p>1- Present only a few main entry points into the interface;</p> <p>2-make them task-oriented and descriptive.</p>
When to Use?	<p>1- you have lot of first-time or infrequent users.</p> <p>2- Most of them needs :</p> <ul style="list-style-type: none">- reading a certain piece of introductory text,-doing an initialtask, or choosing from a very small number of frequently used options. <p>3- note: Not suitable for Expert users.</p>
Why to Use?	<p>- Help new users</p> <p>- self-explanatory application تطبيق يشرح نفسه</p>

Clear Entry Point Example



Navigational Models

- **1.10-Bookmarks/Deep Link:**
 - Examples: Bookmarks, saved links, and Deep-linked
 - Save Bookmarks by its **URL address**.
 - helps for a user to quick navigate to a point of his choice, anytime he wants, anywhere in the application
 - These give him a way to avoid traversing many links to get to a desired page or state.



Bookmark Model

Description	Capture the state of a site or app in a URL that can be saved or sent to other people (shared).
When to Use?	<p>1- The site or app's content is something large and interactive, such as a map, book, video, or information graphic.</p> <p>2- A specific desired point or state might be hard to find,</p> <p>3- or it may take many steps to get there from a typical starting point.</p>
Why to Use?	jump directly to a desired point and application state, thus saving time and work

Bookmark Example – Google Books

The origin of species – Google X

http://books.google.com/books?id=TCwLAAAAIAAJ&printsec=frontcover&dq=darwin+origin+of+species&hl=en&ei=VgkoTO72

Google books darwin origin of species Search Books Advanced Book Search

jenifer.tidwell@gmail.com | My library | My Account | Sign out

The origin of species By Charles Darwin

★★★★☆ 8 Reviews Write review About this book

Tree of Life Go

Add to My Library v

Get this book

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[Amazon](#)

[Google Product Search](#)

[Find in a library](#)

[All sellers »](#)

Related books

All related books »

Result 1 of 12 in this book for Tree of Life - Previous Next - View all

144 ORIGIN OF SPECIES

its summit, so we occasionally see an ar
rhynchus or Lepidosiren, which in some
nects by its affinities two large branches of life, and which
has apparently been saved from fatal competition by having
inhabited a protected station. As buds give rise by growth
to fresh buds, and these, if vigorous, branch out and overtop
on all sides many a feebler branch, so by generation I believe
it has been with the great Tree of Life, which fills with
its dead and broken branches the crust of the earth, and
covers the surface with its ever-branching and beautiful
ramifications.

Paste link in email or IM

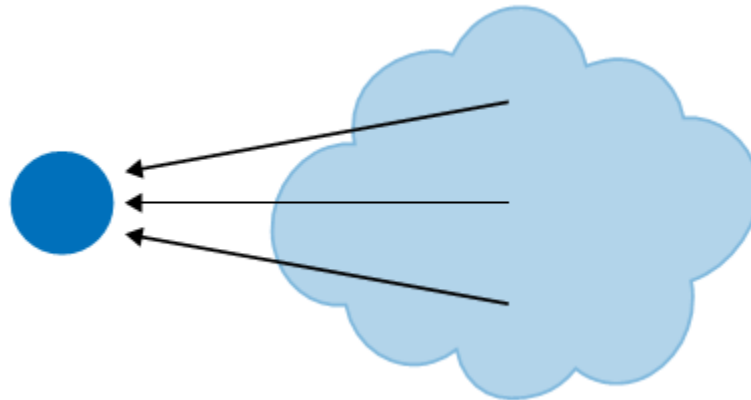
<http://books.google.com/books?id=TCwLAAAAIAAJ&dq=darwin>

Embed

`<iframe frameborder="0" scrolling="no" style="border:0px" src=`

Navigational Models

- **1.11- Escape hatch مخرج طوارئ**
 - When a user is hopelessly lost in an app, reaches an error state, or gets deep-linked into a page that he has no context for understanding,
 - he needs an escape/restore/restart point
 - Escape Hatch: a well-labeled link to get back to a known place.



1.12- Menu Page

craigslist

[post to classifieds](#)

[my account](#)

[help, faq, abuse, legal](#)

search craigslist

swingset

for sale

>

event calendar

S	M	T	W	T	F	S
27	28	29	30	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24

[haiti earthquake relief](#)

[avoid scams & fraud](#)

[personal safety tips](#)

[craigslist blog](#)

[craigslist factsheet](#)

boston^w

[gbs](#)
[nwb](#)
[bmw](#)
[nos](#)
[sob](#)

community

[activities](#)
[lost+found](#)

[artists](#)
[musicians](#)

[childcare](#)
[local news](#)

[general](#)
[politics](#)

[groups](#)
[rideshare](#)

[pets](#)
[volunteers](#)

[events](#)
[classes](#)

housing

[apts / housing](#)

[rooms / shared](#)

[sublets / temporary](#)

[housing wanted](#)

[housing swap](#)

[vacation rentals](#)

[parking / storage](#)

[office / commercial](#)

[real estate for sale](#)

for sale

[appliances](#)
[arts+crafts](#)

[antiques](#)
[auto parts](#)

[barter](#)
[baby+kids](#)

[bikes](#)
[beauty+hlth](#)

[boats](#)
[cars+trucks](#)

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[farm+garden](#)

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[garage sale](#)

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[rvs](#)
[motorcycles](#)

jobs

[accounting+finance](#)

[admin / office](#)

[arch / engineering](#)

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[customer service](#)

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[northwest ct](#)
[rhode island](#)
[south coast](#)
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[western mass](#)
[worchester](#)

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[nebraska](#)

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[czech repub](#)
[denmark](#)
[ecuador](#)
[egypt](#)
[finland](#)
[france](#)
[germany](#)
[great britain](#)
[greece](#)
[hong kong](#)
[hungary](#)
[india](#)
[indonesia](#)
[ireland](#)
[israel](#)
[italy](#)
[japan](#)
[korea](#)



education

Spanning five schools — architecture and planning; engineering; humanities, arts, and social sciences; management and science — and more than 30 departments and programs, an education at MIT covers more than just science and technology.

Arts, business, foreign languages, health and more complete an education at MIT, and the institute makes freely available its class lecture notes, exams and videos through MIT's

[OpenCourseWare](#)

schools

School of Architecture and Planning

School of Engineering

School of Humanities, Arts, and Social Sciences

Sloan School of Management

School of Science

Whitaker College of Health Sciences and Technology

departments and programs

16	Aeronautics and Astronautics
21A	Anthropology
4	Architecture
20	Biological Engineering
7	Biology
9	Brain and Cognitive Sciences
15	Business
10	Chemical Engineering
5	Chemistry
1	Civil and Environmental Engineering
CMS	Comparative Media Studies
CSB	Computational and Systems Biology
CDO	Computation for Design and Optimization
12	Earth, Atmospheric and Planetary Sciences
14	Economics
6	Electrical Engineering and Computer Science
ESD	Engineering Systems Division
21F	Foreign Languages and Literatures
HST	Health Sciences and Technology
21H	History
24	Linguistics and Philosophy
21L	Literature
15	Management
3	Materials Science and Engineering
18	Mathematics
2	Mechanical Engineering
MAS	Media Arts and Sciences (Media Lab)
21M	Music and Theater Arts
22	Nuclear Science and Engineering
8	Physics
17	Political Science
STS	Science, Technology, and Society
11	Urban Studies and Planning
21W	Writing and Humanistic Studies

reference/resources

[Academic calendar](#)
[Career development](#)
[Commencement](#)
[Course catalogue](#)
[Independent Activities Period \(IAP\)](#)
[Libraries](#)
[MIT International Science and Technology Initiatives \(MISTI\)](#)
[OpenCourseWare \(OCW\)](#)
[Resources for first-year students](#)
[Registrar's office](#)
[Stellar Course Management System](#)
[Subject listing and schedule](#)
[Student Information System \(WebSIS\)](#)
[Undergraduate Research Opportunities \(UROP\)](#)
[Undergraduate Practice Opportunities \(UPOP\)](#)

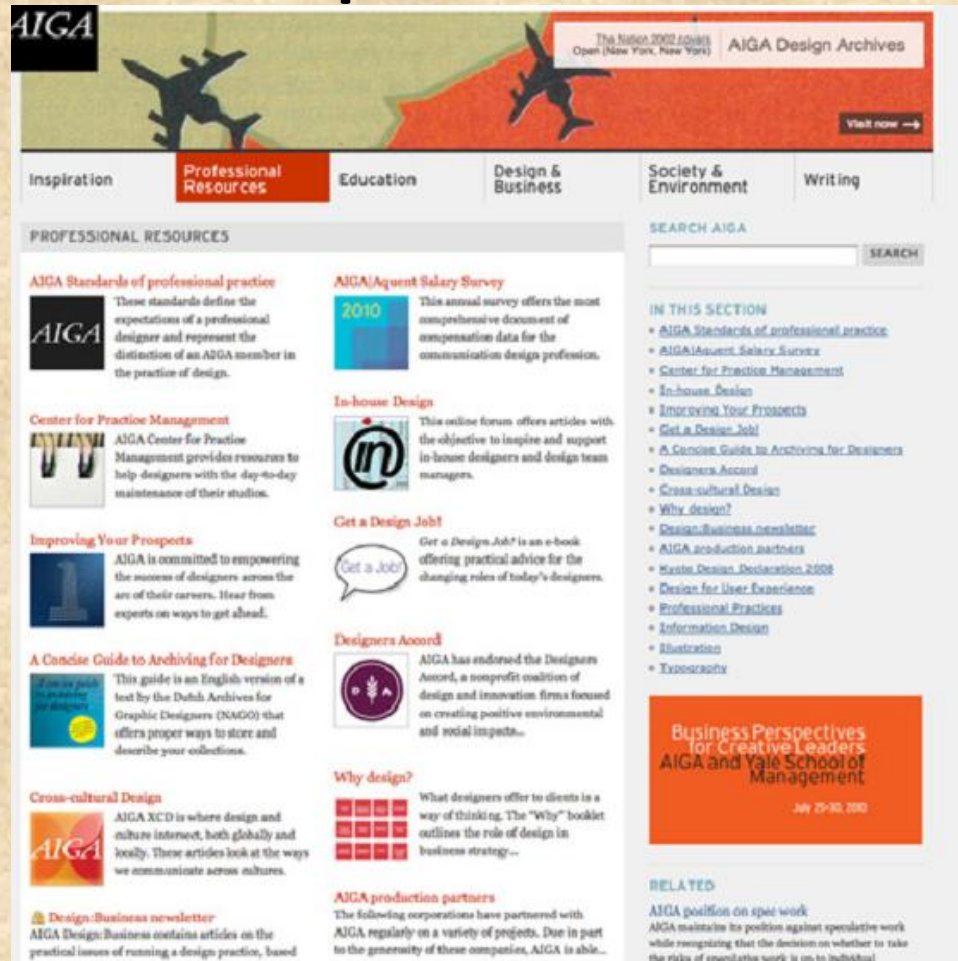
more information for

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[Current students](#)
[Undergraduates](#)
[Graduate students](#)
[International students](#)
[Postdoctoral scholars](#)
[Faculty](#)
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[Professionals](#)
[High school students](#)
[K-12 students and teachers](#)

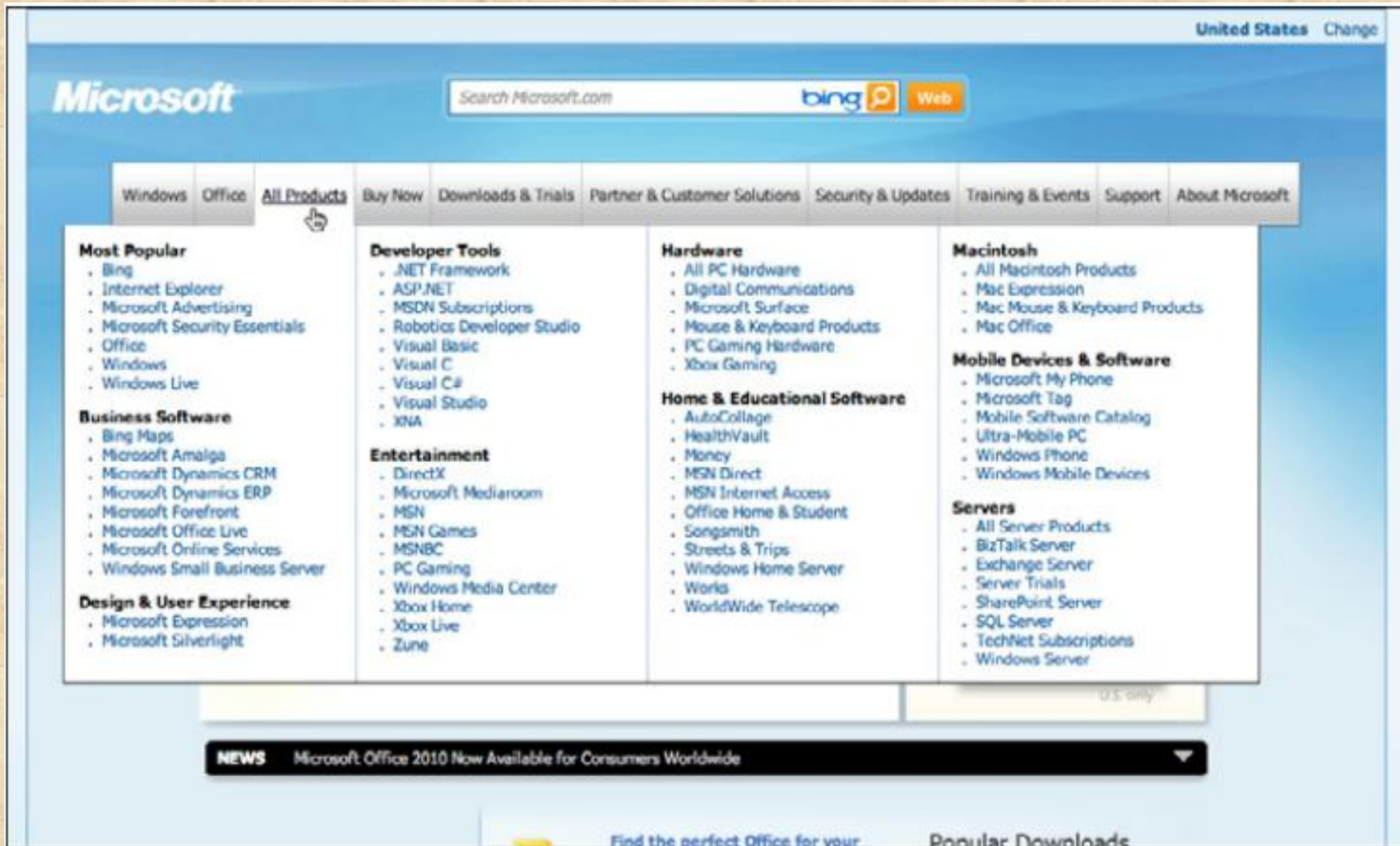
Menu Page

Description	<p>1- Fill the page with a list of links to other pages in your site or app.</p> <p>2- Show enough information about each link to enable the user to choose well.</p>
When to Use?	<p>1-designing a home page, starting screen (Table of Content) فهرس</p> <p>2-enable users to pick a link with no distractions</p> <p>3- Mobile apps and sites especially need Menu Page to make the best use of their small screens</p> <p>4- in full screen, you can put Advertisements/Helping messages to explain the site value to users</p> <p>5-Visitors features خواص زوار الموقع:</p> <ul style="list-style-type: none">• Visitors know what the site or app is about.• They know what they came for and how to find it.• They wouldn't be interested in news, updates, or features
Why to Use?	<p>no distractions for expert users</p>

More examples on Menu Pages



1.13-Fat Menus



Fat Menu



Description	<p>1- Display a long list of navigation options in drop-down or fly-out menus.</p> <p>2-Organize them with care, using well-chosen categories or a natural sorting order, and spread them out horizontally.</p>
When to Use?	<p>1- The site or app has many pages in many categories, possibly in a hierarchy with three or more levels.</p> <p>2- Your users are comfortable with drop-down menus (click to see them) or fly-outs (roll over them with the pointer).</p>
Why to Use?	<p>1- make a complex site more discoverable.</p> <p>2- They expose many more navigation options to visitors than they might otherwise find.</p>

Example 2



1.14 Breadcrumbs

On each page in a **deep navigational** hierarchy, show a **list** of all **the parent pages**, up to the **main or home** page.

 [MotheringDotCommunity Forums](#) > [Parenting](#) > [Ages and Stages](#) > [The Childhood Years](#)
 **Birthday Party Food Ideas--Four Year Olds**

Target : Kitchen : Kitchen Appliances : Stand Mixers : **KitchenAid Artisan 5-qt. Stand Mixer - Cobalt Blue (KSM150)**

[« Previous Page](#)

Similar Categories

KitchenAid Appliances
Mixers
Appliances
Cooking Appliances



**KitchenAid Ar
Stand Mixer -
(KSM150)**

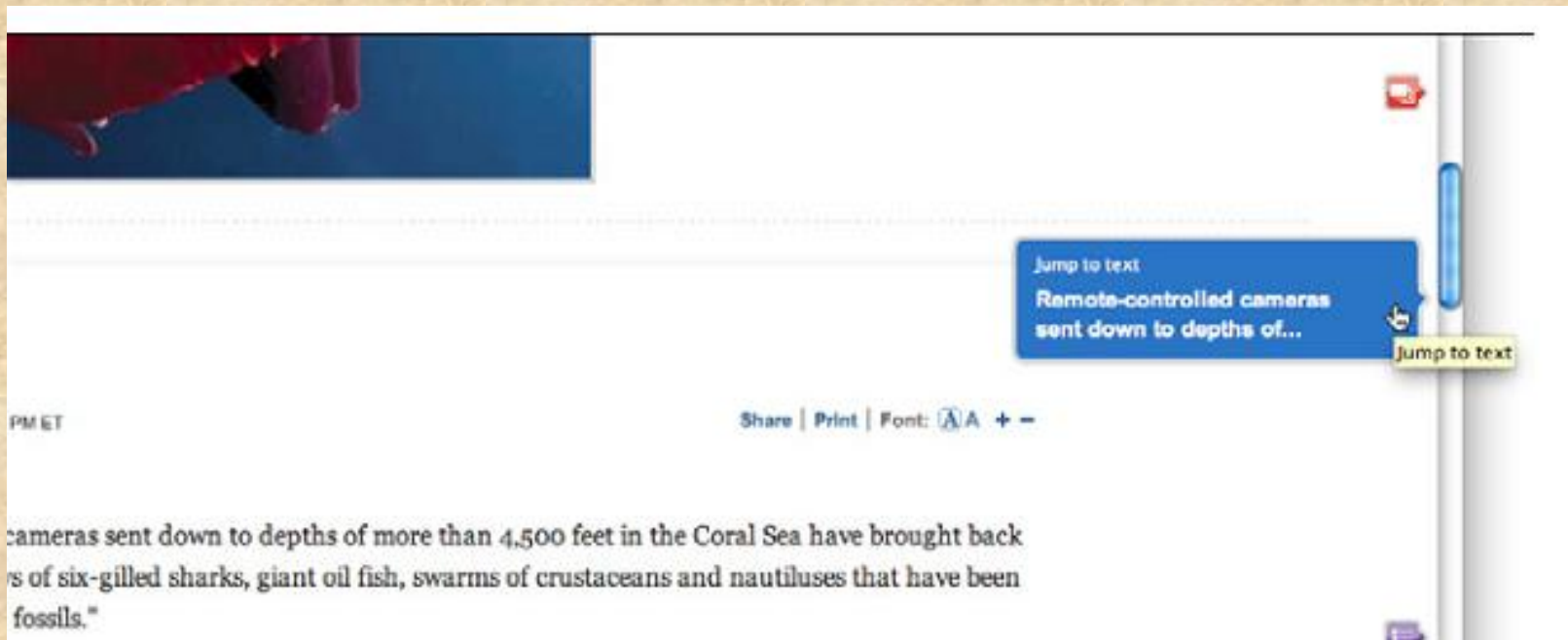
★★★★★ (61 reviews)

When to use this pattern?

- application or site has a **hierarchical structure** with **two** or **more** levels.
- Global navigation alone isn't sufficient to show a "You are here" signpost, because the hierarchy is **too deep** or **large**.
- OR, The Application have **categorized** items (products) in a **hierarchy hard** for some **users** to guess.

1.15 Annotated Scrollbar

- Make the scrollbar do 2 things:
 - Scrolling.
 - as a map of the content, or as a “You are here” indicator.



When to use this Pattern?

- a **document-centric** application or a **pan-and-zoom** interface (such as a map or large visualization).
- Users will scan this document or graphic for **marked item**, such as specific page numbers or landmarks.
- They might have trouble keeping track of where they are and **where to go next** as they scroll.

Type 2:

Models for Layout of Page Elements

Page layout is the **art of manipulating** the user's **attention** on a page to convey meaning, sequence, and points of interaction.

Page Layout

- Contains 3 Items:

1. **visual hierarchy:**

ترتيب العناصر لابرار العناصر المهمة أكثر من العناصر غير المهمة
the **most important** content should stand out the **most**, and the **least** important should stand out the **least**

-also, shows The **relationships** among them الارتباط بين العناصر

2. **visual flow:**

how to drag eye's attention to most important items in a track (order)
توجيه العين لأهم الأشياء بترتيب معين

3. **dynamic displays:**

Changes/Animations on content during **time** (which can be based on user interactions or content dependencies).

How to make things look important

1. For short but large text(such as headlines and short phrases):
 - use font size, contrasting color, and visual weight
2. Blocks of smaller items(such as body text, links, or interactive tools)can be emphasized/ deemphasized with:
 - **Density:** A dense, heavy-looking block has stronger contrast with the surrounding page; an open look has less contrast.
 - **Background color:** Contrast draws attention. Black on white, or vice versa, is the strongest contrast possible.
 - **Position and size:** A medium or large text block, roughly in the center of the page, calls attention to it-self as the primary content (like an article or blog post). But a small strip of text at the bottom of the page says quietly, “I’m just a footer” and begs to be ignored!
 - **Rhythm:** Lists, grids, alternating elements such as headlines and summaries, and whitespace separation can create a strong visual rhythm that irresistibly draws the eye.

Examples

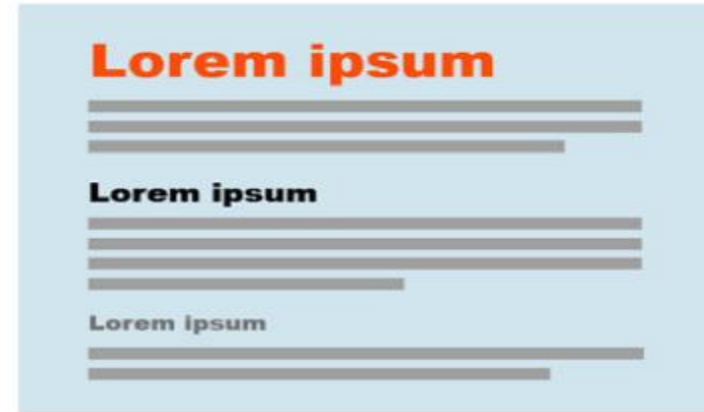


Figure 4-1. *Large text in a hierarchy*

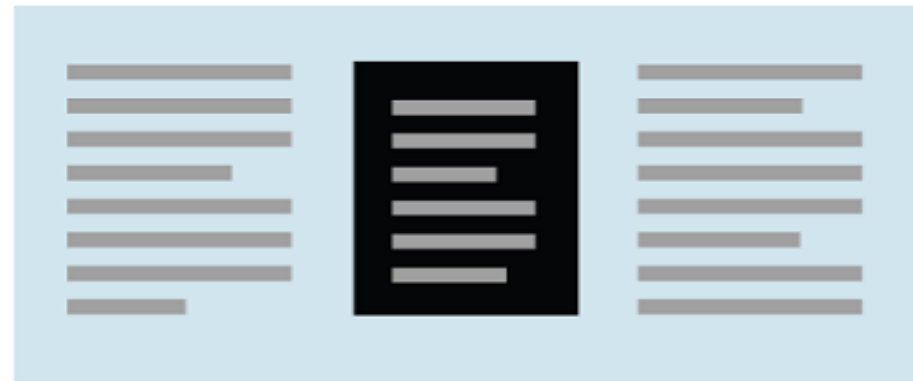


Figure 4-2. *Ways to emphasize blocks of text or small items (clockwise from upper left): density, background color, rhythm, and position and size*

How to show relationships among page elements

1. **Grouped items** look **related**.

2. **isolation** implies **distinction**

3. **Similar items** look like **peers**:

If you have a few things “of a type” and you want viewers to see them as **equally interesting alternatives**, give them an **identical** (and distinctive) **graphic treatment**

4. **Special Item** that other item: Give it a slightly different treatment, such as a contrasting background color, but otherwise keep it **consistent** with the others

Examples



Figure 4-4. *Grouping related items*

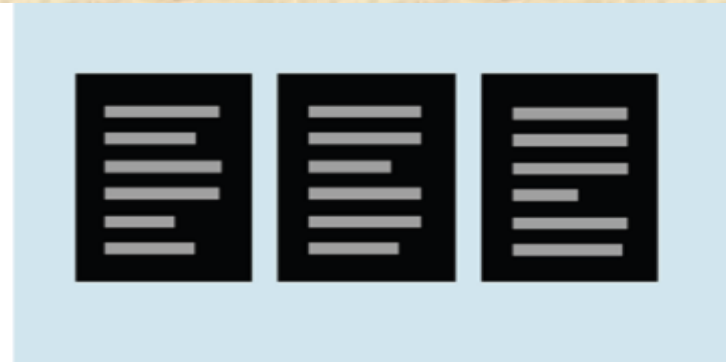


Figure 4-5. *Peer items*

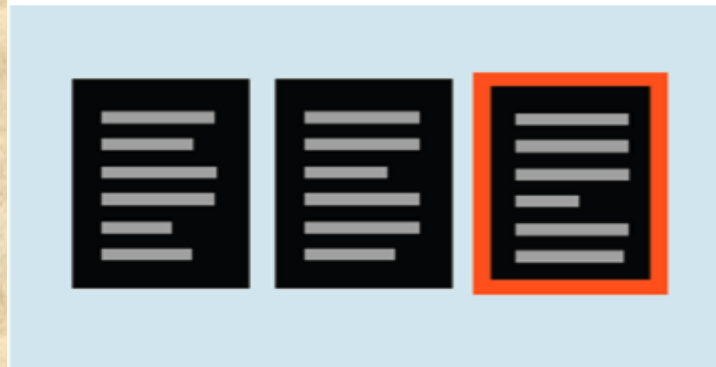


Figure 4-6. *Distinguishing one item among peers*



Figure 4-7. *Lists of items*



Figure 4-8. *Captions and comments*



Figure 4-9. *Containment*

Page Elements Patterns

- 2.1 Visual Framework:

Design each page to use **the same basic layout**, **colors**, and **stylistic elements**, but give the design enough flexibility to handle **varying page content**.

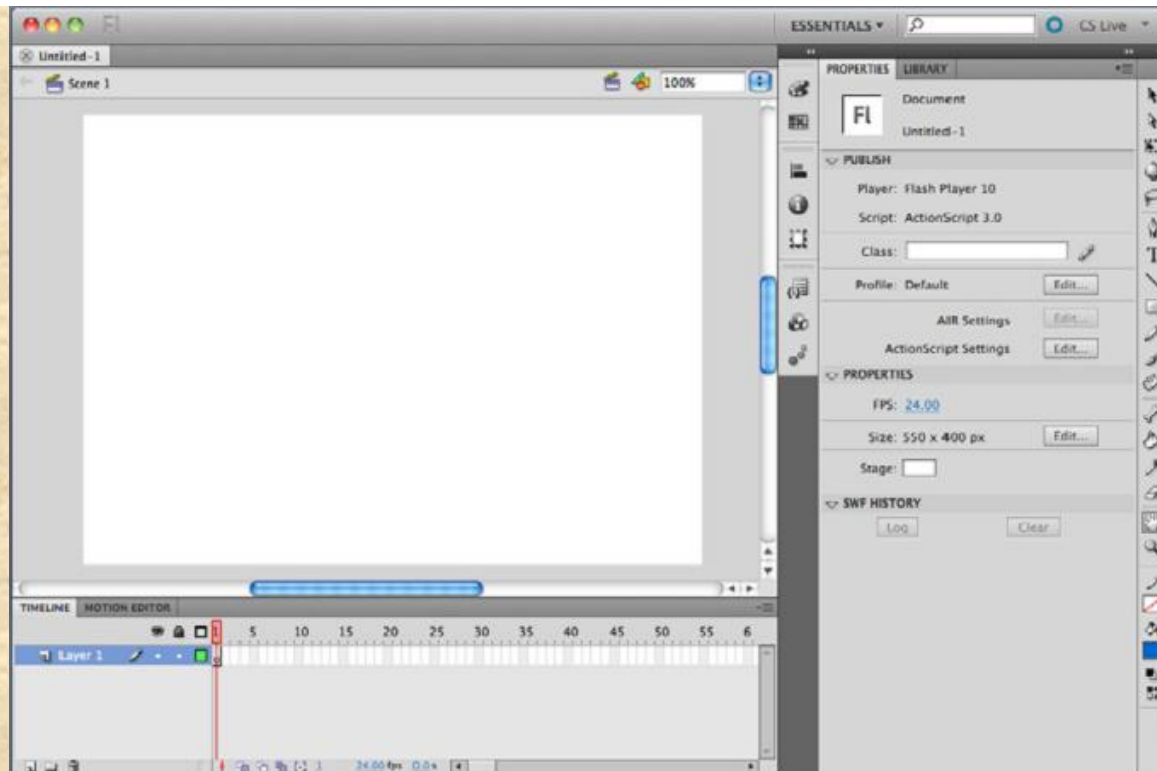


When to use this Pattern?

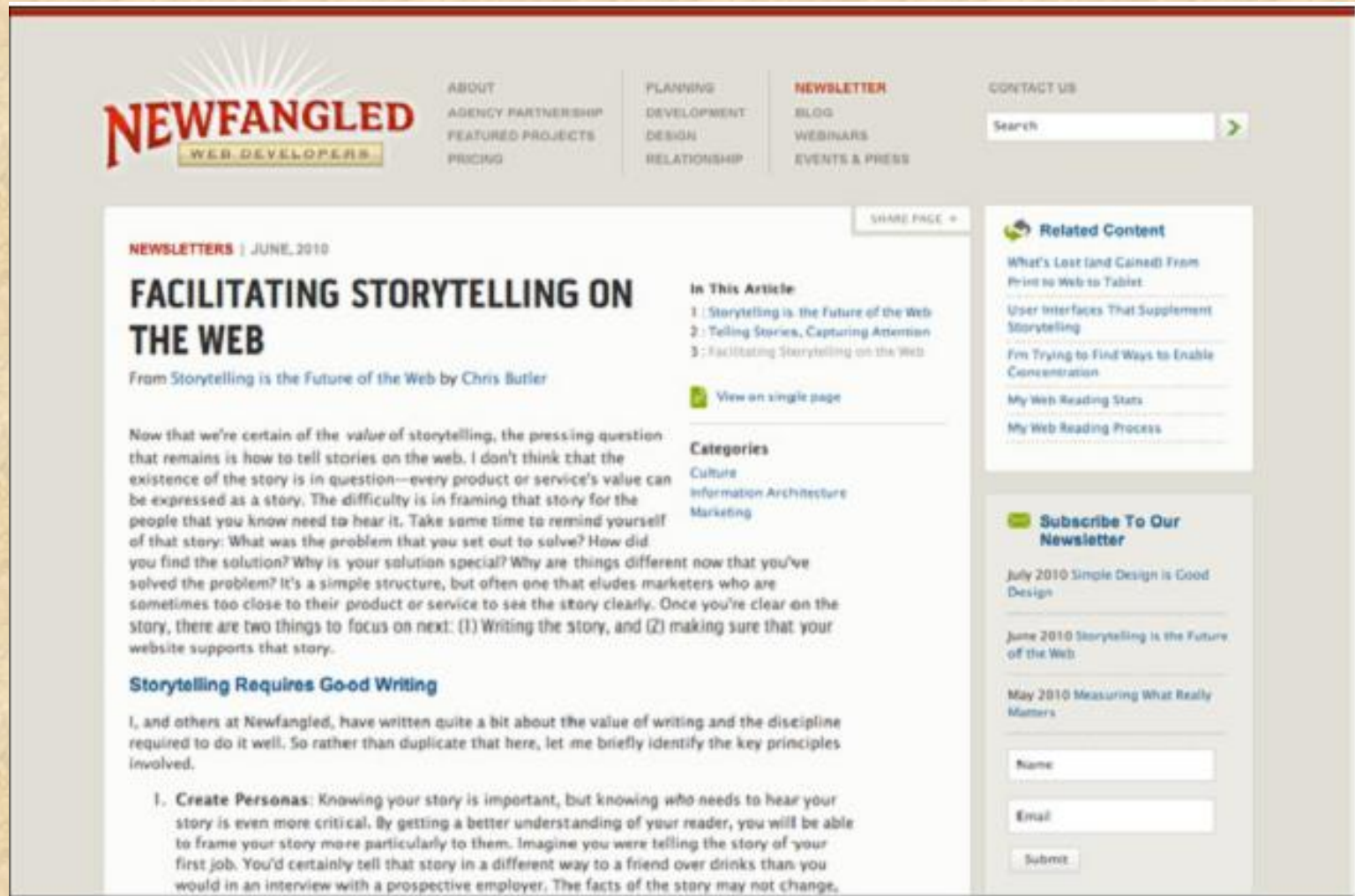
- You're building a website with multiple pages, or a UI with multiple window
- You want it to have **Similar Consistent look**
- you want it to be **easy to use** and **navigate**.

2.2 Center Stage

- Put the **most important part** of the UI into the **largest subsection** of the page or window;
- cluster secondary tools and content around it in smaller panels.



Example




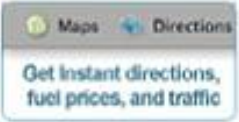



When to use this pattern?

- show a **single unit** of coherent information to the user:
 - let him edit a **document**,
 - or enable him to perform a **certain task**.
- **Other content** and functions are **secondary** to this one.


2.3 Grid of Equals

- Arrange content items in a **grid** or **matrix**. Each item should follow a **common template**, and each item's **visual weight /size** should be similar. Link to jump pages as necessary

MapQuest Tips, Features, and Partners [Check out the MapQuest Blog »](#)

 <p>Evolutionary iPhone App iPhone users rejoice! Now you can easily save Maps and Routes on MapQuest.com and retrieve on your iPhone.</p> <ul style="list-style-type: none">• Get the App now!	 <p>Try Our New Toolbar Add MapQuest to your browser and enjoy anytime access to Maps, Directions, Traffic, Gas Prices & more.</p> <ul style="list-style-type: none">• Get The Toolbar	 <p>New Toolbar with Find Me Your Location...Found! Now you can easily plot your approximate location on a MapQuest map utilizing a WIFI connection, wherever you are!</p> <ul style="list-style-type: none">• Get The Toolbar	 <p>MapQuest Route Planner Give us a trip with up to 25 stops and we'll give you the fastest and shortest route.</p> <ul style="list-style-type: none">• Try It Now!	 <p>MapQuest Customers See how top brands utilize the MapQuest Platform to power their location needs.</p> <ul style="list-style-type: none">• Business Solutions• See Enterprise Site
--	---	---	---	--

Example - CNN

<h2>U.S. »</h2> <ul style="list-style-type: none">• New Orleans asking BP for \$75M grant• Tornado rips through Montana• AZ wildfire forces evacuations• Florida county to feds: Stay out• Hot rods, pinup models fill CA fest• Beachgoers stunned by murky oil• Chicago subway fire injures 12 <p>More</p>	<h2>World »</h2> <ul style="list-style-type: none">• Santos declares victory in Colombia• One year since Neda's death• Sweden's crown princess marries• Xe subsidiary gets Afghan contract• Accused Sudanese rebels surrender• Elton John performs in Israel• Toll in China flood rises to 147 <p>More</p>	<h2>Business »</h2> <ul style="list-style-type: none">• Wall Street's push into China• B&N slashes Nook price to \$150• Is the Fed out of bullets?• China loosens currency chokehold• Bill Gates' very full life after Microsoft• Foreclosure crisis hits minorities hard• How to lower credit card debt <p>More</p>	<h2>Quick vote</h2> <p>Would you donate time or money to help fight the Gulf oil disaster?</p> <p><input type="radio"/> Yes <input type="radio"/> No</p> <p>Vote or view results</p> <p><small>SPONSORED BY</small> EQUIFAX</p>
<h2>Politics »</h2> <ul style="list-style-type: none">• Obama plans bipartisan energy talks• Kagan e-mails show brassy side• Barton BP apology argued• Part-time recovery chief defended• Netanyahu to visit U.S. July 6• Tea Party Express chair resigns• U.S., Cuba talk migration <p>More</p>	<h2>Entertainment »</h2> <ul style="list-style-type: none">• 'Toy Story' breaks box-office records• Perez: no regrets over Miley pic• Man held in actor's kidnapping• Michael Jackson estate to repay L.A.• More ballpark drama for Lady Gaga• Amanda Bynes quits acting via Twitter• Chris Klein checks into rehab <p>More</p>	<h2>Health »</h2> <ul style="list-style-type: none">• Why do we need Bigfoot?• Do women need a sex pill?• Long goodbye of Alzheimer's• Men's voices may predict strength• Breast best for newborns, study says• Study: Cartoons pull kids to junk food• Chemicals found to affect thyroid <p>More</p>	<h2>Sponsored Links</h2> <p>Obama Helps Homeowners Refinance If you owe less than \$729k you probably qualify for Obamas Refi...</p> <p>Mom Wins iPad for \$23.74? Special Report: Apple iPads are being auctioned for an incredible 80% off!</p> <p>Get Your Own Debt Bailout See if You Too Qualify for The Gov'ts Personal Credit Reform Bailout!</p> <p>Buy a link here</p>
<h2>Tech »</h2> <ul style="list-style-type: none">• It's not just teens who text and drive• A look at winners and losers from E3• Is AT&T ready for the iPhone 4?• How to get TV on the internet• Microsoft school gets back to basics• World Cup vuvuzelas buzz online• Why you won't pay for Facebook <p>More</p>	<h2>Living »</h2> <ul style="list-style-type: none">• Warhol, Hendrix, grandma got rejected• Your pilot dies, lions are circling• Newlyweds lose \$3,000 wedding gift• Taking action against job burnout• Florida tourism biz fights back• School of future focuses on basics• 10 things my father was right about <p>More</p>	<h2>Justice »</h2> <ul style="list-style-type: none">• Van der Sloot: I was 'tricked'• Man fights to be Jaycee Dugard's dad• Six trials, then a 30-minute verdict• Cops want info on Kyron's stepmom• Man charged with killing family• Killer, 13, locked up until he turns 21• Young gymnast still missing <p>More</p>	<h2>CNN Challenge »</h2>  <p>Take our new online news trivia quiz hosted by your favorite CNN anchors.</p> <p>Play</p>

When to Use?

- The page contains many **content items** that have **similar style and importance**:
 - news articles,
 - blog posts,
 - products,
 - or subject areas.
- You want to present the viewer with rich opportunities to **preview** and **select** these items.

2.4 Titled Sections مناطق مستطيلة

- Define separate sections of content by giving each one a visually **strong title**,
- **separating** the sections **visually**,
- and **arranging** them on the page.

The image shows a screenshot of the JetBlue website interface, illustrating three distinct titled sections arranged side-by-side. Each section has a blue header bar with white text, followed by a light gray content area.

- Find your flights**: This section includes a sub-header "Find your flight below in order to" followed by two columns of bullet points: "Check in online", "Print your boarding pass", "Select or change your seats", "Enjoy Even More Legroom™", "Change or cancel a flight", and "View your itinerary". Below this is a sub-header "Lets find your flight" and two login options: "Use your TrueBlue account" (with a "Sign in" button) and "Use your confirmation number" (with input fields for "Confirmation #" and "Last Name", a "Find my flight details" button, and a "Where can I find this?" link). A footer note mentions "CompanyBlue flights" and "Getaways vacation packages".
- Check the status of a flight**: This section features a "Check status" button and a link to "Get flight updates by email".
- Check in online**: This section includes text about checking in up to 24 hours in advance and a "Get boarding pass" button.

Example – Amazon Account page

Your Account

Orders

See & Modify Recent Orders



View, Modify, Track or Cancel an Order

Your orders

Search Orders

Title, Department, Recipient...

Go

Order History

View Open Orders

View Your Digital Orders

View Used Item Pre-orders

View Your PayPhrase Orders

More Order Actions

Return Items or Gifts

Manage Subscribe & Save Items

Manage Magazine Subscriptions

Leave Seller Feedback

Leave Packaging Feedback

Manage Prime Membership

View Your E-mails with Sellers

E-mail Address

jdowell@jdowell.net

Password

Sign In

Forgot Your Password?

Payment

Credit Cards & Gift Cards

Payment Methods

Manage Payment Options

Add a Credit Card

View Check Balance

Amazon Credit Cards

Manage PayPhrases

Gift Cards

View Gift Certificate/Card Balance

Apply a Gift Certificate/Card to Your Account

Manage Scheduled E-Mail Gift Cards

Manage Bulk Gift Card Orders

Purchase a Gift Card

Your Other Accounts

Your Seller Account

Your Trade-In Account

Corporate Account

Web Services Account

Amazon Payments Account

Sell Your Stuff

Settings

Password, Prime & E-mail

Account Settings

Change Name, E-mail Address, or Password

Forgot Your Password?

1-Click Settings

Manage Prime Membership

Manage Amazon Student Membership

Address Book

Manage Address Book

Add New Address

E-mail from Amazon

E-mail Preferences & Notifications

Amazon Delivers E-mail Subscriptions

Product Availability Alerts

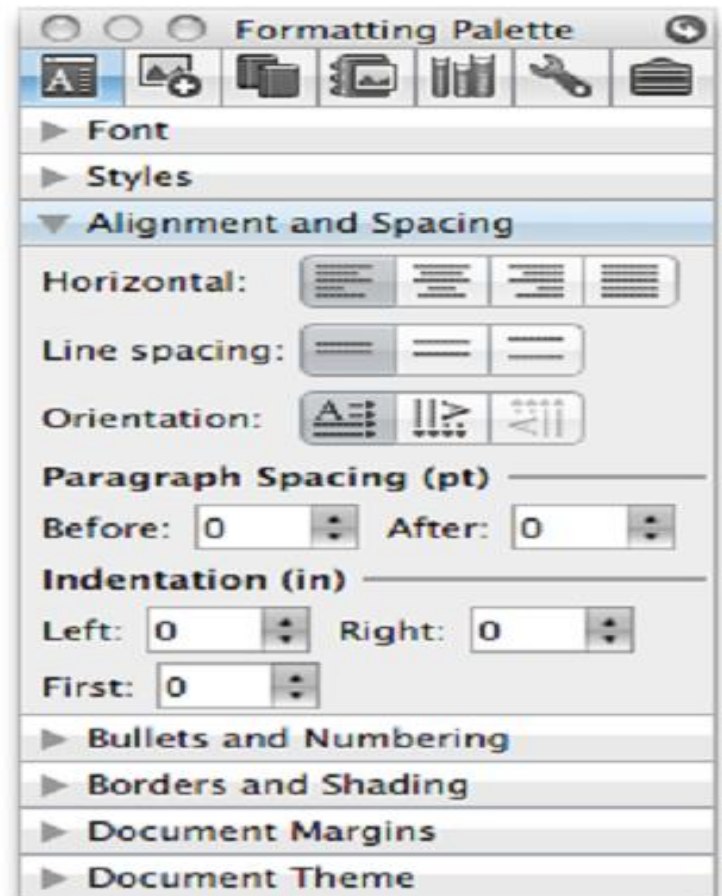
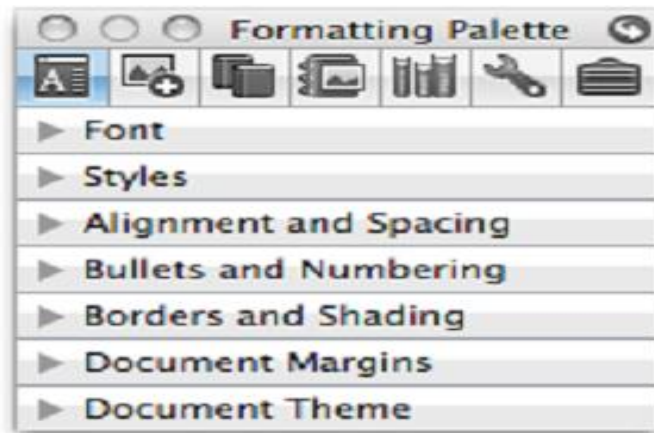
Special Occasion Reminders

When to Use?


- You have a lot of **content to show**, but you want to make the page easy to scan and understand, with **everything visible**.
- You can **group** the content into **task-based** sections that make sense to the user.

2.5 Accordion

- Put modules of content into a **collinear stack** of panels that can be **closed** and **opened** independently of each other.



Example – CNN side bar

Hi there!
[Log in](#) | [sign up](#)

FRIENDS' ACTIVITY ▲

NEWSPULSE ▲

LOCAL WEATHER & NEWS ▲

SPORTS ▼

See the latest Scoreboard for:

MLB


Scoreboard

Choose my MLB teams

NY Yankees	2	3 Top
TB Rays	3	
CLE Indians	3	4 Middle
DET Tigers	0	

[More MLB](#) | [SI.com](#)

MARKETS ▲

Hi there!
[Log in](#) | [sign up](#)


FRIENDS' ACTIVITY ▲

NEWSPULSE ▲

LOCAL WEATHER & NEWS ▼

GO

Welcome, NC



88° Cloudy

Hi 89° | Lo 72°

Feels like 96°

10-day

- Strong thunderstorms rock the region
WECT - News
- #Free #Wilmington free exercise bike (carya dr):
come get it before rain hits! Ou...
Twitter Search near Wilmington, NC

[More Neighborhood News from Outside.in](#) »

SPORTS ▲

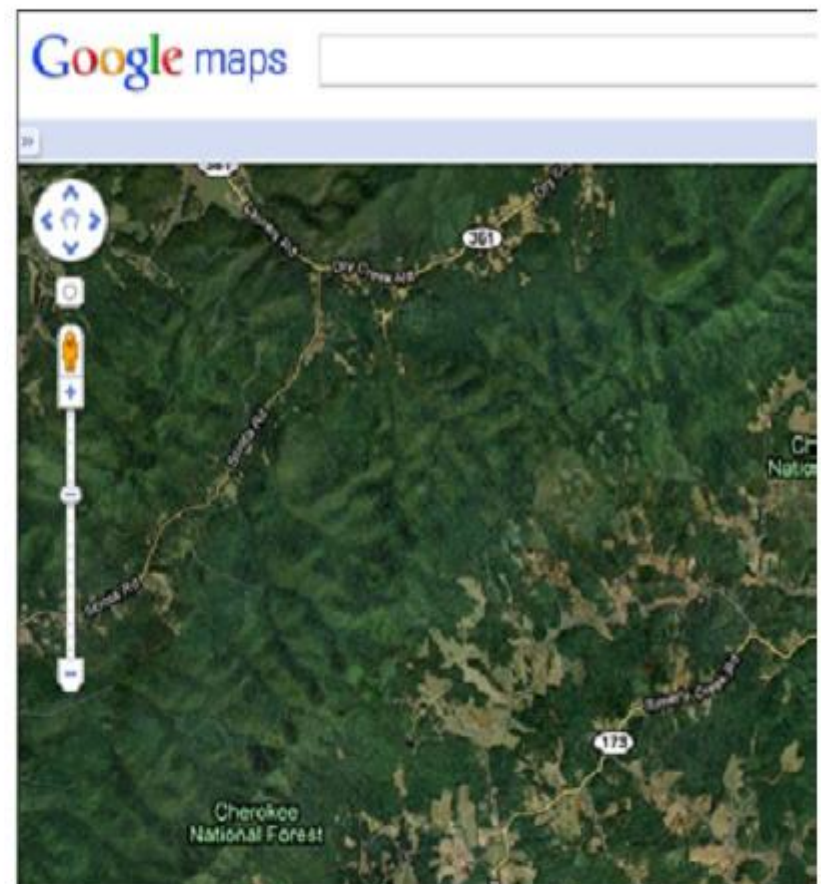
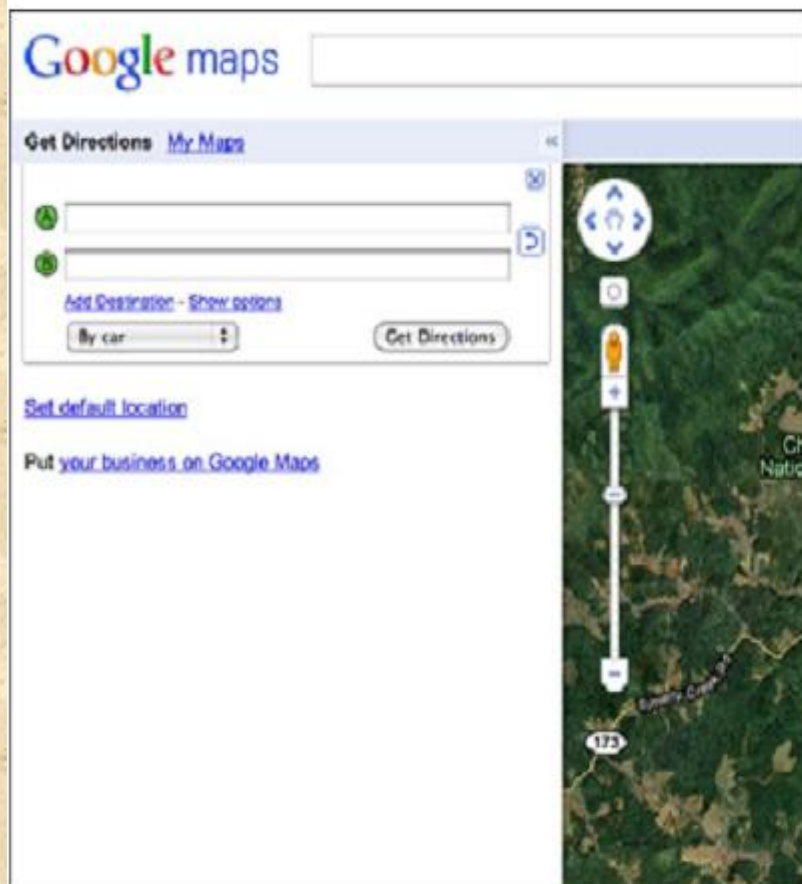
MARKETS ▲

When to Use?

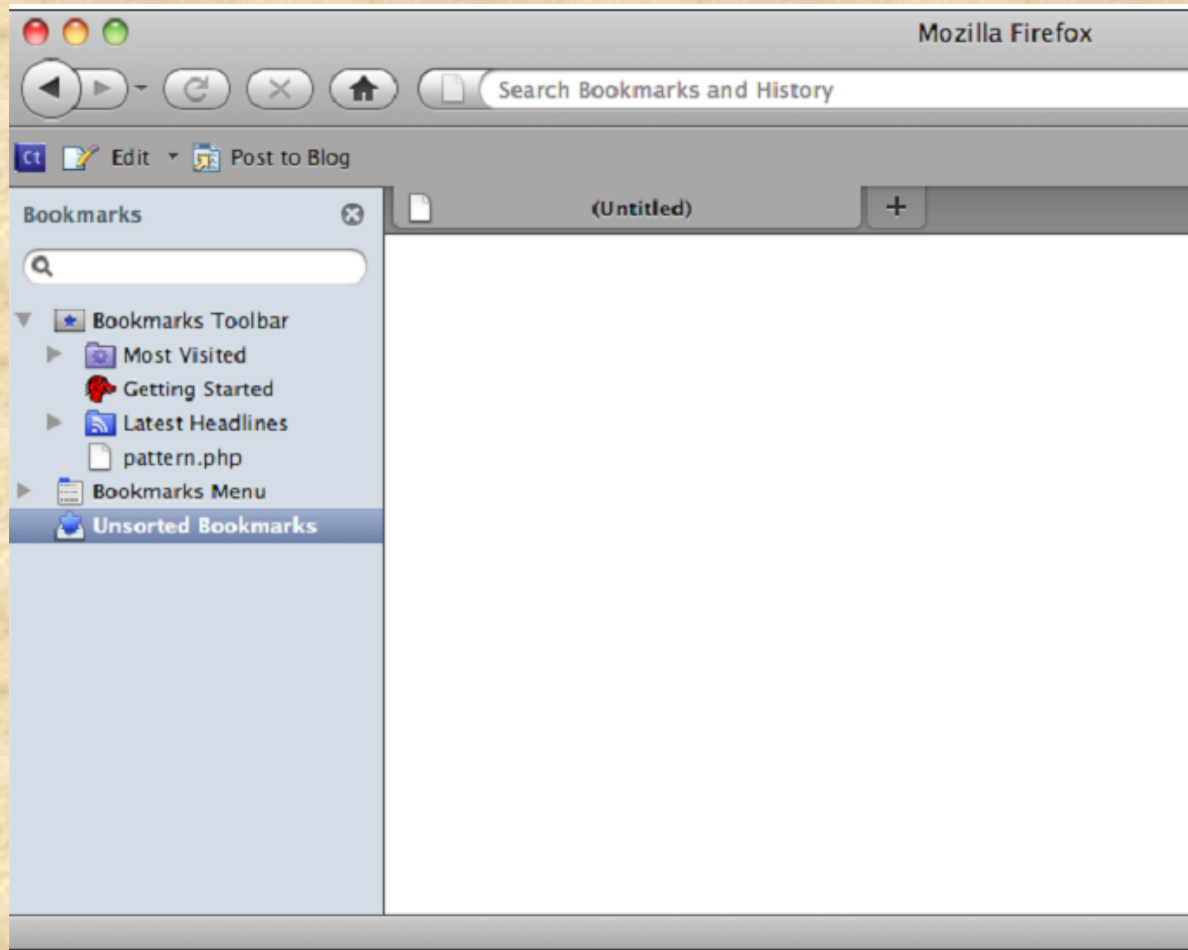
- You have a lot of **heterogeneous content** عناصر غير متماثلة to show on the page,
 - possibly including text blocks, lists, buttons, form controls, or images.
- You **don't** have **room/space** for **everything**
- Some modules are much **taller or shorter** than others, but they're all of **similar width**.
- Tool palettes
- You may want to preserve the **linear order** of the modules.

2.6 Collapsible Panels

- Put secondary or optional material into panels that can be opened and closed by the user.



Example- Firefox bookmarks

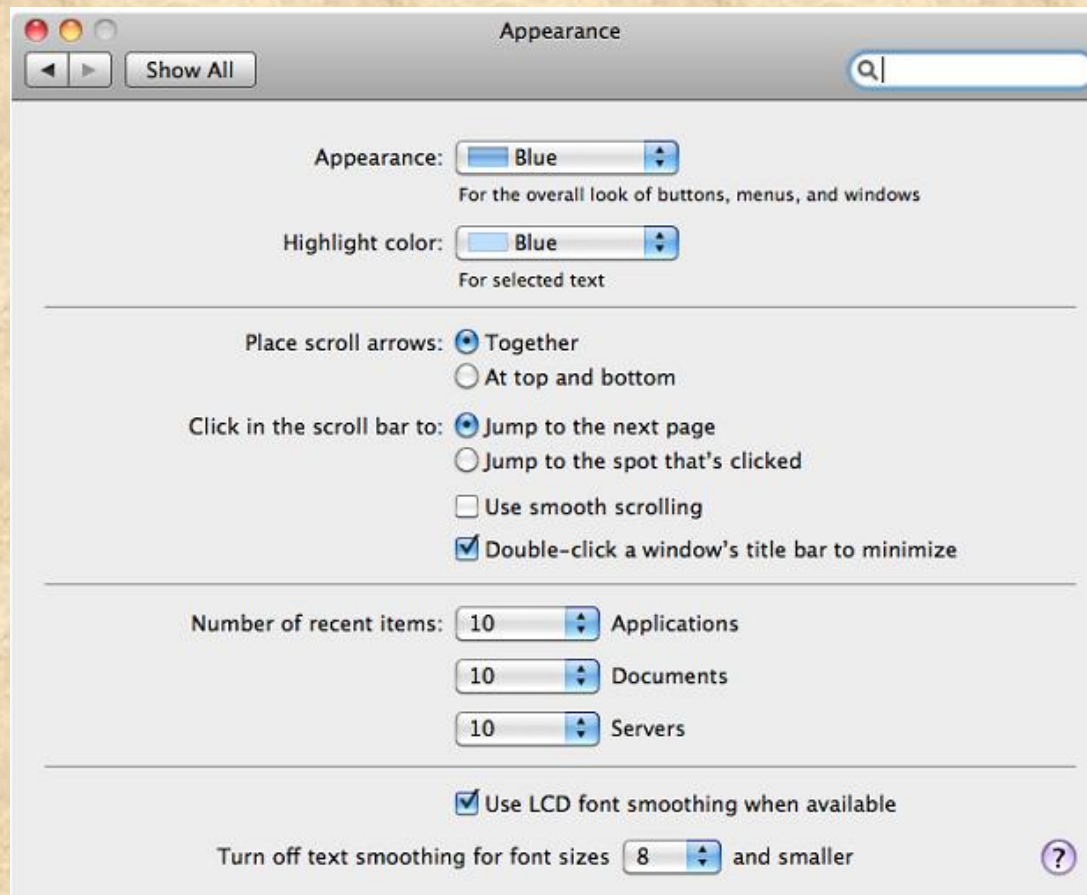


When to Use?

- **heterogeneous content** to show on the page,
 - possibly including text blocks, lists, buttons, form controls, or images.
- You don't have room for everything.
- But, You have **Center Stage content** that needs to take **visual priority**
- Some of the page content comes in **groups**

2.7 Right/Left Alignment

- When designing a **two-column form** or table, right-align the labels on the left and left-align the items on the right.

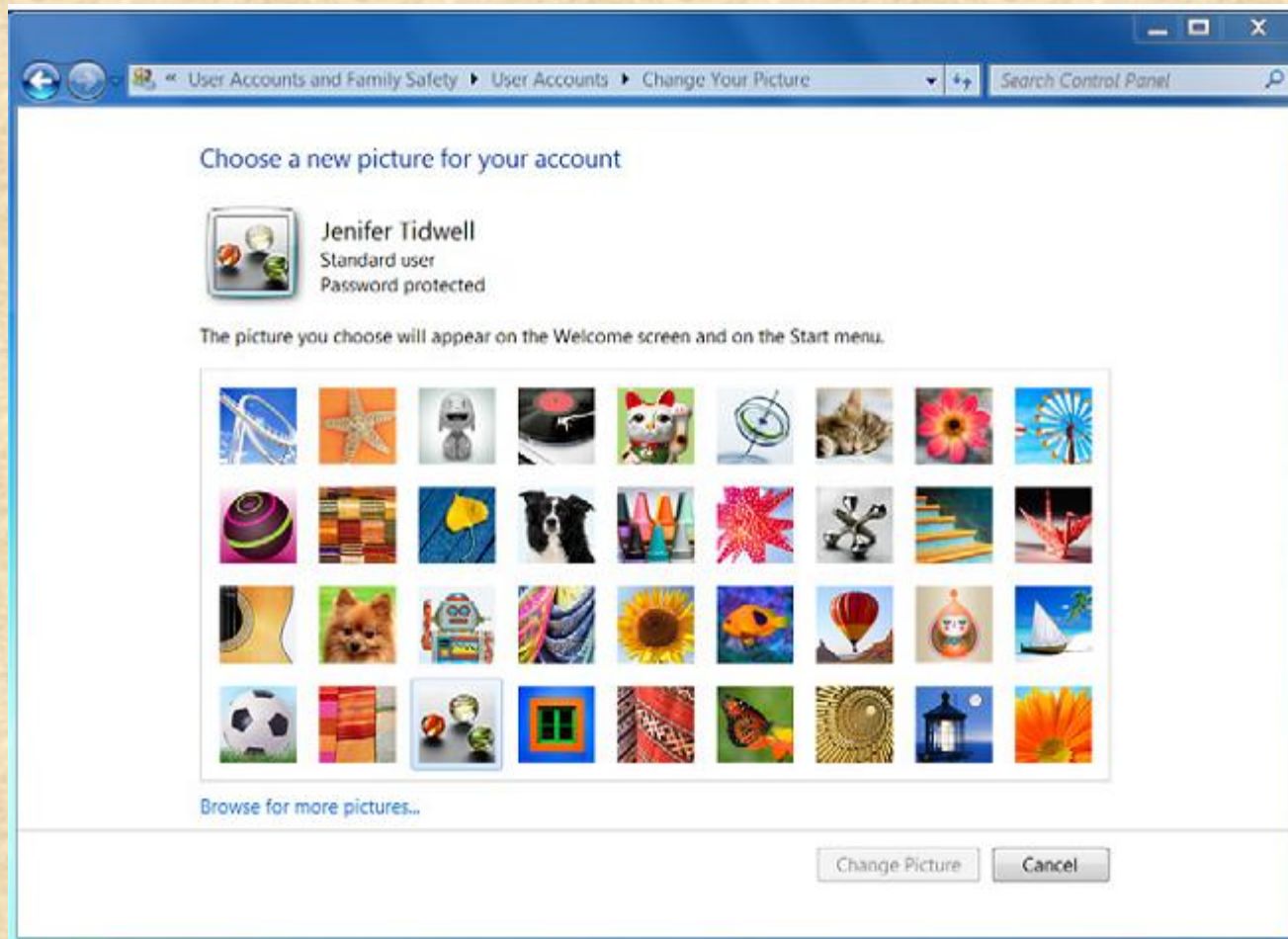


When to use?

- You're laying out a form or any other set of items that have text labels in front of them
- The labels come in **many lengths**
 - (some are short, some long, some line-wrapped.)
- And Left-aligning the labels would put some of them **too far away** from their **associated** fields,
- You don't want leaving a **gap** too large for **users' eyes** to span easily.

2.8 Diagonal Balance

- Arrange page elements in an asymmetric fashion,
- but balance it by **putting visual weight** into both the **upper-left and lower-right corners**.



When to use?

- You have a **title or header** at the **top**,
- and some links or **action buttons** (such as OK/Cancel/ Submit/ Back/Next) at the **bottom**.
- The **page** is short enough to **fit** on the screen **without scrolling**.









2.9 Responsive Disclosure

- Starting with a **very minimal UI**, guide a user through a series of **steps** by **showing more** of the UI as he completes each step

Which body styles are you considering?

- ☒ Any body style
☐ Select a body style (sedan, SUV, truck...)

Which body styles are you considering?

- ☐ Any body style
☒ Select a body style (sedan, SUV, truck...)
- | | | | |
|--------------------------------------|---|---|---|
| <input type="checkbox"/> Convertible |  | <input checked="" type="checkbox"/> SUV |  |
| <input type="checkbox"/> Coupe |  | <input type="checkbox"/> Truck |  |
| <input type="checkbox"/> Hatchback |  | <input checked="" type="checkbox"/> Van/Minivan |  |
| <input type="checkbox"/> Sedan |  | <input checked="" type="checkbox"/> Wagon |  |

When to use?

- The user should be **walked through a complex** task step by step,
- And You want to keep the whole interface on one **single page**.
- Or, **branched** tasks, with **different** types of information required depending on a user's **earlier choices**.

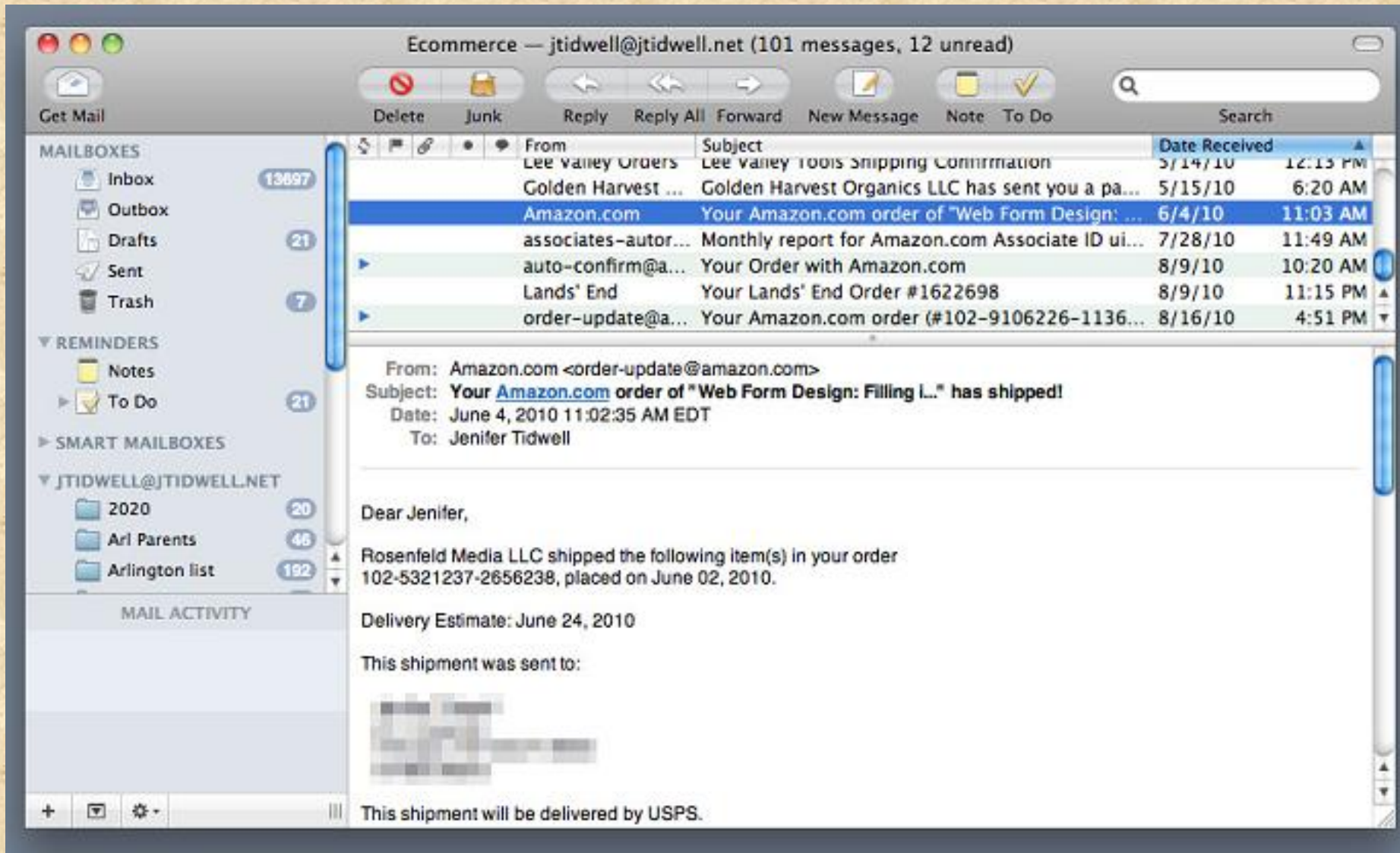
Type 3:
Lists of Things Patterns

3.1. Two-Panel Selector

- Put two side-by-side panels on the interface. In the first one, show a list of items that the user can select any item (categories); in the second one, show the content of the selected item.



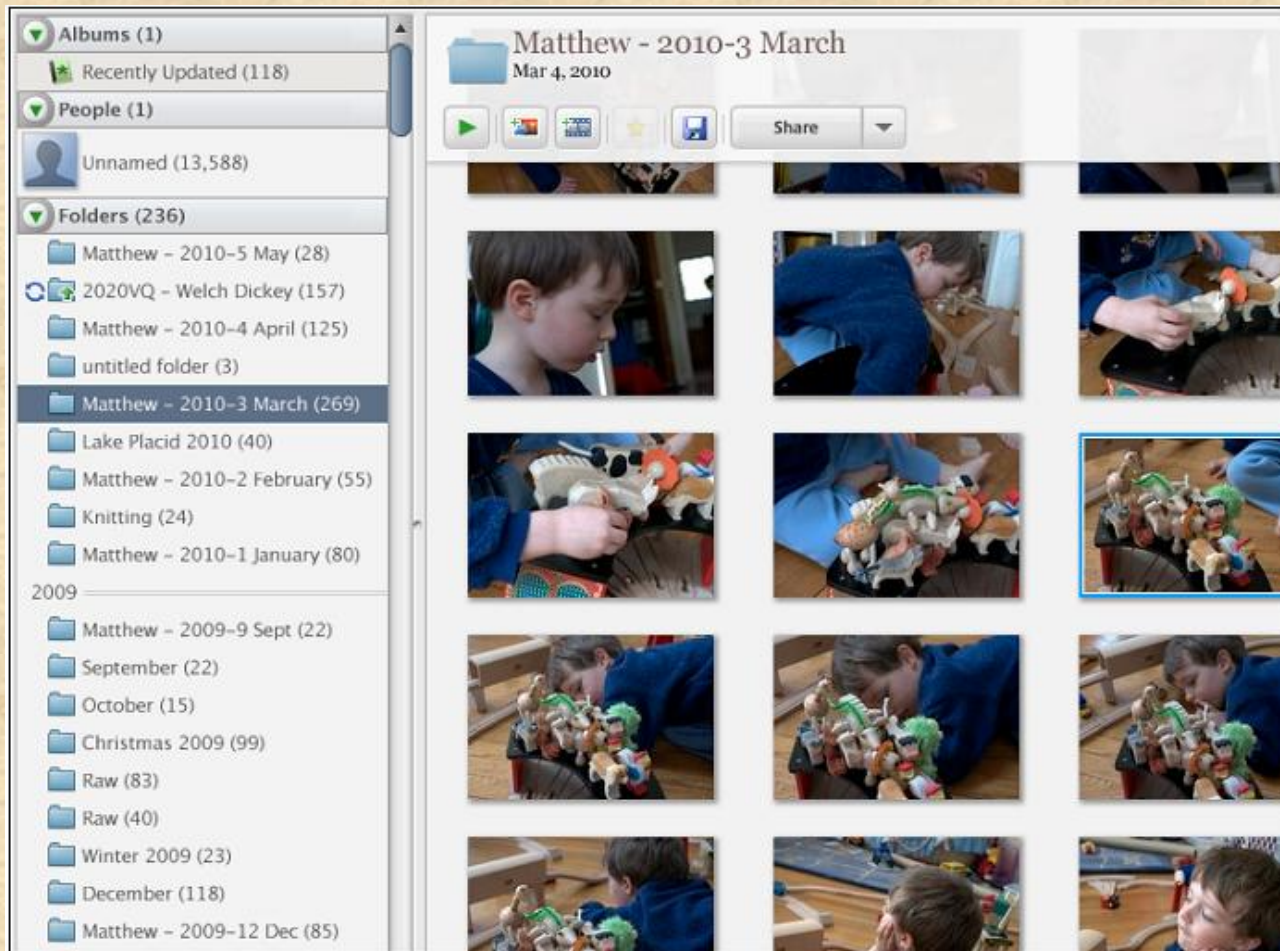
Example- Email Client



When to use this pattern?

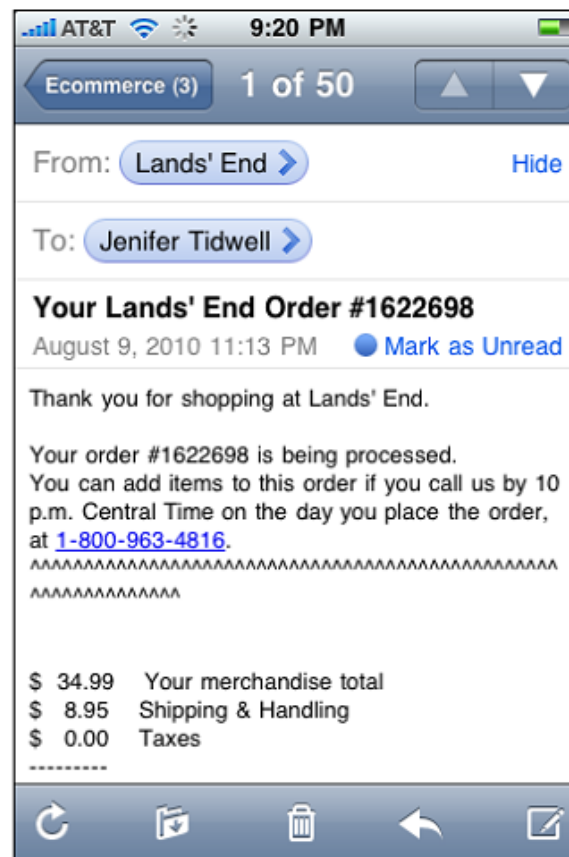
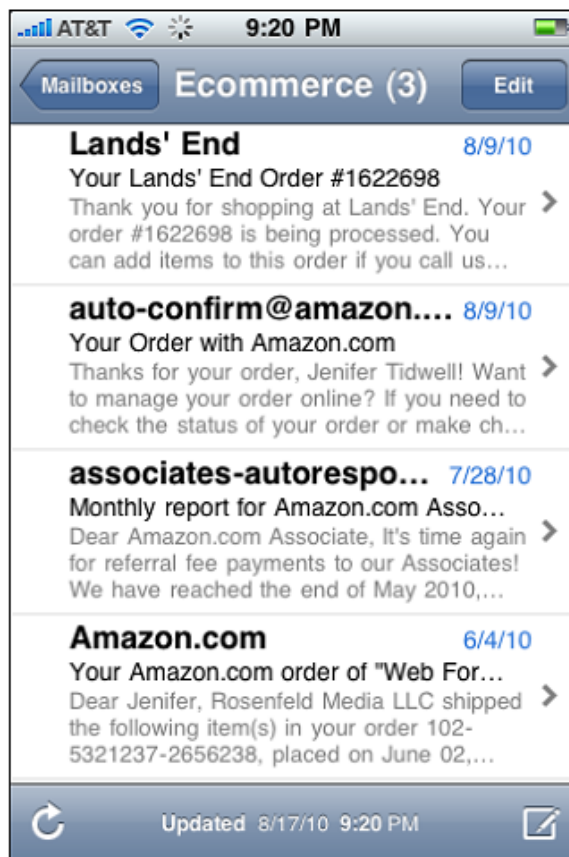
- You want the user to see the **overall structure of the list** and keep that list in view **all the time**
- but you also want him to be able to browse through **the items easily and quickly**.
- People won't need to see the details or content of more than **one item at a time**.

Example 2- Picasa

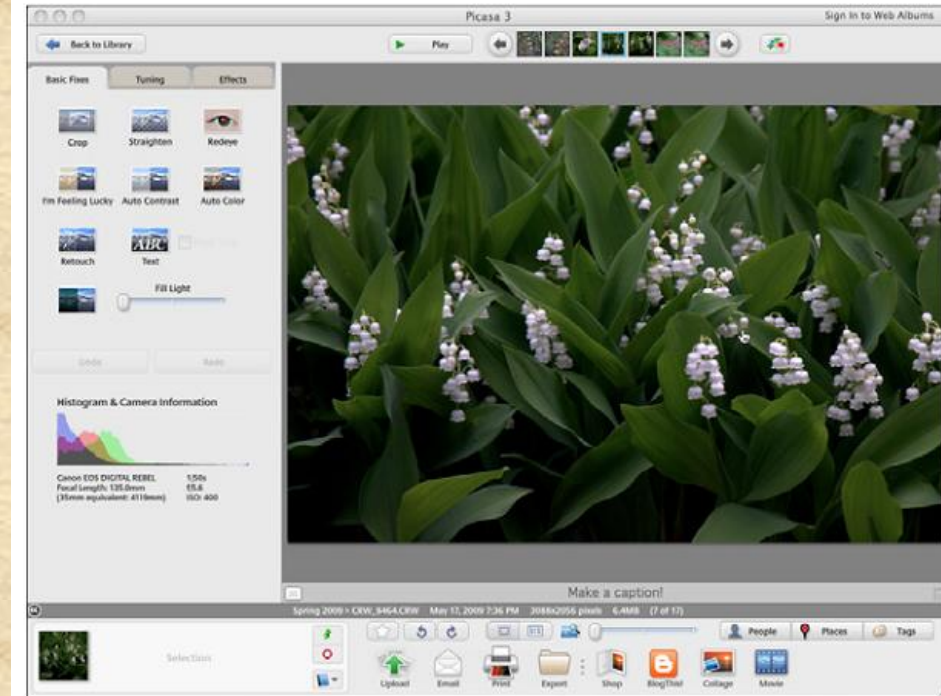
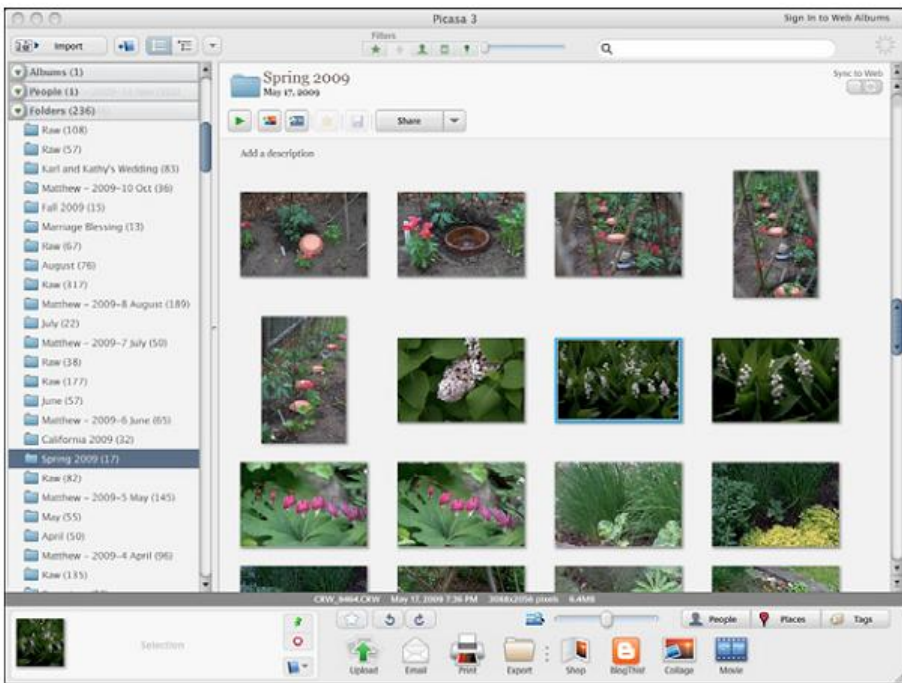


3.2. One-Window Drilldown

- Show a list or menu of items in a single window. When the user selects an item from the list, show the details or contents of that item in the window, replacing the list.



Example- picasa



When to use?

- You have very **little space** to work with—not enough for a Two-Panel Selector or a List Inlay.
- Alternatively, the list items and **contents might just be large**.
- You might need the **entire screen** or window to show the list, and again to show the contents of an item.

3.3. List Inlay

- Show a list of items as rows in a **column**. When the user selects an item, open that item's **details in place, within the list** itself. Allow items to be opened and closed independently of each other.

\$359 [Select](#) JetBlue Airways BOS 9:30a → LAX 12:37p 0 (6h 07m)
LAX 8:30a → BOS 4:58p 0 (5h 28m)
4 sites [details](#) [save](#) [share](#) [close](#)

\$359 [Select](#) JetBlue Airways BOS 6:48p → LAX 9:57p 0 (6h 09m)
LAX 8:30a → BOS 4:58p 0 (5h 28m)
4 sites [details](#) [save](#) [share](#) [close](#)

\$371 [Select](#) A/A American Airlines BOS 7:05p → LAX 10:25p 0 (6h 20m)
LAX 7:35a → BOS 3:55p 0 (5h 20m)
1 sites [details](#) [save](#) [share](#) [close](#)

\$371 [Select](#) A/A American Airlines BOS 7:05p → LAX 10:25p 0 (6h 20m)
LAX 12:40p → BOS 9:10p 0 (5h 30m)
1 sites [details](#) [save](#) [share](#) [close](#)

\$391 [Select](#) Virgin America BOS 7:00a → LAX 10:10a 0 (6h 10m)
LAX 11:35a → BOS 8:00p 0 (5h 25m)
4 sites Prem Economy: [\\$829](#) [details](#) [save](#) [share](#) [close](#)

\$391 [Select](#) Virgin America BOS 7:00a → LAX 10:10a 0 (6h 10m)
LAX 7:15a → BOS 3:45p 0 (5h 30m)
4 sites Prem Economy: [\\$829](#) [details](#) [save](#) [share](#) [close](#)

\$391 [Select Alaska Airlines / United BOS 7:05p → LAX 10:25p 0 \(6h 20m\)
LAX 10:35p → BOS 7:06a 0 \(5h 31m\)
3 sites \[details\]\(#\) \[save\]\(#\) \[share\]\(#\) \[close\]\(#\)](#)

\$359 [Select](#) JetBlue Airways BOS 9:30a → LAX 12:37p 0 (6h 07m)
LAX 8:30a → BOS 4:58p 0 (5h 28m)
4 sites [details](#) [save](#) [share](#) [close](#)

\$359 [Select](#) JetBlue Airways BOS 6:48p → LAX 9:57p 0 (6h 09m)
LAX 8:30a → BOS 4:58p 0 (5h 28m)
4 sites [details](#) [save](#) [share](#) [close](#)

print share: [facebook](#) [add to trip](#) [close](#)

Economy	Cost per Ticket	Total
Orbitz	\$359.40	\$359.40 Go
CheapTickets.com	\$359.40	\$359.40 Go
JetBlue Airways	\$359.40	\$359.40 Go
Expedia.com		click to see rates

Flight Details

Depart - Wed Aug 25 2010

[JetBlue Airways](#) Flight 483 Departs: 6:48p Arrives: 9:57p
Logan International (BOS) Los Angeles (LAX)
Coach | Fare code: MH140 | Airbus A320-100/200 (narrow-body jet) | 6h 09m
| 2604 miles | 7 seats remain

Return - Wed Sep 1 2010

[JetBlue Airways](#) Flight 478 Departs: 8:30a Arrives: 4:58p
Los Angeles (LAX) Logan International (BOS)
Coach | Fare code: MH140 | Airbus A320-100/200 (narrow-body jet) | 5h 28m
| 2604 miles | 1 seats remain

\$371 [Select](#) A/A American Airlines BOS 7:05p → LAX 10:25p 0 (6h 20m)
LAX 7:35a → BOS 3:55p 0 (5h 20m)

Example-Google Reader



All items Search

Add a subscription

All items (1000+)

People you follow (27)

Explore

Subscriptions

News (1000+)

NPR : National Public... (688)

BusinessWeek Online -...

BBC News | News Front... (1000+)

Boston Globe -- Front...

Google News (1000+)

Home - BostonHerald.com (1000+)

MarketWatch.com - Top... (1000+)

Projo 7 to 7 News Blog (643)

UnionLeader.com -- RS... (509)

WBZ-TV - Breaking New...

Design Observer: Main...

information aesthetics (15)

visualcomplexity.com

Boxes and Arrows

Ghostweather R&D Blog

NPR : National Public Radio : News & Analysis, World, US, Mu Show: Expanded - List

Show: 688 new items - all items Mark all as read Refresh Feed settings... show details

☆ Poisonings Of Kids With Household Chemicals Decline, But Remain A Problem - 10:35 AM

☆ Obama Says U.S. Will Leave Iraq 'On Schedule' - In a speech to veterans in Atlanta, 8:48 AM

☆ Rocket Aimed Toward Israeli City Lands In Jordan - At least one person was killed 7:30 AM

☆ Sudan's 'Arrow Boys' Challenge Militants - For the past four years, a group of militants 6:59 AM

☆ Lindsay Lohan Leaves Jail, Heads Off To Rehab - The troubled starlet was released at 6:35 AM

☆ BP Keeps Look Out For Vanishing Gulf Oil - BP soon could begin to pump mud into its 6:35 AM

☆ Adult Stem Cell Research Far Ahead Of Embryonic - Dr. Thomas Einhorn was treating 5:40 AM

☆ Paris' Popular Bike Rentals Spark Electric Car Plans - Paris plans to launch the world's 5:40 AM

Paris' Popular Bike Rentals Spark Electric Car Plans

1 person liked this

Paris plans to launch the world's largest electric car access scheme in September of next year. The city is hoping to emulate the popularity of its easy rental system for bicycles with a plan that will allow Parisians to rent an electric vehicle whenever they need to.

[E-Mail This](#) [Add to Del.icio.us](#)



☆ Add star Like Share Share with note Email Keep unread Edit tags: News

Previous item Next item

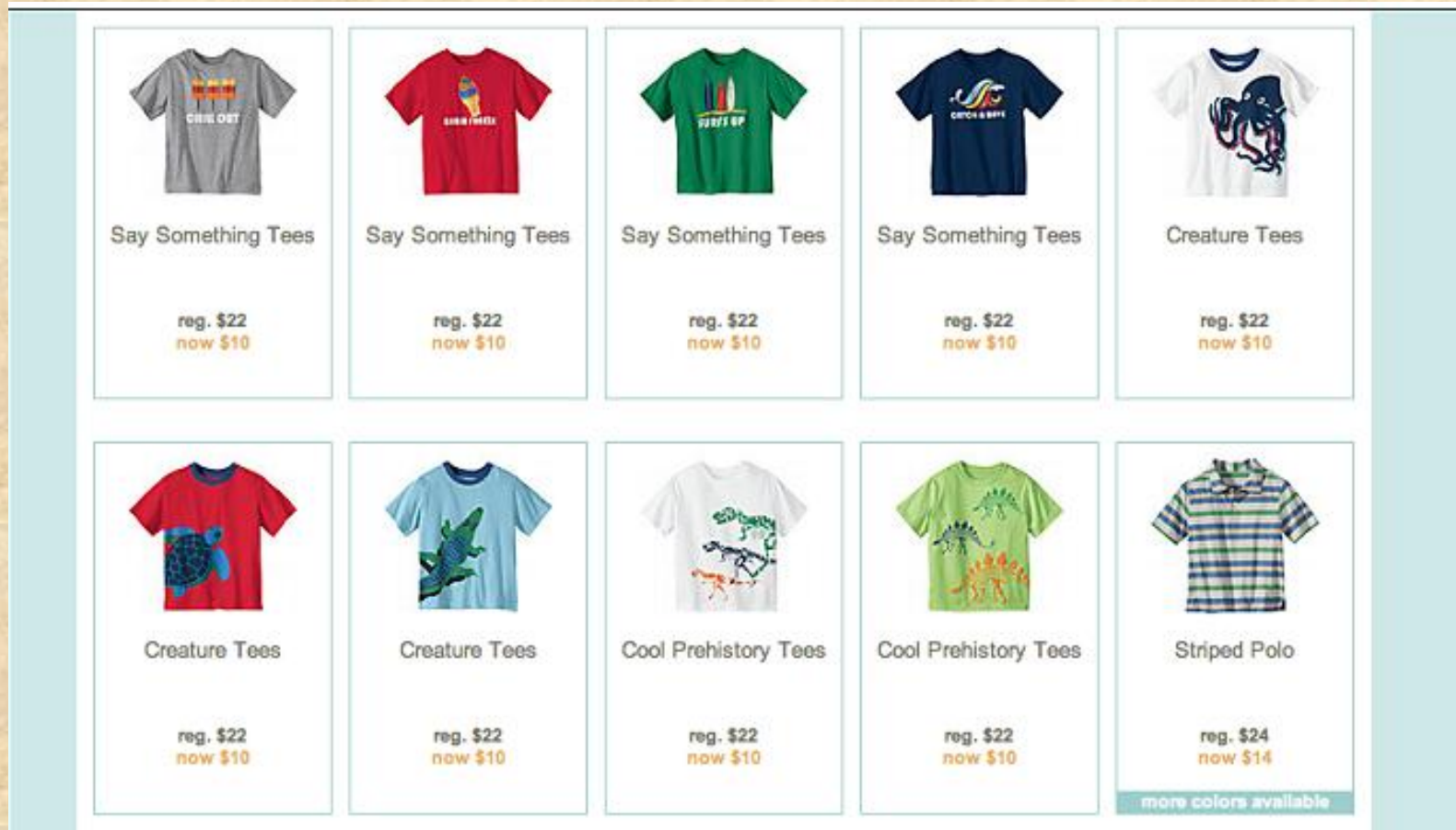
more than 60 items

When to Use this Pattern?

- You have a list of items to show.
- Each item has **interesting content** associated with it (text of an email message, a long article, a full-size image, or details about a file's size or date)
- The item details **doesn't** need **large amount** of space, **but** they're **not small** that you can **fit** them all in the list itself

3.4 Thumbnail Grid

- Arrange a list of visually interesting items into a “**small multiples**” grid of **thumbnail images** صور مصغرة للمعاينة.
- Let the user **select** one or more thumbnails to **view** or **manage** those items.



When to Use?

- A long List .
- The list items have small visual representations that uniquely identify them: (images, logos, screen captures, reduced photos, ...).
- These representations are similar in size and style.

Example



3.5 Carousel

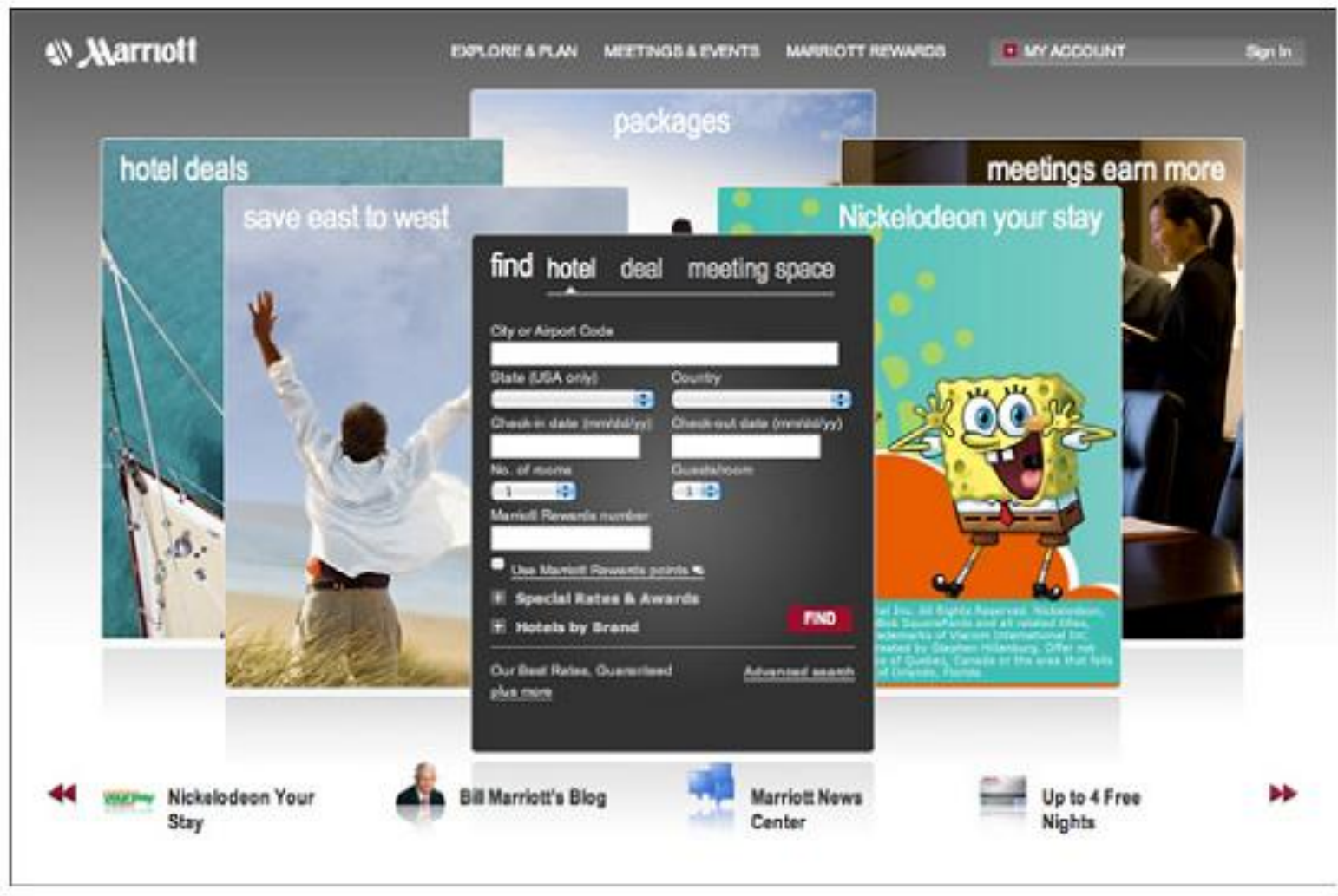
- Arrange a list of visually interesting items into a **horizontal strip** **قوس** or **شريط**,
arc or **strip**,
- and let the user **scroll** or **swipe** the image thumbnails back and forth to view them.
- **Enlarge** the **center item**, if possible.



When to Use?

- **Flat Lists:**
(i.e., not divided into categories or containers).
- The list items have **visual representations** that uniquely identify them(images, logos, screen captures, reduced photos, and so forth)
- Items representations are **similar in size and style**.
- You want to show **only a little** amount of metadata (**information about the item**) (such as its name and date)

Example- Marriott website



3.6 Row Striping

- Use two similar shades to alternately color the backgrounds of the table rows.

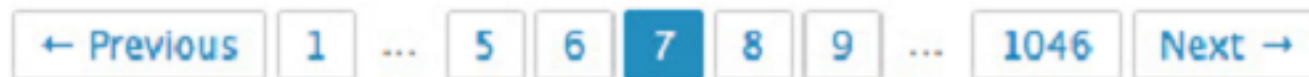
Wednesday Aug 25 from \$99				
Departs/Arrives	Route	Flight	Info	Lowest Price/Person*
08:30 AM 11:05 AM	Boston, MA (BOS) to New Orleans, LA (MSY)	401		<input type="radio"/> \$99
09:30 AM 10:43 AM	Boston, MA (BOS) to New York City, NY (JFK)	1007		<input type="radio"/> \$113
02:35 PM 05:01 PM	New York City, NY (JFK) to New Orleans, LA (MSY)	119		
11:23 AM 12:33 PM	Boston, MA (BOS) to New York City, NY (JFK)	1013		<input type="radio"/> \$113
02:35 PM 05:01 PM	New York City, NY (JFK) to New Orleans, LA (MSY)	119		
12:09 PM 01:20 PM	Boston, MA (BOS) to New York City, NY (JFK)	1011		<input type="radio"/> \$113
02:35 PM 05:01 PM	New York City, NY (JFK) to New Orleans, LA (MSY)	119		

When to Use?

- Your interface presents data in a **large multicolumn table**,
- but the table's rows are **difficult to separate** visually.
- Users will need to **look up specific** data items in the table.

3.7 Pagination

- Break up a very long list into **pages**, and **load** them **one at a time**.
- Provide controls for the user to **navigate the list**—**next, previous, first, and last pages**.



When to Use?

- **Very long List**
- Users **don't** really want to see the **entire list**.
- The **technology** you're using **doesn't support** loading the entire list into a **single page** because of :
 - Loading the whole list would take **too much time**, and you don't want to make the user wait.
 - **Rendering/drawing** the list would take too much time.
 - The list is effectively "**bottomless/endless**" and implementing an Infinite List or a continuously

3.8 Tree Table

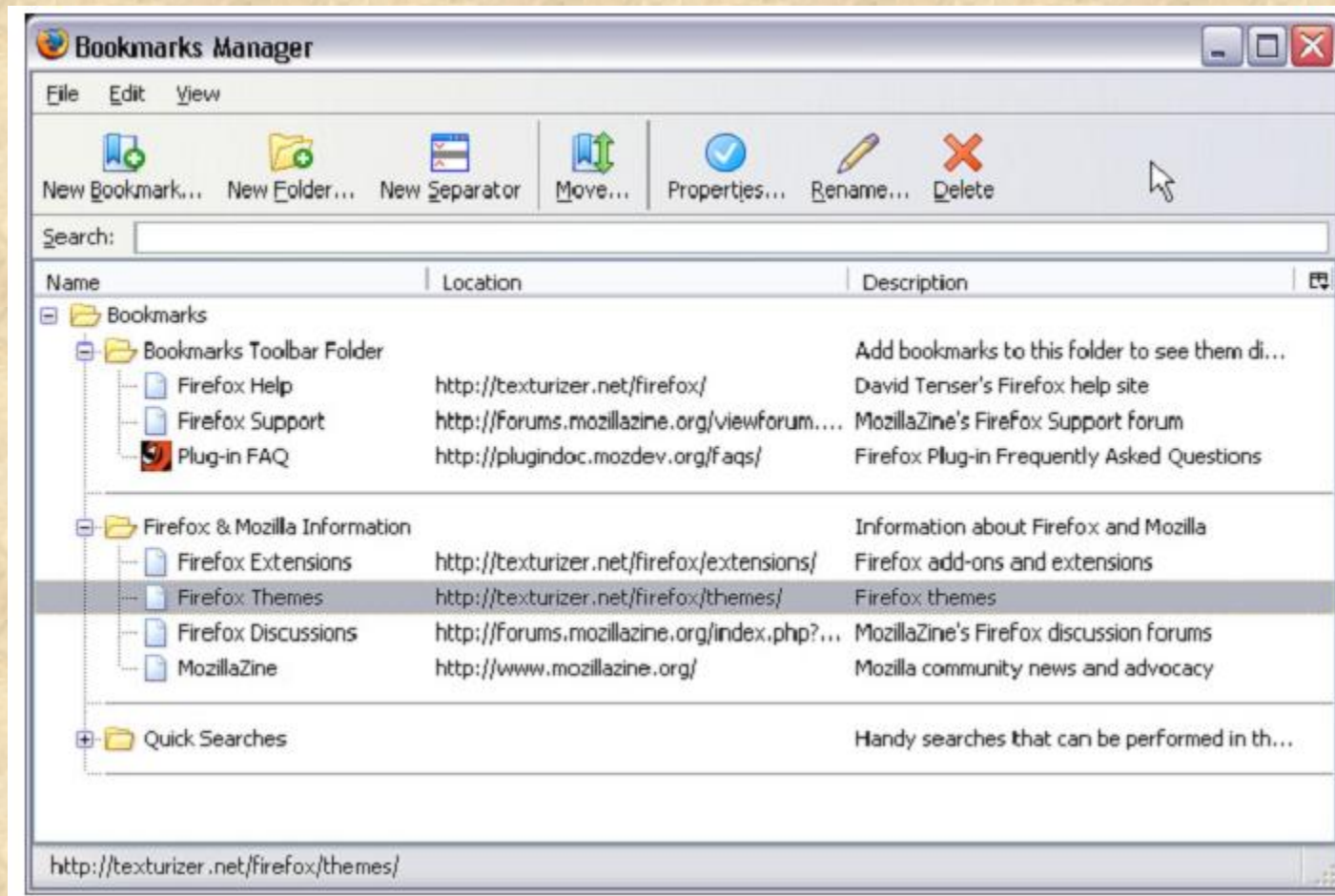
- Put item fields in **table-like columns**, but use an **expandable** outline structure in the **first column** to illustrate the **tree structure**.

Name	Date Modified	Size	Kind
1000 Screenshots	Aug 17, 2010 2:40 PM	--	Folder
└─ Accordions	Jul 18, 2010 2:10 PM	--	Folder
└─ chrome-tools-2.tiff	Jun 29, 2010 2:08 PM	332 KB	TIFF image
└─ chrome-tools.tiff	Jun 29, 2010 2:07 PM	45 KB	TIFF image
└─ cnn-1.tiff	Jul 18, 2010 2:10 PM	41 KB	TIFF image
└─ cnn-2.tiff	Jul 18, 2010 2:10 PM	61 KB	TIFF image
└─ picasa.tiff	Jul 8, 2010 11:36 PM	57 KB	TIFF image
└─ word-1.tiff	Jul 18, 2010 1:56 PM	737 KB	TIFF image
└─ word-2.tiff	Jul 18, 2010 1:57 PM	770 KB	TIFF image
└─ word.tiff	Jul 8, 2010 11:24 PM	627 KB	TIFF image
└─ yahoo-devel.tiff	Jul 9, 2010 11:23 PM	152 KB	TIFF image
▶ Action Panel	Aug 17, 2010 2:42 PM	--	Folder
└─ Advanced Search	Feb 4, 2008 1:51 PM	--	Folder
└─ ebay.tiff	Jan 11, 2008 10:37 AM	135 KB	TIFF image
└─ gather.tiff	Feb 4, 2008 1:51 PM	143 KB	TIFF image
└─ lulu.tiff	Jan 10, 2008 12:37 PM	213 KB	TIFF image
▶ Alphabet Scroller	Aug 17, 2010 2:31 PM	--	Folder
▶ Alternative Views	Jun 23, 2010 12:51 PM	--	Folder
▶ Annotated Scrollbar	Jul 19, 2010 11:33 AM	--	Folder

When to Use?





- **highly structured** List **items** (many specific attributes that are of interest to users).
- You can show them in a **multicolumn** list or table.
- But the items are primarily organized as a hierarchy, so you also want a **tree** to display them most of the time

Example- Firebase Bookmark Manager



3.9 New-Item Row

- Use the **last or first** row in the list or table to **create a new** item in place.

			8:00	9:00
		All Attendees		
		Jenifer Tidwell		
		Bob Gilmore		
		Click here to add a name		

When to Use?

- The interface contains a **table, list**, tree view, ...
- At some point, the user needs to **add new items** to it.
- But you **don't have a lot of room** on the UI for **extra buttons** or options
- **Easy option** for user

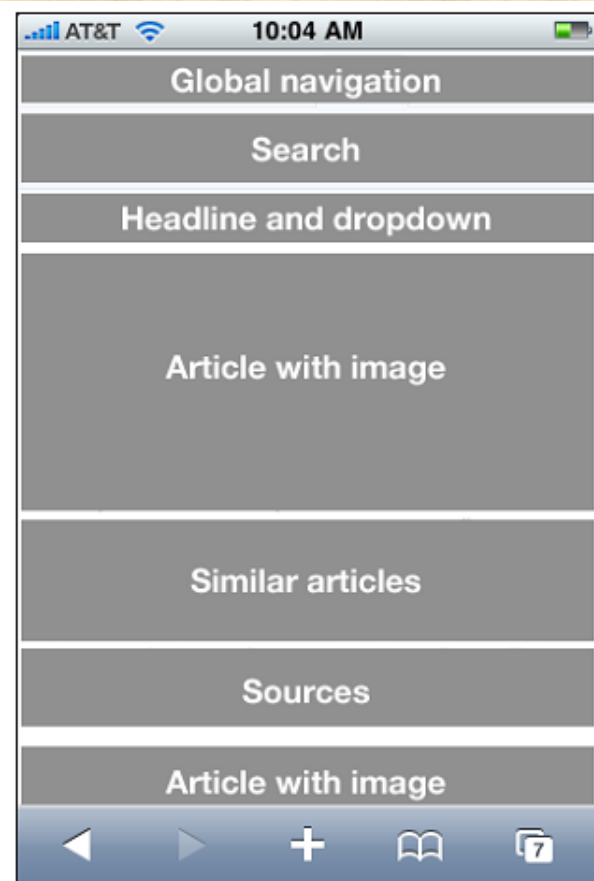
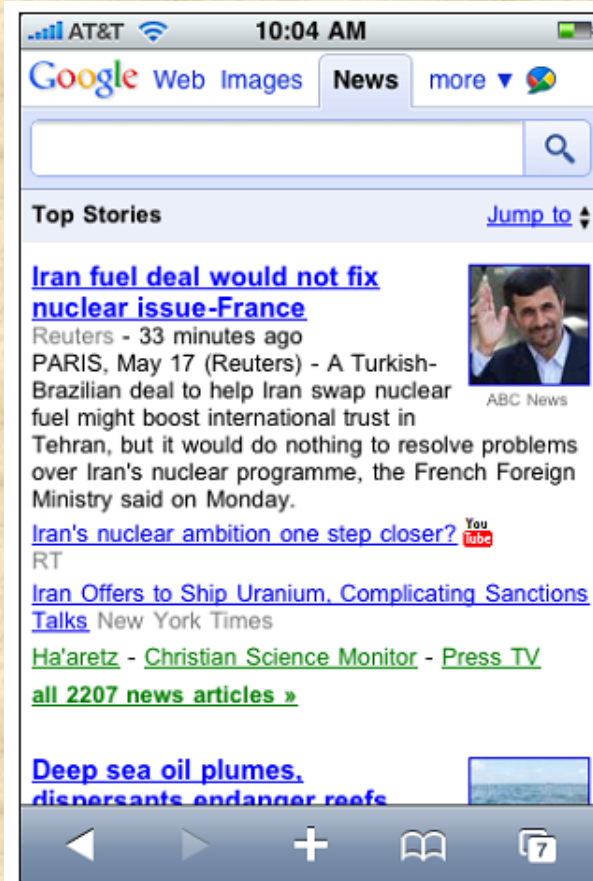
Type 4

Mobile UI patterns

- The **Challenges** of Mobile Design:
 - Small screen sizes
 - Variable screen widths
 - Touch screens
 - Difficulty of typing text
 - Challenging physical environments (surrounding light and noise)
 - Social influences and **limited attention**

4.1 Vertical Stack

- Order the mobile page's content in a **vertical column**, with **little or no use** of side-by-side elements.
- Let text elements line-wrap, and let the page scroll down past the bottom of most device screens.



When to Use?

- Work on devices of different sizes should use this pat-tern,
- especially if they contain text-based content and forms.

4.2 Filmstrip

- Arrange top-level pages **side by side**, and let the user **swipe** them back and forth to view them one at a time.



When to Use?

- You have pages of content that are conceptually **parallel**
 - (such as the **weather** in different cities or the **scores** in different sports)
- Users is ready for **swiping** through these pages, going through several before reaching the one they're looking for, because they are all **potentially interesting**.

4.3 Touch Tools

- Show tools only in **response to a touch** or key press, and put them in a small, dynamic **overlay** at the top the **content**.

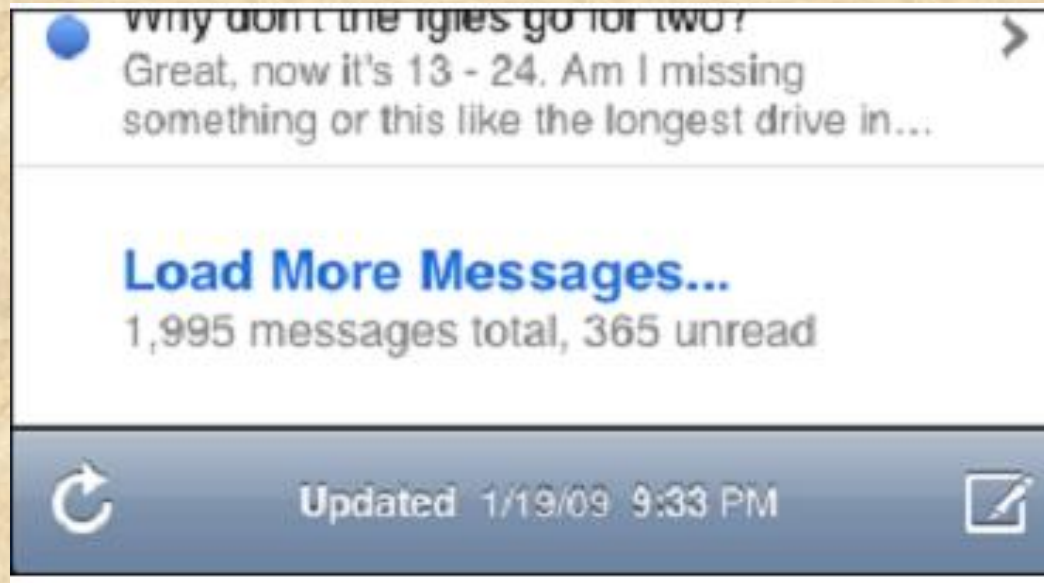


When to Use?

- You are designing **a full-screen** experience:
 - *(videos, photos, games, maps, or books).*
- To manage that experience, the user will sometimes need controls:
 - *(navigation tools, media player tools, information about the content, and so forth).*
- The tools require **significant space**, but are only **needed sometimes**.

4.4 Infinite List

- At the **bottom** of a **long list**, put a button that **loads and appends more items** to the list.



When to Use?

- You need to show **long lists** of :
 - email messages, search results, an archive of articles or blog posts, or anything else that is **effectively “bottomless.”**
- Users are **likely** to **find** desired items **near the top**, but they sometimes need to search further.

More Patterns Resources

- <http://welie.com/patterns/index.php>
- <http://designinginterfaces.com/patterns/>
- <http://ui-patterns.com/>

Thanks