

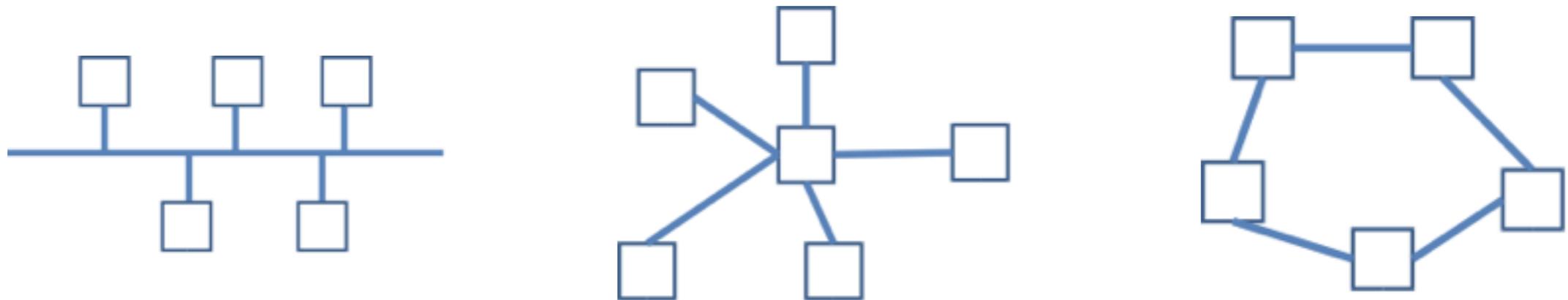
HTML & CSS

Andrea Ferracani - <http://www.micc.unifi.it/ferracani/>

Cos'è il web

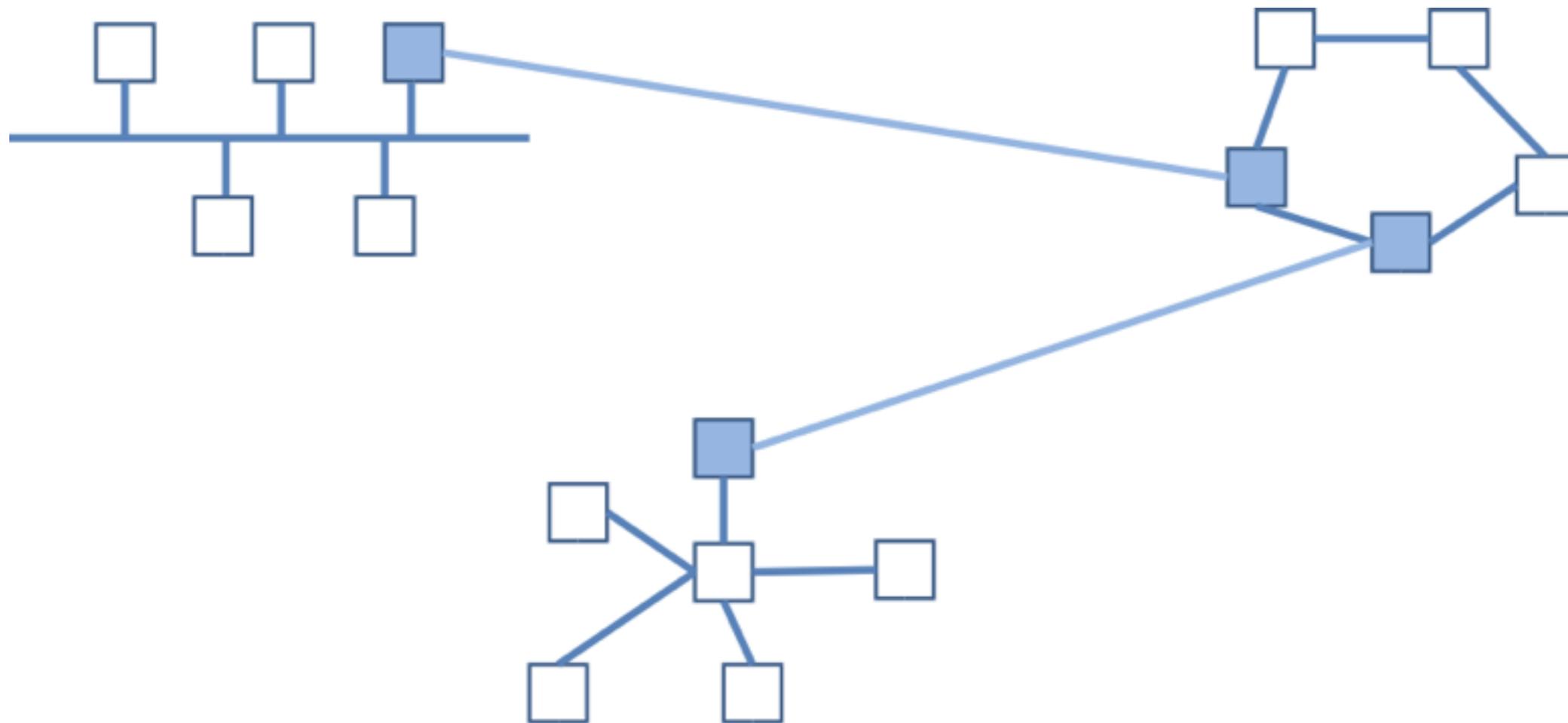
Internet e il Web sono due cose diverse:

- Il **world wide web** è una rete mondiale di ipertesti che vengono trasmessi tra computer diversi attraverso il protocollo http. E' una applicazione di Internet, ma ne esistono altre (reti di telefonia, mail)
- **Internet** è una rete mondiale di computer comunicanti tra loro attraverso connessioni fisiche.



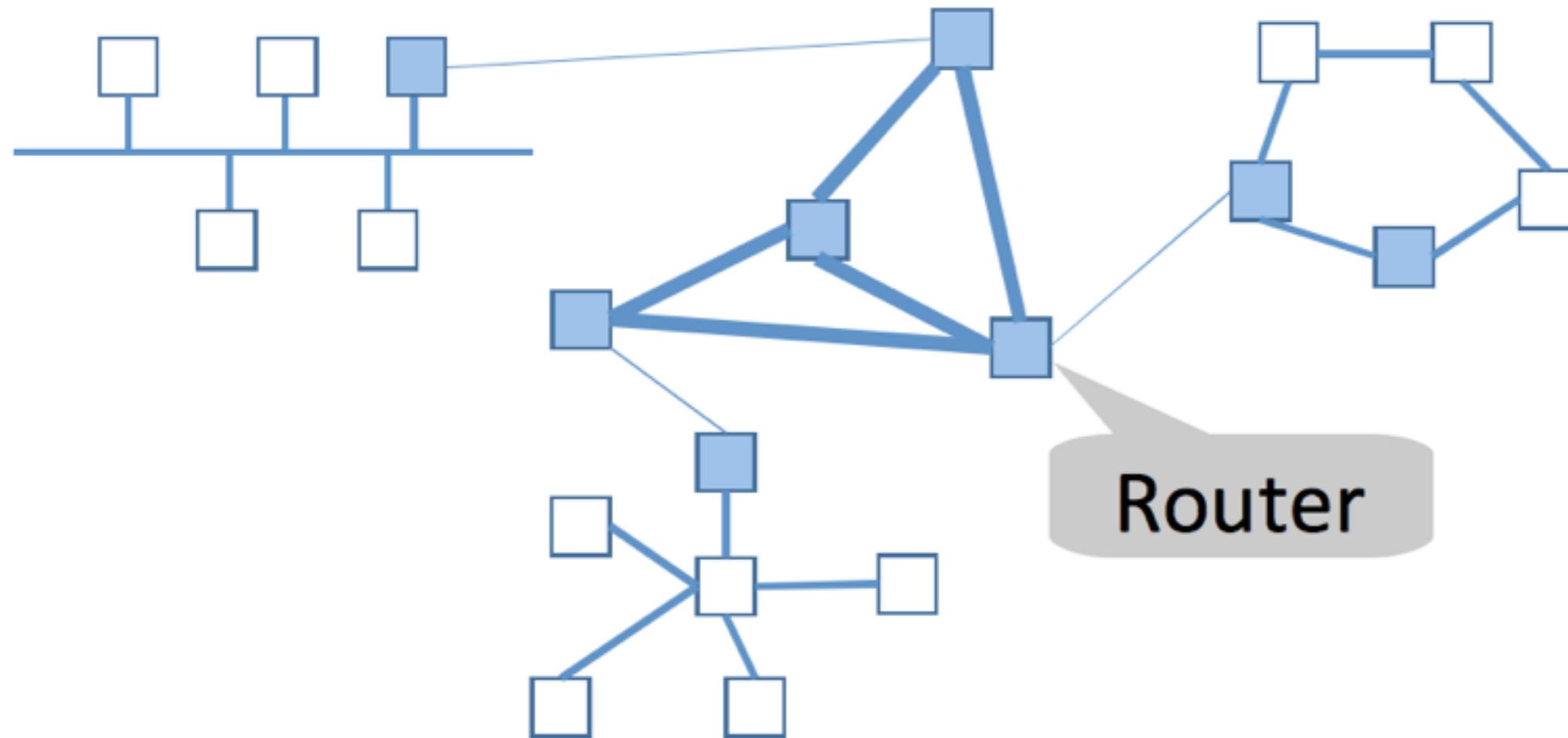
Reti di computer

Le reti di computer possono essere collegate fra loro:



Reti di computer

Internet di fatto è una **rete di reti**



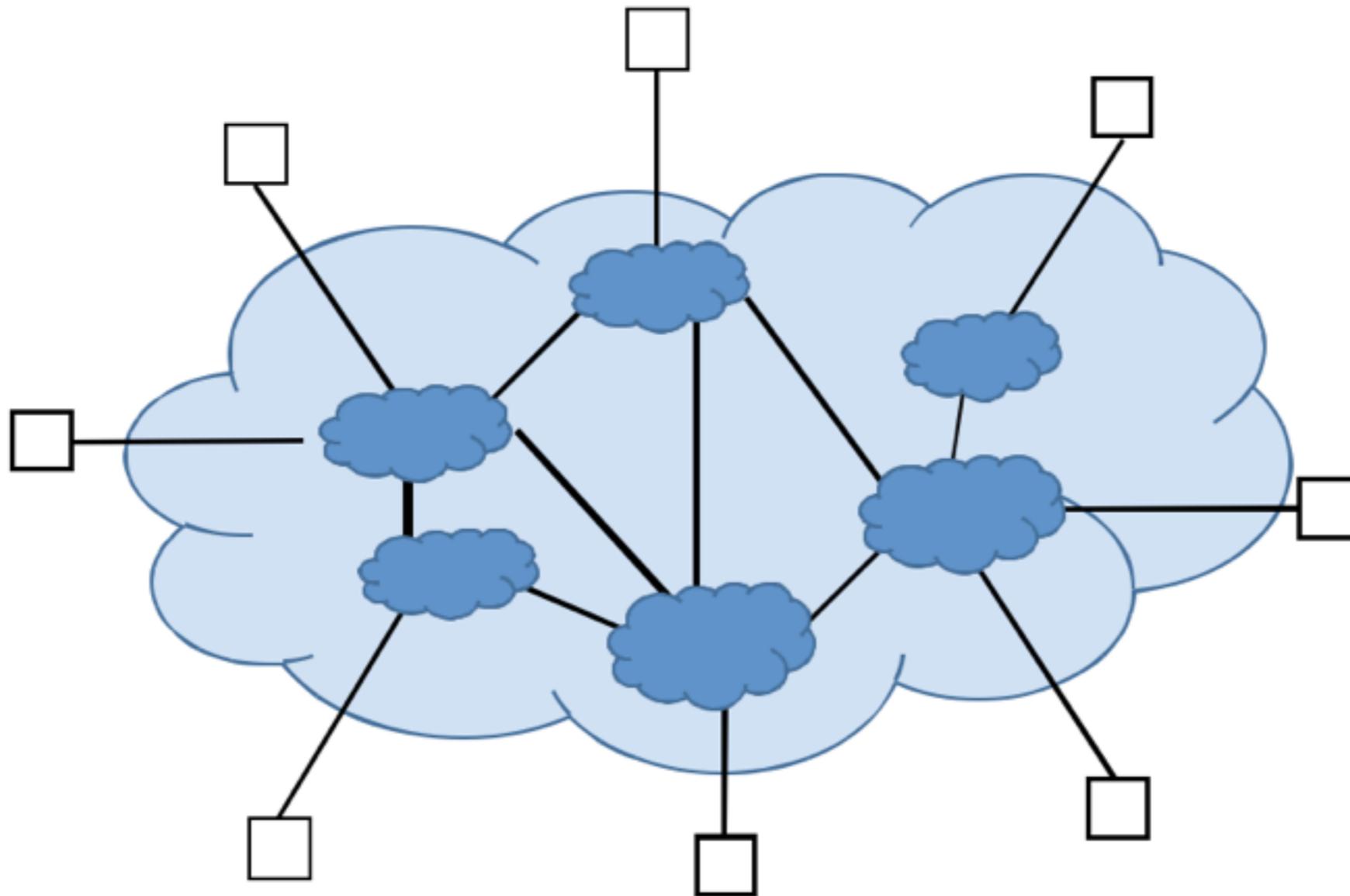
Router: cos'è

Router in inglese significa instradatore: è dunque quel device che si preoccupa di leggere le informazioni da internet (dalla rete) ed inviarle ai vari computer che vi si connettono suddividendo la banda disponibile



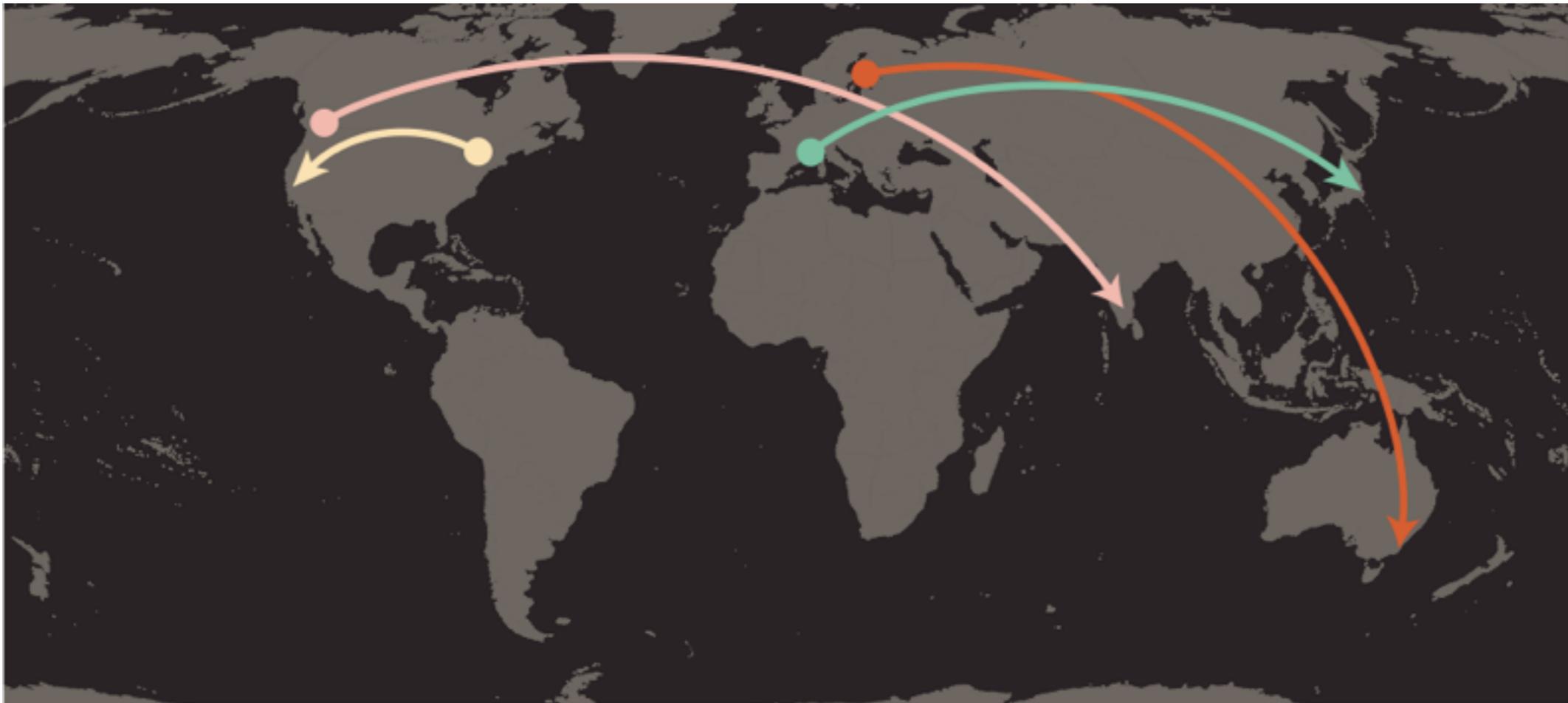
Reti di computer

Tutti noi percepiamo Internet come un'**unica rete virtuale**



Come funziona il web

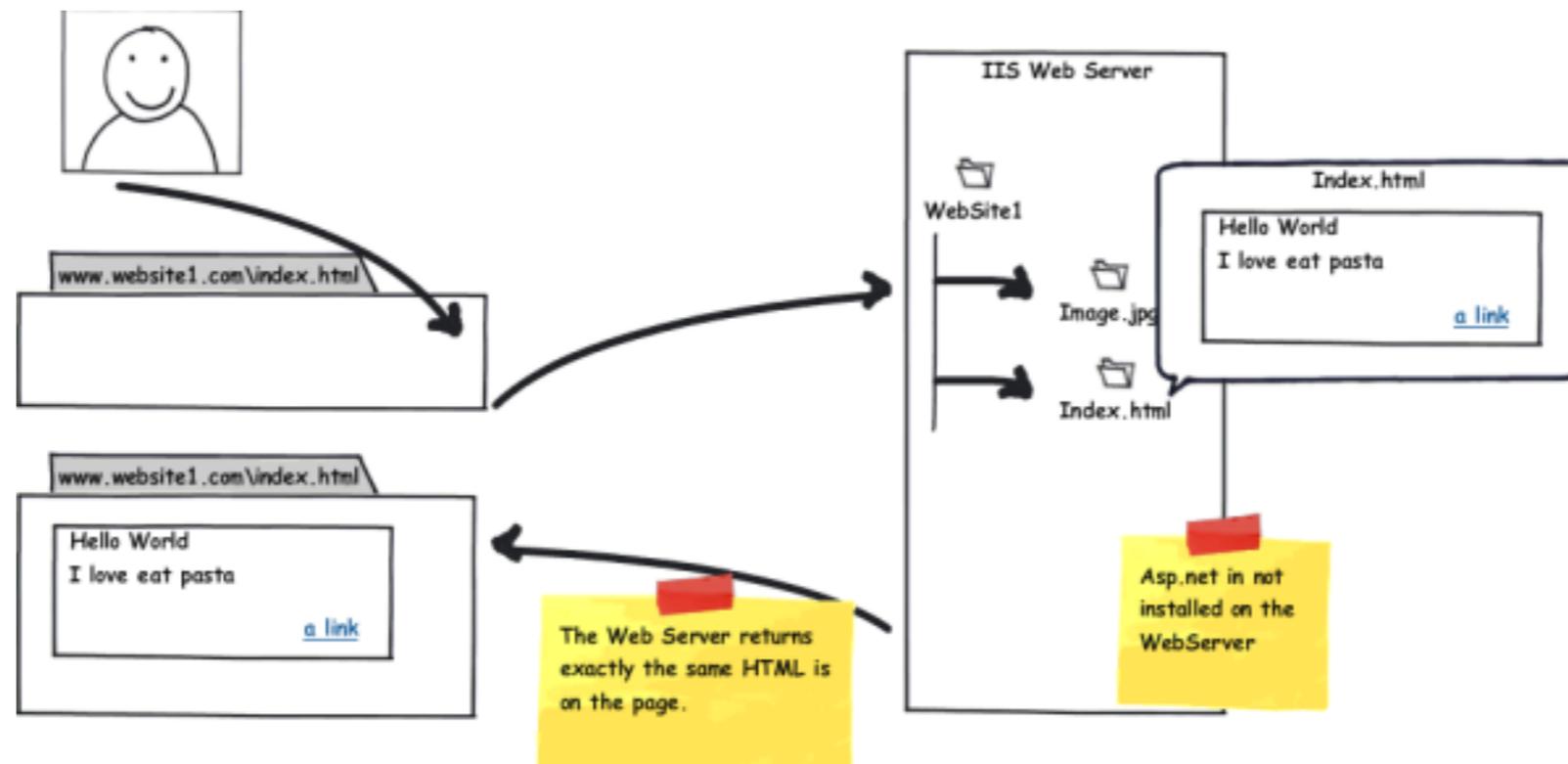
Diversi web clients contattano attraverso **DNS** (Domain Name System) i web servers



Come funziona il web

- Un client si connette al web attraverso un **ISP** (**Internet Service Provider**). L'utente digita un dominio nel web address (**google.com**)
- Il **DNS** è come un phone book ed individua il computer che state contattando sulla rete attraverso un **IP** (150.217.35.77)
- Con questo numero il browser **chiama** il server
- Il server **invia** al browser la pagina html ed il css, linguaggi che è in grado di leggere e visualizzare

Come funziona il web



Cos'è un IP

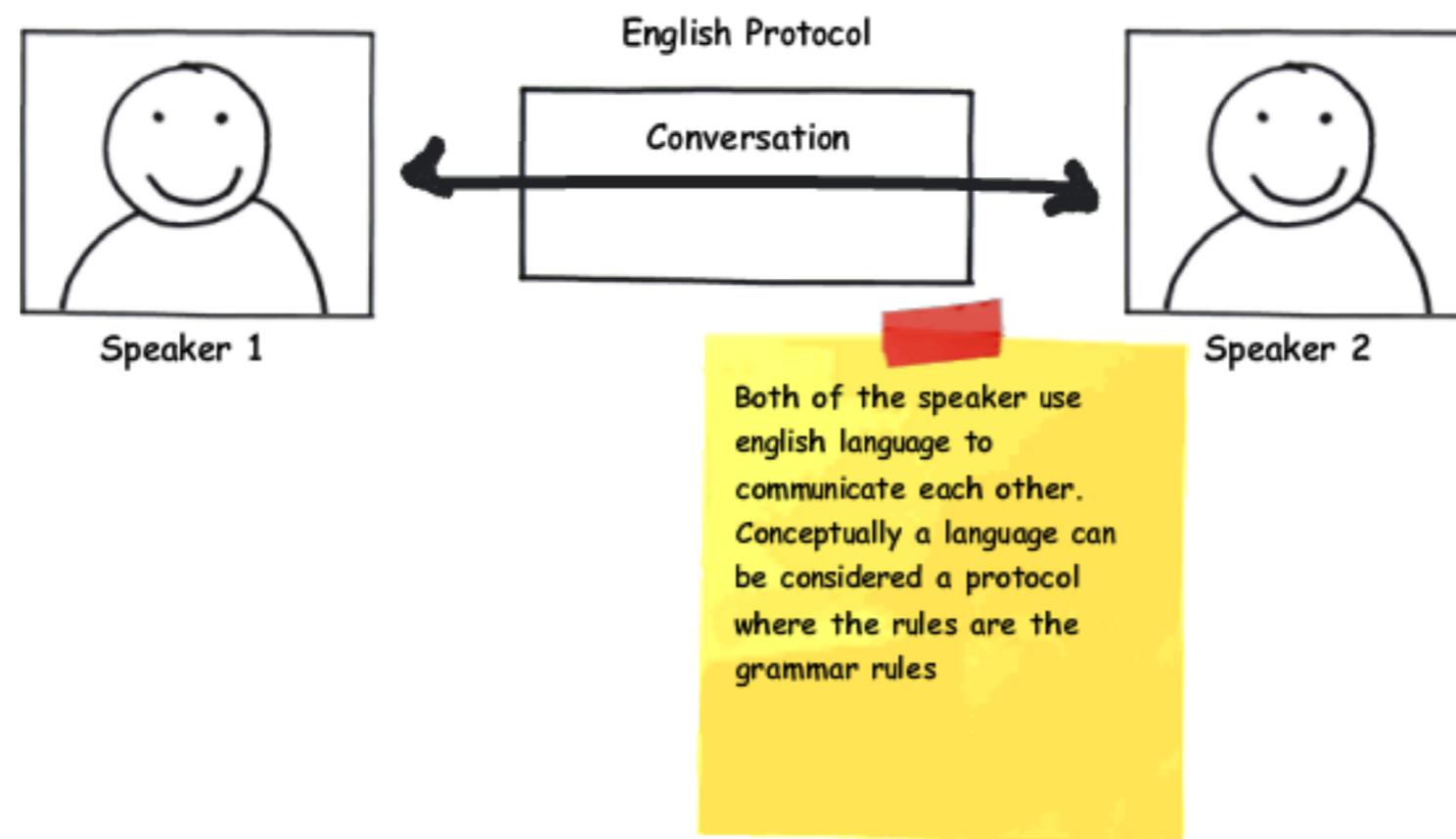
Internet Protocol (IP) è un protocollo di rete appartenente alla suite di protocolli Internet **TCP/IP** su cui è basato il funzionamento della rete Internet.

IPv4 (Internet Protocol version 4) è la quarta revisione dell'Internet Protocol. Il protocollo è nato nel 1981, ed è il più usato a livello di rete, poiché fa parte della suite di protocolli Internet

4 interi fra 0 e $2^8-1 = 255$ Es.: 192.128.0.205

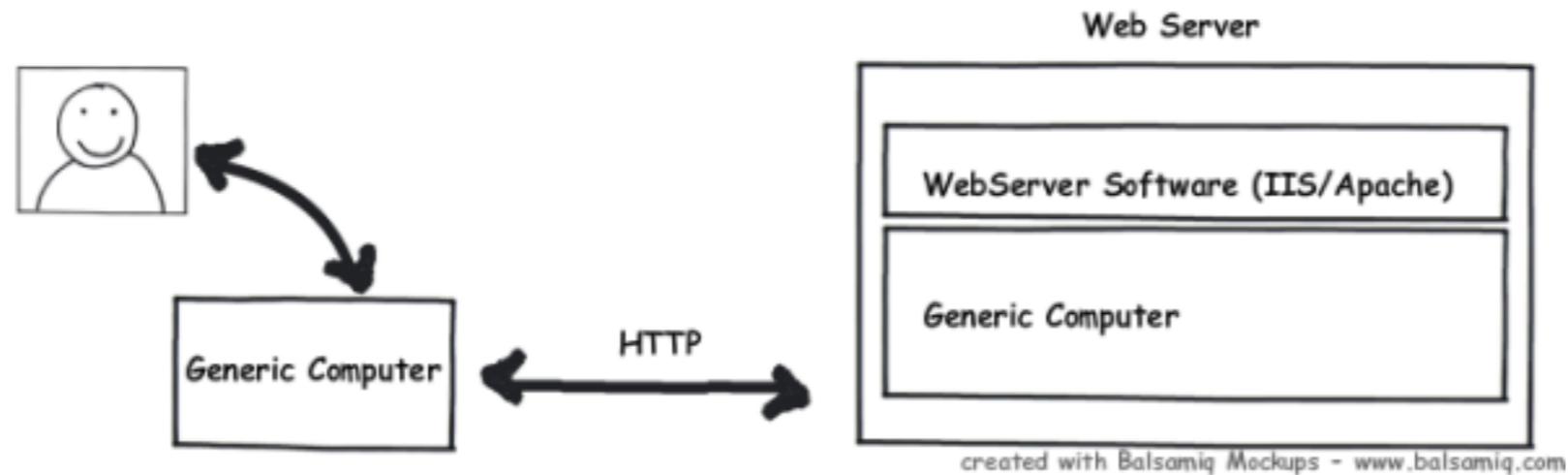
La comunicazione

Due computer connessi in rete comunicano attraverso un **protocollo di comunicazione** che specifica regole e formati per il trasferimento del messaggio.



La comunicazione

La comunicazione nel web avviene attraverso un protocollo che si chiama **HTTP** (**hypertext transfer protocol**)



HTTP specifica la grammatica ma non sa niente e non è in grado di far passare le informazioni da un computer all'altro. E' solo la lingua.

Protocolli di rete

Esistono tanti tipi di protocolli. Alcuni esempi:

Protocolli usati per realizzare il servizio di posta elettronica e newsgroup:

Simple Mail Transfer Protocol (SMTP)

Post Office Protocol (POP)

Internet Message Access Protocol (IMAP)

Network News Transfer Protocol (NNTP)

Protocolli di trasferimento file:

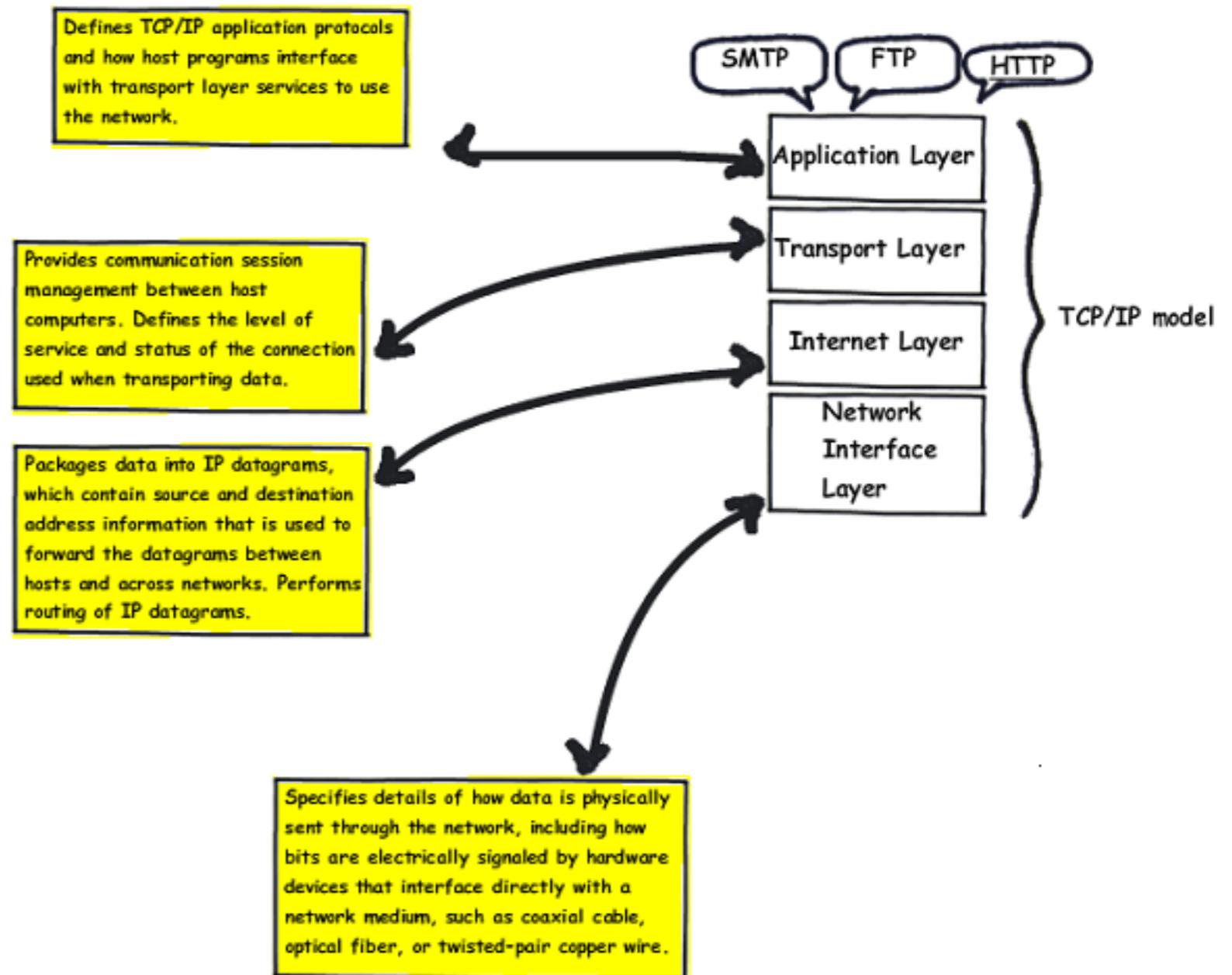
File Transfer Protocol - (FTP)

Hyper Text Transfer Protocol - (HTTP)

La comunicazione

HTTP si dice dunque essere un protocollo **connectionless** ma prima di comunicare c'è bisogno di stabilire una relazione.

Un altro protocollo **TCP/IP** ha il compito stabilire e gestire questa comunicazione



TCP / IP

Transfer Control Protocol è un protocollo di rete a pacchetto di livello di trasporto, appartenente alla suite di protocolli Internet, che si occupa di controllo di trasmissione.

Ogni "data stream" viene spezzettato in **pacchetti di informazioni** ("datagram")

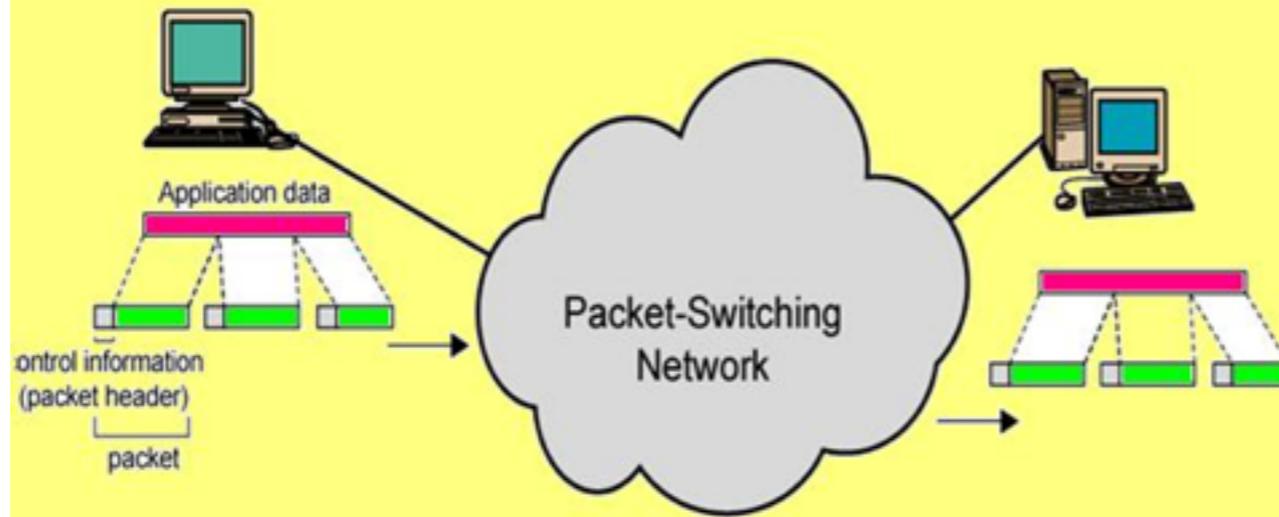
Ogni pacchetto viene corredato di informazioni per la sua trasmissione, fra cui l'**indirizzo** di mittente e destinatario

Ogni pacchetto viene inviato singolarmente e può seguire **strade diverse** dagli altri

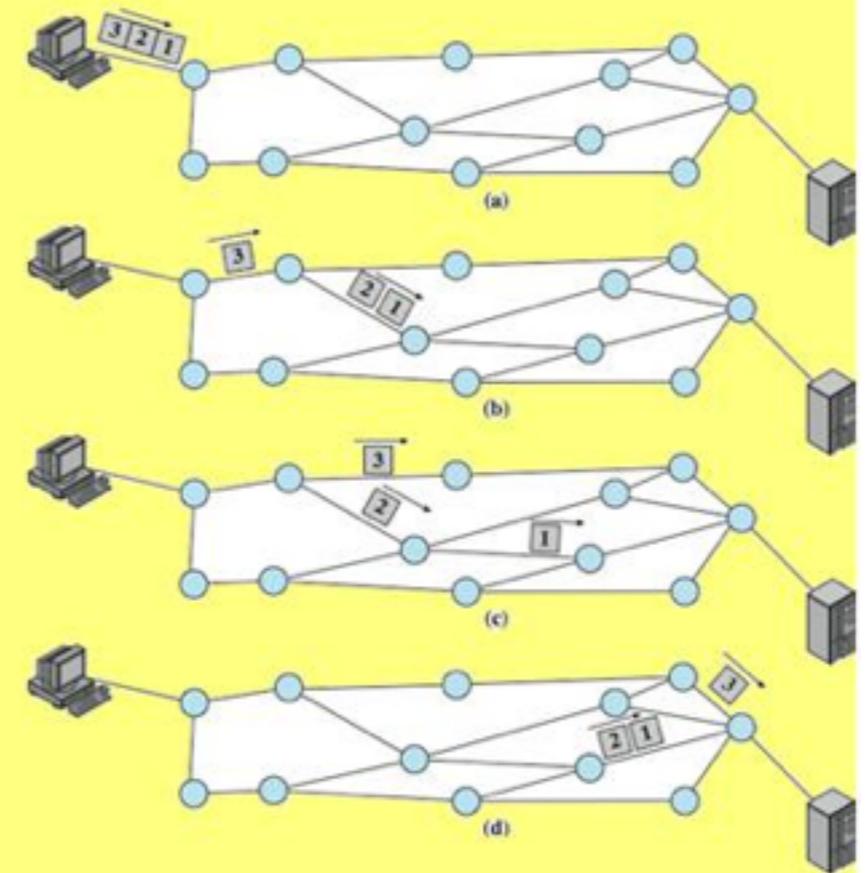
"Rete a commutazione di pacchetto" ("packet switching")

TCP / IP

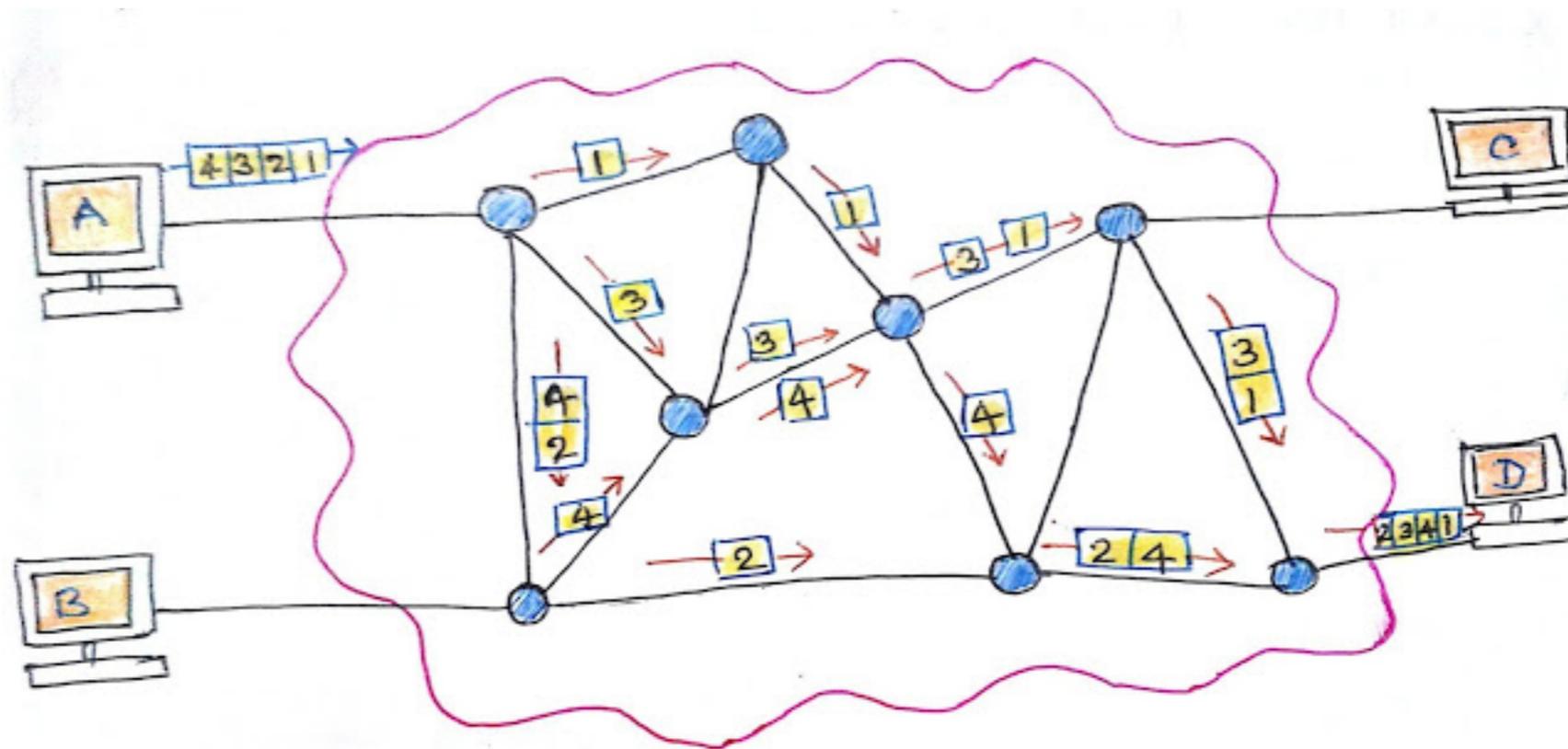
A scenario Illustrating Packet Switching



Datagram
packet
switching



TCP / IP



Datagram approach

Livelli di protocollo

Riassumendo:

Protocollo IP: per trasmettere pacchetti

Protocollo TCP (Transmission Control Protocol):
per trasmettere un data stream

Protocollo HTTP: per trasmettere pagine Web

Protocollo FTP: per trasmettere files

DHCP

Dynamic Host Configuration Protocol: protocollo che serve ad assegnare gli indirizzi IP ai nodi di una rete, affinché siano identificabili e possano comunicare.

Server DHCP: mantengono una tabella di indirizzi IP disponibili localmente.

Ogni nodo chiede a un server DHCP di assegnargli un indirizzo IP (statico o dinamico)

DNS

Domain Number System: un protocollo per dare a ogni computer connesso a internet un **nome mnemonico** associato a un indirizzo IP.

DNS Server: mantengono tabelle di corrispondenza fra nomi mnemonici e indirizzi IP.

Esempio: <http://morpheus.micc.unifi.it>

http - protocollo

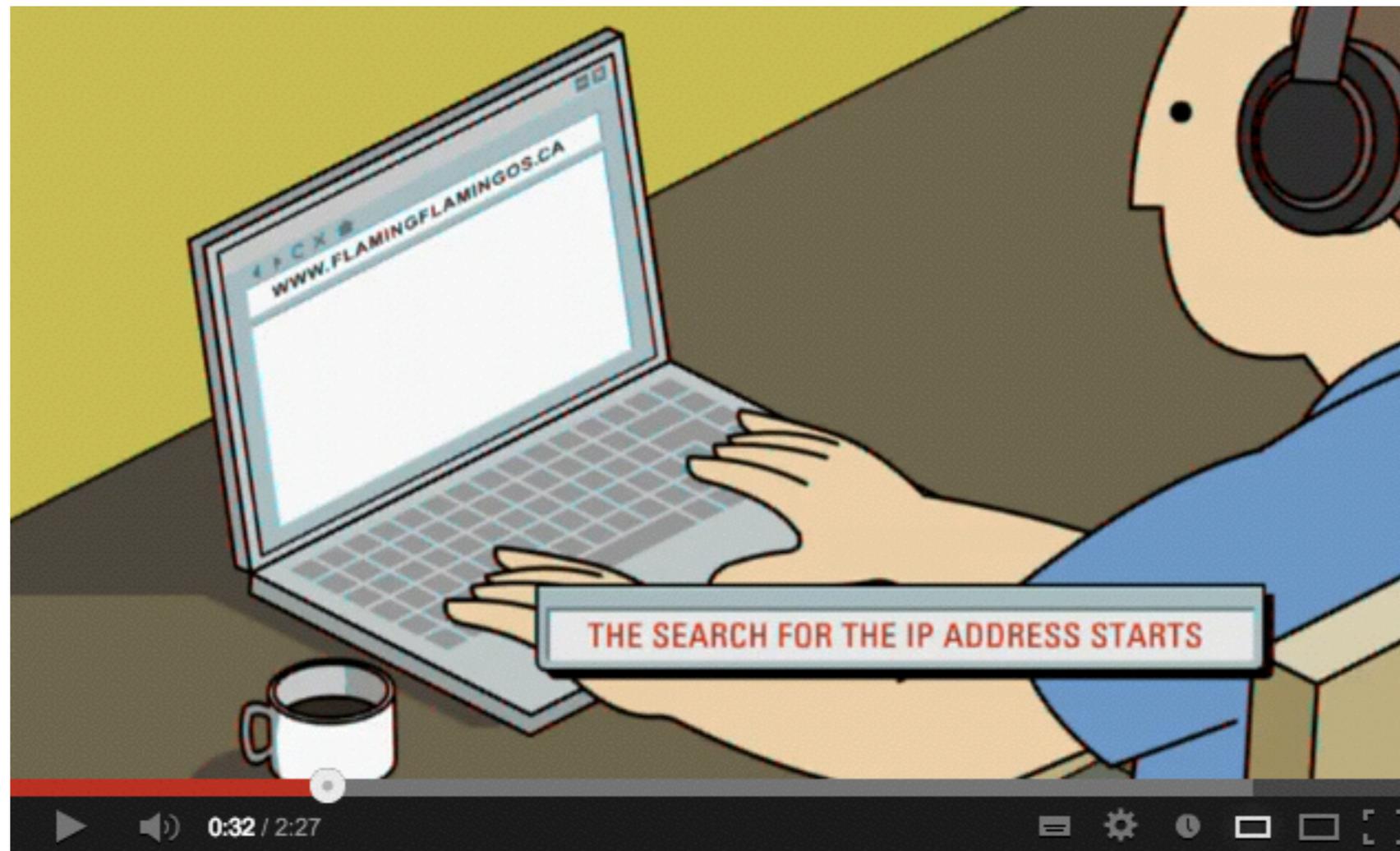
morpheus - nome del computer

micc.unifi.it - dominio (secondo livello)

Corrisponde ad IP: 150.217.35.25

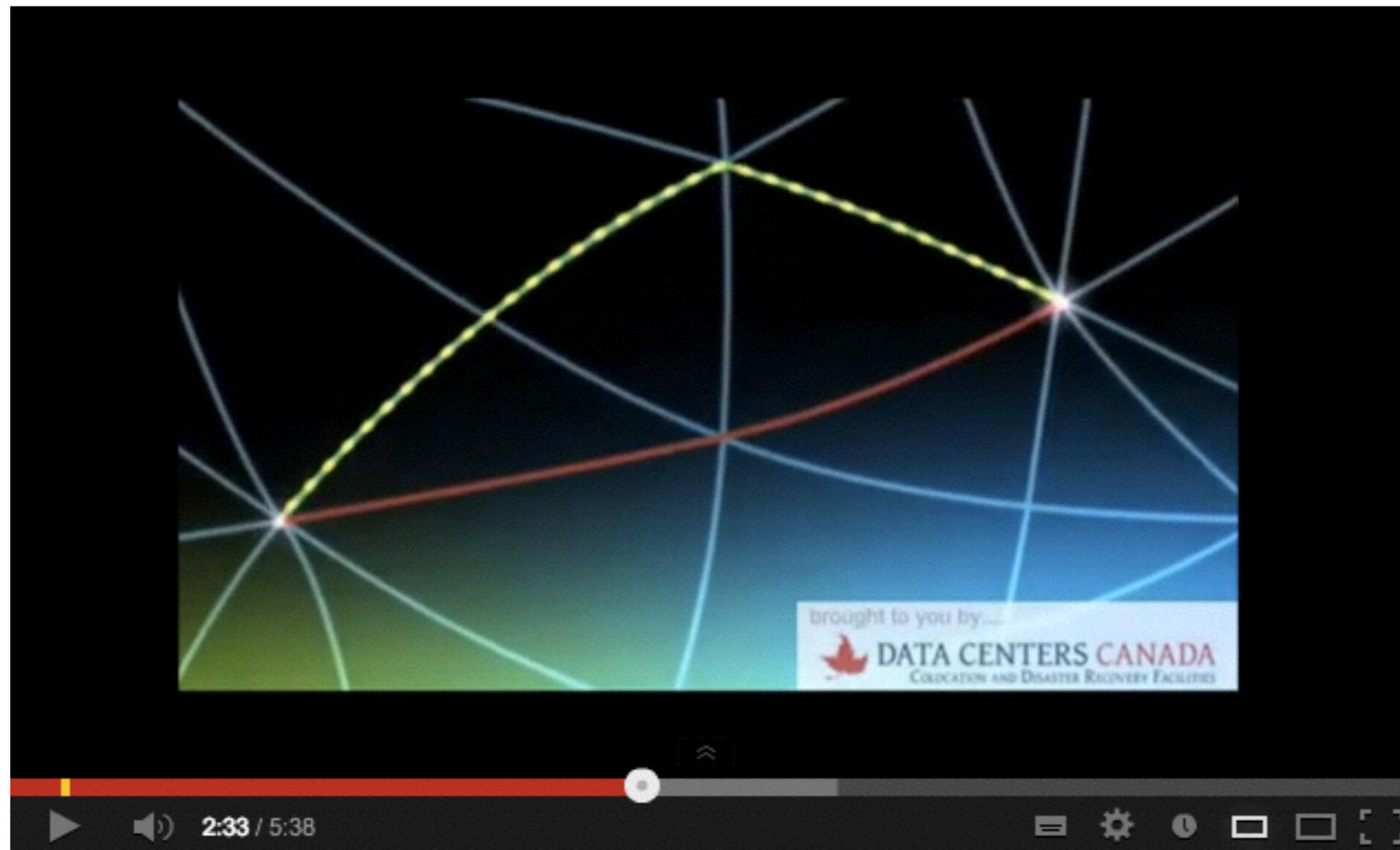
DNS - video

Come funziona (<http://www.youtube.com/watch?v=2ZUxoi7YNgs>):



Internet - video

Come funziona (<http://www.youtube.com/watch?v=i5oe63pOhLI>):



ICANN

Internet Corporation for Assigned Names and Numbers: <http://www.icann.org/>

Organizzazione non-profit che coordina il sistema globale dei nomi di Internet: indirizzi IP, nomi dei protocolli, top-level domains, ecc.

A partire dal 2013 sono attivati nuovi top-level domains (molto costosi) proposti dagli utenti <http://www.voanews.com/english/news/science-technology/New-Internet-Name-Rule-Opens-Door-to-Huge-Changes-124180874.html>

Sintesi

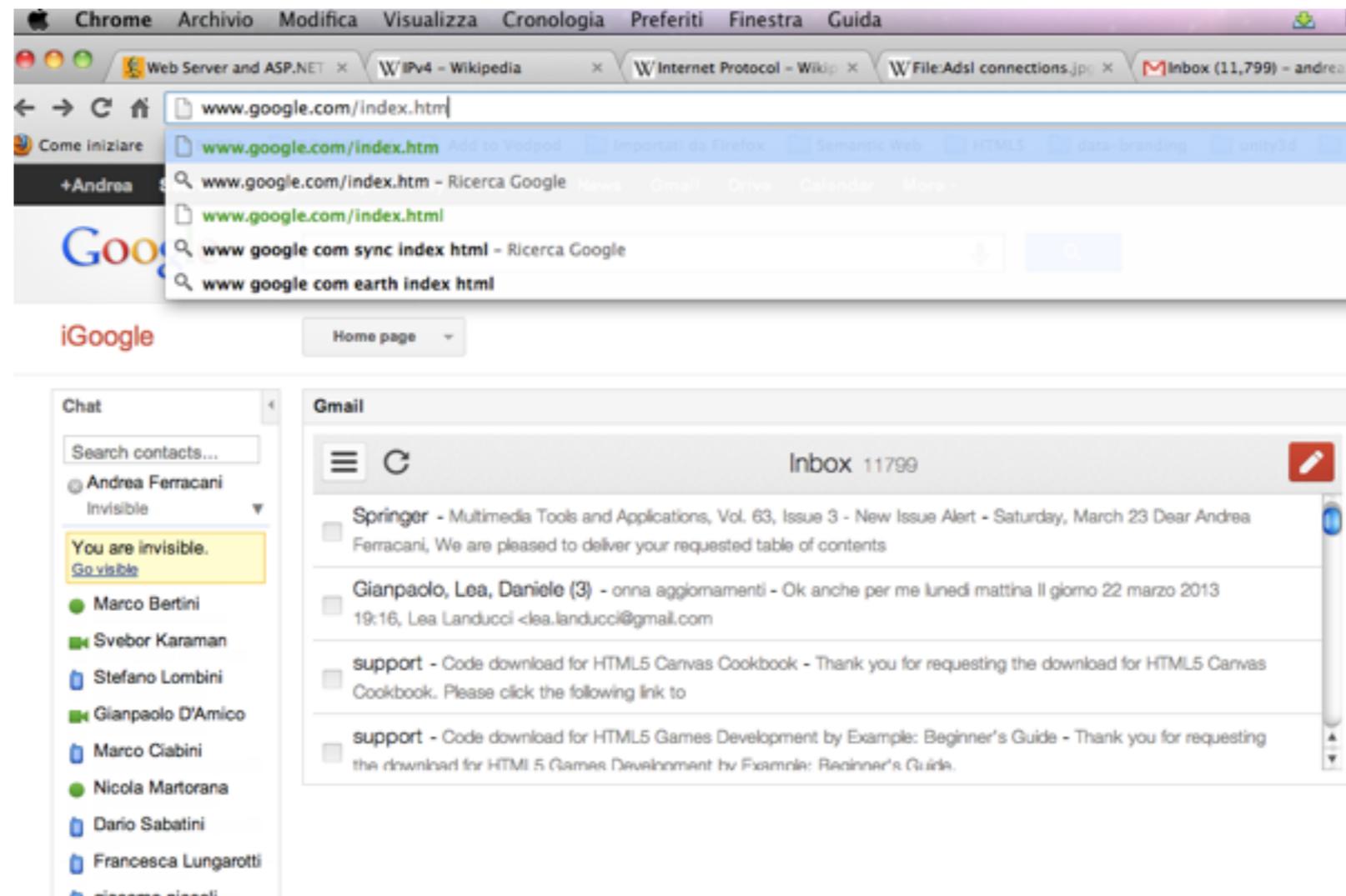
- Internet è una **rete di reti**
- Il protocollo **TCP/IP** suddivide il data stream in pacchetti che seguono strade diverse
- I computer sono individuati da un **indirizzo IP**
- Il **DNS** associa indirizzi IP a nomi mnemonici strutturati attraverso server distribuiti

Come le persone accedono al web

- **web browsers**: Firefox, Chrome, Safari, Internet Explorer, Opera
- **web servers**: rispondono alle richieste dei client (browsers)
- **devices**: sono lo strumento fisico con cui le persone accedono
- **screen readers**: software che leggono contenuti dei browsers (per le persone con disabilità)

Comunicazione client-server

Cosa accade quando mettete un indirizzo nella barra del browser?



Comunicazione client-server

Il web è un sistema per la presentazione di documenti multimediali ipertestuali distribuito su tutta Internet e basato su architettura client/server

- il client visualizza i documenti ipertestuali
- il server accede al file system locale e trasmette attraverso la rete fisica i documenti
- il server può collegarsi ad applicazioni server-side ed agire da tramite tra il browser e l'applicazione facendo del browser l'interfaccia dell'applicazione

Comunicazione client-server

1) Il browser suddivide la URL in tre parti:

- Il protocollo (**HTTP**)
- Il nome del server (**www.google.com**)
- Il nome del file (index.html)

2) Il browser comunica con il **DNS** per tradurre il nome del server "www.google.com" in un indirizzo **IP**, che usa per connettersi alla macchina.

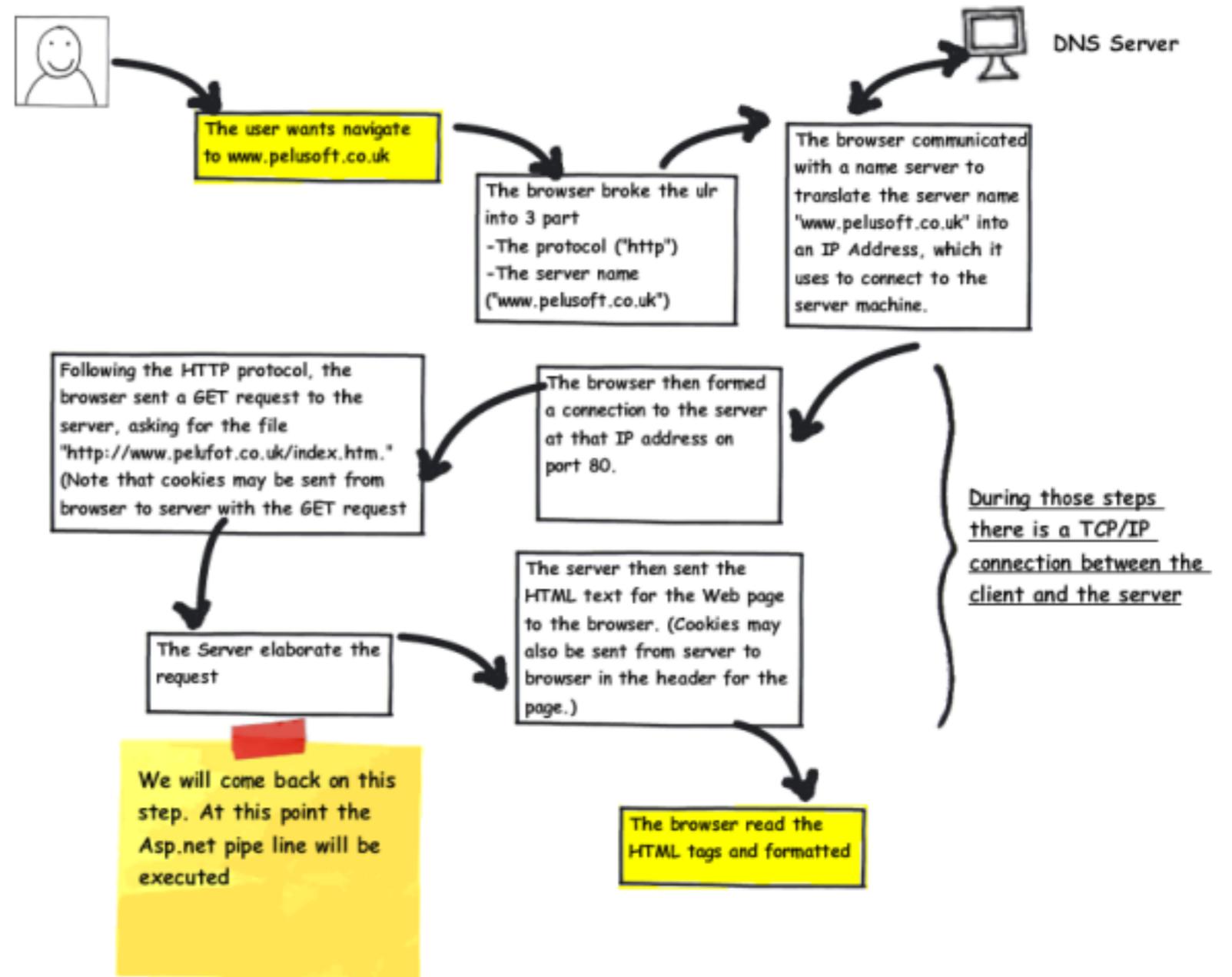
3) Il browser stabilisce una connessione con il server sulla porta 80.

4) Attraverso il **protocollo HTTP**, il browser manda una richiesta GET chiedendo il file "http://www.google.com/index.htm".

Comunicazione client-server

5) Il server restituisce al client una pagina **HTML**

6) Il browser decodifica la pagina e la mostra a schermo



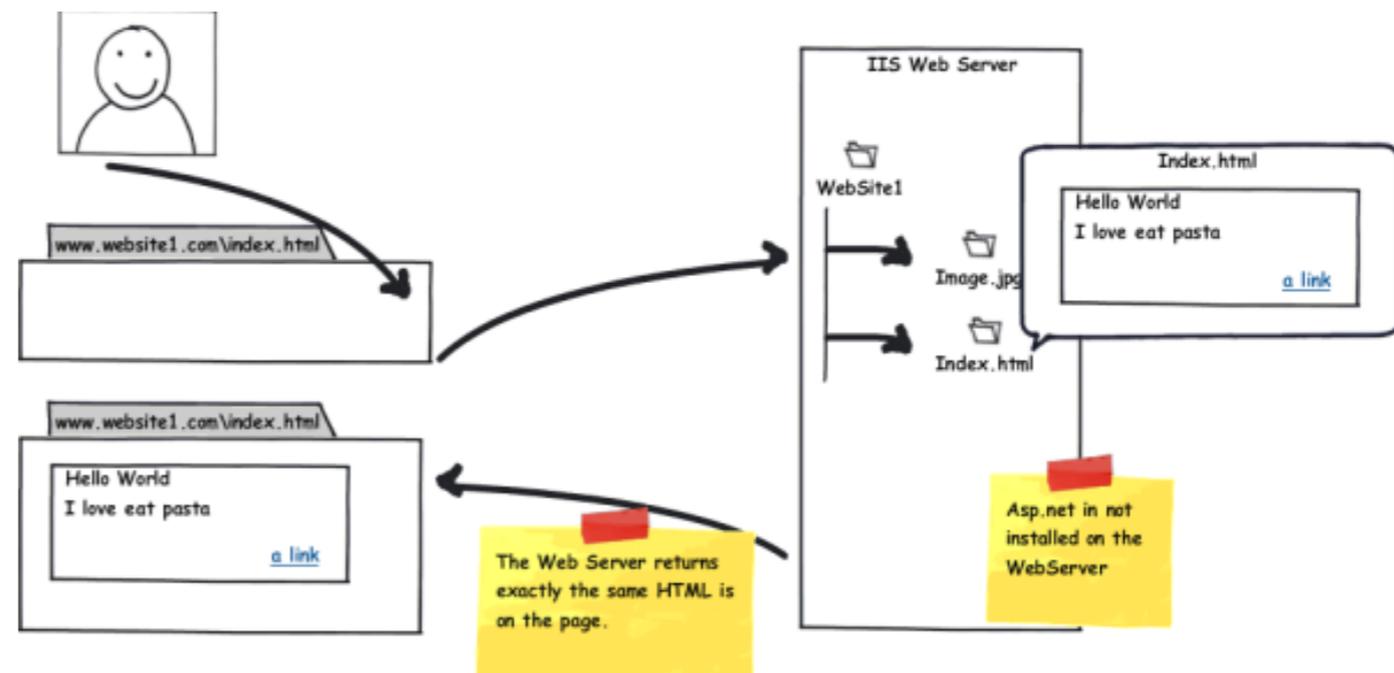
Comunicazione client-server

Con client e server si intendono due computer, l'unica differenza è:

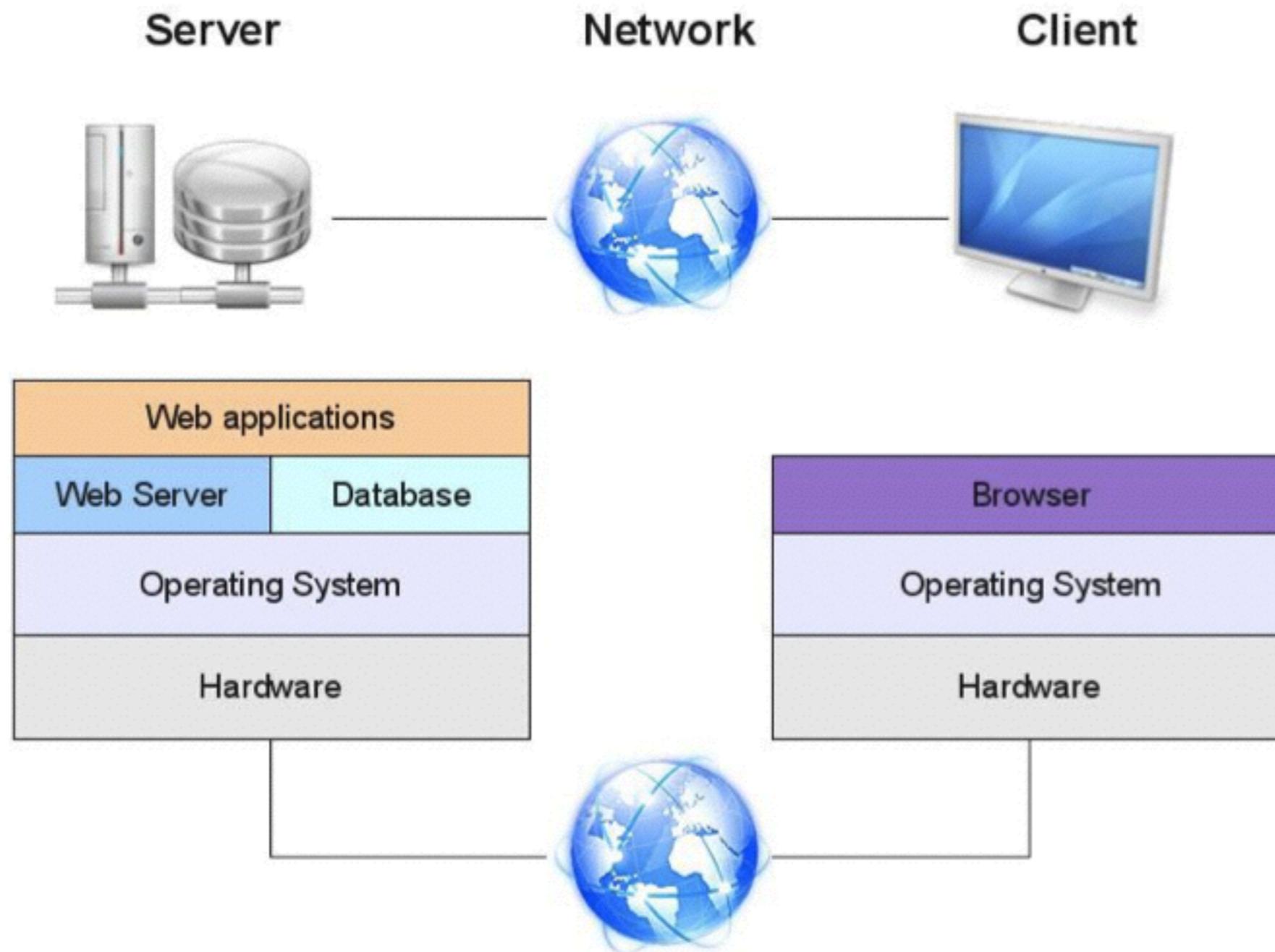
- su un server è installato del software che lo rende in grado di accettare richieste da un qualsiasi computer che faccia una richiesta.

Cosa significa la **porta 80**?

- di solito è il canale su cui stanno in ascolto i **web server**



Architettura client-server



Come sono fatti i siti web

- **HTML & CSS**: linguaggi di markup per semantica ed aspetto
- **flash & javascript**: linguaggi di programmazione per l'interattività
- **CMS**: content management system
- **HTML5 & CSS3**: la novità

Web Apps - strumenti



Web Apps - stato dell'arte



Un po' di storia

Il world wide web è una rete mondiale di **ipertesti**.

L'esigenza di evidenziare visivamente **riferimenti** e **connessioni** tra testi esiste da sempre.

Commentari a libri importanti (Omero, Bibbia, Talmud, Corano, Divina Commedia, etc.) esistono fin dal tardo impero romano ed utilizzano ogni sorta di trucco grafico e visivo per realizzare effetti di collegamento.

Era inevitabile che la meccanizzazione prima, e l'informatizzazione dopo, cercassero di soddisfare quest'esigenza.

Gli anni 80



Con il progredire della tecnologia, i sistemi ipertestuali escono dai laboratori e diventano un argomento ufficiale di ricerca e produzione software.

Nel **1989** un gruppo di ricercatori del **CERN**, centro di ricerca in fisica nucleare a Ginevra, ricevette l'incarico di realizzare un meccanismo per la diffusione rapida di articoli, appunti e opinioni tra i fisici che ruotassero intorno al centro.

II WEB

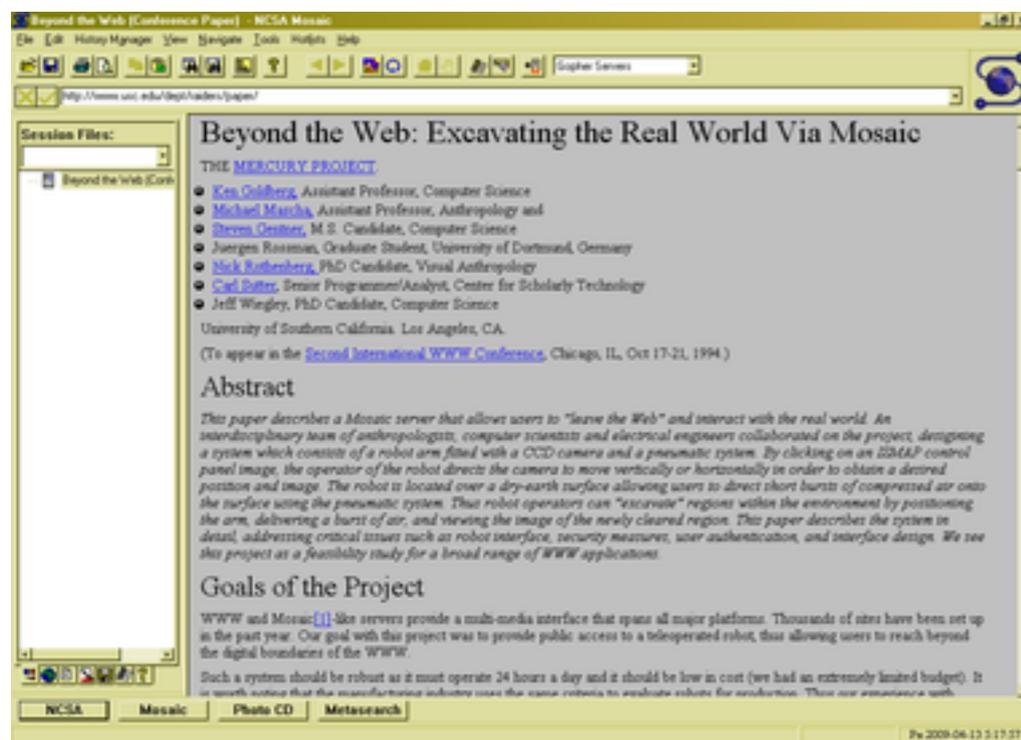
Nel 1991 Tim Berners-Lee e Robert Cailliau mostrarono (con poco successo) il primo prototipo client-server ed il primo browser chiamato: WorldWideWeb

Il prototipo era composto di:

- un **server che spediva documenti** memorizzati localmente a chi lo richiedesse secondo il protocollo stabilito, e memorizzava documenti spediti da remoto
- un **editor di testi parzialmente WYSIWYG** che permetteva di visualizzare documenti ipertestuali e di modificarli, creando link e blocchi di testo.



Mosaic



Nell'ottobre del 1992 il **National Centre for Supercomputing Applications** (NCSA) esaminò il prototipo di WWW e decise di realizzarne una versione propria.

Con la realizzazione del server NCSA e del primo browser WWW, chiamato **Mosaic**, l'NCSA decretò l'inizio del successo esplosivo del sistema.

W3C



Nel frattempo, Berners-Lee e Cailliau cercano di mantenere il controllo sull'evoluzione del World Wide Web e fondano il **W3C**, con fondi della ricerca e dell'università.

Diventerà il World Wide Web Consortium, l'istituzione regolatrice del Web.

I primi browsers



Nel 1995 quando **Netscape** era diventato quasi monopolista dovette scontrarsi con un agguerrito concorrente: **Internet Explorer** della Microsoft.

Microsoft decise di distribuire il proprio browser Internet Explorer 3 incluso nel sistema operativo **Windows 95**, così che cambiarlo diventasse compito degli utenti, i quali spesso non lo facevano.

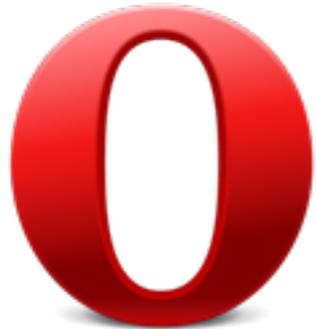
Sebbene gli utenti di Netscape fossero pochissimi già nel 2003, lo sviluppo di Netscape proseguì fino al 28 dicembre 2007, quando la AOL annunciò ufficialmente la fine del progetto.



Ancora browsers



Internet Explorer ha continuato lo sviluppo in maniera irregolare, senza introdurre cambiamenti importanti e senza rispettare le direttive del W3C.



A partire dal 2004 iniziarono ad affermarsi browser con caratteristiche innovative e maggiore rispetto degli standard.



Quelli che hanno intaccato maggiormente l'egemonia Microsoft sono **Mozilla Firefox**, **Opera**, **Safari** e ultimo ma non ultimo **Google Chrome**.



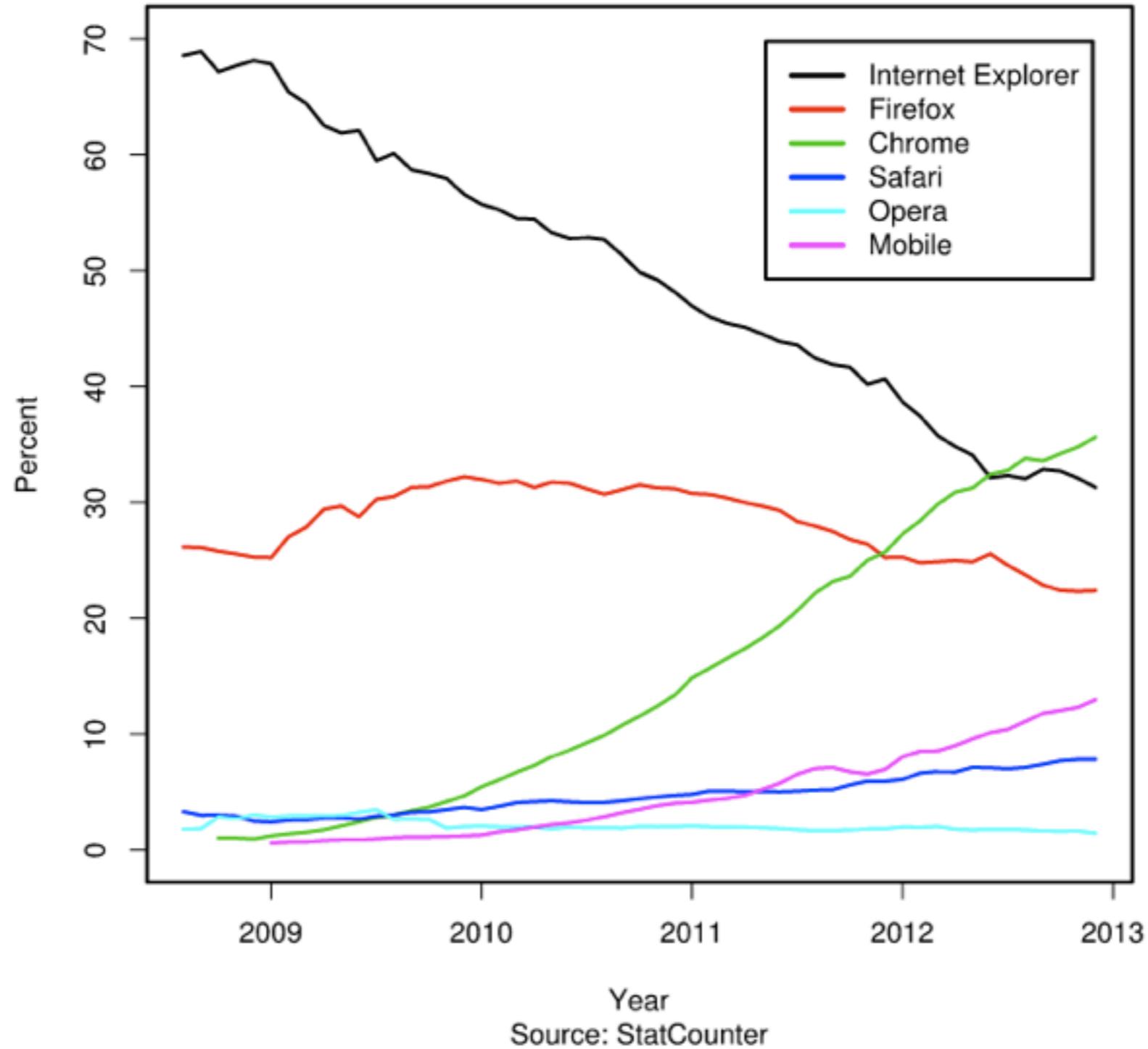
Browsers - alcuni punti

Un problema molto sentito nell'ambito del web development è il rispetto degli standard web emanati dal W3C:

- risulta difficile, in alcuni casi, permettere una **corretta visualizzazione** del proprio lavoro su qualsiasi browser
- una volta progettato sito web è necessario controllarne la visualizzazione e le funzionalità su diversi browser in modo da assicurarti che tutti i visitatori possano usufruire del servizio
- credere che **IE sia lo standard è un errore** soprattutto oggi che l'accesso al web avviene dai dispositivi più diversi: Android, iPhone.

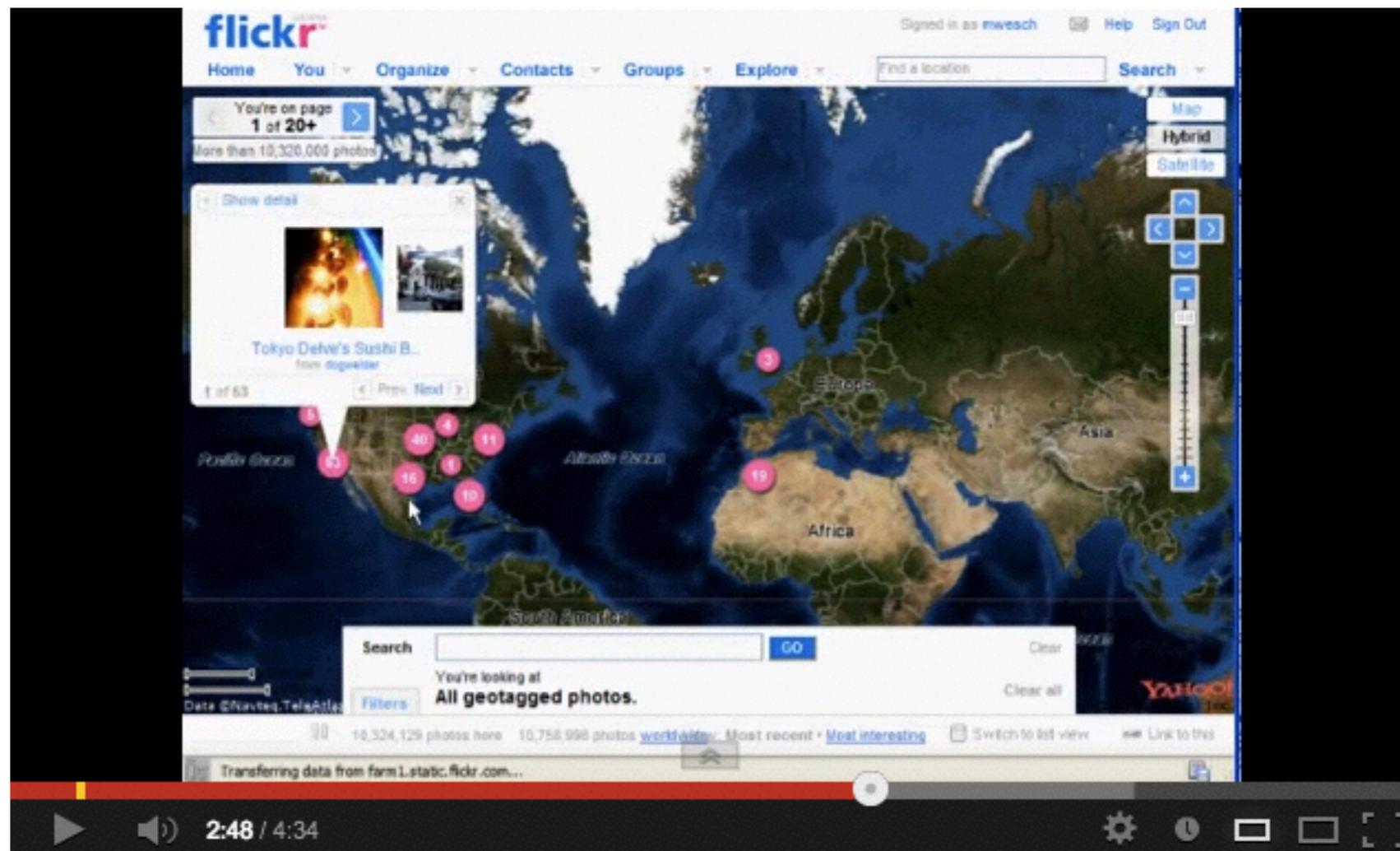
Browsers - 2013 - StatsCounter

Usage share of web browsers



Web 2.0 - video

Cos'è il web 2.0? (http://www.youtube.com/watch?v=NLIgopyXT_g)



Web 2.0 - 2005

La diffusione sempre più vasta dei sistemi per la **gestione dinamica dei contenuti** (CMS: blog, wiki, ...) sta modificando la metafora di navigazione rendendo **l'utente attivo**.

Alcune tecnologie stanno diventando degli standard de facto: **AJAX / Rich Internet Applications**.

In rete sta sempre più assumendo la conformazione di “rete piccolo mondo” con l'avvento del **social network**: Facebook, Yahoo groups, del.icio.us, flickr...

Rimane un imperativo: **LESS IS MORE!**

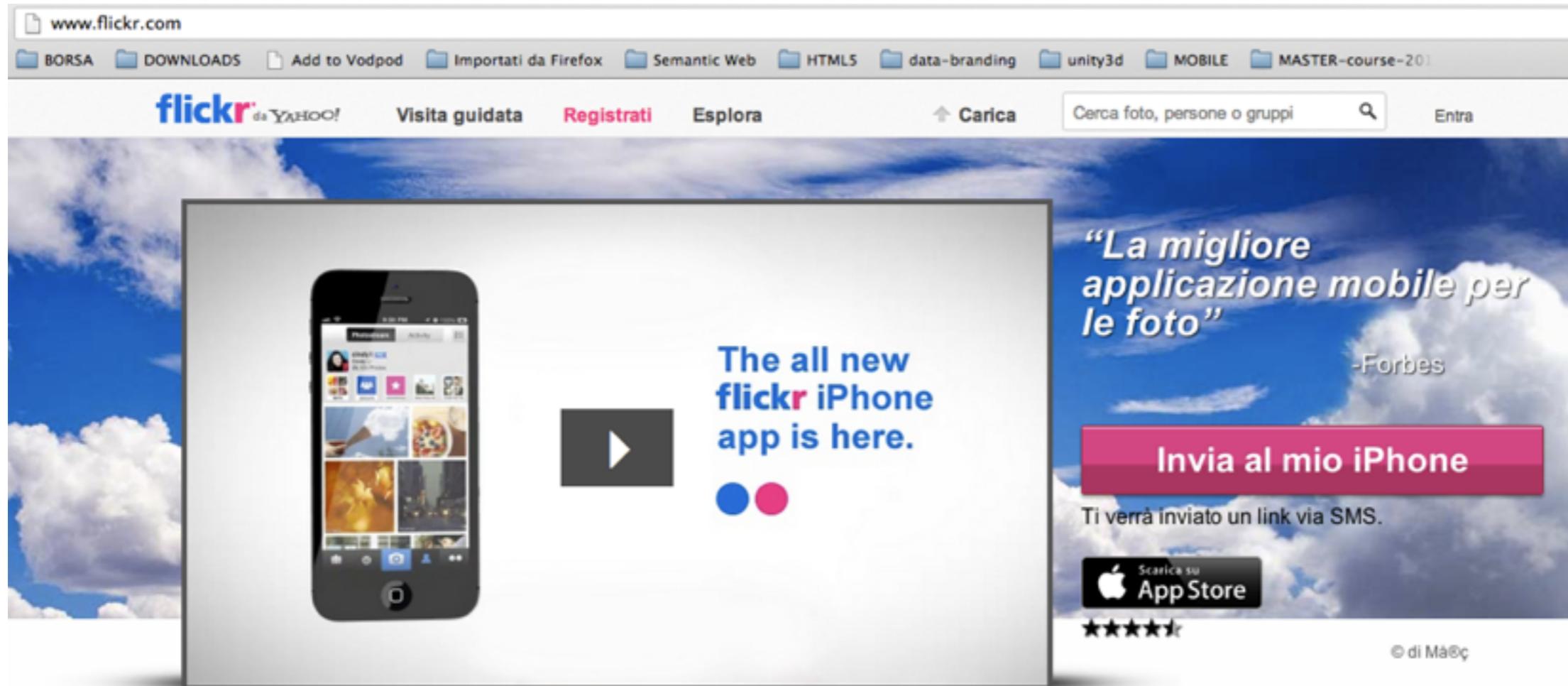
Web 2.0 - strumenti

Strumenti dinamici di organizzazione delle conoscenze:

- Wiki
- Tag e folksonomy
- Blog
- Rss-Really Simple Syndication
- Mash up



Web 2.0 - alcuni esempi



The screenshot shows the Flickr website interface. At the top, there's a navigation bar with the Flickr logo, links for "Visita guidata", "Registrati", "Esplora", and "Carica". A search bar is on the right. The main content area features a large promotional banner for the Flickr iPhone app. The banner includes an image of the iPhone app interface, a play button icon, and the text "The all new flickr iPhone app is here." To the right, there's a quote from Forbes: "La migliore applicazione mobile per le foto" and a pink button that says "Invia al mio iPhone". Below the button, it says "Ti verrà inviato un link via SMS." and there's an "App Store" logo with a five-star rating. The background of the banner is a blue sky with white clouds.

Carica

Tanti modi per avere le tue foto online.

Ci sono tanti modi per caricare le tue foto su Flickr: dal Web, da dispositivi mobili, dall'e-mail o dai tuoi programmi fotografici preferiti.

Scopri

Guarda cosa succede nel tuo mondo.

Tieniti in contatto con i tuoi amici e condividi le tue storie con commenti e note. Aggiungi dettagli usando tag, località e persone.

Condividi

Le tue foto ti seguono ovunque vai.

Carica le tue foto su Flickr, poi condividile in modo semplice e sicuro tramite Facebook, Twitter, e-mail, blog e altro ancora.



Web 2.0 - alcuni esempi

The image shows a screenshot of a web browser displaying the Delicious profile page for user @miccunifi. The browser's address bar shows the URL <https://delicious.com/miccunifi>. The browser's toolbar includes folders for BORSA, DOWNLOADS, and various bookmarks like 'Add to Vodpod', 'Importati da Firefox', 'Semantic Web', 'HTML5', 'data-branding', 'unity3d', 'MOBILE', and 'MASTER-course-201'. The Delicious navigation bar features a search box with '@miccunifi', a help icon, and menu items for DISCOVER, NETWORK, and REMEMBER. On the right, there are links for 'Find friends', 'Add link', and the user's name 'MICC UNIFI' with a profile icon.

A notification banner at the top reads: "Have you seen the new [Delicious iPhone app](#)?"

The profile header for MICC UNIFI @miccunifi includes a placeholder profile picture, the name, and a bio: "Tell the Delicious community about yourself on your [profile settings page](#)." with a link to <http://www.micc.unifi.it/> and an "Edit links" button.

On the left sidebar, statistics show "Links 382", "Followers 1", and "Following 0". Below this is a "TAGS" section with a "SORT" dropdown and a list of tags with their counts: semanticweb (80), javascript (73), jquery (62), rdf (49), api (38), java (34), semantic (27), visualization (27), nlp (26), graph (26), datamining (24), ajax (23), sparql (23), html5 (22), opensource (20), and slideshow (19). A "Show more" link and a "TAG BUNDLES" section are also visible.

The main content area displays a list of links:

- Periodic Table of the Elements - Josh Duck**
about a month ago
joshduck.com | html5webapps, didactic
- DISQUS - Elevating the discussion**
about a month ago
disqus.com | html5webapps, utils
- Favelets**
about a month ago
tantek.com | html5webapps, validators
- Patterns - Theresa Neil**
2 months ago
mobiledesignpatterngallery.com | html5webapps, patterns, UI, mobile
- Mobile Emulators and Simulators - The ultimate guide to mobile develo...**
2 months ago
mobilexweb.com | html5webapps, emulators, browsers
- Mobile HTML5 - compatibility on iPhone, Android, Windows Phone, Bla...**

On the right side, a large link preview for "Periodic Table of the Elements - Josh Duck" is shown, featuring a blue vertical scrollbar. It displays the link title, a count of 4,559, and a share icon. Below this, a list of users who added the link is shown, including shawngo (FIRST ADDED 3 YEARS AGO BY), richmerry (Pinboard (edan)), edanhewitt (periodic table of the html5 elements. this is cool! #html5 t.co/2VG7sPpMSf - David Bates (1finedave) twitter.com/1finedave/status/314763347792900096), Hans Dampf (HTML5 Elements CSS3), lucasrafael2013 (Tabela periódica), and Fernando Daciuk (Tabela periódica com elementos da HTML).

Web 2.0 - alcuni esempi

www.amazon.it/The-Book-ebook/dp/B003BVIXMM/ref=sr_1_1?ie=UTF8&qid=1364064457&sr=8-1&tag=6519986694-21

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M. Clifford (Autore)
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Prezzo edizione digitale: **EUR 2,68**

Prezzo Copertina Ed. Cartacea: **EUR 11,43**

Prezzo Kindle: **EUR 2,68** include IVA (dove applicabile) e il download wireless gratuito con **Amazon Whispernet**

Risparmi: **EUR 8,75 (77%)**

- Lunghezza: 310 pagine (Contiene numeri di pagina reali)
- Lingua: Inglese
- Non possiedi un Kindle? [Scopri Kindle](#).

Formati	Prezzo Amazon	Nuovo a partire da	Usato da
Formato Kindle	EUR 2,68	--	--
Brossura	EUR 10,86	EUR 9,39	EUR 20,75

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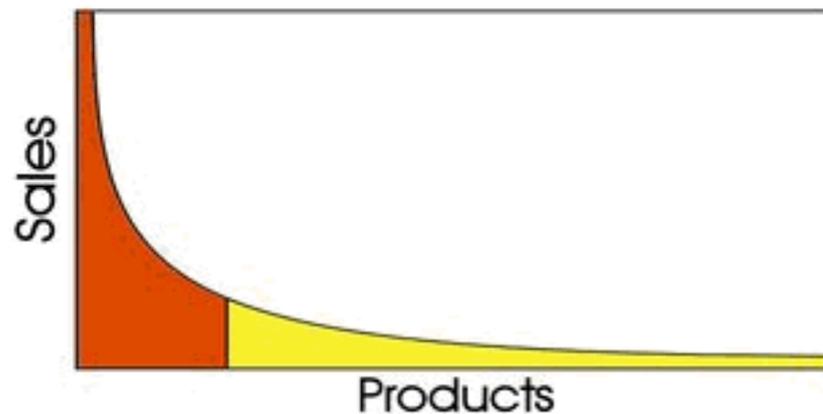
Il prodotto

"Don't read *The Book*." All information, past and present, is controlled by *The Book*, a handheld digital reading device that exists in a paperless, sustainable, future that looks shockingly similar to our own. Among the multitude of Book lovers, we find Holden Clifford, a simple sprinkler fitter who is content with his life. Through his favorite story, *The Catcher in the Rye*, Holden discovers an inconsistency between the digital version and a rare paper page, preserved in the form of a "d" wallpaper in the bathroom of his favorite Chicago bar, *The Library*. His quest for answers leads him quickly beyond the page to discover a secret library of

The long tail

The long tail significa “la lunga coda”

- introdotta da **Chris Anderson** nel 2004 in un articolo da egli scritto sul **Wired Magazine**
- gli eventi poco frequenti (rappresentati dalla porzione gialla della curva) – appunto la coda lunga – possono cumulativamente superare in numero o importanza la porzione iniziale della curva definita come testa.
- La crescente diffusione di internet non ha fatto altro che avvalorare la teoria di Chris Anderson; la possibilità di gestire virtualmente un catalogo rendendolo illimitato ha infatti rivoluzionato i modelli economici precedenti
- Ne è un esempio la **vendita on line di libri**, gestendo un catalogo virtuale, vendendo pochissime copie di migliaia di titoli si possono comunque fare dei rispettabili volumi di ricavi e questo è più redditizio che vendere migliaia di copie di pochi titoli.



Esempio SEO

Web 2.0 - alcuni esempi

The image shows a screenshot of the YouTube homepage in a browser window. The browser's address bar shows 'www.youtube.com'. The page layout includes a top navigation bar with the YouTube logo, a search bar, and an 'Upload' button. On the left side, there is a sidebar with the user's email 'andreaferacani@gmail.com', links for 'Watch Later' and 'Watch History', and a 'What to watch' section with options for 'My subscriptions', 'Social', and 'SUBSCRIPTIONS'. The main content area features a 'Welcome to the YouTube homepage' message, followed by a video recommendation from Gabriele Cimato about Joshua Davis at W3Conf 2013. Below that is a video recommendation from nicola donati about a Breaking Bad promo. At the bottom, there is a 'Recommended for you because you watched' section featuring a video by Beppe Grillo. On the right side, there is a 'Recommended Channels' section listing various channels like 'SERIE A TIM CANA...', 'Google Developers', 'Porta dos fundos', 'CodeOrg', 'W3Conf', and 'Eli the Computer Guy'.

www.youtube.com

iniziare BORSA DOWNLOADS Add to Vodpod Importati da Firefox Semantic Web HTML5 data-branding unity3d MOBILE MAS

You Tube IT

andreaferacani@gmail.com

Watch Later

Watch History

What to watch

My subscriptions

Social 8

SUBSCRIPTIONS

pernixVision

Browse channels

Manage subscriptions

Welcome to the YouTube homepage

Videos from your channel subscriptions and personalized video recommendations appear below. YouTube sorts these videos based on what we think you'll want to watch next.

Want to see all the latest activity from your subscriptions? Check out [My subscriptions](#).

Got It!

Gabriele Cimato shared on Google+ 2 days ago

Joshua Davis, "Beyond Play: the Art of Creative Coding" at W3Conf 2013 (Strong Language)

2,856 views

Warning: This talk contains some strong language, as well as inspiration. W3Conf is W3C's annual conference for web professionals. If you are...

nicola donati +1'd 2 months ago

Breaking Bad promo (The Simpsons)

416,962 views

See this video and others here: <http://superdude1999.blip.tv/>
Follow me on Twitter: https://twitter.com/The_Sup...

Recommended for you because you watched

Sequestro del beni ai politici

Beppe Grillo - La Storia Siamo Noi

by Mirco Moreschi - 90,057 views

Puntata de "La Storia Siamo Noi" dedicata al comico genovese.

Recommended Channels

FEATURED

SERIE A TIM CANA...

Subscribe 89K

Google Developers

Subscribe 276K

Porta dos fundos

Subscribe 1M

CodeOrg

Subscribe 57K

W3Conf

Subscribe 2K

Eli the Computer Guy

Subscribe 85K

see all

tube.com/watch?v=1IS4fridPM4

Web 2.0 - alcuni esempi

The screenshot shows the Myspace website interface. At the top, the Myspace logo is on the left, followed by a navigation bar with links for 'Iscriviti' (Sign up), 'Accedi' (Log in), a search bar labeled 'Cerca persone', and other options like 'Musica', 'Video', 'Giochi', and 'Cerca nuovi amici'. Below the navigation bar, there are two main promotional banners. The left banner features a profile picture of Emeli Sande with the text 'EMELI SANDE' and 'L'esibizione live e l'intervista speciale per Myspace', with a 'GUARDA ORA' button. The right banner is an advertisement for IKEA, showing a kitchen scene with the text 'BASTA POCO PER AVERE UNA CUCINA DI QUALITÀ.' and a 'PLAY' button. Below these banners, the main content area is split into two columns. The left column has a large text block: 'Rebuilt. Redesigned. Reinvented. New.Myspace.com' with a 'Sign up now.' button and a group of three people icon. The right column contains a sign-up section with a yellow 'Iscriviti gratuitamente' button, a 'Sei già iscritto? Accedi' button, and a 'Collegati con Facebook' button. Below the Facebook button, it says 'Alessia Capozzi, Francisco Ferracani and 8 other friends use Myspace.' and shows a row of small profile pictures. At the bottom of the page, there is a footer with the text 'Ricostruito. Riprogettato. Reinventato. Il nuovo Myspace. New.Myspace.com' and a blue 'Iscriviti ora' button.

myspace [Iscriviti](#) [Accedi](#) Cerca persone [Musica](#) [Video](#) [Giochi](#) [Cerca nuovi amici](#)

EMELI SANDE
L'esibizione live e l'intervista speciale per Myspace **GUARDA ORA ▶**

BASTA POCO PER AVERE UNA CUCINA DI QUALITÀ.
© Inter IKEA Systems B.V. 1999 - 2013

Iscriviti gratuitamente
Sei già iscritto? [Accedi](#)
Oppure
[Collegati con Facebook](#)
Alessia Capozzi, Francisco Ferracani and 8 other friends use Myspace.

Ricostruito. Riprogettato. Reinventato. Il nuovo Myspace. New.Myspace.com **Iscriviti ora**

Web 2.0 - alcuni esempi

Visita la pagina principale



WIKIPEDIA
L'enciclopedia libera

[Pagina principale](#)
[Ultime modifiche](#)
[Una voce a caso](#)
[Vetrina](#)
[Aiuto](#)

▼ **Comunità**
[Portale Comunità](#)
[Bar](#)
[Il Wikipediano](#)
[Fai una donazione](#)
[Contatti](#)

▼ **Stampa/esporta**
[Crea un libro](#)
[Scarica come PDF](#)
[Versione stampabile](#)

▼ **Strumenti**
[Puntano qui](#)
[Modifiche correlate](#)
[Carica su Commons](#)
[Pagine speciali](#)
[Link permanente](#)
[Informazioni sulla pagina](#)
[Cita questa voce](#)

► **Altri progetti**

Voce [Discussione](#)

[Leggi](#)

[Modifica](#)

[Visualizza cronologia](#)

Wiki

Da Wikipedia, l'enciclopedia libera.

Un **wiki** è una pagina (o comunque una collezione di [documenti ipertestuali](#)) che viene aggiornata dai suoi utilizzatori e i cui contenuti sono sviluppati in [collaborazione](#) da tutti: la modifica dei contenuti è aperta, nel senso che il testo può essere modificato da tutti gli utenti (a volte soltanto se registrati, altre volte anche anonimi) contribuendo non solo per lo più nei [forum](#), ma anche cambiando e cancellando ciò che hanno scritto gli autori precedenti.

Ogni modifica è registrata in una cronologia che permette in caso di necessità di riportare il testo alla versione precedente; lo scopo è quello di condividere, scambiare, immagazzinare e diffondere conoscenza in modo collaborativo. Il termine "wiki" indica anche il [software collaborativo](#) utilizzato per creare il sito web e il server.

Wiki, in base alla [etimologia](#), è anche un modo di essere.

Indice [nascondi]

- 1 Etimologia
- 2 Pronuncia
- 3 Storia
- 4 Campi di applicazione
- 5 Caratteristiche principali
- 6 Pagine e modifiche
 - 6.1 Collegamento e creazione di pagine
- 7 Il controllo delle modifiche
- 8 Ricerca
- 9 Motori wiki
- 10 Comunità wiki
- 11 Gergo
- 12 Note
- 13 Bibliografia
- 14 Voci correlate
- 15 Altri progetti
- 16 Collegamenti esterni

Etimologia [modifica]

Web 2.0 - alcuni esempi

The image shows a screenshot of the Google Maps website. At the top, there is a navigation bar with links to +Andrea, Search, Images, Maps, Play, YouTube, News, Gmail, Drive, Calendar, and More. Below this is the Google logo and a search bar. The main content area features a map of North America, including the United States, Canada, and Mexico. The map is displayed in a 3D perspective. On the left side of the map, there are navigation controls: a compass, a street view pegman, and a vertical zoom slider. Below the map, there is a scale bar showing 500 miles and 500 kilometers. In the bottom left corner, there is a section titled "Experience MapsGL" with a list of features and a "Try it now" button. The bottom of the page contains links for Maps Labs, Help, and Google Maps copyright information.

+Andrea Search Images **Maps** Play YouTube News Gmail Drive Calendar More -

Google Andrea Ferrac

Get directions My places

United States
Not your current location? [Correct it](#)

[Put your business on Google Maps](#)

Experience MapsGL

- Take 3D photo tours of landmarks **Now!**
- View 3D buildings
- Fly over 45-degree aerial view imagery
- 'Swoop' quickly into Street View, without a plugin

MapsGL is our Beta Maps technology powered by WebGL, and has certain [system requirements](#).

[Try it now](#)

Maps Labs - Help
Google Maps - ©2013 Google - [Terms of Use](#) - [Privacy](#)

500 mi
500 km

Guatemala Honduras
Guatemala Honduras
Caribbean Sea Imagery ©2013

Sintesi - definizioni

Da **Wikipedia**:

“Il Web 2.0 è un termine utilizzato per indicare genericamente uno stato di evoluzione di Internet (e in particolare del World Wide Web), rispetto alla condizione precedente.

Si tende ad indicare come Web 2.0 l'insieme di tutte quelle applicazioni online che permettono uno spiccato livello di interazione sito-utente (blog, forum, chat, sistemi quali Wikipedia, Youtube, Facebook, Myspace, Twitter, Gmail, Wordpress, Tripadvisor ecc.).

La locuzione pone l'accento sulle differenze rispetto al cosiddetto Web 1.0, diffuso fino agli anni novanta, e composto prevalentemente da siti web statici, senza alcuna possibilità di interazione con l'utente eccetto la normale navigazione tra le pagine, l'uso delle email e l'uso dei motori di ricerca.”

Sintesi definizioni

Da **Enciclopedia Britannica**:

“next envisioned iteration of the World Wide Web, in which the 2.0 appellation is used in analogy with common computer software naming conventions to indicate a new, improved version...many of the most vocal advocates of the Web 2.0 concept have an almost messianic view of harnessing social networking for business goals”

Prospettive di sviluppo

Tim O'Reilly e John Battelle (Web 2.0 Summit) - 2009:

Cosa sarà il web 3.0?

“semantic web?

Is it the social web?

The mobile web?

Is it some form of virtual reality?

It is all of those, and more.”

[Articolo](#) (in inglese)

Prospettive di sviluppo

Tim O'Reilly e John Battelle (Web 2.0 Summit) - 2009:

Tagline: Web Squared “Web meets World - that’s Web Squared”

Quali caratteristiche?

- “Our phones and cameras are being turned into eyes and ears for applications; motion and location sensors tell where we are, what we’re looking at, and how fast we’re moving”
- Realtà Aumentata

AR - video

Augmented reality: <http://www.youtube.com/watch?v=6br7NreTwD4>



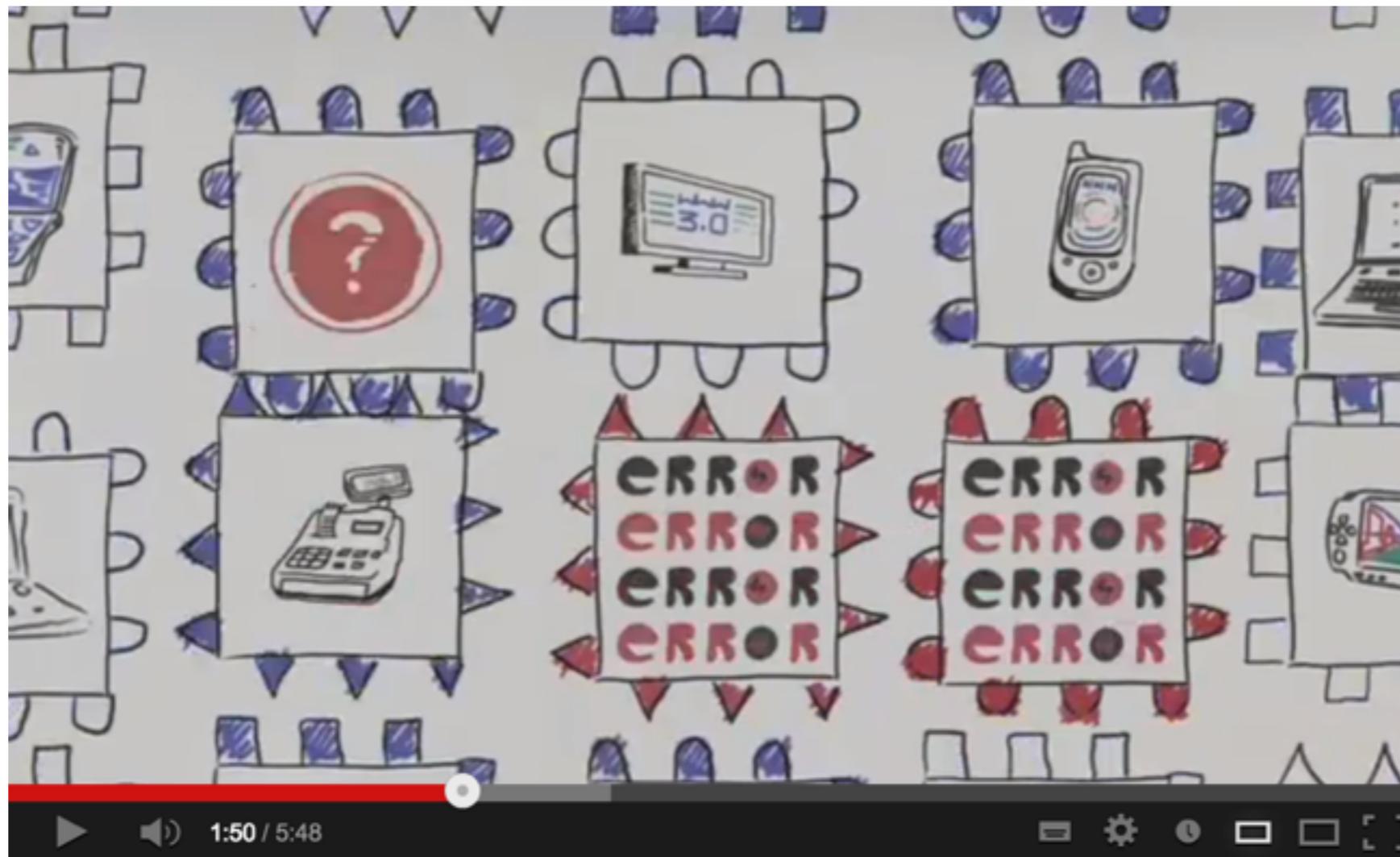
IT - video

Internet of Things: <http://www.youtube.com/watch?v=sfEbMV295Kk>



IT - video

Internet of Things: <http://www.youtube.com/watch?v=off08As3siM>



This is the Main Heading

This text might be an introduction to the rest of the page. And if the page is a long one it might be split up into several sub-headings.

This is a Sub-Heading

Many long articles have sub-headings so to help you follow the structure of what is being written. There may even be sub-sub-headings (or lower-level headings).

Another Sub-Heading

Here you can see another sub-heading.

Struttura



La **struttura** dei contenuti sul web è molto simile a quella che conosciamo su altri canali

Struttura



Gerarchia delle informazioni: titoli, sottotitoli, paragrafi

XHTML

Per definire cos'è XHTML possiamo iniziare con una semplice espressione:

XML + HTML = XHTML

XML

XML: è un metalinguaggio: "a common syntax for expressing structure in data" ovvero un linguaggio per definire nuovi linguaggi di markup. XML consente di crearsi i propri tipi di documenti. E' quindi uno strumento per scambiare dati. Esempi

Lo scopo di XML è quello di separare la definizione dei dati dalla rappresentazione, per favorire lo scambio di documenti strutturati.

In particolare i principali obiettivi di XML, dichiarati nella prima specifica ufficiale (ottobre 1998), sono:

- utilizzo del linguaggio su Internet,
- facilità di creazione dei documenti,
- supporto di più applicazioni,
- chiarezza e comprensibilità.

```
<breakfast_menu>
  <food>
    <name>Belgian Waffles</name>
    <price>$5.95</price>
    <description>
      two of our famous Belgian Waffles with plenty of real
      maple syrup
    </description>
    <calories>650</calories>
  </food>

  <food>
    <name>French Toast</name>
    <price>$4.50</price>
    <description>
      thick slices made from our homemade sourdough bread
    </description>
    <calories>600</calories>
  </food>

  <food>
    <name>Homestyle Breakfast</name>
    <price>$6.95</price>
    <description>
      two eggs, bacon or sausage, toast,
      and our ever-popular hash browns
    </description>
    <calories>950</calories>
  </food>
</breakfast_menu>
```

HTML

HTML è l'acronimo di **HyperText Markup Language**.

HTML è un **linguaggio di marcatura** per presentare i contenuti di una pagina web (per la descrizione di come appaiono documenti all'interno di un browser) . La sua semplicità è la base dell'esplosione di Internet. Fornisce strumenti per presentare titoli, paragrafi, font, link, immagini.

Con il termine **marcatura (markup)** si intende una sequenza di caratteri o altri simboli che si inseriscono all'interno di un documento per indicare come il contenuto deve apparire o per descrivere la struttura logica del documento.

HTML

L'HTML descrive la struttura della pagina:

```
<html>  
  <body>  
    <h1>This is the Main Heading</h1>  
    <p>This text might be an introduction to the rest of  
the page.And if the page is a long one it might  
be split up into several sub-headings.<p>  
    <h2>This is a Sub-Heading</h2>  
    <p>Many long articles have sub-headings so to help  
you follow the structure of what is being written.There may even be sub-sub-headings (or lower-level headings).</p>  
    <h2>Another Sub-Heading</h2>  
    <p>Here you can see another sub-heading.</p>  
  </body>  
</html>
```

L'HTML è fatto di **tag** che prevedono un elemento di apertura ed uno di chiusura. Il tag definisce ciò che contiene a livello **semantico**

HTML

```
<html>  
  <body>  
    <h1>This is the Main Heading</h1>  
    <p>This text might be an introduction to the rest of  
      the page. And if the page is a long one it might  
      be split up into several sub-headings.</p>  
    <h2>This is a Sub-Heading</h2>  
    <p>Many long articles have sub-headings so to help  
      you follow the structure of what is being written.  
      There may even be sub-sub-headings (or lower-level  
      headings).</p>  
    <h2>Another Sub-Heading</h2>  
    <p>Here you can see another sub-heading.</p>  
  </body>  
</html>
```

HTML

The opening `<html>` tag indicates that anything between it and a closing `</html>` tag is HTML code.

The `<body>` tag indicates that anything between it and the closing `</body>` tag should be shown inside the main browser window.

Words between `<h1>` and `</h1>` are a main heading.

A paragraph of text appears between these `<p>` and `</p>` tags.

Words between `<h2>` and `</h2>` form a sub-heading.

Here is another paragraph between opening `<p>` and closing `</p>` tags.

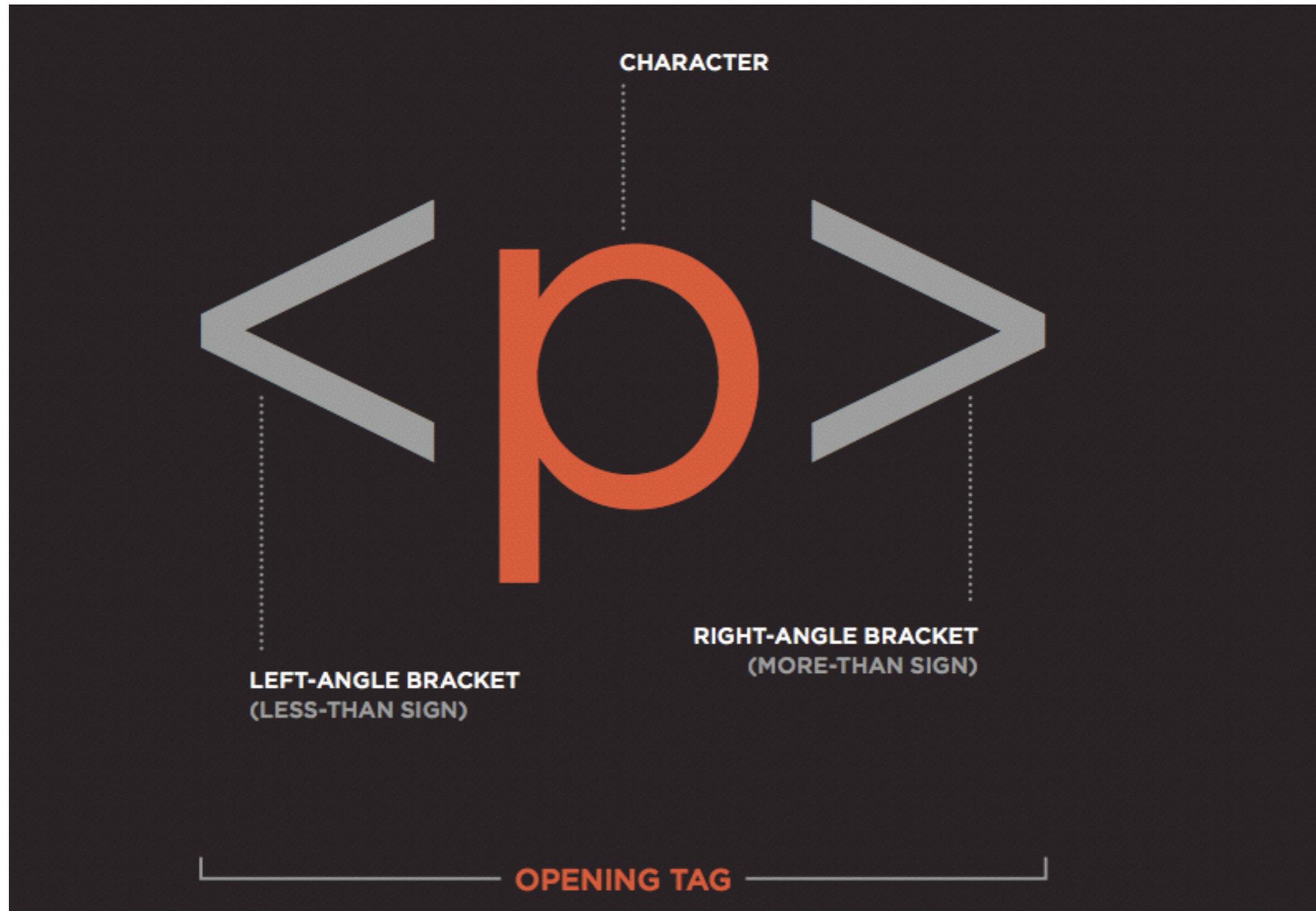
Another sub-heading inside `<h2>` and `</h2>` tags.

Another paragraph inside `<p>` and `</p>` tags.

The closing `</body>` tag indicates the end of what should appear in the main browser window.

The closing `</html>` tag indicates that it is the end of the HTML code.

l tag



ll tag



Tag

Gli **attributi** aggiungono semantica ai tag



Diagram illustrating an HTML tag with an attribute. The tag is `<p lang="en-us">Paragraph in English</p>`. The attribute name `lang` is labeled as "ATTRIBUTE NAME" (in green), and the attribute value `"en-us"` is labeled as "ATTRIBUTE VALUE" (in orange).

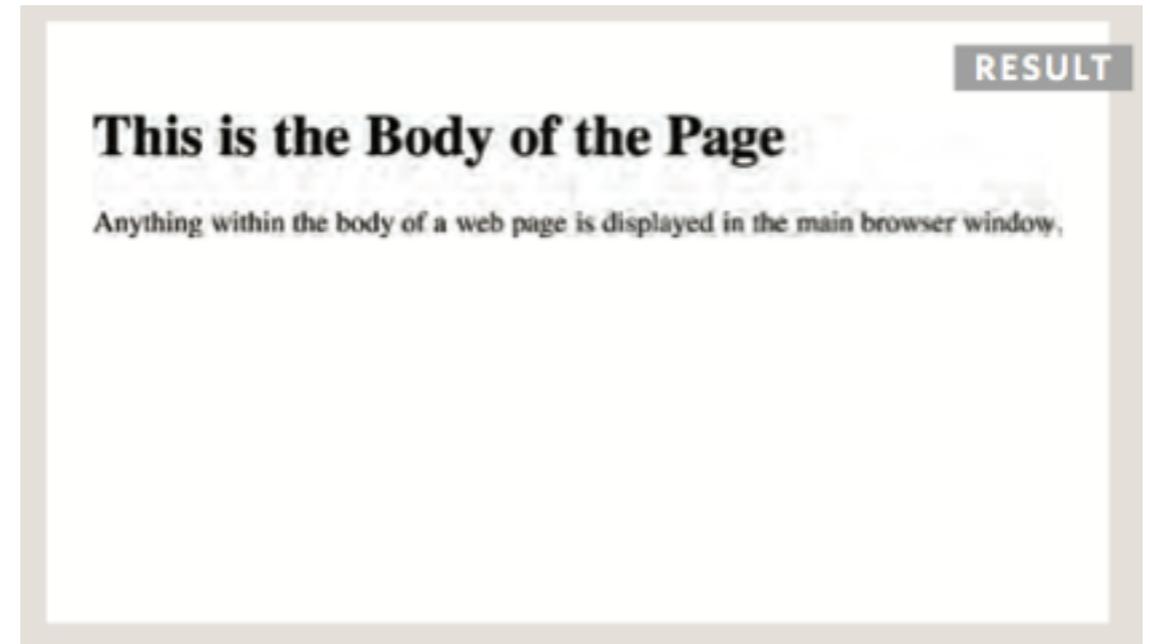


Diagram illustrating an HTML tag with an attribute. The tag is `<p lang="fr">Paragraphe en Français</p>`. The attribute name `lang` is labeled as "ATTRIBUTE NAME" (in green), and the attribute value `"fr"` is labeled as "ATTRIBUTE VALUE" (in orange).

Code

/code-01/body-head-title.html

```
<html>
  <head>
    <title>This is the Title of the Page</title>
  </head>
  <body>
    <h1>This is the Body of the Page</h1>
    <p>Anything within the body of a web page
    is displayed in the main browser window.
    </p>
```



- **<body>**: ciò che è visibile nella finestra del browser
- **<head>**: meta-informazioni pagina
- **<title>**: ciò che appare nella tab del browser

Struttura Documento HTML

Un documento HTML è normalmente diviso in due sezioni:

Testa - `<head>`

Contiene informazioni che riguardano il modo in cui il documento deve essere letto e interpretato.

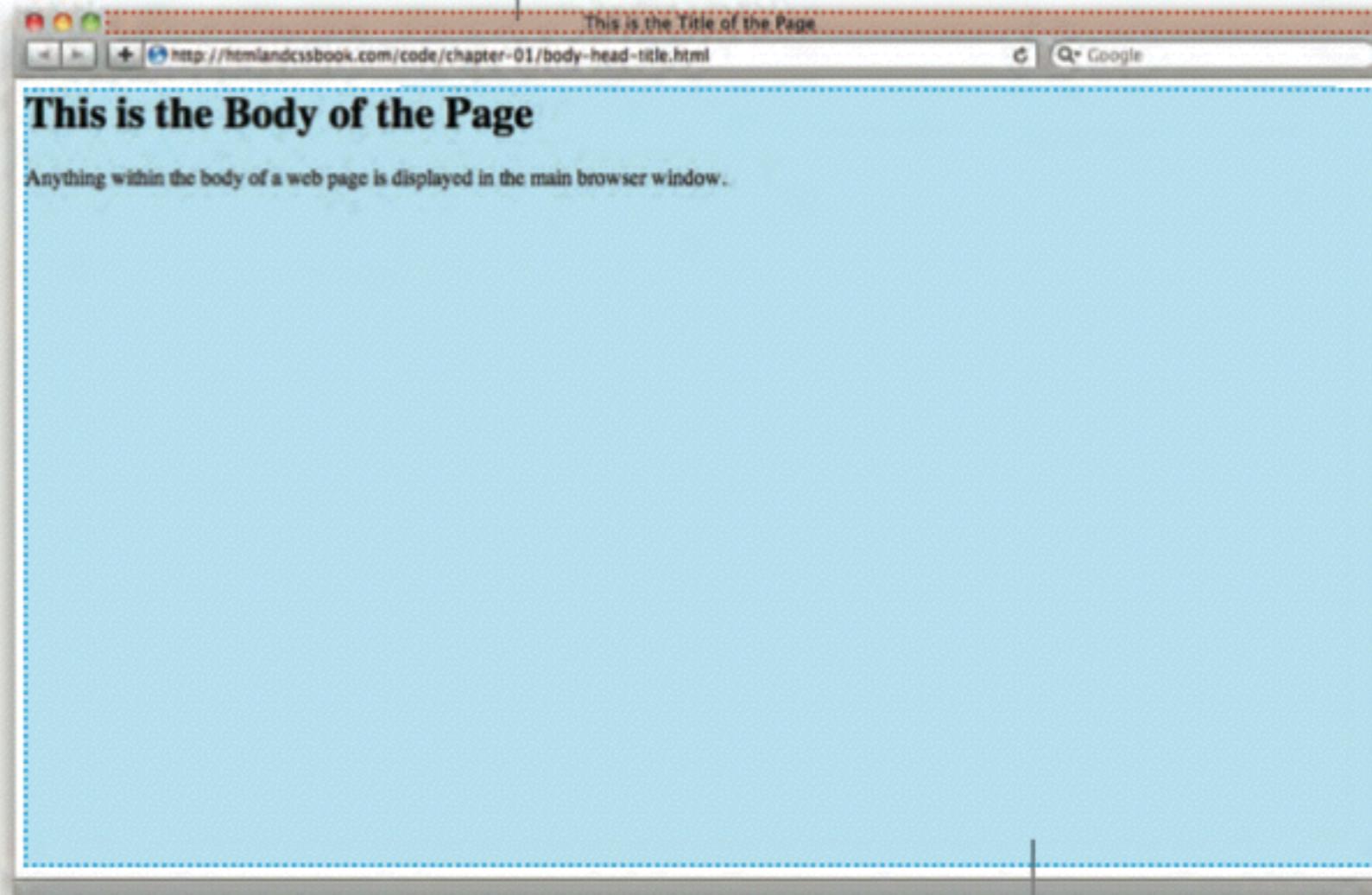
Questo è il luogo dove scrivere, ad esempio, i **meta-tag** (p.e. per i motori di ricerca), **script** JavaScript, **fogli di stile**

Corpo - `<body>`

Contiene il contenuto del documento

Code

title



body

HTML

- Le pagine HTML sono **documenti di testo**
- L'HTML usa i **tag** per dare significato a parti del testo.
- I tag si **aprono** e si **chiudono**
- I tag posso avere **attributi**.
- Gli attributi sono **coppie nome / valore**.
- Per scrivere HTML bisogna conoscere il significato dei tag

Esercizio: `code-01/example.html`

HTML - attributi

Ai TAG possono essere associati **attributi** e agli attributi un valore. Il contenuto va inserito tra l'apertura e la chiusura del TAG medesimo.

La struttura di un TAG è quindi: **<TAG attributi>contenuto</TAG>**

La struttura di un attributo è: **attributo="valore"**

Ecco un esempio, con una sintassi che serve a disporre un testo giustificato a destra: **<P align="right">testo</P>**

In generale quindi la struttura di un TAG è:

<TAG attributo_1="valore1" attributo_2="valore2">contenuto</TAG>

HTML - attributi esempi

`<body bgcolor="blue">`

impostare un colore di sfondo è necessario impostare il relativo attributo del tag body

`<body background="imgSfondo.gif">`

inserire un'immagine come sfondo. L'immagine di sfondo verrà ripetuta in orizzontale e in verticale.

`<body bgcolor="#0000ff" background="imgSfondo.gif">`

combinare sullo sfondo il colore con l'immagine

`<body bgcolor="#0000FF">`

per scegliere il colore è comunque più opportuno utilizzare la corrispondente codifica esadecimale

Codifica esadecimale

colore	parola chiave	notazione esadecimale
arancione	orange	#FFA500
blu	blue	#0000FF
bianco	white	#FFFFFF
giallo	yellow	#FFFF00
grigio	gray	#808080
marrone	brown	#A52A2A
nero	black	#000000
rosso	red	#FF0000
verde	green	#008000
viola	violet	#EE82EE

HTML - esempio

Creiamo un file HTML e incolliamoci questo codice a visualizziamolo nel browser:

```
<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0I Transitional//EN"
"http://www.w3.org/TR/html4/loose.dtd">
<html>
  <head>
    <title>title</title>
  </head>
  <body
    leftmargin="0"
    topmargin="0"
    bgcolor="#66CCFF"
    lang="it">
    Testo di prova
  </body>
</html>
```

HTML - tag speciali

Alcuni particolari TAG non hanno contenuto - perché ad esempio indicano la posizione di alcuni elementi, come il TAG delle immagini - conseguentemente questi TAG **non hanno neanche chiusura**.

La loro forma sarà dunque: **<TAG attributi />**.

Questo tipo di TAG viene detto "empty", cioè "vuoto".

Un esempio di TAG empty per una immagine è:

HTML

I TAG possono essere **annidati** l'uno dentro l'altro:

```
<TAG1 attributi> contenuto 1
```

```
    <TAG2>contenuto 2</TAG2>
```

```
</TAG1>
```

Ad esempio, per attribuire formattazioni successive al testo che stiamo inserendo:

```
<P align="right">testo 1 </P>
```

```
<P align="left">testo 2</P>
```

HTML

HTML è **case insensitive**, è del tutto indifferente se scrivere i TAG in maiuscolo o in minuscolo:

```
<P ALIGN="RIGHT">
```

e

```
<p align="right">
```

vengono letti allo stesso modo dal browser

XHTML è invece **case sensitive**

HTML - commenti

Per rendere il codice più leggibile è opportuno inserire "commenti" nei punti più significativi: in modo da mantenere l'orientamento anche in file molto complessi e lunghi.

La sintassi è la seguente:

```
<!-- questo è un commento -->
```

XHTML

XHTML è la riformulazione di HTML come **applicazione XML**. Ciò significa essenzialmente una cosa: un documento XHTML **deve essere valido e ben formato**.

Una pagina XHTML può essere sottoposta ad un validatore.

Il validatore controlla:

- che il codice sia ben formato, ovvero rispetti la corretta grammatica e sequenza di tag
- che il codice sia valido, ovvero che sia conforme ai tipi di dato definiti nel **DTD**.

Il W3C definisce quale tipo di dato deve essere definito all'interno di un documento XHTML I Strict

<http://www.w3.org/TR/xhtml1/DTD/xhtml1-strict.dtd>

XHTML - validazione

W3C Markup validation service

<http://validator.w3.org>

**Markup Validation Service**
Check the markup (HTML, XHTML, ...) of Web documents

[Validate by URI](#) | [Validate by File Upload](#) | [Validate by Direct Input](#)

Validate by URI

Validate a document online:

Address:

[▶ More Options](#)

This validator checks the [markup validity](#) of Web documents in HTML, XHTML, SMIL, MathML, etc. If you wish to validate specific [MobileOK content](#), or to [find broken links](#), there are [other validators and tools](#) available. As an alternative you can also try our [non](#)



NEW - W3C offers a beta release of a new service providing you an integrat [Try it now](#) to quickly identify those portions of your web site th

XHTML

Con l'introduzione di **XHTML**, piuttosto che sfornare una nuova versione del linguaggio, un HTML 5.0, il W3C ha compiuto un'opera di ridefinizione:

Niente nuovi tag, attributi o metodi. Questi rimangono essenzialmente quelli di HTML 4.0.

Il vocabolario rimane uguale, ma **cambiano le regole sintattiche.** Se vengono inseriti elementi non supportati (font, larghezza per le celle di tabelle o margini per il body, per citare solo alcuni esempi) il documento non è valido.

Con XHTML, almeno nella sua versione Strict, si torna ad **un linguaggio che definisce solo la struttura.** La formattazione si fa con i CSS.

XHTML risponde a due esigenze fondamentali:

- portare HTML nella famiglia XML con i benefici che ciò comporta in termini di estensibilità e rigore sintattico
- mantenere la compatibilità con i software che supportano HTML 4.0

XHTML

HTML era “figlio” del linguaggio di markup **SGML: Standard Generalized Markup Language**

XML è un sottoinsieme di **SGML** caratterizzato dal fatto di avere restrizioni sulla grammatica dei tag

XHTML è “figlio” di **XML**, segue pertanto la sua filosofia di correttezza e validità.

In XHTML il **contenuto deve essere rigorosamente separato dalla presentazione**. Si usano TAG che hanno un **contenuto semantico**: `<h1>` ad esempio rappresenta un header, non come deve essere visualizzato

XHTML - versioni

Con **HTML** è possibile omettere gli elementi html, head, body e DOCTYPE. In **XHTML** sono obbligatori.

Con **HTML** è possibile omettere alcuni TAG di chiusura. In **XHTML** sono obbligatori, anche con i TAG vuoti.

Con **HTML** è possibile omettere le virgolette per i valori degli attributi che non contengono spazi, o caratteri speciali. In **XHTML** sono obbligatorie.

HTML non fa differenze tra minuscole e maiuscole (case insensitive). In **XHTML** impone che gli elementi, gli attributi e i valori predefiniti siano scritti in minuscolo.

XHTML - doctype

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0  
Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-  
transitional.dtd">
```

```
<html xmlns="http://www.w3.org/1999/xhtml">  
  <head>  
    <meta http-equiv="Content-Type" content="text/html;  
charset=UTF-8" />  
    <title>Untitled Document</title>  
</head>
```

La dichiarazione **DOCTYPE** indica che tipo di **XHTML** è usato, in questo modo i browser sanno come interpretare il codice e i validatori sanno come verificare la sintassi.

HTML5

HTML5 è il nuovo standard di HTML.

La versione precedente, HTML 4.01, è nata nel 1999. Il web è cambiato enormemente da allora.

HTML5 è ancora **un work in progress**. Comunque, i browser principali supportano molte delle nuove HTML5 elements and APIs.

HTML5 è nato da una cooperazione fra il **World Wide Web Consortium (W3C)** ed il **Web Hypertext Application Technology Working Group (WHATWG)**. **WHATWG** lavorava su web forms and applications, ed il **W3C** stava lavorando con **XHTML 2.0**. Nel 2006, decisero di cooperare e creare una nuova versione di HTML.

HTML5 - video

HTML5 video: <http://www.youtube.com/watch?v=6BAflsaNRnk>



HTML5

Alcune **regole** osservate nel formulare HTML5:

- le nuove funzionalità sono basate su HTML, CSS, DOM, and JavaScript
- ridurre l'uso di plugin esterni (Flash)
- miglior gestione degli errori
- più markup invece che scripting
- HTML5 deve essere indipendente dai device
- il processo di sviluppo deve essere pubblico

Alcune delle nuove funzionalità in HTML5:

- **<canvas>** tag per il disegno 2D
- **<video>** e **<audio>** tags per **media playback**
- Supporto per local storage
- New content-specific elements, like **<article>**, **<footer>**, **<header>**, **<nav>**, **<section>**
- New form controls, like calendar, date, time, email, url, search

HTML5 - browsers

HTML5 non è ancora uno standard ufficiale, e nessuno dei browsers ha un supporto completo.

Ma tutti i maggiori browsers (Safari, Chrome, Firefox, Opera, Internet Explorer) continuano ad aggiungere nuove funzionalità HTML5 alle loro ultime versioni.



HTML5 - pagina di base

```
<!DOCTYPE html>
```

```
<html>
```

```
  <head>
```

```
    <title>Title of the document</title>
```

```
  </head>
```

```
  <body>
```

```
    The content of the document.....
```

```
  </body>
```

```
</html>
```

HTML5

HTML5 is The New HTML Standard

HTML



HTML5

- New Elements
- New Attributes
- Full CSS3 Support
- Video and Audio
- 2D/3D Graphics
- Local Storage
- Local SQL Database
- Web Applications



The Story in the Book

Chapter 1

Molly had been staring out of her window for about an hour now. On her desk, lying between the copies of *Nature*, *New Scientist*, and all the other scientific journals her work had appeared in, was a well thumbed copy of *On The Road*. It had been Molly's favourite book since college, and the longer she spent in these four walls the more she felt she needed to be free.

She had spent the last ten years in this room, sitting under a poster with an Oscar Wilde quote proclaiming that "Work is the refuge of people who have nothing better to do". Although many considered her pioneering work, unraveling the secrets of the llama DNA, to be an outstanding achievement, Molly *did* think she had something better to do.

Text markup

```
<html>
  <head>
    <title>Text</title>
  </head>
  <body>
    <h1>The Story in the Book</h1>
    <h2>Chapter 1</h2>
    <p>Molly had been staring out of her window for about
an hour now. On her desk, lying between the copies of <i>Nature</i>, <i>New Scientist</i>, and all
the other scientific journals her work had appeared in, was a well thumbed copy of <cite>On The
Road</cite>. It had been Molly's favorite book since college, and the longer she spent in these four walls
the more she felt she needed to be free.</p>
    <p>She had spent the last ten years in this room, sitting under a poster with an Oscar Wilde quote
proclaiming that <q>Work is the refuge of people who have nothing better to do</q>. Although many
considered her pioneering work, unraveling the secrets of the llama <abbr
title="Deoxyribonucleic acid">DNA</abbr>, to be an outstanding achievement, Molly
<em>did</em> think she had something better to do.</p>
  </body>
</html>
```

Esercizio: code-02/12-example.html

Scrambled Eggs

Eggs are one of my favorite foods. Here is a recipe for deliciously rich scrambled eggs.

Ingredients

- 2 eggs
- 1tbs butter
- 2tbs cream

Method

1. Melt butter in a frying pan over a medium heat
2. Gently mix the eggs and cream in a bowl
3. Once butter has melted add cream and eggs
4. Using a spatula fold the eggs from the edge of the pan to the center every 20 seconds (as if you are making an omelette)
5. When the eggs are still moist remove from the heat (it will continue to cook on the plate until served)

List markup

```
<html>
  <head>
    <title>Lists</title>
  </head>
  <body>
    <h1>Scrambled Eggs</h1>
    <p>Eggs are one of my favourite foods. Here is a recipe for deliciously rich scrambled eggs.</p>
    <h2>Ingredients</h2>

    <ul>
      <li>2 eggs</li>
      <li>1tbs butter</li>
      <li>2tbs cream</li>
    </ul>

    <h2>Method</h2>

    <ol>
      <li>Melt butter in a frying pan over a medium heat</li>
      <li>Gently mix the eggs and cream in a bowl</li>
      <li>Once butter has melted add cream and eggs</li>
      <li>Using a spatula fold the eggs from the edge of the pan to the center every 20 seconds (as if you are making an omelette)</li>
      <li>When the eggs are still moist remove from the heat (it will continue to cook on the plate until served)</li>
    </ol>

  </body>
</html>
```

Esercizio: code-03/5-example.html

Film Folk

Festival Diary

Here are some of the film festivals we will be attending this year.
Please [contact us](#) if you would like more information.

January

[Sundance Film Festival](#)
Park City, Utah, USA
20 - 30 January 2011

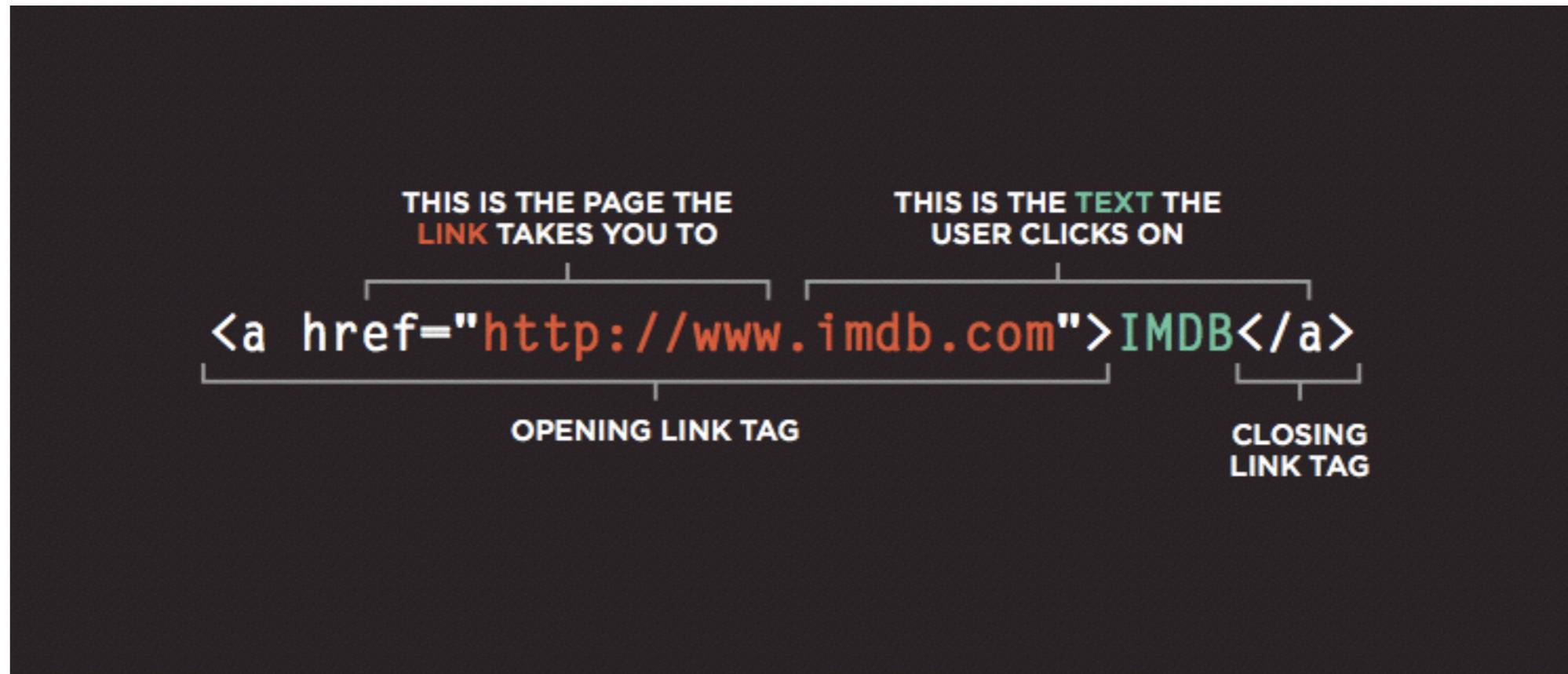
February

[Tropfest](#)
Sydney, Australia
20 February 2011

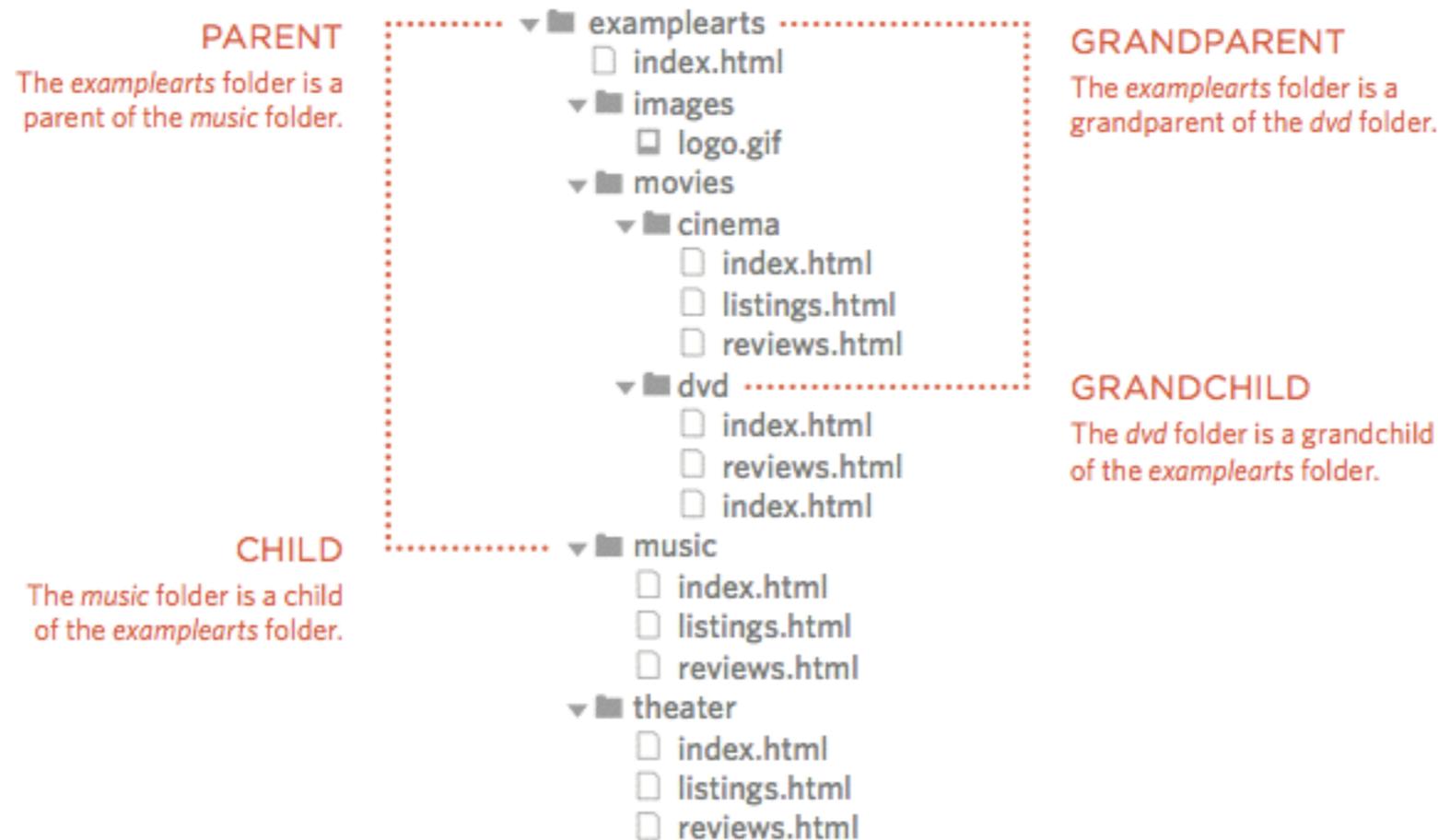
March

[South by Southwest](#)
Austin, Texas, USA
11 - 20 March 2011

Links



Struttura delle directories di un sito web



Relative URLs

RELATIVE LINK TYPE

EXAMPLE (from diagram on previous page)

SAME FOLDER

To link to a file in the same folder, just use the file name. (Nothing else is needed.)

To link to music reviews from the music homepage:
`Reviews`

CHILD FOLDER

For a child folder, use the name of the child folder, followed by a forward slash, then the file name.

To link to music listings from the homepage:
`Listings`

GRANDCHILD FOLDER

Use the name of the child folder, followed by a forward slash, then the name of the grandchild folder, followed by another forward slash, then the file name.

To link to DVD reviews from the homepage:
`Reviews`

PARENT FOLDER

Use `../` to indicate the folder above the current one, then follow it with the file name.

To link to the homepage from the music reviews:
`Home`

GRANDPARENT FOLDER

Repeat the `../` to indicate that you want to go up two folders (rather than one), then follow it with the file name.

To link to the homepage from the DVD reviews:
`Home`

Example links

```
<html>
<head>
  <title>Links</title>
</head>
<body>
  <h1 id="top">Film Folk</h1>
  <h2>Festival Diary</h2>
  <p>Here are some of the film festivals we will be attending this year.<br />Please <a
href="mailto:filmfolk@example.org">contact us</a> if you would like more information.</p>
  <h3>January</h3>
  <p><a href="http://www.sundance.org">Sundance Film Festival</a><br /> Park City, Utah, USA<br /> 20
- 30 January 2011</p>
  <h3>February</h3>
  <p><a href="http://www.tropfest.com">Tropfest</a><br /> Sydney, Australia<br /> 20 February 2011</
p>
  <!-- additional content -->
  <p><a href="about.html">About Film Folk</a></p>
  <p><a href="#top">Top of page</a></p>
</body>
</html>
```

Esercizio: code-04/6-example.html

From A to Zucchini



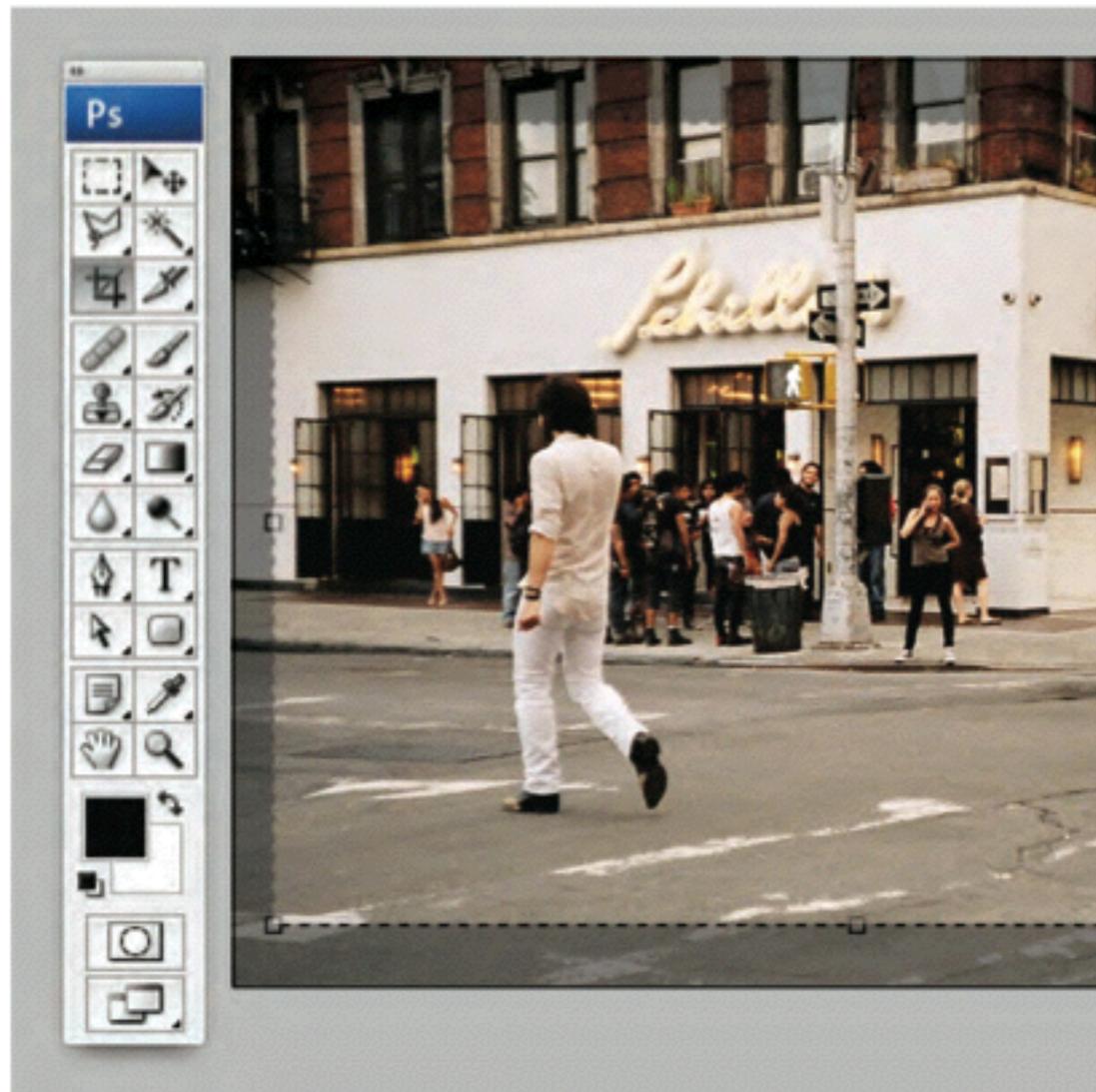
Chocolate cake

Other recipes



MacBook Pro

Salvare le immagini per il web



OTHER SOFTWARE

Adobe Fireworks
Pixelmator
PaintShop Pro
Paint.net

ONLINE EDITORS

www.photoshop.com
www.pixlr.com
www.splashup.com
www.ipiccy.com

Photoshop: File > Save for web and devices

IMAGE FORMATS: JPEG

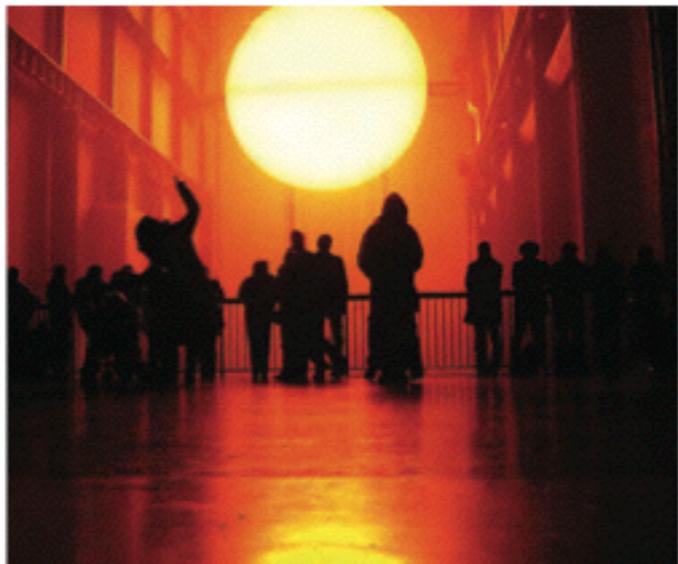
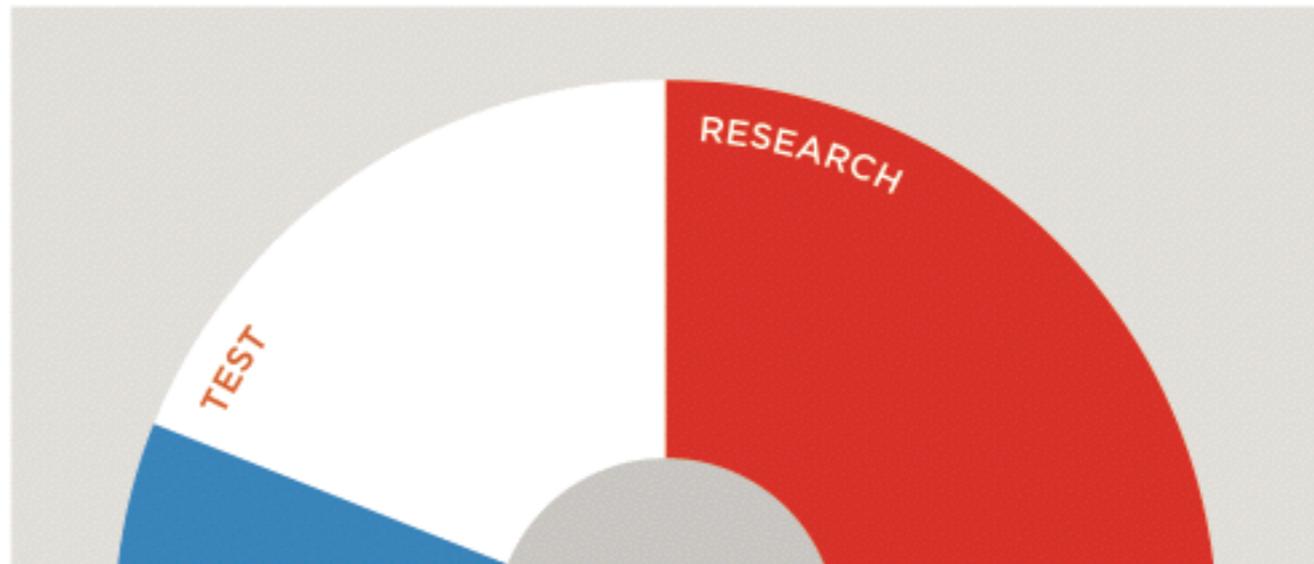
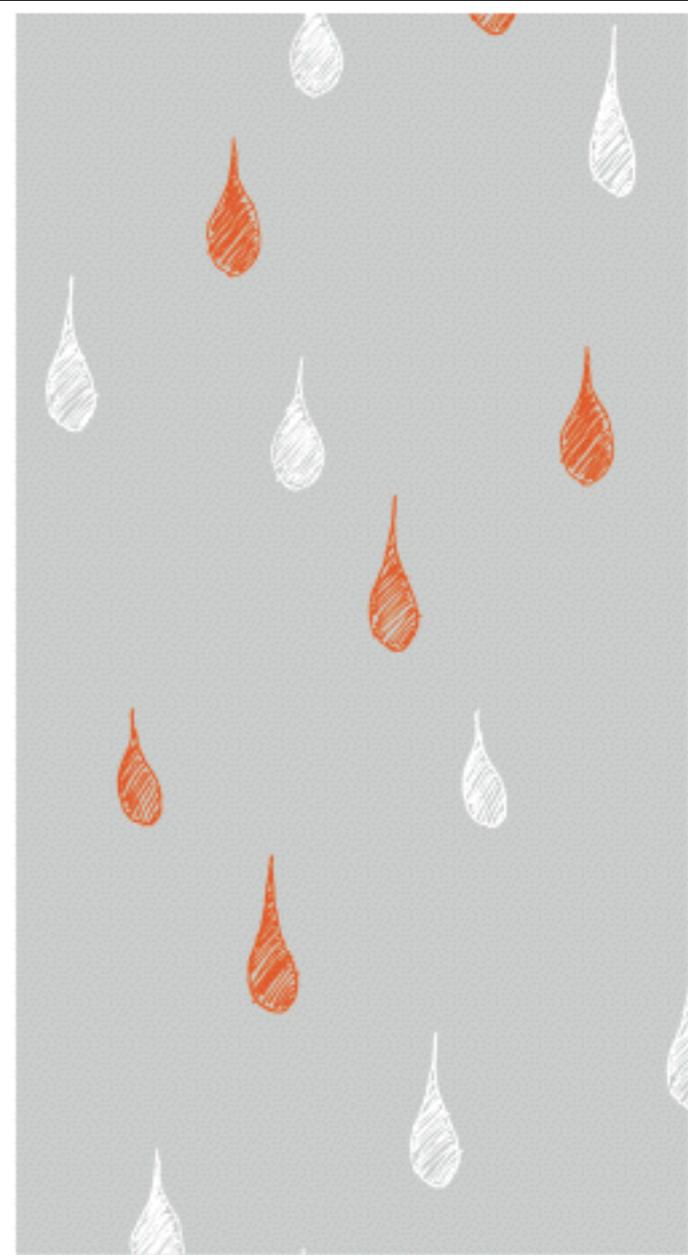
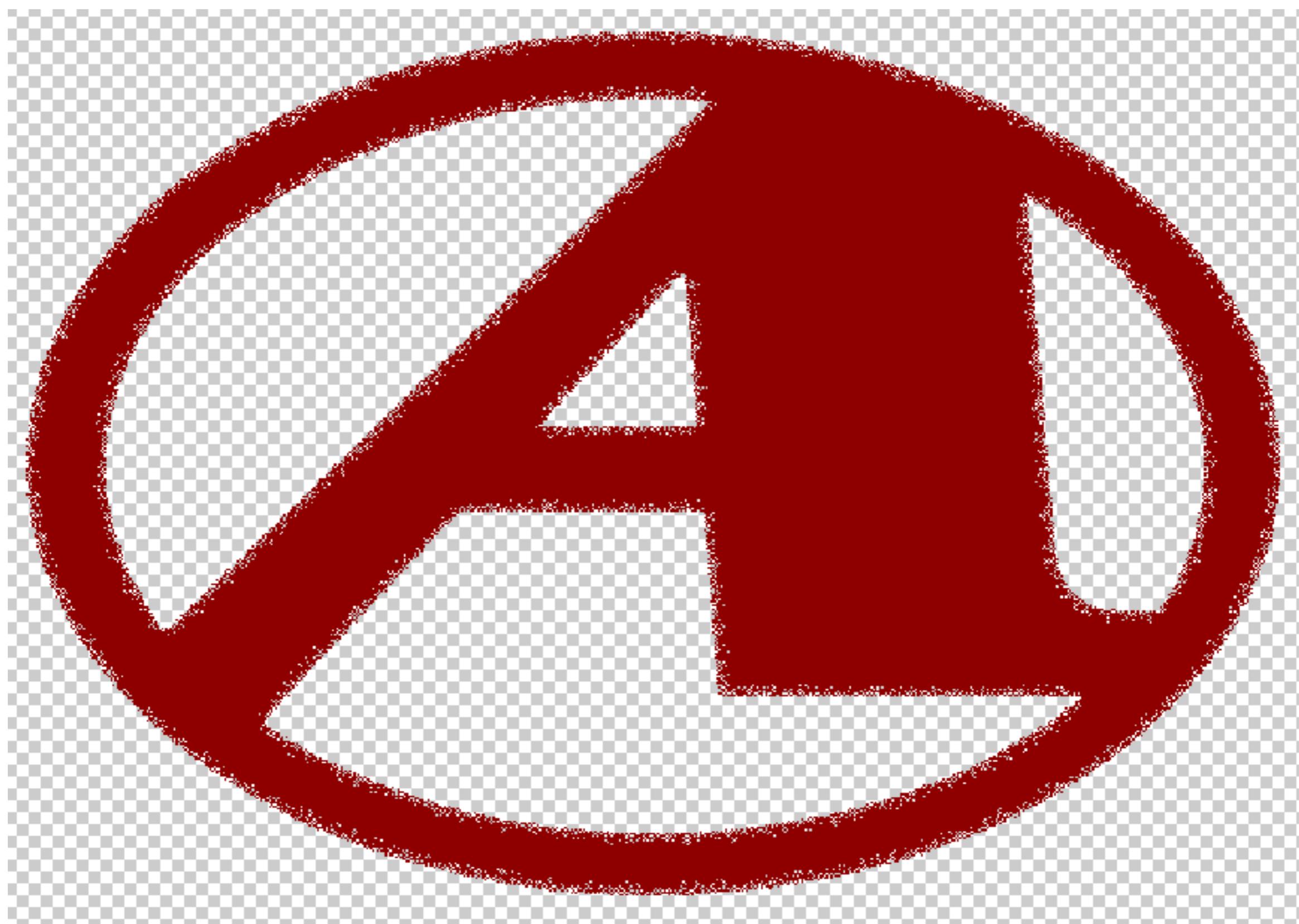


IMAGE FORMATS: GIF



Use GIF or PNG format
when saving images
with few colors or large
areas of the same color.







Immagini vettoriali



Possono essere visualizzate dai browser, la risoluzione non dipende dal **pixel** ma da **formule matematiche**

Illustrator > svg, swf

Risoluzione



I **display** dei computer visualizzano le immagini a 72ppi

Stampa: 300ppi

Example images

```
<html>
  <head>
    <title>Images</title>
  </head>
  <body>
    <h1></h1>
    <figure>
      
      <p>
        <figcaption>
          This recipe for individual chocolate cakes is so simple and so delectable!
        </figcaption>
      </p>
    </figure>
    <h4>More Recipes:</h4>
    <p>
      
      
      
    </p>
  </body>
</html>
```


Example table

```
<html>
  <head>
    <title>Tables</title>
  </head>
  <body>
    <table>
      <thead>
        <tr>
          <th></th>
          <th scope="col">Home starter hosting</th>
          <th scope="col">Premium business hosting</th>
        </tr>
      </thead>
      <tbody>
        <tr>
          <th scope="row">Disk space</th> <td>250mb</td> <td>1gb</td></tr>
          <tr><th scope="row">Bandwidth</th><td>5gb per month</td><td>50gb per month</td></tr>
          <!-- more rows like the two above here -->
        </tbody>
      <tfoot>
        <tr><td></td><td colspan="2">Sign up now and save 10%!</td> </tr>
      </tfoot>
    </table>
  </body>
</html>
```

Your Details:

Name:
Email:

Your Review:

How did you hear about us?

Would you visit again?
 Yes No Maybe

Comments:

Sign me up for email updates

MacBook Pro

Forms types

ADDING TEXT:

Text input (single-line)

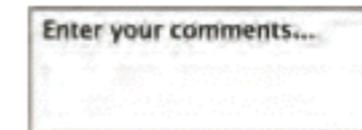
Used for a single line of text such as email addresses and names.

Password input

Like a single line text box but it masks the characters entered.

Text area (multi-line)

For longer areas of text, such as messages and comments.

A rectangular text area input field with a light gray border. The placeholder text "Enter your comments..." is visible at the top left of the field.

MAKING CHOICES:

Radio buttons

For use when a user must select one of a number of options.

Three radio buttons are displayed horizontally. The first button is selected and has a blue dot in the center. The labels "Rock", "Pop", and "Jazz" are positioned to the right of each button.

Checkboxes

When a user can select and unselect one or more options.

Three checkboxes are displayed horizontally. The first checkbox is checked and has a blue checkmark. The labels "iTunes", "Last.fm", and "Spotify" are positioned to the right of each checkbox.

Drop-down boxes

When a user must pick one of a number of options from a list.

A drop-down menu is shown with the text "iPod" visible. A small blue arrow icon is on the right side of the box, indicating it can be clicked to show more options.

SUBMITTING FORMS:

Submit buttons

To submit data from your form to another web page.

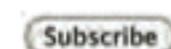
A rounded rectangular button with a light gray border and the text "Subscribe" in the center.

Image buttons

Similar to submit buttons but they allow you to use an image.

A dark green rectangular button with the text "SUBSCRIBE" in white, uppercase letters.

UPLOADING FILES:

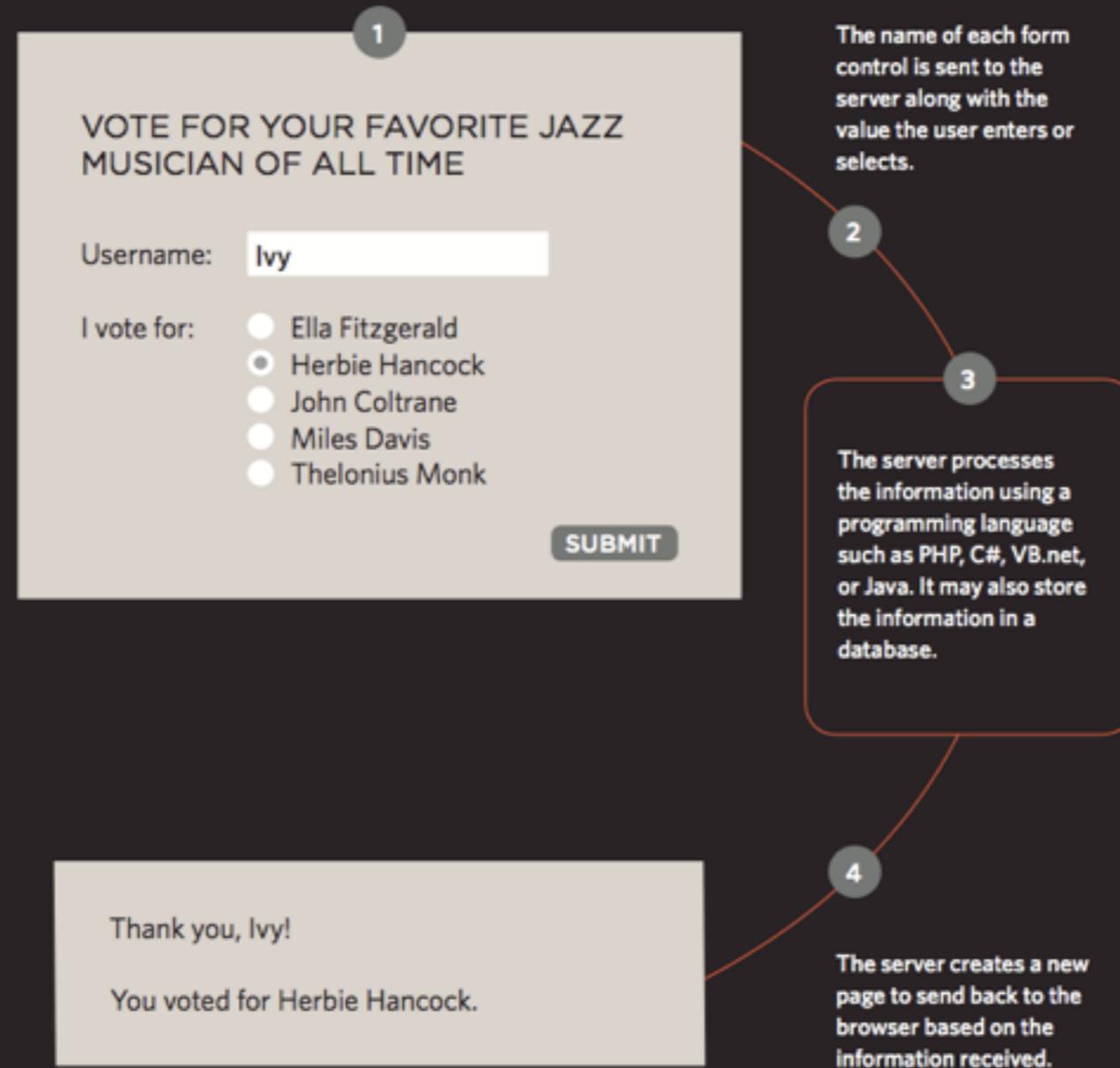
File upload

Allows users to upload files (e.g. images) to a website.

A file upload form consisting of a rounded rectangular button with the text "Upload" and a "Browse..." button to its right.

How forms work

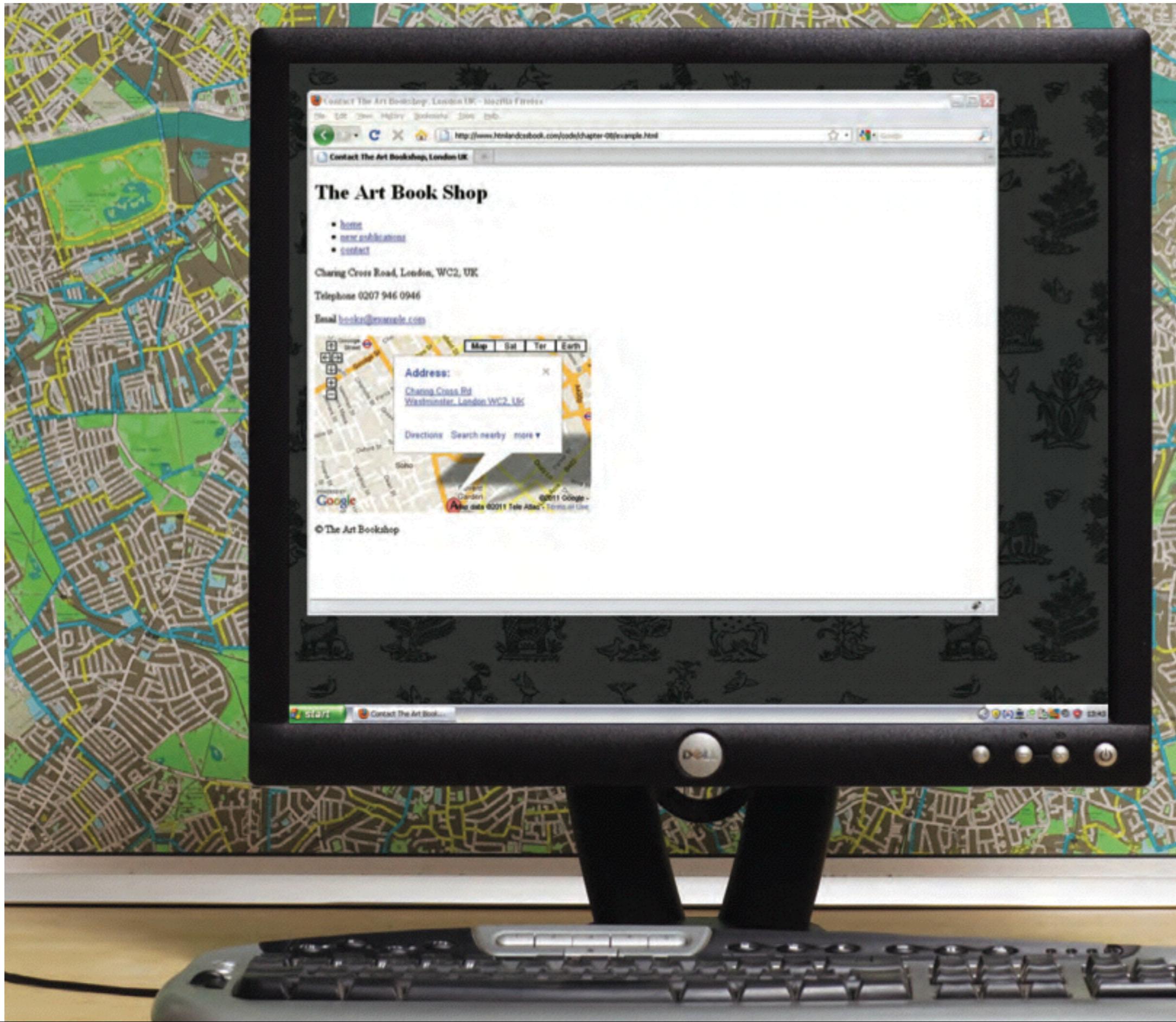
A user fills in a form and then presses a button to submit the information to the server.



Example forms

```
<html>
  <head>
    <title>Forms</title>
  </head>
  <body>
    <form action="http://www.example.com/review.php" method="get">
      <fieldset>
        <legend>Your Details:</legend>
        <label>Name: <input type="text" name="name" size="30" maxlength="100"></label><br />
        <label>Email: <input type="email" name="email" size="30" maxlength="100"></label><br />
      </fieldset><br />
      <fieldset>
        <legend>Your Review:</legend>
        <p>
          <label for="hear-about">How did you hear about us?</label>
          <select name="referrer" id="hear-about">
            <option value="google">Google</option>
            <option value="friend">Friend</option>
            <option value="advert">Advert</option>
            <option value="other">Other</option>
          </select>
        </p>
        <p>
          Would you visit again?<br />
          <label><input type="radio" name="rating" value="yes" /> Yes</label>
          <label><input type="radio" name="rating" value="no" /> No</label>
          <label><input type="radio" name="rating" value="maybe" /> Maybe</label>
        </p>
        <p>
          <label for="comments">Comments:</label><br />
          <textarea rows="4" cols="40" id="comments"></textarea>
        </p>
        <label><input type="checkbox" name="subscribe" checked="checked" /> Sign me up for email updates</label><br />
        <input type="submit" value="Submit review" />
      </fieldset>
    </form>
  </body>
</html>
```

Esercizio: code-07/20-example.html



Contact The Art Bookshop, London UK - Mozilla Firefox

http://www.htmlandcssbook.com/code/chapter-08/example.html

Contact The Art Bookshop, London UK

The Art Book Shop

- [home](#)
- [new publications](#)
- [contact](#)

Charing Cross Road, London, WC2, UK

Telephone 0207 946 0946

Email books@examsale.com

Map Sat Ter Earth

Address: Charing Cross Rd Westminster, London WC2, UK

Directions Search nearby more

© The Art Bookshop

Example extra markup

```
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd">
<html>
  <head>
    <meta name="description" content="Telephone, email and directions for The Art Bookshop, London, UK" />
    <title>Contact The Art Bookshop, London UK</title>
  </head>
  <body>
    <div id="header">
      <h1>The Art Book Shop</h1>
      <ul>
        <li><a href=" ../code-08/index.html">home</a></li>
        <li><a href=" ../code-08/index.html">new publications</a></li>
        <li class="current-page"><a href=" ../code-08/index.html">contact</a></li>
      </ul>
    </div><!-- end header -->
    <div id="content">
      <p>Charing Cross Road, London, WC2, UK</p>
      <p><span class="contact">Telephone</span> 0207 946 0946</p>
      <p><span class="contact">Email</span> <a href="mailto:books@example.com">books@example.com</a></
p>
      <iframe width="425" height="275" frameborder="0" scrolling="no" marginheight="0" marginwidth="0"
src="http://maps.google.co.uk/maps?f=q&source=s_q&hl=en&geocode=&q=charing+cross+road
+london&output=embed">
      </iframe>
    </div><!-- end content -->
    <p>&copy; The Art Bookshop</p>
  </body>
</html>
```

Esercizio: code-08/example.html

Example doctype

HTML5	HTML
	<pre><!DOCTYPE html></pre>
HTML 4	<pre><!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN" "http://www.w3.org/TR/html4/loose.dtd"></pre>
Transitional XHTML 1.0	<pre><!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/ xhtml1-transitional.dtd"></pre>
Strict XHTML 1.0	<pre><!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Strict//EN" "http://www.w3.org/TR/xhtml1/DTD/ xhtml1-strict.dtd"></pre>
XML Declaration	<pre><?xml version="1.0" ?></pre>

Less-than sign
<
<
<

Cent sign
¢
¢
¢

Left single quote
‘
&lquo;
‘

Greater-than sign
>
>
&

Pound sign
£
£
£

Right single quote
’
’
’

Ampersand
&
&
&

Yen sign
¥
¥
¥

Left double quotes
“
&lquo;
“

Quotation mark
" **”**
"
"

Euro sign
€
€
€

Right double quotes
”
”
”

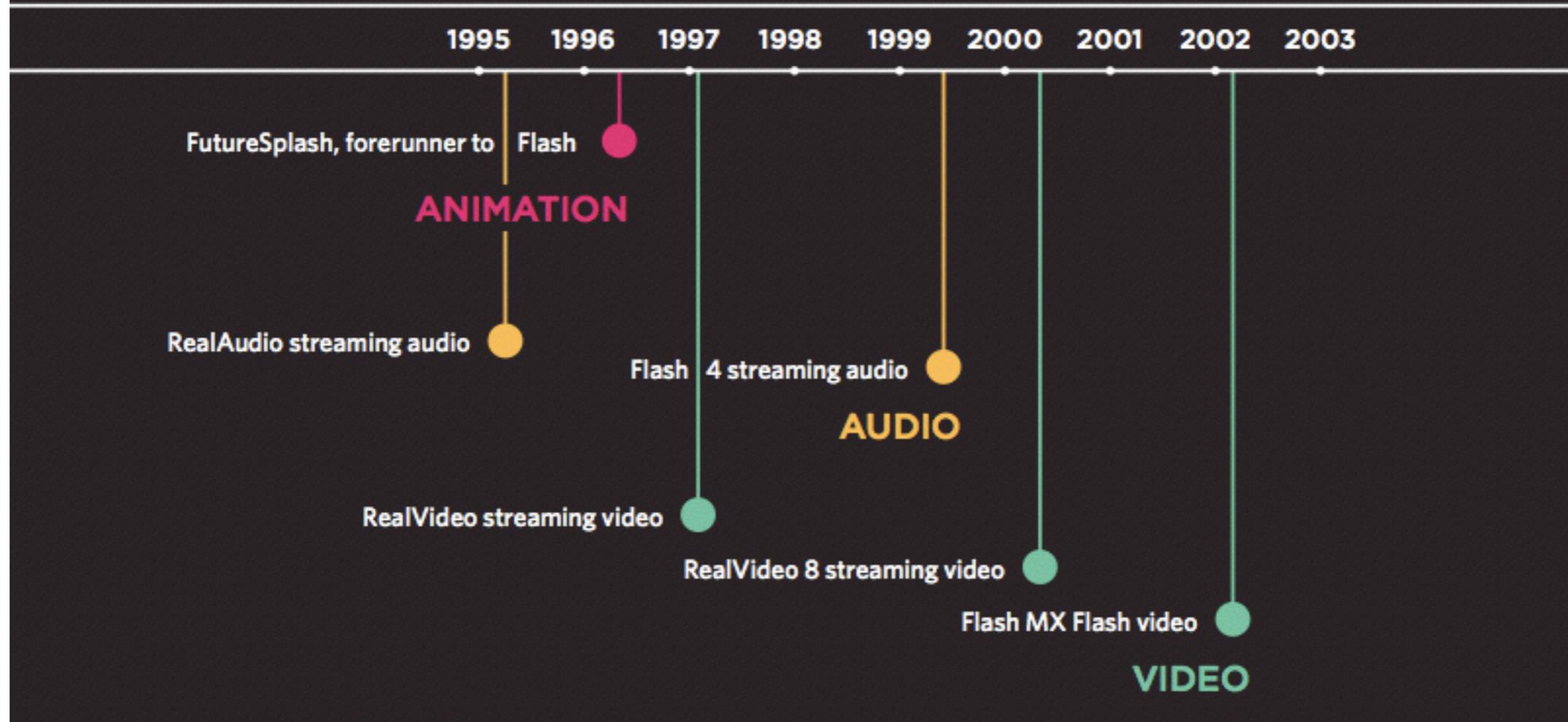
Copyright symbol
©
©
©

Multiplication sign
×
×
×



TIMELINE: FLASH, VIDEO & AUDIO

Web technologies change quickly. Here you can see some of the changes in how animation, video, and audio are created on the web.



VIDEO sharing sites offer alternatives to self-hosting

- Vimeo launched
- YouTube launched
- YouTube releases iPhone app
- Vimeo releases HTML5 player
- YouTube releases HTML5 player
- Vimeo releases iPhone app

2004 2005 2006 2007 2008 2009 2010 2011

- Internet Explorer 9
- Opera 9 .62
- Firefox 3.5
- Chrome 3
- Safari 3.1
- BROWSERS** introduce HTML5 `<video>` and `<audio>` tags

- iPhone
- iPad
- APPLE** releases devices that don't support Flash

- jQuery
- script.aculo.us
- Prototype

JAVASCRIPT libraries are written to create animated effects

Miro Video Converter

From the creators of Miro, a wonderful video player and downloader

[Try Miro!](#) (also free and open)



Finally!

A super simple way to convert almost any video to MP4, WebM (vp8), Ogg Theora, or for Android, iPhone, and more.

100% Free and open-source.

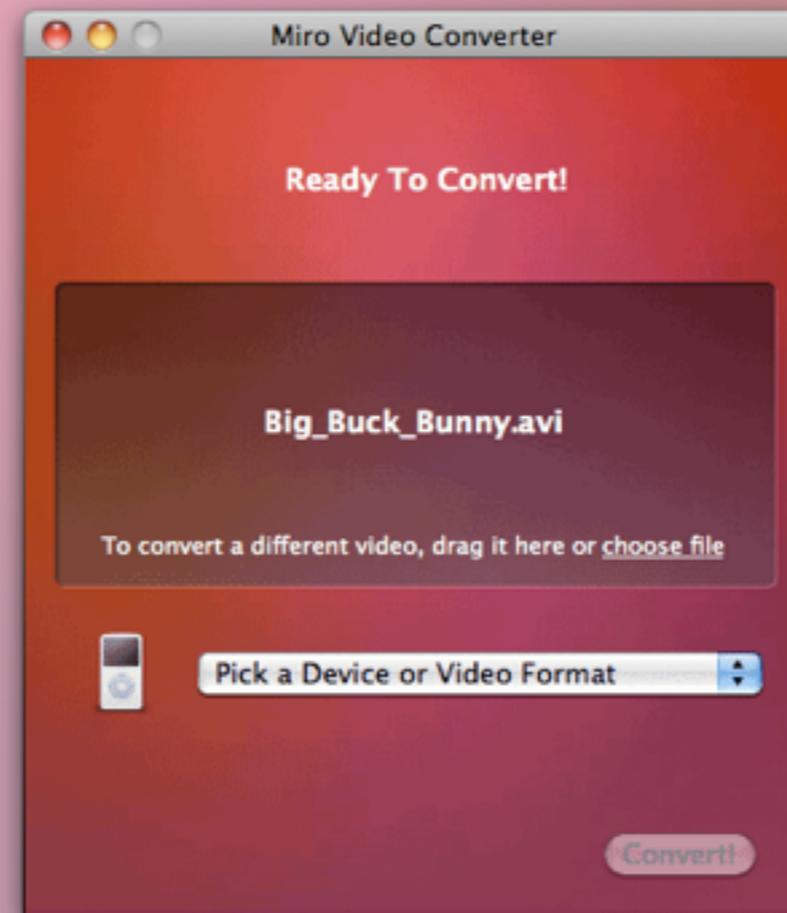
DOWNLOAD Miro Video Converter



Mac Version 2.6 or, [Download on the Mac App Store](#)

[Download MVC for Windows](#)

After Dragging, Choose a Device or Video Format



<http://www.mirovideoconverter.com/>

<http://www.getmiro.com/download/for-osx/>

Example video

```
<!DOCTYPE html>
<html>
  <head>
    <title>Flash, Video and Audio</title>
    <script type="text/javascript" src="http://ajax.googleapis.com/ajax/libs/swfobject/2.2/swfobject.js"></script>
    <script type="text/javascript">
var flashvars = {};
var params = {movie: "../video/puppy.flv"};
swfobject.embedSWF("flash/osplayer.swf", "snow", "400", "320", "8.0.0", flashvars, params);
</script>
</head>
<body>
<video poster="images/puppy.jpg" width="400" height="320" controls="controls">
<source src="video/puppy.mp4" type='video/mp4; codecs="avc1.42E01E, mp4a.40.2"' />
<source src="video/puppy.webm" type='video/webm; codecs="vp8, vorbis"' />
<div id="snow">
<p>You cannot see this video of a puppy playing in the snow because this browser does not support our
video formats.</p>
</div>
</video>
</body>
</html>
```

From Garden to Plate

A *potager* is a French term for an ornamental vegetable or kitchen garden. Often flowers (edible and non-edible) and herbs are planted with the vegetables to enhance the garden's beauty. The goal is to make the function of providing food aesthetically pleasing.

What to Plant

Plants are chosen as much for their functionality as for their color and form. Many are trained to grow upward. A well-designed potager can provide food, cut flowers and herbs for the home with very little maintenance. Potagers can disguise their function of providing for a home in a wide array of forms - from the carefree style of the cottage garden to the formality of a knot garden.



Example CSS

```
<!DOCTYPE html>
<html>
  <head>
    <title>Introducing CSS</title>
    <link href="css/example.css" type="text/css" rel="stylesheet" />
  </head>
  <body>
    <h1>From Garden to Plate</h1>
    <p>A <i>potager</i> is a French term for an ornamental vegetable or kitchen garden ... </p>
    <h2>What to Plant</h2>
    <p>Plants are chosen as much for their functionality as for their color and form ... </p>
  </body>
</html>
```

example.css:

```
body {
  font-family: Arial, Verdana, sans-serif;
}
h1, h2 {
  color: #ee3e80;
}
p {
  color: #665544;
}
```

Esercizio: code-10/example.html

CSS allows you to create rules that control the way that each individual box (and the contents of that box) is presented.

The Cottage Garden

The *cottage garden* is a distinct style of garden that uses an informal design, dense plantings, and a mixture of ornamental and edible plants.

The Cottage Garden originated in [England](#) and its history can be traced back for centuries, although they were re-invented in 1870's England, when stylized versions were formed as a reaction to the more structured and rigorously maintained [English estate gardens](#).

The earliest cottage gardens were more practical than their modern descendants, with an emphasis on vegetables and herbs, along with some fruit trees.

In this example, block level elements are shown with red borders, and inline elements have green borders.

The <body> element creates the first box, then the <h1>, <h2>, <p>, <i>, and <a> elements each create their own boxes within it.

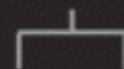
Using CSS, you could add a border around any of the boxes, specify its width and height, or add a background color. You could also control text inside a box — for example, its color, size, and the typeface used.

EXAMPLE STYLES

CSS ASSOCIATES STYLE RULES WITH HTML ELEMENTS

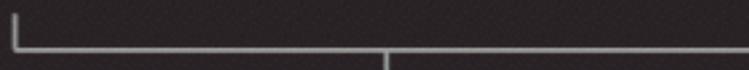
CSS works by associating rules with HTML elements. These rules govern how the content of specified elements should be displayed. A CSS rule contains two parts: a **selector** and a **declaration**.

SELECTOR



p {

font-family: Arial;}



DECLARATION

CSS PROPERTIES AFFECT HOW ELEMENTS ARE DISPLAYED

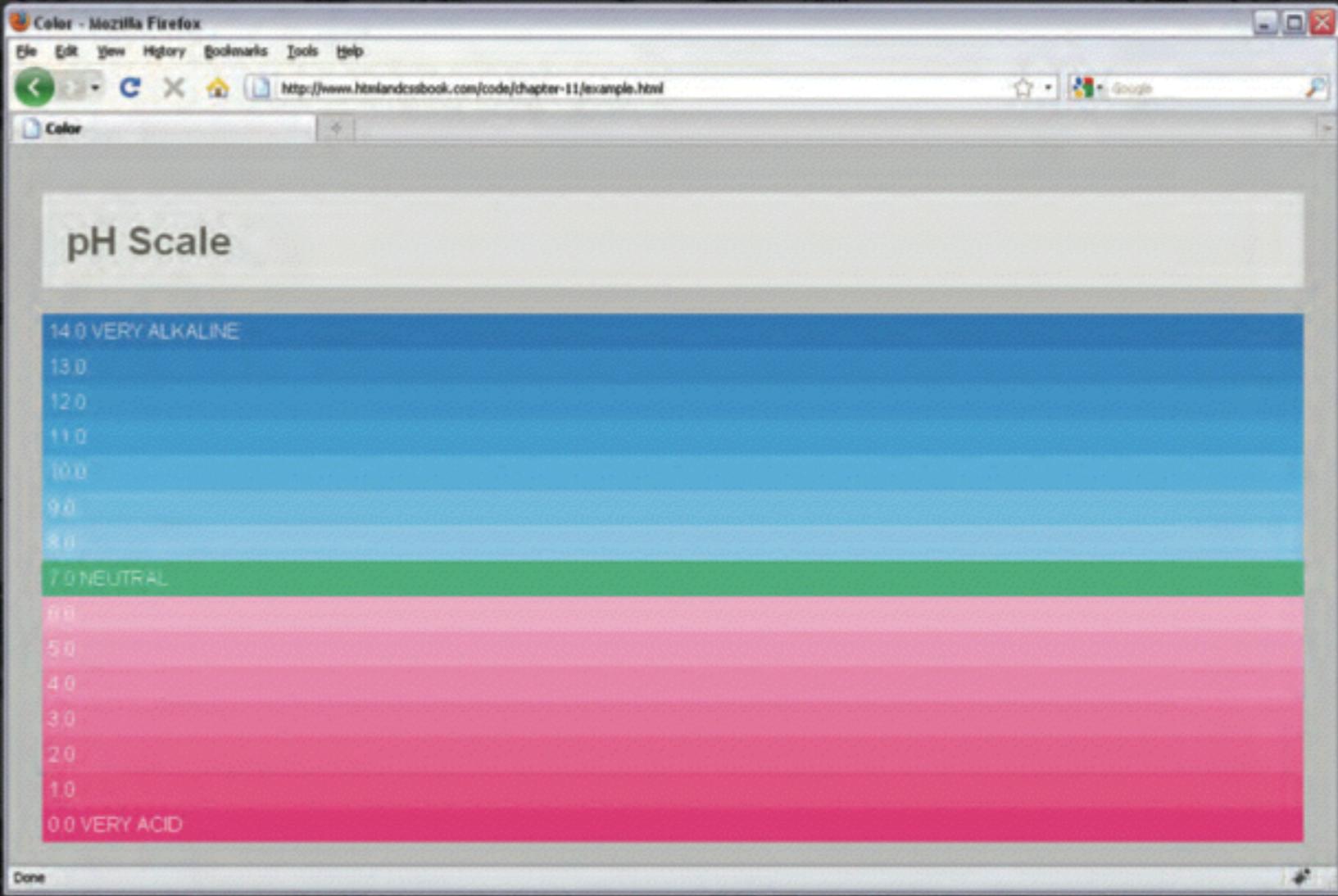
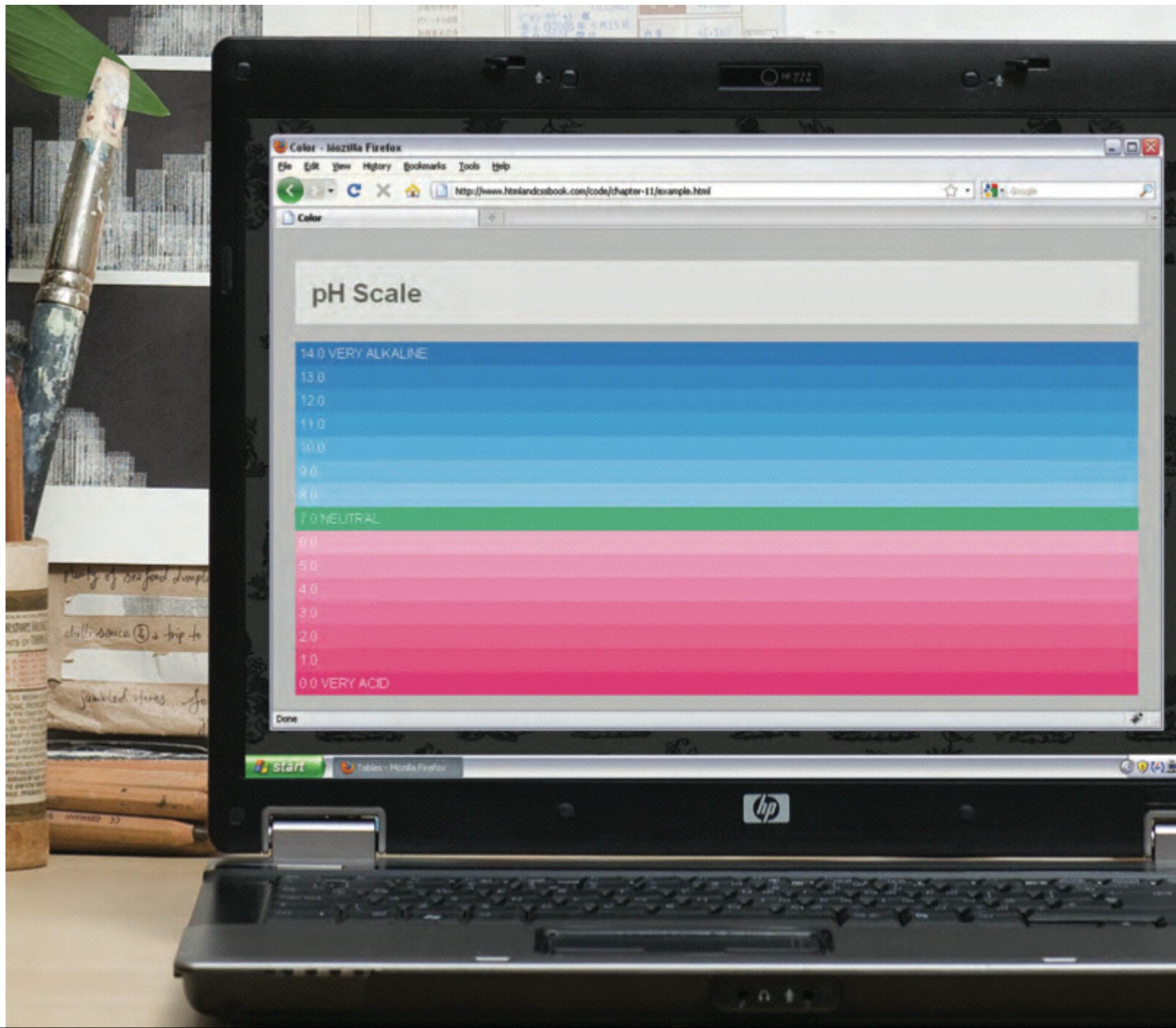
CSS declarations sit inside curly brackets and each is made up of two parts: a **property** and a **value**, separated by a colon. You can specify several properties in one declaration, each separated by a semi-colon.

```
h1, h2, h3 {  
  font-family: Arial;  
  color: yellow;}  
}
```

PROPERTY VALUE

UNIVERSAL SELECTOR	Applies to all elements in the document	<code>*</code> {} Targets all elements on the page
TYPE SELECTOR	Matches element names	<code>h1, h2, h3</code> {} Targets the <code><h1></code> , <code><h2></code> and <code><h3></code> elements
CLASS SELECTOR	Matches an element whose <code>class</code> attribute has a value that matches the one specified after the period (or full stop) symbol	<code>.note</code> {} Targets any element whose <code>class</code> attribute has a value of <code>note</code> <code>p.note</code> {} Targets only <code><p></code> elements whose <code>class</code> attribute has a value of <code>note</code>
ID SELECTOR	Matches an element whose <code>id</code> attribute has a value that matches the one specified after the pound or hash symbol	<code>#introduction</code> {} Targets the element whose <code>id</code> attribute has a value of <code>introduction</code>
CHILD SELECTOR	Matches an element that is a direct child of another	<code>li>a</code> {} Targets any <code><a></code> elements that are children of an <code></code> element (but not other <code><a></code> elements in the page)
DESCENDANT SELECTOR	Matches an element that is a descendent of another specified element (not just a direct child of that element)	<code>p a</code> {} Targets any <code><a></code> elements that sit inside a <code><p></code> element, even if there are other elements nested between them
ADJACENT SIBLING SELECTOR	Matches an element that is the next sibling of another	<code>h1+p</code> {} Targets the first <code><p></code> element after any <code><h1></code> element (but not other <code><p></code> elements)
GENERAL SIBLING SELECTOR	Matches an element that is a sibling of another, although it does not have to be the directly preceding element	<code>h1~p</code> {} If you had two <code><p></code> elements that are siblings of an <code><h1></code> element, this rule would apply to both

SELECTOR	MEANING	EXAMPLE
EXISTENCE	[] Matches a specific attribute (whatever its value)	p[class] Targets any <p> element with an attribute called class
EQUALITY	[=] Matches a specific attribute with a specific value	p[class="dog"] Targets any <p> element with an attribute called class whose value is dog
SPACE	[~=] Matches a specific attribute whose value appears in a space-separated list of words	p[class~="dog"] Targets any <p> element with an attribute called class whose value is a list of space-separated words, one of which is dog
PREFIX	[^=] Matches a specific attribute whose value begins with a specific string	p[attr^="d"] Targets any <p> element with an attribute whose value begins with the letter "d"
SUBSTRING	[*=] Matches a specific attribute whose value contains a specific substring	p[attr*"do"] Targets any <p> element with an attribute whose value contains the letters "do"
SUFFIX	[\$=] Matches a specific attribute whose value ends with a specific string	p[attr\$"g"] Targets any <p> element with an attribute whose value ends with the letter "g"



Example CSS colors

```
<!DOCTYPE html>
<html>
  <head>
    <title>Color</title>
    <style type="text/css">
      body {
        background-color: silver;
        color: white;
        padding: 20px;
        font-family: Arial, Verdana, sans-serif;}
      h1 {
        background-color: #ffffff;
        background-color: hsla(0,100%,100%,0.5);
        color: #64645A;
        padding: inherit;}
      p {
        padding: 5px;
        margin: 0px;}
      p.zero {
        background-color: rgb(238,62,128);}
      p.one {
        background-color: rgb(244,90,139);}
      p.two {
        background-color: rgb(243,106,152);}
      p.three {
        background-color: rgb(244,123,166);}
      p.four {
        background-color: rgb(245,140,178);}
      p.five {
        background-color: rgb(246,159,192);}
      p.six {
        background-color: rgb(245,176,204);}
      p.seven {
        background-color: rgb(0,187,136);}
      p.eight {
        background-color: rgb(140,202,242);}
      p.nine {
        background-color: rgb(114,193,240);}
      p.ten {
        background-color: rgb(84,182,237);}
      p.eleven {
        background-color: rgb(48,170,233);}
      p.twelve {
        background-color: rgb(0,160,230);}
      p.thirteen {
        background-color: rgb(0,149,226);}
      p.fourteen {
        background-color: rgb(0,136,221);}
    </style>
  </head>
  <body>
    <h1>pH Scale</h1>
    <p class="fourteen">14.0 VERY ALKALINE</p>
    <p class="thirteen">13.0</p>
    <p class="twelve">12.0</p>
    <p class="eleven">11.0</p>
    <p class="ten">10.0</p>
    <p class="nine">9.0</p>
    <p class="eight">8.0</p>
    <p class="seven">7.0 NEUTRAL</p>
    <p class="six">6.0</p>
    <p class="five">5.0</p>
    <p class="four">4.0</p>
    <p class="three">3.0</p>
    <p class="two">2.0</p>
    <p class="one">1.0</p>
    <p class="zero">0.0 VERY ACID</p>
  </body>
</html>
```

Esercizio: code-11/5-example.html

Briards

A HEART WRAPPED IN FUR

The **briard**, or berger de brie, is a large breed of dog traditionally used as a herder and guardian of sheep.

Breed History

The briard, which is believed to have originated in France, has been bred for centuries to herd and to protect sheep. The breed was used by the French Army as sentries, messengers and to search for wounded soldiers because of its fine sense of hearing. Briards were used in the First World War almost to the point of extinction. Currently the population of briards is slowly recovering. Charlemagne, Napoleon, Thomas Jefferson and Lafayette all owned briards.

by Ivy Duckett



```
@font-face {
  font-family: 'ChunkFiveRegular';
  src: url('fonts/chunkfive.eot');
  src: url('fonts/chunkfive.eot?#iefix')
    format('embedded-opentype'),
    url('fonts/chunkfive.woff') format('woff'),
    url('fonts/chunkfive.ttf')
    format('truetype'),
    url('fonts/chunkfive.svg#ChunkFiveRegular')
    format('svg');}
```

BROWSER

FORMAT

	eot	woff	ttf / otf	svg
Chrome (all)				●
Chrome 6+		●	●	●
Firefox 3.5			●	
Firefox 3.6+		●	●	
IE 5 - 8	●			
IE 9+	●	●	◐	
Opera 10+			●	●
Safari 3.1+			●	●
iOS <4.2				●
iOS 4.2+			●	●

www.fontsquirrel.com

www.fontex.org

www.openfontlibrary.org

www.typekit.com

www.kernest.com

www.fontspring.com

Example CSS text

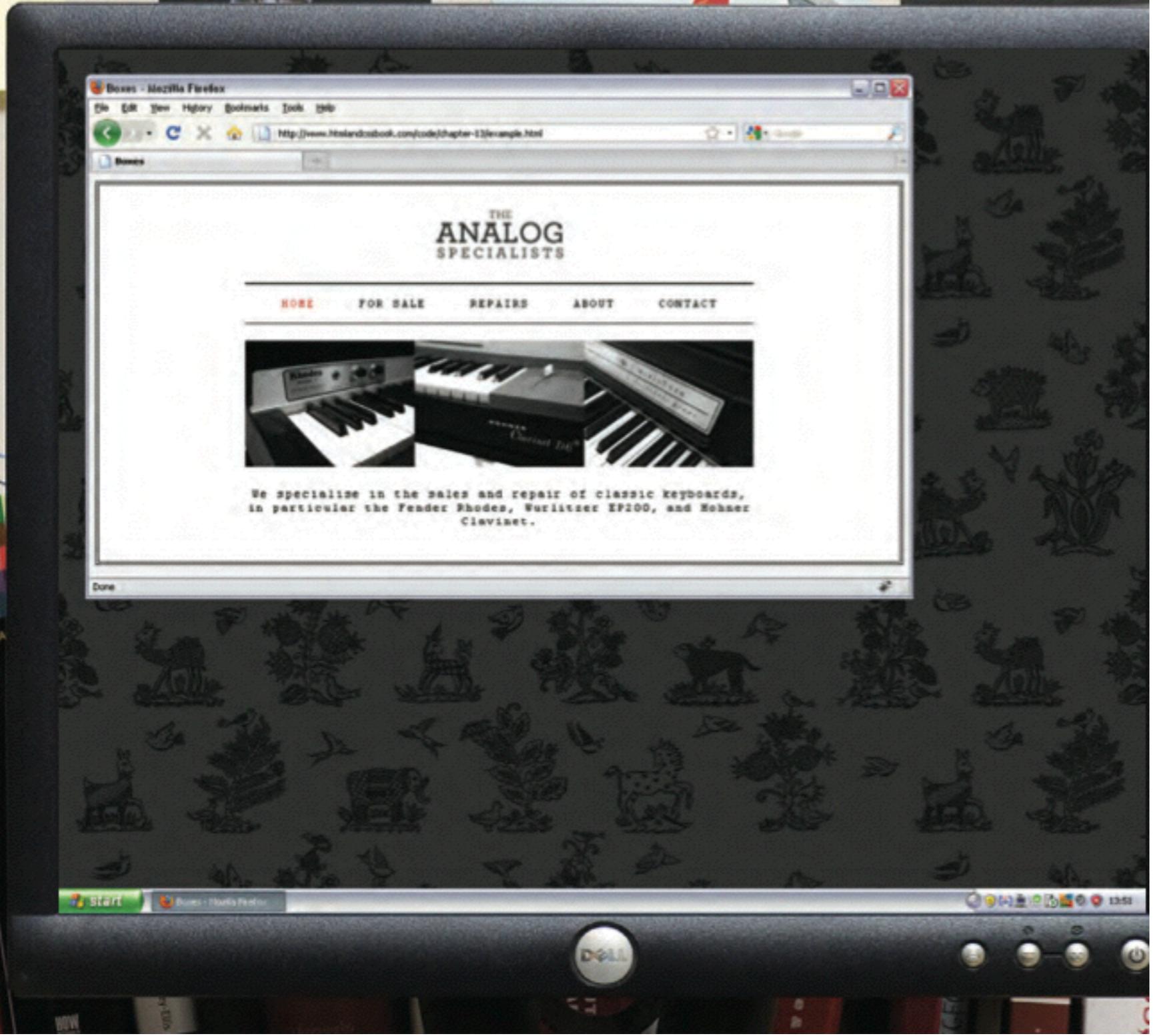
```
<!DOCTYPE html>
<html>
  <head>
    <title>Text</title>

  </head>
  <body>
    <h1>Briards</h1>
    <h2>A Heart wrapped in fur</h2>
    <p class="intro">The <a class="breed"
href="http://en.wikipedia.org/wiki/Briard">briard</a>, or
berger de brie, is a large breed of dog traditionally used
as a herder and guardian of sheep.</p>
    <h3> Breed History</h3>
    <p>The briard, which is believed to have
originated in France, has been bred for centuries to herd
and to protect sheep. The breed was used by the French
Army as sentries, messengers and to search for
wounded soldiers because of its fine sense of hearing.
Briards were used in the First World War almost to the
point of extinction. Currently the population of briards
is slowly recovering. Charlemagne, Napoleon, Thomas
Jefferson and Lafayette all owned briards.</p>
    <p class="credits">by Ivy Duckett</p>
  </body>
</html>
```

```
body {
  padding: 20px;}
h1, h2, h3, a {
  font-weight: normal;
  color: #0088dd;
  margin: 0px;}
h1 {
  font-family: Georgia, Times, serif;
  font-size: 250%;
  text-shadow: 2px 2px 3px #666666;
  padding-bottom: 10px;}
h2 {
  font-family: "Gill Sans", Arial, sans-serif;
  font-size: 90%;
  text-transform: uppercase;
  letter-spacing: 0.2em;}
h3 {
  font-size: 150%;}
p {
  font-family: Arial, Verdana, sans-serif;
  line-height: 1.4em;
  color: #665544;}
  p.intro:first-line {
    font-weight: bold;}
.credits {
  font-style: italic;
  text-align: right;}
a {
  text-decoration: none;}
a:hover {
  text-decoration: underline;}
```

style sheet
typeset
10/10/04

Even project
files for Emma



Every box has three available properties that can be adjusted to control its appearance:

1

BORDER

Every box has a border (even if it is not visible or is specified to be 0 pixels wide). The border separates the edge of one box from another.

2

MARGIN

Margins sit outside the edge of the border. You can set the width of a margin to create a gap between the borders of two adjacent boxes.

3

PADDING

Padding is the space between the border of a box and any content contained within it. Adding padding can increase the readability of its contents.

If you specify a width for a box, then the borders, margin, and padding are added to its width and height.



WITH MARGIN & PADDING

Moog

Moog synthesisers were created by Dr. Robert Moog under the company name Moog Music. Popular models include the Moog Modular, Minimoog, Micromoog, Moog Rogue, and Moog Source.

ARP

ARP Instruments Inc. was set up by Alan Peralman, and was the main competitor for Moog during the 1970's. Popular models include the Arp 2600 and the ARP Odyssey.

Sequential Circuits

Sequential Circuits Inc was founded by Dave Smith, and the company was pivotal in the creation of MIDI. Famous models include the Prophet 5, Prophet 600, and Pro-One.

WITHOUT MARGIN & PADDING

Moog

Moog synthesisers were created by Dr. Robert Moog under the company name Moog Music. Popular models include the Moog Modular, Minimoog, Micromoog, Moog Rogue, and Moog Source.

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ARP Instruments Inc. was set up by Alan Peralman, and was the main competitor for Moog during the 1970's. Popular models include the Arp 2600 and the ARP Odyssey.

Sequential Circuits

Sequential Circuits Inc was founded by Dave Smith, and the company was pivotal in the creation of MIDI. Famous models include the Prophet 5, Prophet 600, and Pro-One.

The padding and margin properties are very helpful in adding space between various items on the page.

Example CSS boxes

```
<!DOCTYPE html>
<html>
  <head>
    <title>Boxes</title>
  </head>
  <body>
    <div id="page">
      <div id="logo">
        
      </div>
      <ul id="navigation">
        <li><a href="#" class="on">Home</
a></li>
        <li><a href="#">For Sale</a></li>
        <li><a href="#">Repairs</a></li>
        <li><a href="#">About</a></li>
        <li><a href="#">Contact</a></li>
      </ul>
      <p>
        
      </p>
      <p>
        We specialize in the sale and repair of
        classic keyboards, in particular the Fender Rhodes,
        Wurlitzer EP200, and Hohner Clavinet.
      </p>
    </div>
  </body>
</html>
```

```
body {
  font-size: 80%;
  font-family: "Courier New", Courier, monospace;
  letter-spacing: 0.15em;
  background-color: #efefef;}

#page {
  max-width: 940px;
  min-width: 720px;
  margin: 10px auto 10px auto;
  padding: 20px;
  border: 4px double #000;
  background-color: #ffffff;}

#logo {
  width: 150px;
  margin: 10px auto 25px auto;}

ul {
  width: 570px;
  padding: 15px;
  margin: 0px auto 0px auto;
  border-top: 2px solid #000;
  border-bottom: 1px solid #000;
  text-align: center;}

li {
  display: inline;
  margin: 0px 3px;}

p {
  text-align: center;
  width: 600px;
  margin: 20px auto 20px auto;
  font-weight: normal;}

a {
  color: #000000;
  text-transform: uppercase;
  text-decoration: none;
  padding: 6px 18px 5px 18px;}

a:hover, a.on {
  color: #cc3333;
  background-color: #ffffff;}
```

Esercizio: code-13/16-example.html

FIXED GEAR FOREVER

18 APRIL 2011



The rebold combines minimalist design with superb quality. Devoid of excessive graphics and gear shift components, the rebold product range delights us with its beauty and simplicity. The black and white (yin and yang?) bicycles feature a short wheelbase, a single gear and a narrow handlebar... All you need to explore the city streets.

For those who want to create their bike themselves, the rebold frames come in three sizes and two colours and are the perfect starting point. [Continue reading...](#)

MORE ARTICLES



[On the Road](#): from the fixed gear fanatic's point of view



[Touring Diary](#): A sketchbook in your basket



[Product Review](#): All baskets were not created equal



[Bicycle Hall of Fame](#): The 1998 Schwinn Sprinter

[Brand History](#): Pushbike Cycles - hand-built in England

[Top Ten Newsrooms for 2011](#): A peek at what's to come

[Going Public](#): Out & About with the founder of Pedals

[Reader Survey](#): Share your thoughts with us!

[Frame Wars](#): Innovations in cycle manufacture and repair

[InnerTube](#): The best cycling videos on the web

[Cycle Law Defense](#): Know your rights

[Chain Gang](#): The evolution of the humble bike chain

Example Layout

Esercizio: `code-15/18-example.html`

CSS treats each HTML element as if it is in its own box. This box will either be a block-level box or an inline box.

Block-level boxes start on a new line and act as the main building blocks of any layout, while inline boxes flow between surrounding text. You can control how much space each box takes up by setting the width of the boxes (and sometimes the height, too). To separate boxes, you can use borders, margins, padding, and background colors.

BLOCK-LEVEL ELEMENTS START ON A NEW LINE

Examples include:

`<h1>` `<p>` `<u1>` `<11>`

Lorem Ipsum

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit.

- Lorem ipsum dolor sit
- Consectetur adipisicing
- Elit, sed do eiusmod

INLINE ELEMENTS FLOW IN BETWEEN SURROUNDING TEXT

Examples include:

`` `` `<i>`

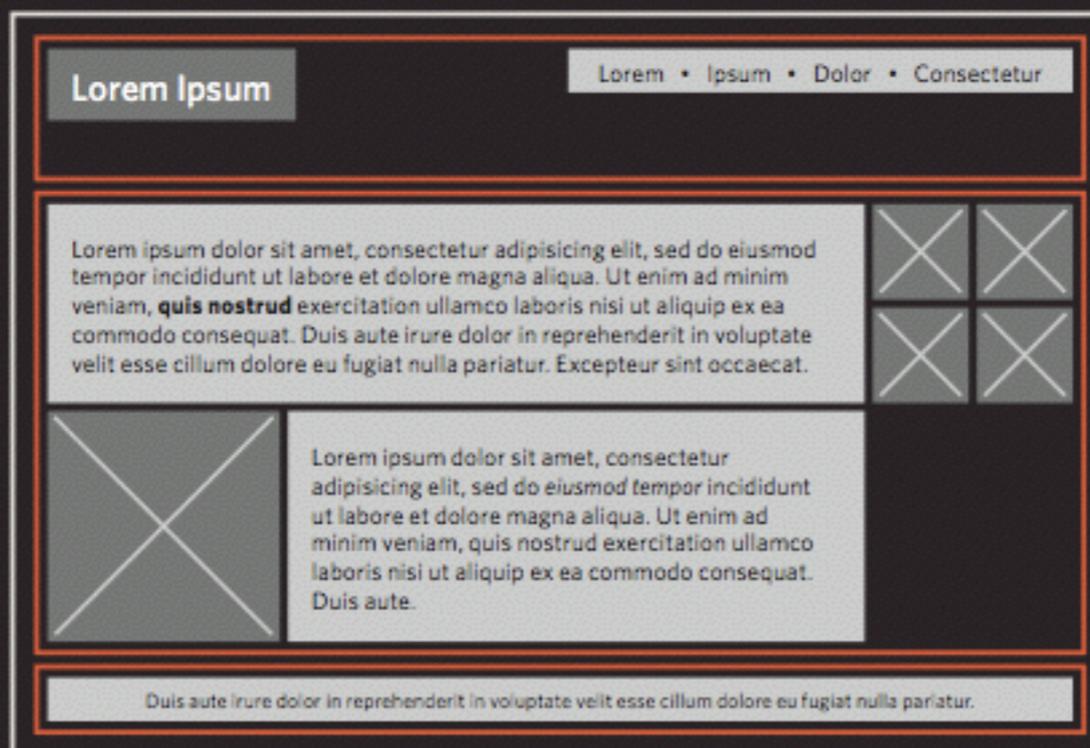
Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut **labore et dolore** magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.



Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum. Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

If one block-level element sits inside another block-level element then the outer box is known as the containing or parent element.

It is common to group a number of elements together inside a `<div>` (or other block-level) element. For example, you might group together all of the elements that form the header of a site (such as the logo and the main navigation). The `<div>` element that contains this group of elements is then referred to as the containing element.



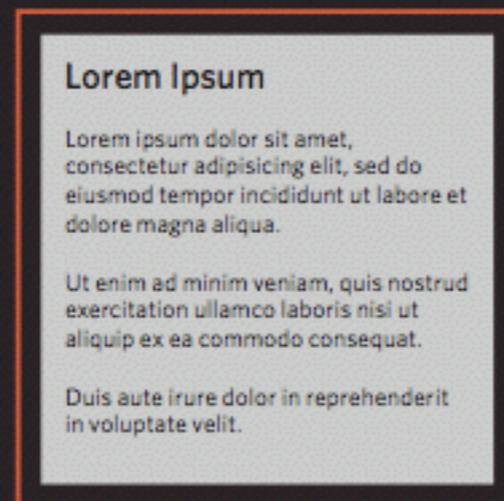
A box may be nested inside several other block-level elements. The containing element is always the direct parent of that element.

The orange lines in this diagram represent `<div>` elements. The header (containing the logo and navigation) are in one `<div>` element, the main content of the page is in another, and the footer is in a third. The `<body>` element is the containing element for these three `<div>` elements. The second `<div>` element is the containing element for two paragraphs of Latin text and images (represented by crossed squares).

CSS has the following **positioning schemes** that allow you to control the layout of a page: normal flow, relative positioning, and absolute positioning. You specify the positioning scheme using the `position` property in CSS. You can also float elements using the `float` property.

NORMAL FLOW

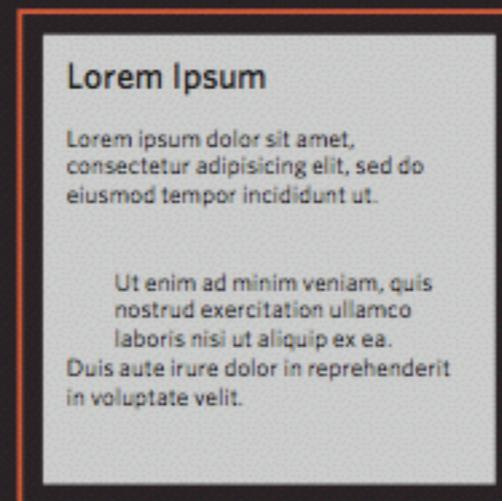
Every block-level element appears on a new line, causing each item to appear lower down the page than the previous one. Even if you specify the width of the boxes and there is space for two elements to sit side-by-side, they will not appear next to each other. This is the default behavior (unless you tell the browser to do something else).



The paragraphs appear one after the other, vertically down the page.

RELATIVE POSITIONING

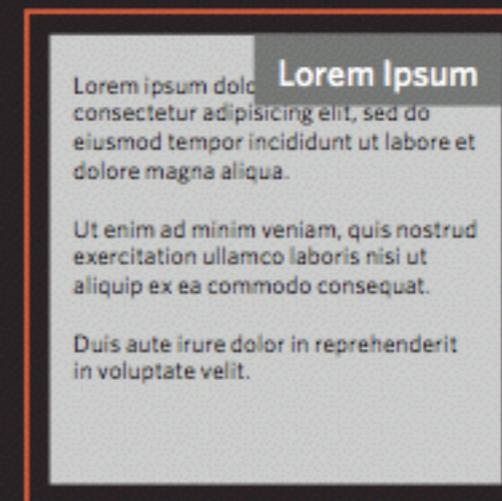
This moves an element from the position it would be in normal flow, shifting it to the top, right, bottom, or left of where it would have been placed. This does not affect the position of surrounding elements; they stay in the position they would be in in normal flow.



The second paragraph has been pushed down and right from where it would otherwise have been in normal flow.

ABSOLUTE POSITIONING

This positions the element in relation to its containing element. It is taken out of normal flow, meaning that it does not affect the position of any surrounding elements (as they simply ignore the space it would have taken up). Absolutely positioned elements move as users scroll up and down the page.

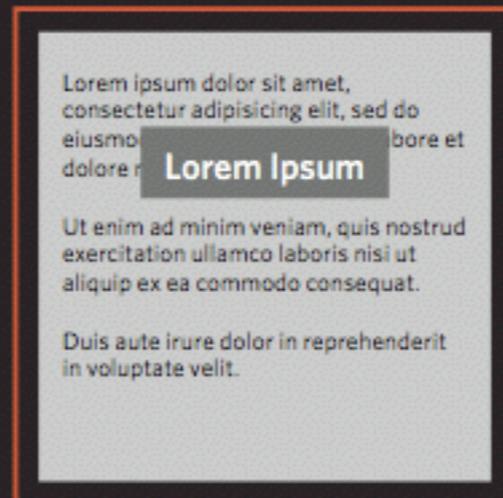


The heading is positioned to the top right, and the paragraphs start at the top of the screen (as if the heading were not there).

To indicate where a box should be positioned, you may also need to use **box offset** properties to tell the browser how far from the top or bottom and left or right it should be placed. (You will meet these when we introduce the positioning schemes on the following pages.)

FIXED POSITIONING

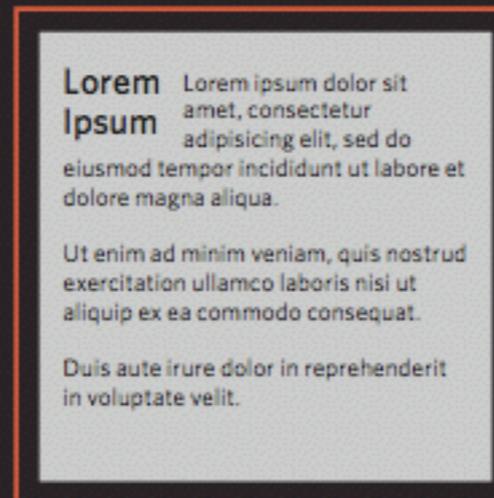
This is a form of absolute positioning that positions the element in relation to the browser window, as opposed to the containing element. Elements with fixed positioning do not affect the position of surrounding elements and they do not move when the user scrolls up or down the page.



The heading has been placed in the center of the page and 25% from the top of the screen. (The rest appears in normal flow.)

FLOATING ELEMENTS

Floating an element allows you to take that element out of normal flow and position it to the far left or right of a containing box. The floated element becomes a block-level element around which other content can flow.



The heading has been floated to the left, allowing the paragraphs of text to flow around it.

When you move any element from normal flow, boxes can overlap. The **z-index** property allows you to control which box appears on top.

Different visitors to your site will have different sized screens that show different amounts of information, so your design needs to be able to work on a range of different sized screens.



iPhone 4

Size: 3.5 inches

Resolution: 960 x 640 pixels



iPad 2

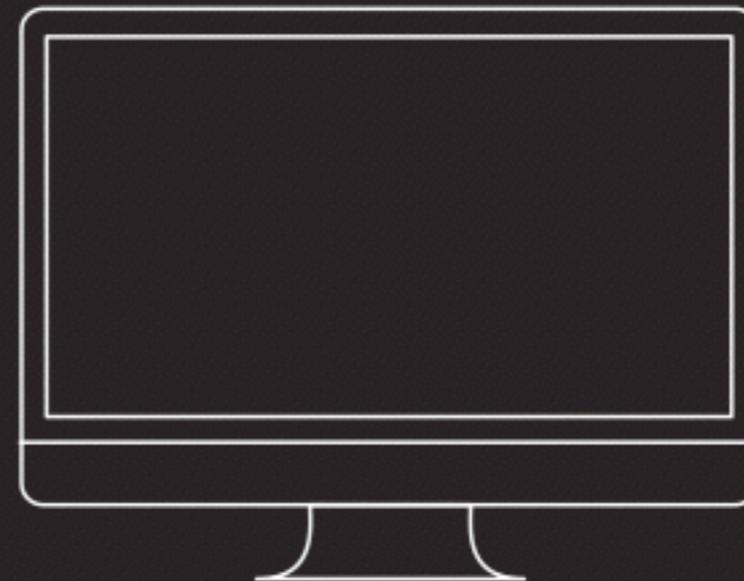
Size: 9.7 inches

Resolution: 1024 x 768 pixels

Resolution refers to the number of dots a screen shows per inch. Some devices have a higher resolution than desktop computers and most operating systems allow users to adjust the resolution of their screens.



13" MacBook
Size: 13.3 inches
Resolution: 1280 x 800 pixels



27" iMac
Size: 27 inches
Resolution: 2560 x 1440 pixels

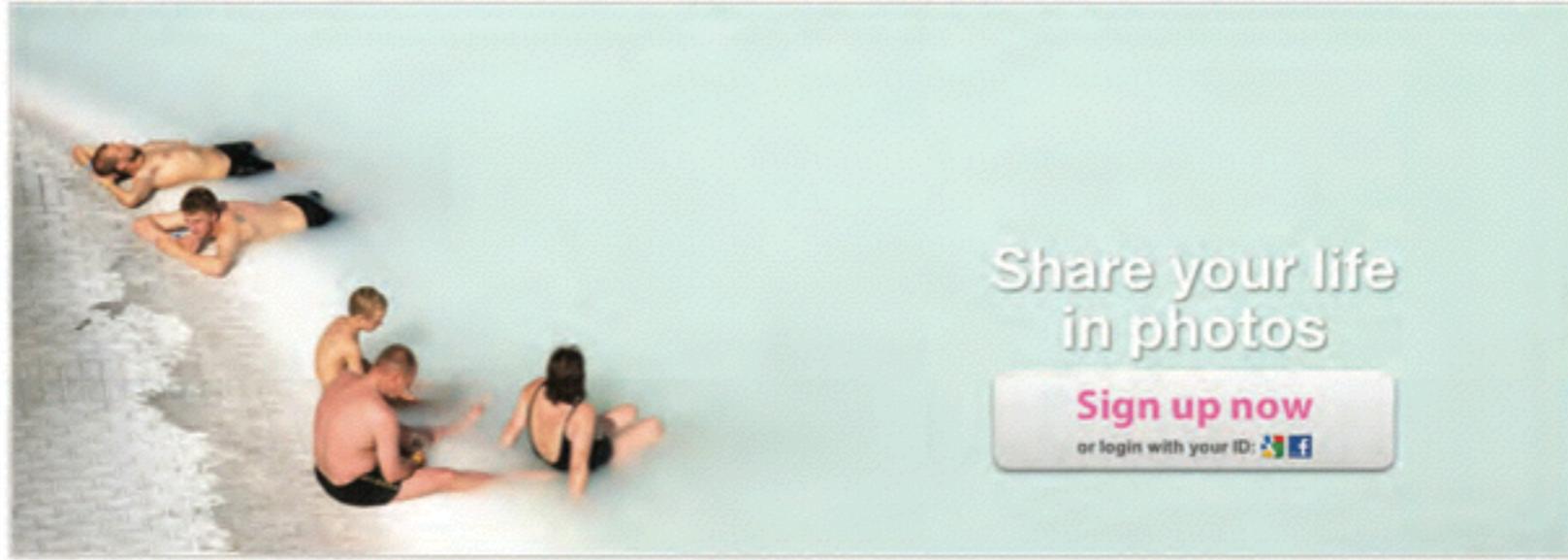
1000 px

570 px

flickr from Yahoo!

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[Search](#)



© by peterbaker

Upload

More ways to get your photos online.

Multiple ways to upload your photos to Flickr—through the web, your mobile device, email or your favorite photo applications.



Discover

See what's going on in your world.

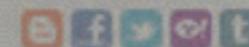
Keep up with your friends and share your stories with comments & notes. Add rich information like tags, locations & people.



Share

Your photos are everywhere you are.

Upload your photos once to Flickr, then easily and safely share them through Facebook, Twitter, email, blogs and more.



Sign up now

[or learn more](#)

It takes less than a minute to create your free account & start sharing!

Have a Google or Facebook account? You can use them to sign in!

Community

Flickr is made of people.

Privacy

Your photos are safe with us.

Flickr on the go

Mobile options to keep you going.

Fixed width layout designs do not change size as the user increases or decreases the size of their browser window. Measurements tend to be given in pixels.

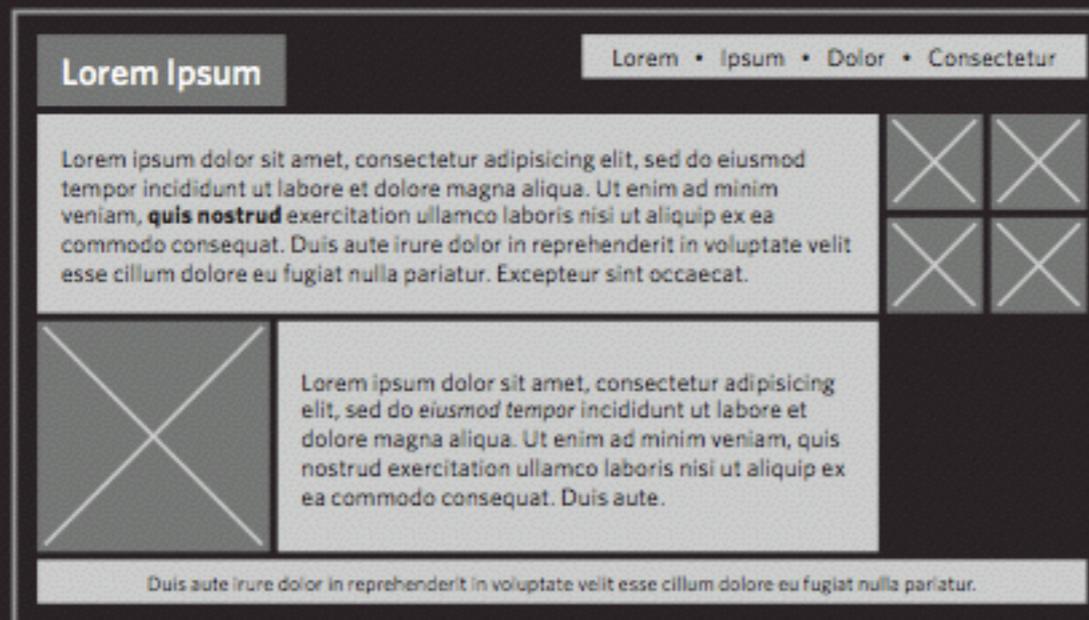


ADVANTAGES

- Pixel values are accurate at controlling size and positioning of elements.
- The designer has far greater control over the appearance and position of items on the page than with liquid layouts.
- You can control the lengths of lines of text regardless of the size of the user's window.
- The size of an image will always remain the same relative to the rest of the page.

DISADVANTAGES

- You can end up with big gaps around the edge of a page.
- If the user's screen is a much higher resolution than the designer's screen, the page can look smaller and text can be harder to read.
- If a user increases font sizes, text might not fit into the allotted spaces.
- The design works best on devices that have a site or resolution similar to that of desktop or laptop computers.
- The page will often take up more vertical space than a liquid layout with the same content.



Liquid layout designs stretch and contract as the user increases or decreases the size of their browser window. They tend to use percentages.

ADVANTAGES

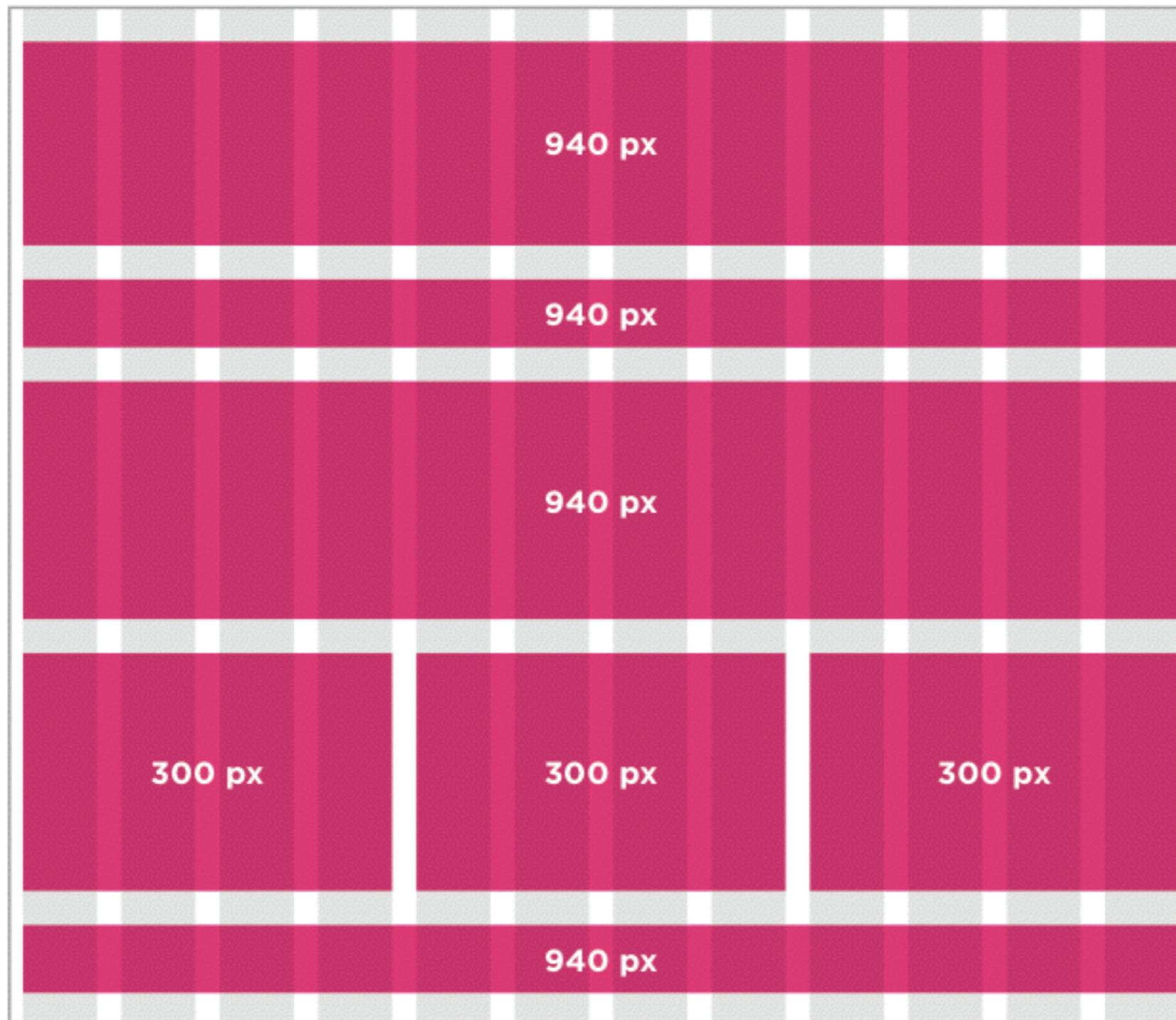
- Pages expand to fill the entire browser window so there are no spaces around the page on a large screen.
- If the user has a small window, the page can contract to fit it without the user having to scroll to the side.
- The design is tolerant of users setting font sizes larger than the designer intended (because the page can stretch).

DISADVANTAGES

- If you do not control the width of sections of the page then the design can look very different than you intended, with unexpected gaps around certain elements or items squashed together.
- If the user has a wide window, lines of text can become very long, which makes them harder to read.
- If the user has a very narrow window, words may be squashed and you can end up with few words on each line.
- If a fixed width item (such as an image) is in a box that is too small to hold it (because the user has made the window smaller) the image can overflow over the text.

Because liquid layouts can stretch the entire width of the browser, resulting in long lines of text that are hard to read, some liquid layouts only let part of the page expand and contract. Other parts of the page have minimum and maximum widths.

Below you can see a sample layout of a page just like the fixed width page example. On the next page, we will recreate this using the 960.gs stylesheet. Instead of writing our own CSS to control layout, we will need to add classes to the HTML indicating how wide each section should be.



Galerie Botanique

Here is a selection of antique botanical prints held in our collection.



Helianthus



Passiflora



Nyctocalos



MacBook Pro

Example Images

```
<!DOCTYPE html>
<html>
  <head>
    <title>Images</title>
  </head>
  <body>
    <div class="wrapper">
      <div class="header">
        
        <p>Here is a selection of antique botanical prints held in our
collection.</p>
      </div>
      <div class="entry">
        <figure>
          
          <figcaption>Helianthus</figcaption>
        </figure>
      </div>
      <div class="entry">
        <figure>
          
          <figcaption>Passiflora</figcaption>
        </figure>
      </div>
      [...]
    </body>
  </html>
```

```
body {
  color: #665544;
  background-color: #d4d0c6;
  background-image: url("images/backdrop.gif");
  font-family: Georgia, "Times New Roman", serif;
  text-align: center;}

.wrapper {
  width: 720px;
  margin: 0px auto;}

.header {
  margin: 40px 0px 20px 0px;}

.entry {
  width: 220px;
  float: left;
  margin: 10px;
  height: 198px;
  background-image: url("images/shadow.png");
  background-repeat: no-repeat;
  background-position: bottom;}

figure {
  display: block;
  width: 202px;
  height: 170px;
  background-color: #e7e3d8;
  padding: 9px;
  text-align: left;}

figure img {
  width: 200px;
  height: 150px;
  border: 1px solid #d6d6d6;}

figcaption {
  background-image: url("images/icon.png");
  padding-left: 20px;
  background-repeat: no-repeat;}
```