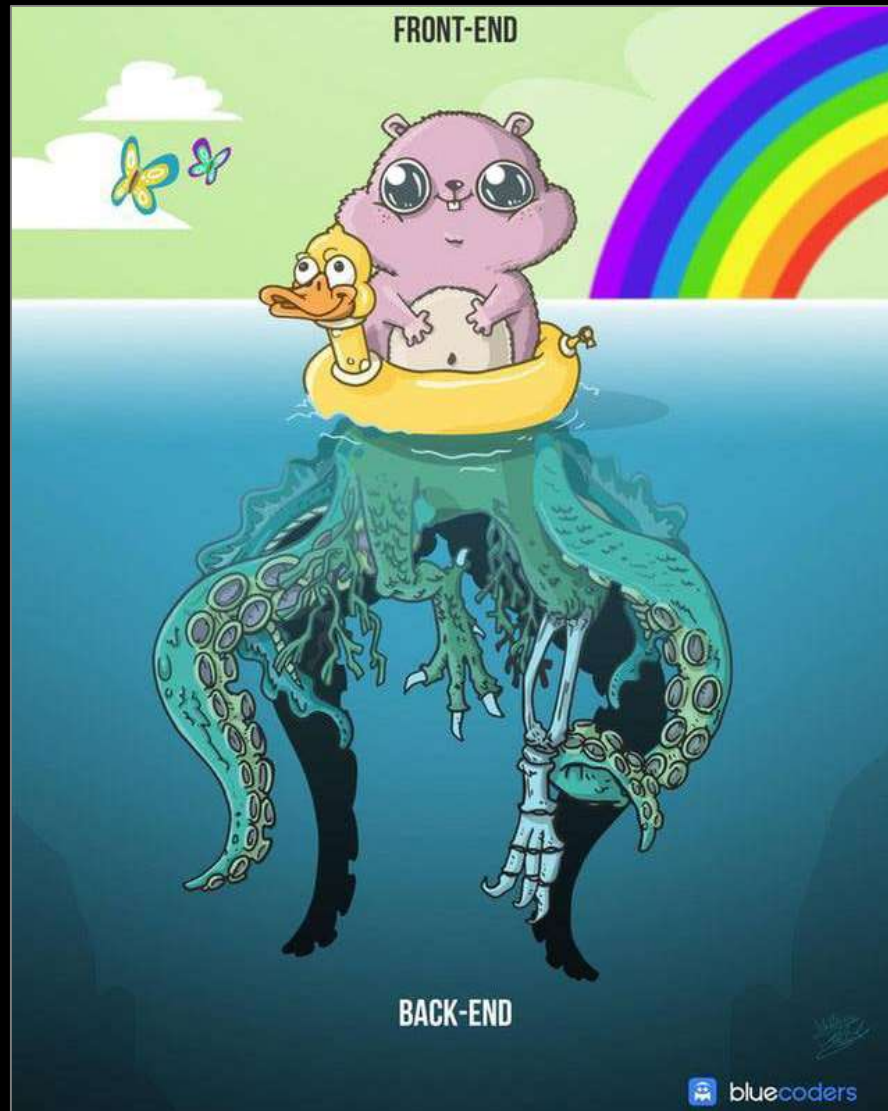


# Tehnologii Web



**concepte primare și viziune**

„De la un anumit punct încolo,  
nu mai există cale de întoarcere.  
Acela este punctul ce trebuie atins.”

**Franz Kafka**

# Ce este Web-ul?

# world wide web

## Serviciu Internet

### **WWW $\neq$ Internet**

# world wide web

Spațiu informațional comun în care comunicăm  
prin interconectarea și partajarea unor elemente  
de interes denumite resurse

inventat de Sir Tim Berners-Lee în decembrie 1989

detalii istorice în Sabin Buraga, *25 de ani de Web* (2014)

[www.slideshare.net/busaco/25-de-ani-de-web](http://www.slideshare.net/busaco/25-de-ani-de-web)

# Sir Tim Berners-Lee, Inventor of the World Wide Web, to receive the ACM A.M. Turing Award

Sir Tim Berners-Lee – lauriat al premiului Turing cea mai importantă distincție în domeniul informaticii



<https://www.w3.org/> — 4 April 2017 — The [ACM](#), the Association for Computing Machinery, today named Sir Tim Berners-Lee, inventor of the Web and Director of the World Wide Web Consortium, as the recipient of the 2016 ACM A.M. Turing Award.

The [ACM Turing Award](#) is recognized as the highest distinction in Computer Science and is sometimes referred to as the "Nobel Prize of Computing." The Award is named for the British Computer Scientist [Alan Turing](#) who is known as the key founder of theoretical computer science and artificial intelligence as well as for the development of the Turing machine, considered a model of a general purpose computer.

Sir Tim is being given this award for inventing the World Wide Web, the first web browser, and the fundamental protocols and algorithms allowing the Web to scale. Considered one of the most influential computing innovations in history, the World Wide Web is the technical infrastructure of society and has already become the universal connectivity platform.

# world wide web

**Idee** (Sir **Tim Berners-Lee** la CERN – 1989)

integrarea unor sisteme informaționale  
disparate într-un mod unitar,  
fără diferențe între sursele de date

# world wide web

**Idee** (Sir **Tim Berners-Lee** la CERN – 1989)

integrarea unor **sisteme informaționale**  
disparate într-un mod unitar,  
fără diferențe între **sursele de date**



# world wide web

**Idee** (Sir **Tim Berners-Lee** la CERN – 1989)

**integrarea** unor sisteme informaționale  
disparate într-un mod **unitar**,  
**fără diferențe** între sursele de date

# world wide web

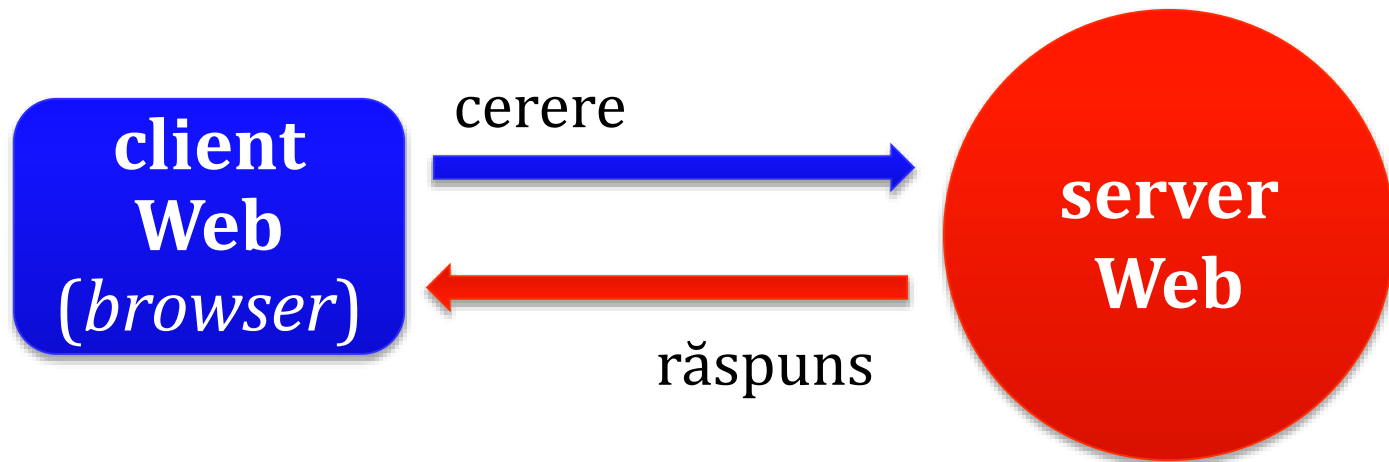
**Idee** (Sir **Tim Berners-Lee** la CERN – 1989)

integrarea unor sisteme informaționale  
disparate într-un mod unitar,  
fără diferențe între sursele de date

*anything can link to anything*

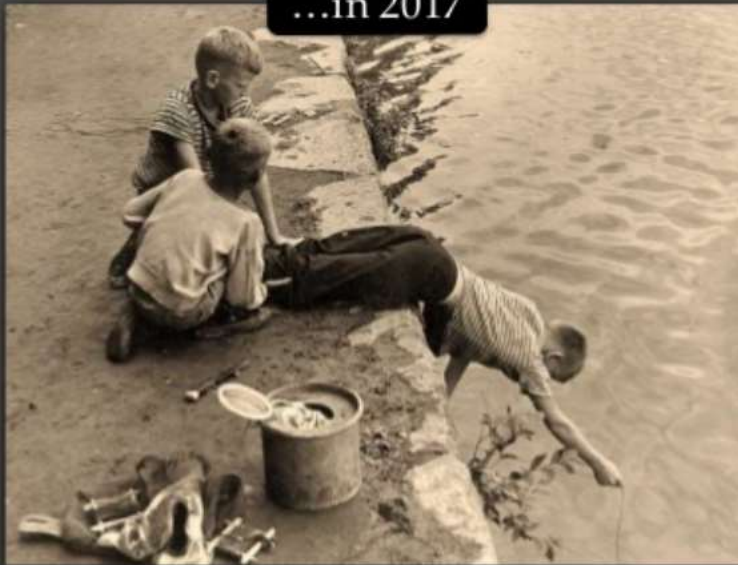
# world wide web

Bazat pe modelul **client/server**



# Dezvoltator Web?!

...în 2017



**Dr. Sabin-Corneliu Buraga**

Facultatea de Informatică, UAIC – Iași, România

[profs.info.uaic.ro/~busaco/](http://profs.info.uaic.ro/~busaco/)

1 of 122

Sabin Buraga – Dezvoltator Web (...în 2017)

792 views

Share

Like

Download

...

## Recommended



Why 5-Star Data?  
Sabin Buraga



Web Technologies (1/12):  
World Wide Web –  
Architectural Aspects  
Sabin Buraga



SNAS - CGS -  
MobilPRO2016  
Sorina Chirilă



Proiectarea jocurilor  
electronice  
Sabin Buraga



Cu codul în "nori"  
Sabin Buraga



(ex-student) Life as... (FIL  
Graduation 2016)  
Sabin Buraga

...și pe **hipertext** (hipermedia)

# world wide web

Scopuri (intenții) principale:

independența de dispozitiv

independența de software

scalabilitatea

ubicuitatea

# world wide web

Bazat pe principii și standarde deschise  
stipulate de **Consortiul Web**

*Web for all & on everything*

*Web for rich interaction*

*Web of data & services*

*Web of trust*

[www.w3.org](http://www.w3.org)

# arhitectura Web-ului

Resursele sunt identificate prin **adresa** lor

identificator uniform de resurse

URI – *Uniform Resource Identifier*

<https://slideshare.net/busaco/presentations>

# arhitectura Web-ului

Accesul la conținutul – reprezentarea –  
resurselor Web  
se realizează printr-un **protocol**

HTTP – *HyperText Transfer Protocol*



adrese Web  
**URI = URL + URN**

protocoale Web  
**HTTP, HTTPS,...**

codificarea  
datelor  
**Unicode**

nume de  
domenii  
**DNS**

protocoalele  
Internet  
**TCP/IP**

a b c ... z  
ș 6 0 4 6 0 6  
⋮ ⊙ \* ● 7

.com .org .io .ro  
.uaic.ro  
.info.uaic.ro

TCP / UDP  
IP, ICMP,...  
acces la mediu

identificator  
uniform de resursă

adrese Web  
**URI = URL + URN**

protocol HTTP  
„securizat”

protocoale Web  
**HTTP, HTTPS,...**

codificarea  
datelor  
**Unicode**

a b c ... z  
ș 6 0 4 6 0 0  
⋮ ⊙ \* ● ʝ

nume de  
domenii  
**DNS**

.com .org .io .ro  
.uaic.ro  
.info.uaic.ro

protocoalele  
Internet  
**TCP/IP**

TCP / UDP  
IP, ICMP,...  
acces la mediu

**TCP** = control al transmiterii datelor (*Transmission Control Protocol*)

**IP** = protocol de interconectare a rețelelor (*Internet Protocol*)

**DNS** = adresă IP ↔ domeniu simbolic – e.g., **85.122.23.1** ↔ **thor.info.uaic.ro**

```

<section id="week1">
<h2>Week #1</h2>
<ul>
<li itemscope="" itemtype="http://schema.org/CreativeWork" itemid="#wade-lecture0">
<p><a href="presentations/web00Introducere.pdf" title="PDF document (available in Romanian language)"
itemprop="url"><span itemprop="name">Introduction & Administrative Info</span></a></p>
</li>

<li class="lecture" itemscope="" itemtype="http://schema.org/CreativeWork" itemid="#wade-lecture1">
<aside class="menu">remember: <a href="../web/web-film.html" title="Visit the Website of 'Web
Technologies' discipline (in Romanian)">Web Technologies</a>&nbsp;<span class="note" title="Resource
available in Romanian language">[RO]</span></aside>
<p>Lecture: <a href="presentations/web01Concepte.pdf" title="PDF document (available in Romanian
language)" itemprop="url"><span itemprop="name">Web Application Development: Concepts &
Vision</span></a></p>
<div class="terms" itemprop="keywords">Web, architecture, social Web, data, modeling, standards</div>
</li>

<li class="lab">
<p>Lab: Server-side Web development &ndash; <span itemscope="" itemtype="http://schema.org
/CreativeWork"><a href="https://www.slideshare.net/busaco/sabin-buraga-dezvoltator-web-n-2017"
title="Web Developer?! &ndash; ...in 2017 (in Romanian)" itemprop="url"><span itemprop="name">Web
Developer?!</span></a></span>, <span itemscope="" itemtype="http://schema.org/CreativeWork"><a
href="https://www.slideshare.net/busaco/cu-codul-n-nori" title="Code in the Clouds (in Romanian)"
itemprop="url"><span itemprop="name">Code in the Clouds</span></a></span>, <a
href="http://programmers.stackexchange.com/questions/46716/what-technical-details-should-
a-programmer-of-a-web-application-consider-before" title="Details">What Technical Details Should a
Programmer of a Web Application Consider?</a>, <a href="https://github.com/sindresorhus/awesome#back-
end-development" title="A curated list of awesome lists">Awesome Lists</a></p>
</li>

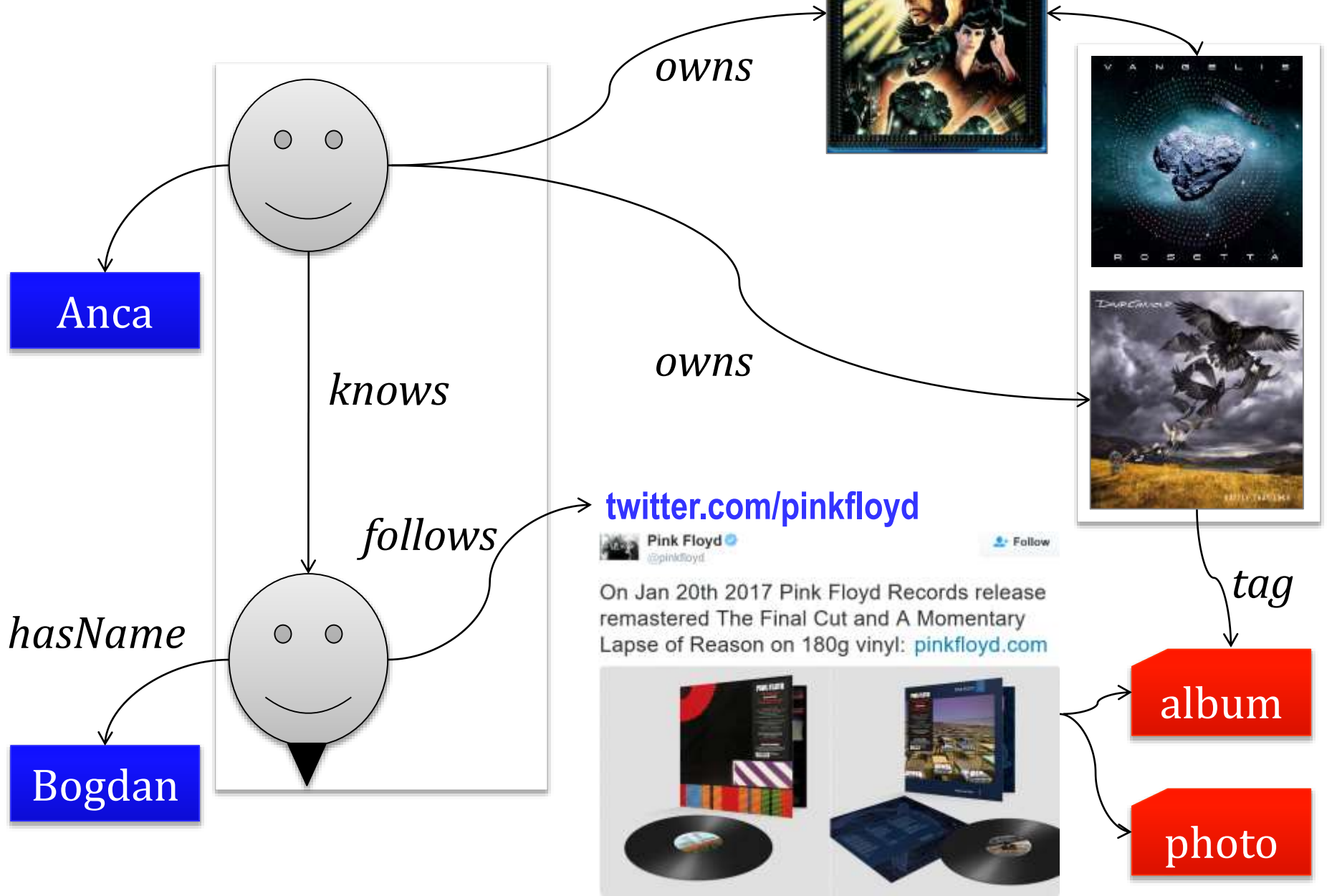
<li class="bib">

```

pagini Web

resursele – documentele – includ <marcaje />

marcajele conțin la rândul lor  
URI-uri ► **hipertext (hipermedia)**



# Relațiile dintre o resursă Web, adresa ei (URI) și reprezentarea structurată a resursei

adresabilitate via URI

<http://world.info/europe/romania/iasi/weather?today>

identifică

informații  
meteo  
despre Iași

resursă Web

reprezintă

reprezentare

```
<section id="meteo">
  <div class="weather">
    <p lang="ro">Iași</p>
    <span>city</span>
    <p lang="en">Temp.
      <span id="today">
        is <strong>...</strong>
        &deg;C</span>
      </p>
    </div>
  </section>
```

formatul **HTML5**  
(utilizatori umani, uzual)

# Relațiile dintre o resursă Web, adresa ei (URI) și reprezentarea structurată a resursei

adresabilitate via URI

<http://world.info/europe/romania/iasi/weather?today>

identifică

informații  
meteo  
despre Iași

resursă Web

reprezintă

reprezentare

```
<weather>
  <point lat="..." long="...">
    <name lang="ro">
      Iași
    </name>
    <type>city</type>
    ...
  </point>
  <temperature when="...">
    <value>...</value>
  </temperature>
</weather>
```

formatul **XML**  
(procesat de software)

# Relațiile dintre o resursă Web, adresa ei (URI) și reprezentarea structurată a resursei

adresabilitate via URI

<http://world.info/europe/romania/iasi/weather?today>

identifică

informații  
meteo  
despre Iași

resursă Web

reprezintă

reprezentare

```
{  
  "point" : {  
    "geo" : { "lat" : "...",  
              "long" : "..."},  
    "name" : "Iași",  
    "type" : "city"  
  },  
  "temperature" : {  
    "when" : "...",  
    "value" : "..."  
  }  
}
```

formatul **JSON**  
(procesat de software)



# Relațiile dintre o resursă Web, adresa ei (URI) și reprezentarea structurată a resursei

adresabilitate via URI

<http://world.info/europe/romania/iasi/weather?today>

identifică

informații  
meteo  
despre Iași

resursă Web

reprezintă

reprezentare

```
<section id="meteo">  
<div class="weather">
```

reprezentare

```
<p lang="ro">  
<span>  
<p lang="en">  
<span>  
  "temperature" : {  
    "when" : "...",  
    "value" : "..."  
  }  
  ...  
</span>  
</p>  
</div>  
</section>
```

reprezentarea – într-un format deschis (*e.g.*, HTML, XML, JSON, RDF,...) – include **date** propriu-zise + **meta-date**



# Ce înseamnă hipertextul?

# hipertext: definire

„Material scris sau grafic interconectat într-o manieră complexă care în mod convențional nu poate fi reprezentat pe hârtie.”

Ted Nelson, 1965

# hipertext: definire

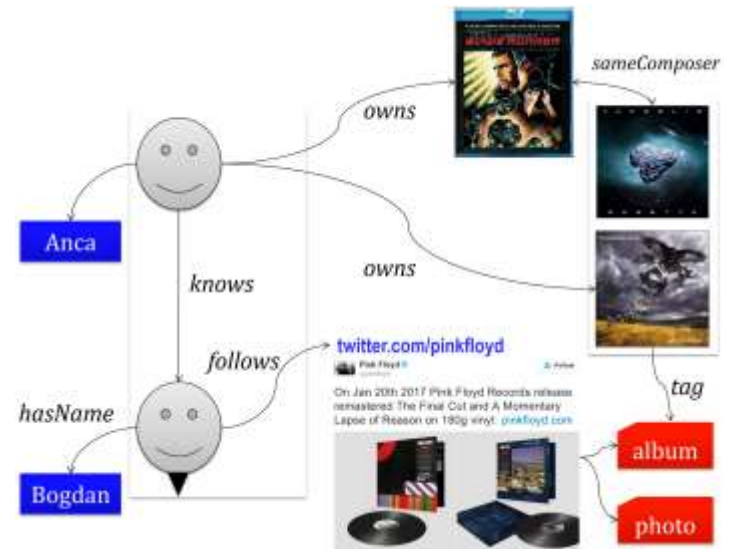
Text non-liniar

# hipertext: definire

Text non-linear



*versus*



# hipertext: definire

O formă de document electronic

# hipertext: definire

O formă de document electronic

formate deschise de reprezentare a conținutului:

DocBook

**HTML** (*HyperText Markup Language*)

ODF (*Open Document Format*)

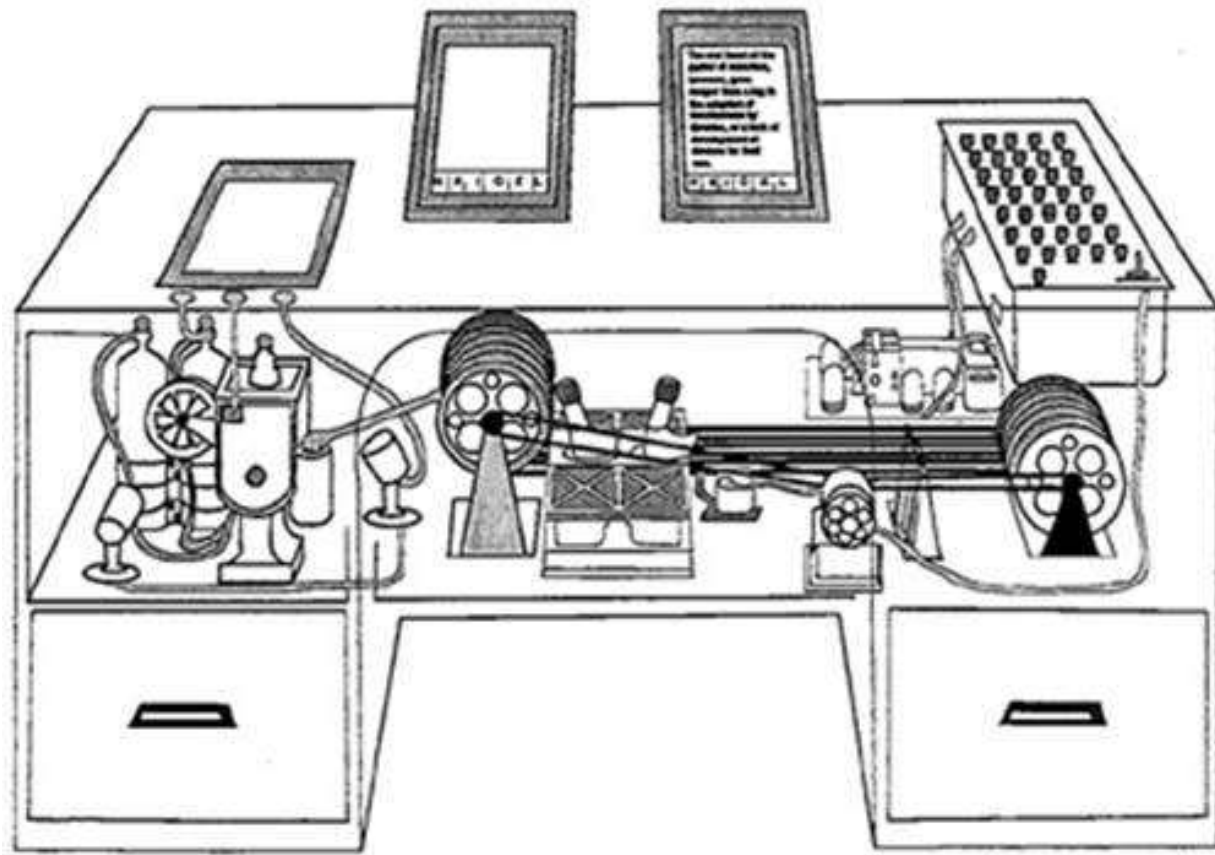
PDF (*Portable Document Format*)

...

# hipertext: istoric

Vannevar Bush – *As We May Think*, 1945

**MEMEX** (*MEMory EXtended*)



*“Consider **a future device for individual use**, which is a sort of mechanized private file and library. [...] It affords an immediate step, however, to associative indexing, the basic idea of which is a provision whereby any item may be caused at will to select immediately and automatically another. [...]*

***The process of tying two items together is the important thing.”***



# hipertext: istoric

Douglas Engelbart  
**Augment** (1968)

mouse, interfețe grafice, procesare a textului,  
poștă electronică, *script*-uri, ferestre pe ecran etc.

*The Mother of All Demos* (1968)

[www.youtube.com/watch?v=yJDv-zdhzMY](http://www.youtube.com/watch?v=yJDv-zdhzMY)

# hipertext: istoric

Ted Nelson

**Xanadu** – prototip, 1991

propune termenul „*hipertext*”

# hipertext: istoric

**Hipermedia** = **hipertext** + multimedia

**Multimedia** =  $\sum$  medii

# hipertext: istoric

**Hipermedia** = **hipertext** + multimedia

**Multimedia** =  $\sum$  medii

medii de comunicare:  
continue (audio, video) și/sau discrete (text)

# hipertext: ingrediente

Hipertextul ca (di)graf

noduri = concepte

legături = relații

# hipertext: ingrediente

Noduri interconectate prin legături

nod sursă = referință (ancoră)

nod destinație = referent (ancoră)

# hipertext: legături

- [Understanding ECMAScript 6](#) - Nicholas C. Zakas
- [Understanding JavaScript OOP](#) (*Sorella*)
- [You Don't Know JS](#)

## Javascript Frameworks

For resources on Angular, Backbone, D3, Dojo, Ember, Express, jQuery, Knockout, Meteor, React and any other JS toolkit/framework, please refer to [Javascript Frameworks Resources and Tutorials](#).

## Node.js

- [An Introduction to libuv](#) - Nikhil Marathe (PDF - ePub)
- [JavaScript and Node FUNDamentals](#) - Azat Mardanov
- [Mixu's Node Book](#)
- [Node: Up and Running](#) - Tom Hughes-Croucher
- [Node.js Succinctly, Syncfusion](#) (PDF, Kindle) (*Just fill the fields with any values*)
- [The Node Beginner Book](#)

referențiale (non-ierarhice)  
organizaționale (ierarhice, structurale)

The image is a screenshot of the DevDocs website. The top navigation bar includes a search bar, the 'DevDocs' logo, and links for 'Offline', 'About', 'News', and 'Tips'. The left sidebar contains a list of categories: CSS, DOM, DOM Events, HTML (selected), Attributes (148), HTML5 (50), article, aside, audio, bdi, canvas, CORS settings attributes, data, datalist, details, dialog, and Element. The main content area is titled 'HTML' and contains the following text:

HTML (HyperText Markup Language) is the most basic building block of the Web. It describes and defines the *content* of a webpage. Other technologies besides HTML are generally used to describe a webpage's appearance/presentation ([CSS](#)) or functionality ([JavaScript](#)).

"HyperText" refers to links that connect webpages to one another, either within a single website or between websites. Links are a fundamental aspect of the Web. By uploading content to the Internet and linking it to pages created by other people, you become an active participant in the World Wide Web.

HTML uses "markup" to annotate text, images, and other content for display in a Web browser. HTML markup includes special "elements" such as `<head>`, `<title>`, `<body>`, `<header>`, `<article>`, `<section>`, `<p>`, `<div>`, `<span>`, `<img>`, and many others.

The articles below will help you learn more about HTML.

- **HTML Reference**  
In our extensive [HTML reference](#) section, you'll find the details about every element and attribute in HTML.
- **HTML Tutorials**  
For articles about how to use HTML, as well as tutorials and complete examples, check out our [HTML Learning Area](#).

At the bottom of the sidebar, there is a 'Select documentation' button and a 'HTML' button.

statice (indicate de autorul unui document) *versus*  
dinamice – generate de un program



# hipertext: documente

## Conținut

tipuri de medii: text, imagine, audio, video,...

## Organizare

noduri + legături structurale

## Prezentare

textuală, grafică, multimedia, 3D, mixtă – (ne)interactivă

# (în loc de) pauză



SOMETIMES  
I JUST NEED  
*a*  
<BR>

Cum identificăm (adresăm) resursele Web?

# URI

Fiecare resursă Web este desemnată de  
**identificatori uniformi de resurse**

*Uniform Resource Identifier*

RFC 2396, 3986

[www.rfc-editor.org/rfc/rfc3986.txt](http://www.rfc-editor.org/rfc/rfc3986.txt)

# URI: definiții

## Resursă

„lucru” care posedă o identitate

# URI: definiții

## Resursă

„lucru” care posedă o identitate

însemnare, CV, fotografie, prezentare, melodie, program,  
persoană, bază de date, concept arbitrar etc.

# URI: definiții

## Identificator

obiect care poate juca rolul unei resurse

# URI: definiții

## Identificator

obiect care poate juca rolul unei resurse

secvență (șir) de caractere având o sintaxă precisă



# URI: definiții

## Uniformitate

resurse eterogene pot fi desemnate  
pe baza acelorași convenții sintactice,  
fiind interpretate semantic în mod uniform

**URI = URL + URN**

## *Uniform Resource Locator*

identifică resursele prin intermediul mecanismului  
de accesare: adresă de rețea, domeniu simbolic

RFC 2717, 2718

**URI = URL + URN**

*Uniform Resource Locator*

**<http://profs.info.uaic.ro/~busaco/teach/>**

**<mailto:tux@penguin.info>**

**<ftp://ftp.funet.fi/pub/README.txt>**

**<data:image/png;base64,iVBORw0KGgoAA...YII=>**

**<tel:+40232201090>**

**<geo:47.16667,27.60000>**

**URI = URL + URN**

*Uniform Resource Name*

identifică resursele prin nume, în mod persistent,  
chiar dacă resursa este una abstractă

RFC 2141

**URI = URL + URN**

**urn:mimetypes**

**urn:ISBN:973-681-988-4**

**urn:ietf:rfc:7700**

**urn:mozilla:install-manifest**

$$\text{URI} = \text{URL} + \text{URN}$$

carte  
identificată  
unic prin ISBN

urn:ISBN:973-681-988-4

componentă  
software

urn:mozilla:install-manifest

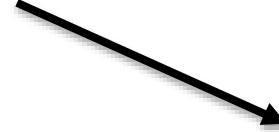
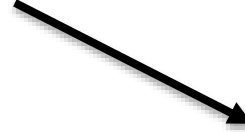
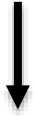
urn:mimetypes

tipuri de date MIME  
(*Media Types*)

urn:ietf:rfc:7700

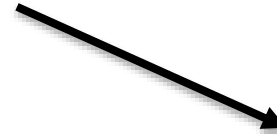
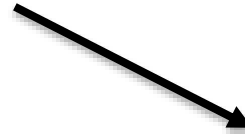
specificație  
(standard)

*schema://authority/path?query*



<http://www.penguin.info/prog/cauta?id=Tux>

***schema://authority/path?query***



**http://www.penguin.info/prog/cauta?id=Tux**

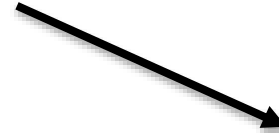
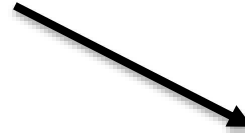
***schema*** reprezintă o schemă de adresare standardizată  
(recunoscută de client – *e.g.*, navigatorul Web)

**about file ftp geo http https im imap ipp ldap mailto  
news nfs sip sms stun tel turn tv urn ws xmpp etc.**

**[www.iana.org/assignments/uri-schemes/uri-schemes.xhtml](http://www.iana.org/assignments/uri-schemes/uri-schemes.xhtml)**



*schema://authority/path?query*



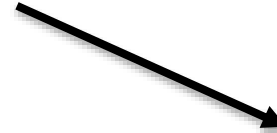
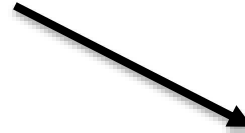
<http://www.penguin.info/prog/cauta?id=Tux>

*authority* poate include informații de autentificare  
a utilizatorului (nume:parola – specificate „în clar”!)

+

date privind domeniul/adresa Internet,  
eventual portul de acces

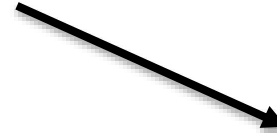
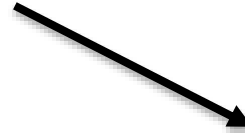
*schema://authority/path?query*



<http://www.penguin.info/prog/cauta?id=Tux>

*path* referă o cale (virtuală) de directoare  
spre un nume de resursă – interpretabil ca nume de fișier,  
eventual având o extensie

*schema://authority/path?query*



<http://www.penguin.info/prog/cauta?id=Tux>

*query* specifică date de intrare  
uzual, perechi cheie=valoare delimitate de „&”

# URI

Caractere rezervate

; / ? : @ & = + \$ ,

se codifică în baza 16, precedate de %



# URI

Caractere rezervate

; / ? : @ & = + \$ ,

se codifică în baza 16, precedate de %

exemple:

**spațiul** va deveni **%20**

<https://emojipedia.org/emoji/%F0%9F%96%A4/>



de ce?

# URI

URL-uri **absolute**

<http://www.info.uaic.ro/~busaco/cv.html>

apar obligatoriu componentele *schema* și *authority*

# URI

URL-uri **relative**

**../../web.css**

se indică doar construcții referitoare la  
componenta *path* și, eventual, *query*

# URI

„Fragmente” dintr-un conținut  
pot fi referite prin **URIref**  
(referințe, *fragment identifiers*)

**URI#URIref**



# URI

„Fragmente” dintr-un conținut  
pot fi referite prin **URIref**  
(referințe, *fragment identifiers*)

**URI#URIref**

**web-biblio.html#web**

**https://drive.google.com/#my-drive**

# URI

URI-urile trebuie considerate **opaque**

nu trebuie „ghicit” tipul conținutului  
inspectând URI-ul asociat resursei

# URI

URI-urile trebuie considerate **opaque**

nu trebuie „ghicit” tipul conținutului  
inspectând URI-ul asociat resursei

tipul unei resurse nu este dat de extensie – *e.g.*, **.html** –,  
ci de tipul MIME transmis de server

# URI

URI-urile trebuie considerate **opaque**

nu trebuie „ghicit” tipul conținutului  
inspectând URI-ul asociat resursei

starea/conținutul resursei poate evolua în timp,  
dar URI-ul asociat ei nu

*“Cool URIs don’t change”* – [www.w3.org/Provider/Style/URI.html](http://www.w3.org/Provider/Style/URI.html)

# IRI

## *Internationalized Resource Identifier*

permite folosirea caracterelor Unicode în URI

a se vedea și IDN (*Internationalized Domain Name*)

exemplificări:

<http://thefreedictionary.com/rosé>

<http://www.köpabåt.eu/motorbat/>

<http://www.以食為天.tw/>

Ce categorii de aplicații Web putem dezvolta?

## Sit Web

sistem pe care rulează un server Web  
găzduind o serie de pagini (resurse) înrudite  
ale unei organizații, companii sau persoane

# Aplicație Web

colecție interconectată de pagini Web  
cu conținut generat dinamic, menită a oferi  
utilizatorilor o funcționalitate specifică

de studiat și S. Buraga, „Dezvoltator Web?!” (2017)

[www.slideshare.net/busaco/dezvoltator-web-n-2017](http://www.slideshare.net/busaco/dezvoltator-web-n-2017)



# Aplicație Web

interacțiunea dintre aplicație și utilizatori  
are loc via o interfață Web

# Aplicație Web

interacțiunea dintre aplicație și utilizatori  
are loc via o interfață Web

uzual, sit Web  $\equiv$  aplicație Web

# Aplicație Web

exemplificări:

Cloud9, Coursera, Devdocs.io, Dropbox, GitHub,  
info.uaic.ro, Instagram, JSBin, Medium, OpenStreetMap,  
Pocket, Reddit, Quora, SlideShare, TED.com, Tumblr,  
Vimeo, Wikipedia, WordPress

...și multe, multe, multe altele

# categorii de aplicații web

**Centrate pe documente**

**Interactive**

**Tranzacționale**

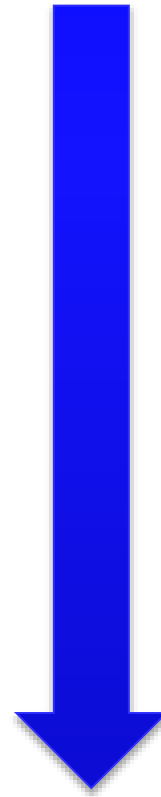
**Colaborative**

**Orientate spre portaluri**

**De tip ubicuu**

**Web social**

**Web semantic**



evoluția  
complexității

# **Centrate pe documente – *document centric***

conținut/pagini static(e):

situri de organizații, companii, referitoare la persoane

# Tehnologii Web

fundația unui viitor dezvoltator Web profesionist

## materia

★ [desfășurare](#)

☢ [examinare](#)

✿ [proiecte](#)

[Alexa Prize Socialbot Challenge](#)  
[CERN Student Opportunities](#)  
[Google Summer of Code](#)

## resurse

♻ [bibliografie](#)

✓ [reguli](#)

👤 [contact](#)

# Interactive

expoziții virtuale

situri de știri

sisteme de facilitare a călătoriilor (*e-travel*)

chioșcuri informative

participare la evenimente *online*

...

ARCHITECTURE >

BLOGS AND NEWS >

CODING >

COMMUNITY >

ELEMENTS >

INSPIRATION >

PROJECT TOOLS >

Analytics

**Collaboration** >

Collecting

Task Management

SERVICES >

SET UP

UX

OTHER RESOURCES

SHOW ALL



### Appear.in

appear.in

collaboration

Video conversations in your browser - no login, no downloads. Create a video room. Share the link. Appear together.



### Assembla

assembla.com

collaboration task management

Create a Project in Less than a Minute with Task Management, Code Management and Collaboration Tools.



### Avocode

avocode.com

collaboration

Avocode lets designers & developers collaborate like never before. They can share designs, leave notes, get assets and view specs from a single place.



### Beagle

getbeagle.co

collaboration task management

We're building a tool to help you create more compelling proposals, faster.



### Bounce

bounceapp.com

collaboration

A fun and easy way to share ideas on a website.



### Coment.me

coment.me

browser extension collaboration

Comment, sign or draw anything right over the page. Share the result with your friends and colleagues.



### Dropbox

dropbox.com

collaboration collecting

Dropbox is a free service that lets you bring your photos, docs, and videos anywhere and share them easily. Never email yourself a file again!



### Front

frontapp.com

collaboration

Front is shared inboxes built for teams. Collaborate on Email, Twitter, and SMS together. Your team will be more productive and more engaged.



### Frontify

frontify.com

collaboration prototyping

Create professional style guides & master the design-to-development workflow with our apps.

W3C

@w3c Jan 31

Data on the Web Best Practice @W3C 5: Provide data provenance information like @BerkeleyLab & The Materials Project w3.org/TR/dwbp/#DataP...



118



## Getting Ready For HTTP/2: A Guide For Web Designers And Developers

Submitted 23 hours ago by Vittulino26

7 comments share

65



## Mortar JS - a Web Framework for creating React powered CMS / Admin UIs. Just open sourced and looking for feedback!

self.webdev

Submitted 16 hours ago by Pink401k

12 comments share

53



## When should localStorage/sessionStorage not be used over cookies?

self.webdev

Submitted 12 hours ago by adropofhoney



# Tranzacționale

*online banking*

soluții B2B (*business-to-business*)

aplicații B2C (*business-to-consumer*)

sisteme C2C (*consumer-to-consumer*)

fluxuri de activități (*Web workflow-uri*)

## YOUR ORDER



## Klamath Long Sleeve Button Down Shirt

Size: X-Large

Color: Blue Chambray

Price: \$29.98/ea

Qty: 1

\$29.98

This item is for final sale only and non-returnable.

**Subtotal:** **\$29.98****Shipping Cost:** **\$7.98**[HAVE A PROMO OR GIFT CODE? >](#)**Total:** **\$37.96**You're saving **\$60.02** off retailSHIP TO [Change](#)

Brian Gonzales

BILL TO [Change](#)

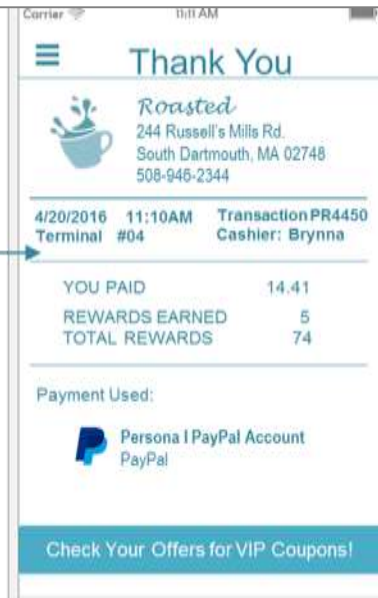
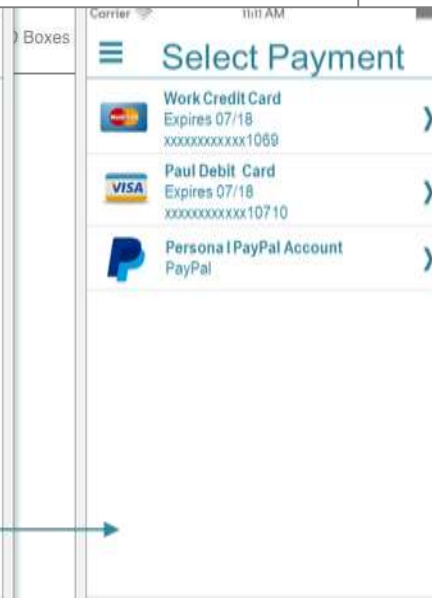
Brian Gonzales

## CHOOSE SHIPPING METHOD

Standard **\$7.98**Two Day **\$20.00**Next Day **\$30.00**

Estimated Delivery: Dec 9th - Dec 11th

PLACE ORDER NOW



# Colaborative

tele-conferințe Web  
aplicații Web de tip *wiki*  
servicii *e-learning*  
aplicații Web *peer-to-peer*

# Presentations

This page includes the proposals of the presentations to be delivered by the students — teams of **maximum 2 persons** — during the [lab classes](#). Duration of a presentation: **maximum 20 minutes**. A presentation could include demos, examples, multimedia resources, etc. Also, other **10 minutes of Q&A** are permitted.

if you have preferred topics to be discussed, propose them. They will be voted for the next labs.

## List of current proposals

For this year, the list of proposed topics is closed.

Please, insert under each presentation the name of students who intend to deliver the presentation. (You can insert the name of the student who proposed the presentation, demo, source code, etc.)

## Delivered presentations

1. [CSS files optimization](#)  
[Bogdan Giza — f...]
2. [Software program](#)  
[Dinu Suman — f...]
3. Practical uses of S...  
[Ionuț Știrban — f...]
4. [Server-side Web](#)  
[Ana-Maria Danel...]
5. [Server-side Web](#)  
examples)  
[Victor Porof, Vlad...]
6. Building Web app...



[Home](#)
[About](#)
[Contact](#)
[FAQ](#)
[Privacy](#)
[Terms](#)

[English](#)
[Español](#)
[Português](#)
[Pycckий](#)
[Українська](#)

[Search](#)

[Artist](#)
[All Artworks Chronologically](#)
[All Artworks by Alphabet](#)



**Salvador Dali**  
 Salvador Domingo Felipe Jacinto Dali i Domènech, Marquis de Púbol

Born: 11 May 1904; Figueres, Spain  
 Died: 23 January 1989; Figueres, Spain  
 Active Years: 1910 - 1988  
 Field: painting, sculpture, drawing, photography  
 Nationality: [Spanish](#)  
 Art Movement: [Surrealism](#)

Share: [Facebook](#) [Twitter](#) [LinkedIn](#) [Pinterest](#) [Google+](#) [YouTube](#) [Instagram](#)

The famous Spanish surrealist painter, Salvador Dali had artistic repertoire that included sculpture, painting, photography, multimedia work, and collaborations with other artists, most notably independent surrealist films. Dali was born in a quasi-surreal existence. His brother, also named Salvador, died as a toddler, nine months before Dali's birth. His parents told him he was the reincarnation of his older brother, which he also came to believe. As a child, Dali attended drawing school, and by the age of thirteen, Dali's father was arranging exhibitions of his charcoal drawings. In 1922, Dali went to study at the School of Fine Arts in San Fernando, where he was known as a bit of a dandy, wearing long hair and sideburns, and stockings with knee breeches in the style of 19th century aesthetes. [show more](#)

Wikipedia article  
[http://en.wikipedia.org/wiki/Salvador\\_Dali%C3%A0](http://en.wikipedia.org/wiki/Salvador_Dali%C3%A0)

Dali's Mustache - Photo by Philippe Halsman

## Featured Artworks



# Orientate spre portaluri

localizare unitară a informațiilor  
tehnice, de afaceri, guvernamentale,...

specie: **Web-ul cetățenesc**



Home / Places / Romania

# Romania

58% open

Romania is ranked #13 in the 2015 Index



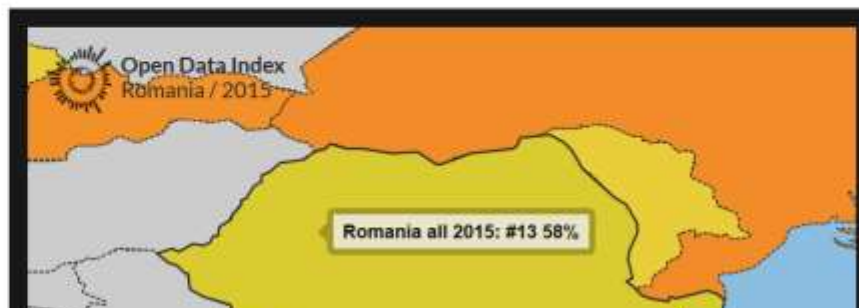
Romania's overall Index ranking is up from #16 in 2014

See other years [2014](#) [2013](#)

Share or embed this page

</> Embed

Rank	Dataset	Breakdown
1	<a href="#">National Statistics</a>	
1	<a href="#">Procurement tenders</a>	
1	<a href="#">Legislation</a>	
1	<a href="#">Election Results</a>	
1	<a href="#">Company Register</a>	
8	<a href="#">Government Spending</a>	



Home My Europeana Choose a language

Search  [Search](#) [Help](#)

- enescu george (65) Subjects
- enescu george (51) Creators**
- enescu george (51) Creators
- enescu george (50) Titles
- enescu dan (21) Creators
- enescu i (9) Subjects
- enescu ioan (7) Creators
- enescu george 1881 1955 (6) Subjects
- enescu monica (4) Creators
- enescu george 1881 1955 portraits (4) Subjects

**Europeana@Pinterest**

Discover a wide range of hand-picked treasures on Pinterest. Explore the themes of Tapestry, Renaissance Art and more.

[Explore Pinterest](#)

From the blog



Jane Austen and zombies, and other literary mash-ups

Europeana talks a lot about encouraging the use of its collections by professionals in the



Caption this! Summer contest results

The summer has come to an end, so it's time to announce the winners of our Caption this! contest. In July and August, we weekly

## De tip ubicuu

servicii mobile bazate pe locația utilizatorului,  
disponibile pe mai multe platforme:  
*desktop*, dispozitiv mobil, tabletă, consolă de jocuri,...

**Web-ul mobil**



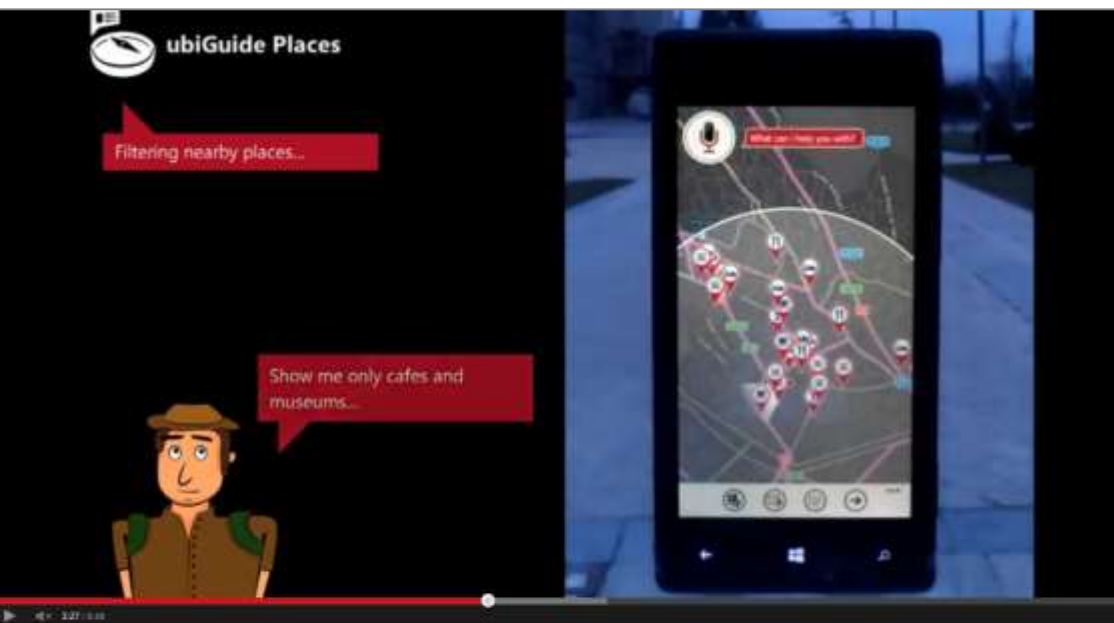
Get Pocket for:



Windows ›

Kobo e-reader ›

Windows Mobile ›



## UbiGuide

An essential tool for any tourist, ubiGuide's unique capabilities give users an amazing Windows Phone 8 experience.

More info at youtube [description](#).

Imagine Cup 2013 Project

Adviser by: PhD. [Sabin C. Buraga](#)

Students:

- Ionut Danila
- Mihaela Ghimiciu



# Web social

platforma în care utilizatorul își controlează propriile date

așa-numitul **Web 2.0**, conform Tim O'Reilly, 2005

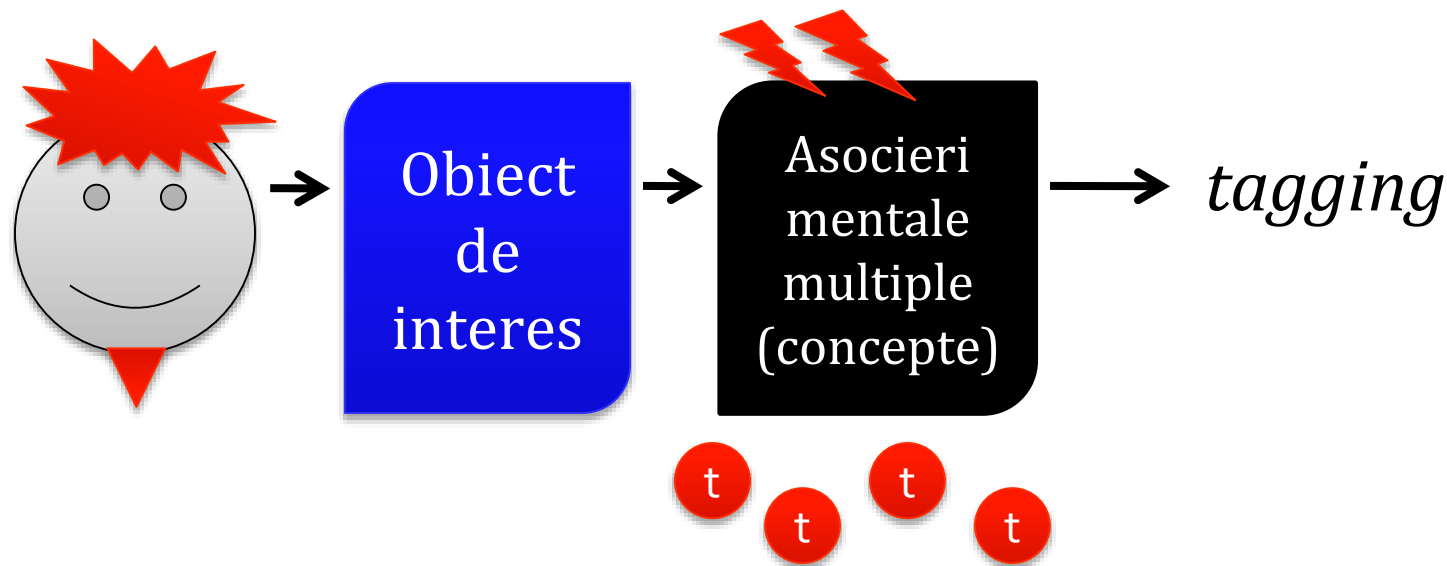
mediatizare (*syndication*)

filtrare colaborativă pe baza *tagging*-ului

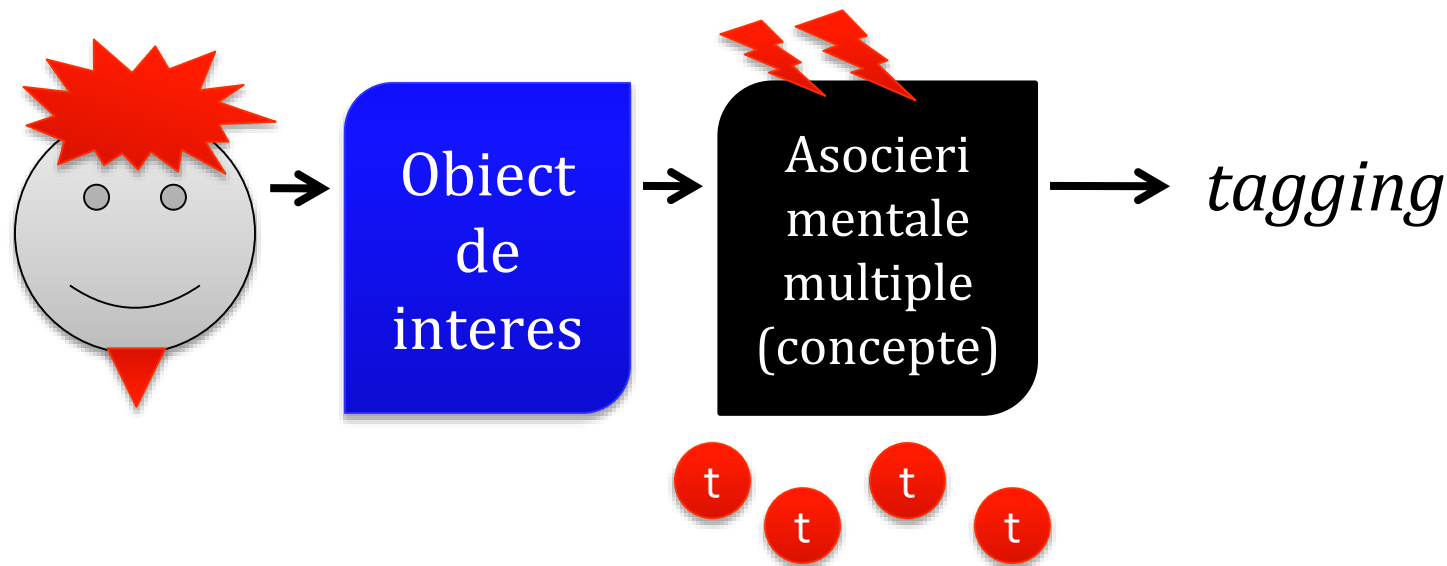
spații de lucru virtuale

divertisment social

*social (game) computing*



*tagging*-ul reprezintă o modalitate particulară de adnotare a resurselor electronice – *digital content annotation*



**tag** = (meta)dată simplă – termen arbitrar ales – asociată extern unui obiect (unei resurse)

cu scopul de a **identifica**, **sorta**, **agrega** etc. acea resursă

## Tagged Questions

[info](#)
[newest](#)
[frequent](#)
[votes](#)
[active](#)
[unanswered](#)

# 15,834

questions tagged

[web-applications](#)

## Related Tags

Web applications are applications that are accessed over the "web", which can be over Internet, or Intranet i.e. an internal network

[learn more...](#) [top users](#) [synonyms \(3\)](#)

0

votes

2

answers

### ES6 Modules in yeoman webapp with Babel

I'm trying to write some ES6 code. Seeing that the yeoman webapp generator automatically transpiles ES6 code for you with Babel (<https://github.com/yeoman/generator-webapp>), I decided to use that. ...

[javascript](#)
[web-applications](#)

377 views

## Follow tags

Choose a few tags to follow to get your custom reading list started.

What interests you?

[Tech](#)
[Design](#)
[Humor](#)
[Travel](#)
[Music](#)
[Writing](#)
[Social Media](#)
[Life](#)
[Education](#)
[Edtech](#)
[Education Reform](#)
[Photography](#)
[Startup](#)
[Poetry](#)
[Women In Tech](#)
[Future Of Food](#)
[Business](#)
[Fiction](#)
[Love](#)
[Food](#)
[Sports](#)
[Entrepreneurship](#)
[Marketing](#)
[LGBT](#)
[Transgender](#)
[Gender](#)
[Art](#)
[Politics](#)
[2016 Election](#)
[Government](#)
[Health](#)
[Creativity](#)
[UX](#)
[Blacklivesmatter](#)
[Social Justice](#)
[Equality](#)
[Relationships](#)
[Inspiration](#)
[Mobile](#)
[java](#) × 3106
 
[javascript](#) × 1994
 
[asp.net](#) × 1381
 
[php](#) × 1042
 
[c#](#) × 896
 
[html](#) × 781
 
[tomcat](#) × 687
 
[python](#) × 636
 
[jquery](#) × 583
 
[web-services](#) × 501
 

3

votes

3

answers

### If a jar file is required by r

If a jar file is required by multiple classpath or keeping one copy

[java](#)
[java-ee](#)
[web-applications](#)

19 views

# Web semantic

(*Web of Data* – Web-ul datelor interconectate)

modelarea cunoștințelor  
pentru a fi „înțelese” de calculatoare

date ► informații ► cunoștințe

# Query Linked Data on the Web

Live in your browser, powered by Triple Pattern Fragments.



avansat

Choose datasources:

Type or pick a query:

```
SELECT DISTINCT *  
WHERE {  
  <http://dbpedia.org/resource/  
  a  
  ?concept .  
} ORDER BY desc (?concept)  
LIMIT 150
```

Execute query

DBpedia 2016-04 ✕

Directors of movies starring Brad Pitt

Carpenters killed by crucifixion

Death causes of male American actors

Desserts made with plants

Devices with the same OS as the Raspberry Pi

Events that took place in the Trentino region

Find all classes extending dcat:Dataset

Find your own vocabularies

Cine este Linus Torvalds?

diverse URL-uri  
desemnând **concepte**  
(*things, not strings*)

PersonWithOccupation

ComputerPioneers

FinnishComputerProgrammers

FreeSoftwareProgrammers

LinuxKernelHackers

LivingPeople

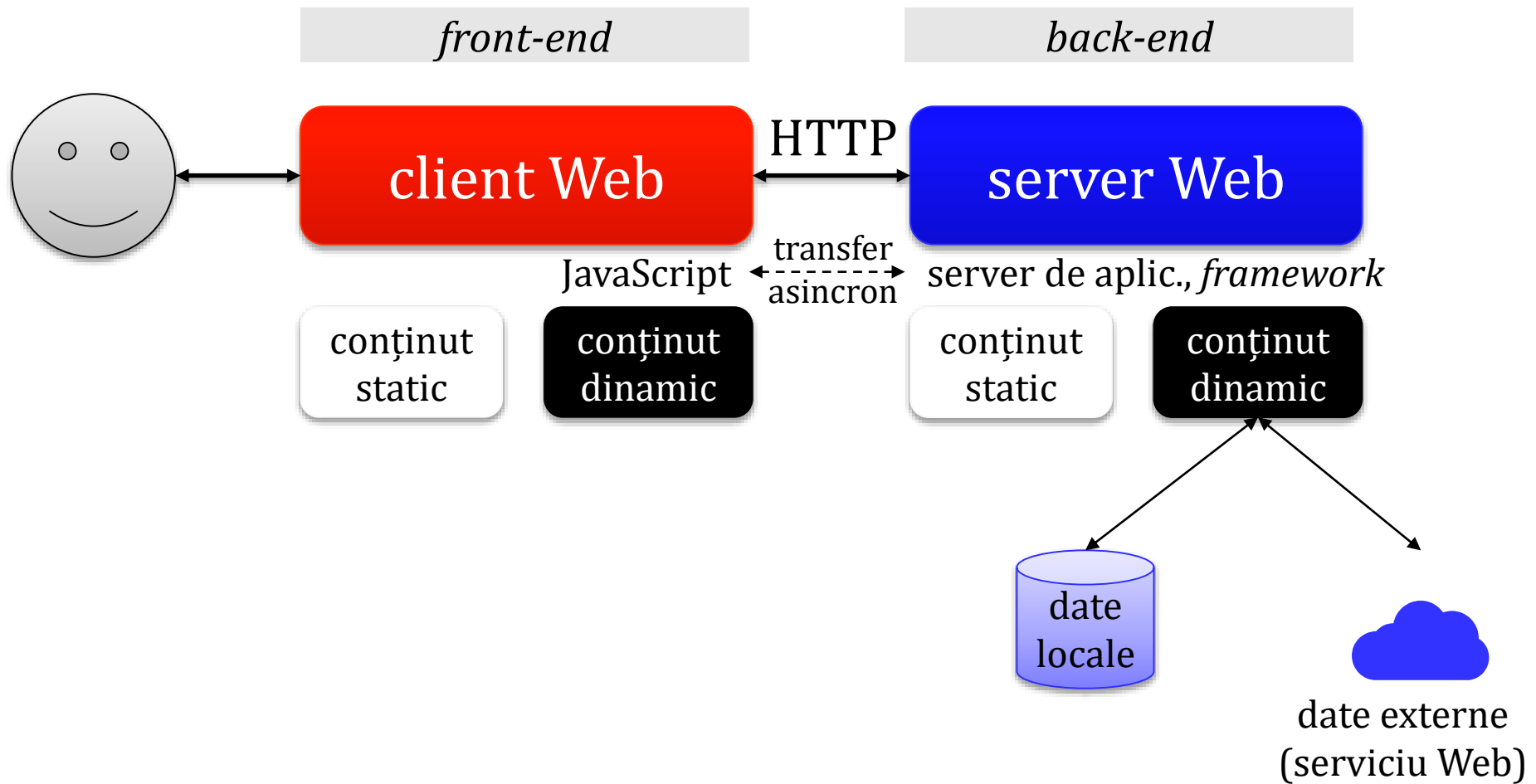
PeopleInInformationTechnology

Golfer

interogări asupra **DBpedia**

(varianta procesabilă de către mașină a enciclopediei Wikipedia)

# Care este arhitectura unei aplicații Web?



via o **interfață Web**, utilizatorul interacționează cu clientul (*front-end*) și inițiază acțiuni – *e.g.*, cereri HTTP (a)sincrone – ce vor fi executate pe diverse **componente implementate** la nivel de server (*back-end*), pentru a obține **date**



**Aplicație Web = Interfață + Program + Conținut (Date)**

**Aplicație Web = Interfață + Program + Conținut (Date)**

mitul 1: cea mai importantă este interfața

mitul 2: cel mai important este programul

mitul 3: cele mai importante sunt datele

standarde deschise: HTML, CSS, Ajax, SVG, WebGL,...

**Aplicație Web = Interfață + Program + Conținut (Date)**

mitul 1: cea mai importantă este interfața

mitul 2: cel mai important este programul

mitul 3: cele mai importante sunt datele

server: C#, Java, JavaScript, PHP, Ruby,...; client: JavaScript

**Aplicație Web = Interfață + Program + Conținut (Date)**

mitul 1: cea mai importantă este interfața

mitul 2: cel mai important este programul

mitul 3: cele mai importante sunt datele

relaționale (SQL), grafuri (NoSQL), JSON, XML, RDF

**Aplicație Web = Interfață + Program + Conținut (Date)**

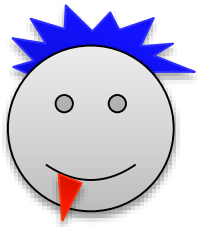
mitul 1: cea mai importantă este interfața

mitul 2: cel mai important este programul

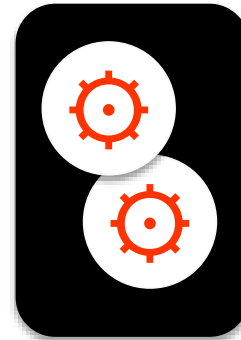
mitul 3: cele mai importante sunt datele

fapt: **sunt importante toate!**

**Client**  
interfață cu  
utilizatorul

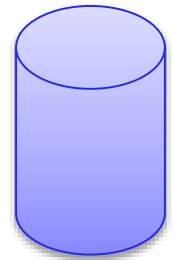


Internet  
(Web)



**Server**  
sit/aplicație Web

**Date**  
stocate  
persistent



**Aplicație Web = Interfață + Program + Conținut (Date)**

# rezumat



terminologie, modelul client/server, hipertext,  
URI, sit vs. aplicație, tipuri de aplicații Web



405

Method Not Allowed

[httpstatusdogs.com](http://statusdogs.com)

episodul viitor: **programare Web**  
de la **HTTP** la *cookie*-uri și sesiuni Web