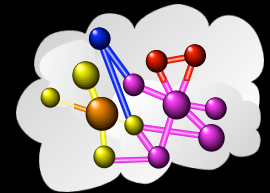


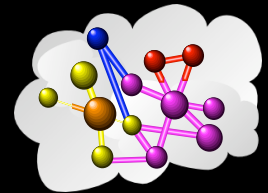
Cloud Social

Charles Severance
www.cloudsocial.org



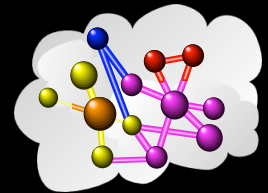
Trends in Teaching and Learning

- Move toward open participatory learning and open educational resources
- A hybrid approach towards learning where organizational boundaries and educational structure is less clear
- Move toward social learning - learning and exploring with groups
- Move toward the “web” as the source of learning content



Making Content the Focus

- Content lives on the web - on any server using any technology
- Instead of moving the content into lots of LMS systems...
- Bring any and all LMS systems “with you” as you visit different sources of content on the Internet



CONNECTIONS[®]

Log in | Contact Us | Report a Bug

Home Content About Us Help MyCNX

You are here: Home > Content > Matrix Analysis > Least Squares

Resources

is required to use some of the files in this section: [.jar](#).



CONTENT ACTIONS

- Download PDF/ZIP...
- Add to ...
- E-mail the author(s) ...
- Print this Web page

TABLE OF CONTENTS

- Preface
- Matrix Methods for Electrical Systems
- Matrix Methods for Mechanical Systems
- The Fundamental Subspaces
- Least Squares
- Matrix Methods for Dynamical Systems

INSIDE COLLECTION

Matrix Analysis

Course by: Steven

Least Squares

Module by: G

Summary: Descri

Introduction

We learned in the p
when the number c
arises quite often in
unknowns,' we est



WIKIPEDIA
The Free Encyclopedia

- Main page
- Contents
- Featured content
- Current events
- Random article

search

Go Search

- About Wikipedia
- Community portal
- Recent changes
- Contact Wikipedia
- Donate to Wikipedia
- Help

- What links here
- Related changes
- Upload file
- Special pages

article discussion edit this page history



“La liberté n'a pas de prix.”

— Arnaud from Norway; donated 300 kr
(Freedom is priceless.)

Donate Now »

Learn More...

Transmission Control Protocol

The **Transmission Control Protocol (TCP)** is one of the core protocols of the **Internet Protocol Suite**. TCP is so central that the entire suite is often referred to as "TCP/IP." Whereas IP handles lower-level transmissions from computer to computer as a message makes its way across the Internet, TCP operates at a higher level, concerned only with the two *end systems*, for example a Web browser and a Web server. In particular, TCP provides reliable, ordered delivery of a stream of bytes from one program on one computer to another program on another computer. Besides the Web, other common applications of TCP include e-mail and file transfer. Among its management tasks, TCP controls message size, the rate at which messages are exchanged, and network

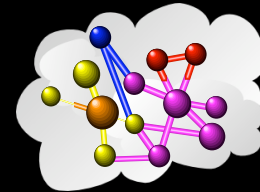
Join or Sign in

Members (15)

The TCP/IP model (RFC 1122)

- Application Layer**
BGP · DHCP · DNS · FTP · Gopher · GTP · HTTP · IMAP · IRC · NNTP · NTP · POP · RIP · RPC · RTCP · RTP · RTSP · SDP · SIP · SMTP · SNMP · SOAP · SSH · STUN · Telnet · TIME · TLS/SSL · XMPP · (more)
- Transport Layer**
TCP · UDP · DCCP · SCTP · RSVP · ECN · (more)

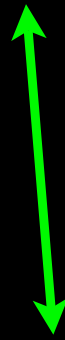
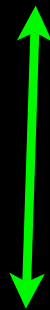
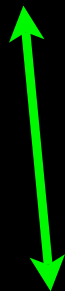
CloudSocial.org



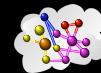
- CloudSocial acts as an intermediary between content owners and learning system
- CloudSocial allows any LMS to embed itself in content for learners who visit that content launched from their LMS
- CloudSocial is not itself a LMS
- CloudSocial does not touch, store, or handle user data - use data remains on the LMS systems which provide the embedded tools



cloudcollab.com

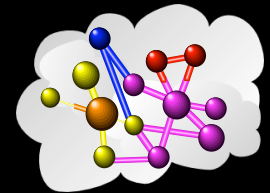


CloudSocial.org



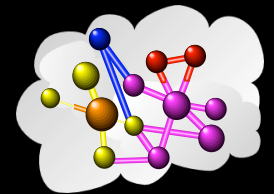
Inverting the Content/LMS

- Today we focus on putting Content into as Many LMS systems as possible
- In the future there will be many sources of content - not just LMS systems - it will be hard to get interchange formats working in all these systems (including legacy)
- So lets put the LMS Into the Content.



Conceptually Similar Projects

- Social Annotation - diigo
- Web site chat - www.hab.la
- Google Analytics
- Google Maps
- iGoogle





Quick Links

- Blog (1-Nov 11:34)
- Chuck's TV and Media
- Chuck's Talks
- Chuck's Book
- Chuck's Columns
- Resume and Bio
- Chuck's Papers
- Twitter

- UM School of Information
- Planet Sakai Blog
- IMS GLC



- Chuck's Twitter
- Prepping a service oriented architecture lecture.
- http://tinyurl.com/63cl6d
- about 6 hours ago
- @phubbard no DTW
- terminal C about 15 hours ago

miscellaneous material. This also includes a number of activities and sites which I have done with my good friend Richard Wiggins.

New: Teaching Materials for the Google Application Engine
Video: Dr. Chuck' Sings the Blues with the Canettes Blues Band (www.canettes.ch)
New Major: Informatics @ Michigan

Teaching

- SI 539 - Design of Complex Web Sites (Rails)
- SI 543 - Introductory Programming (Java)
- See also www.pythonlearn.com and www.apnacorelearn.com

Web/Multimedia sites

- A Film About Brent and His
- How to install a hardwood floor
- Dr. Chuck sings the blues (2007)
- Dr. Chuck goes motocross racing (2007)
- Dr. Chuck goes stock car racing (2002)
- Audition Tape which we sent to TechTV which was rejected :(.
- Making a Simple Cartoon Three short animations from Chuck and Brent.
- Nuthin' But Net A Television show
- NewsTalk 870 - Rich and I were on the radio once per month from the mid 90's through 2004.
- More Multimedia Projects...

Software Tools

- PHP image software for v300 and Treo-600 SMS
- ClipBoard-2000 - Distance Education Software
- Sync-O-Matic 2000 - Distance Education Software
- Other software Tools

Projects

- Practical Home Networking - A book that Chuck and Rich almost got written. (Version 1, Version 2, Version 3, and Version 4)



Mandy Birthday Project

Production Date: December 1999
 Somehow we got the idea to use the night vision mode of the Sony Camcorder to make a spoof of the Blair Witch Project starring Mandy's friends. The alien is an action figure and the spacecraft is an Apple Airport. Media: Real Media 320 kbps.

This is a randomly selected show from our library of shows - more shows will be added as they are digitized. You can view the entire collection here.

Sticky Notes Actions X

Charles Severance on 2008-08-26

Private X

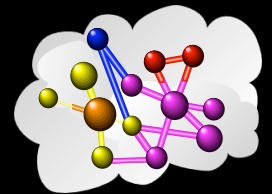
This bit ROCKS

Powered by Digo

click here to chat ^ x

Source Code for Hab.La Chat

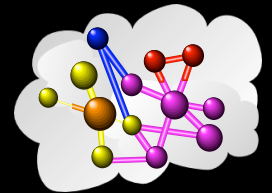
```
<script type="text/javascript" src="http://static.hab.la/js/wc.js"></script>  
<script type="text/javascript">  
wc_init("1302-2139933936-10-2739");  
</script>
```



CloudSocial is like Hab.La or Diigo

- Augmenting Web Pages with a bit of Javascript
- Menu hovers over the background document

```
<script type="text/javascript" src="http://www.cloudsocial.net/js/ile-main.js">
</script>
<script type="text/javascript">
  ile_init("ILE_33936-10-27_KEY");
</script>
```





navigation

- [Main page](#)
- [Contents](#)
- [Featured content](#)
- [Current events](#)
- [Random article](#)

search

interaction

- [About Wikipedia](#)
- [Community portal](#)
- [Recent changes](#)
- [Contact Wikipedia](#)
- [Donate to Wikipedia](#)
- [Help](#)

toolbox

- [What links here](#)
- [Related changes](#)
- [Upload file](#)
- [Special pages](#)



“La liberté n'a pas de prix.”

— Arnaud from Norway; donated 300 kr

(Freedom is priceless.)

[Donate Now »](#)

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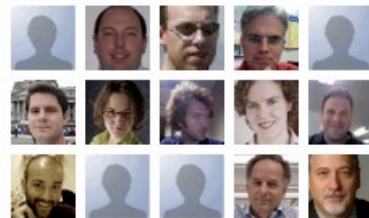
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traff

[Join](#) or [Sign in](#)

Members (15)



ets and discarding duplicate

The TCP/IP model (RFC 1122 [↗](#))

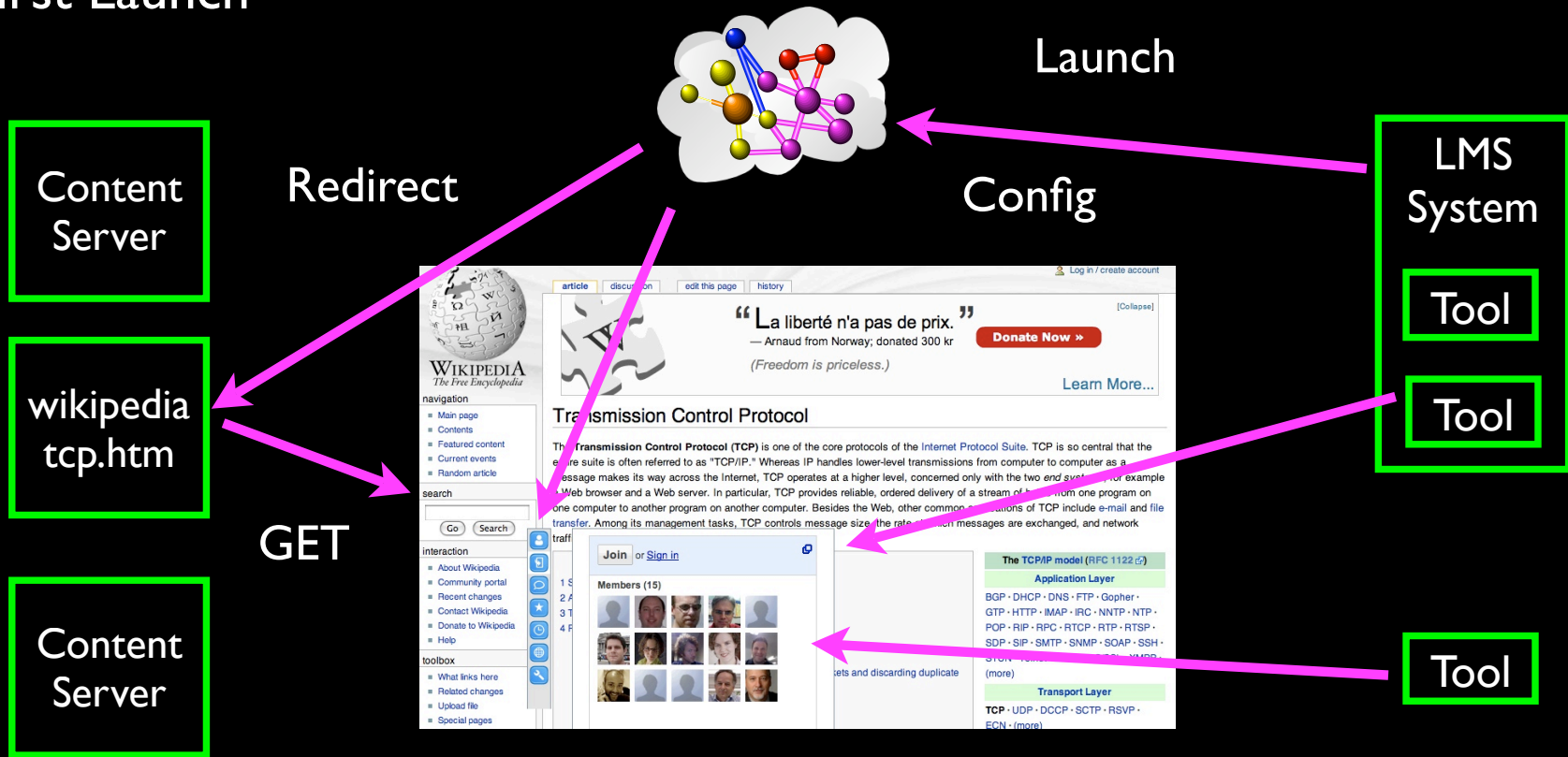
Application Layer

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Transport Layer

TCP · UDP · DCCP · SCTP · RSVP · ECN · (more)

First Launch



CloudSocial Session Established

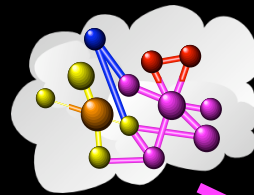
Switch to new page

Content Server

Content Server

Content Server

GET



Config

LMS System
Tool
Tool

Tool

M4 Therapeutics: Overview and Syllabus

Course Description	View	Read
Course Overview (Student Perspective)	NA	
Course Introduction		
Online Content		
Seminars		
Individual Research		
Grading		

Syllabus

Week Dates	Topics
Wk 1 Feb 11-17	Drug Development • ENT • GI • Infections I • Respiratory
Wk 2 Feb 18-24	Diabetes • Infections II • Pain • Polypharmacy • Transfusion & Thrombosis
Wk 3 Feb 25-Mar 2	Geriatrics • Pharmacogenetics • PM & R • Psychiatry • Seizure

Submit

I think that the student view is great. (csev@umich.edu) 2008-10-25 10:04:03

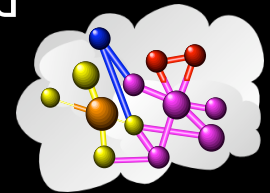
I like this page. (ted@umich.edu) 2008-10-25 10:03:11

Daniel Saddawi-Konekka (medical student) describes his experience of the course.

CloudSocial Session Established

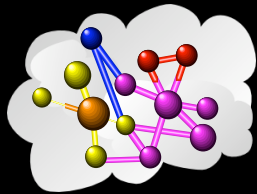
Technical Workflow

- User selects external content from within the LMS (or other system supporting groups of people)
- LMS contacts CloudSocial servers and establishes session context for user/course/institution combination
- User is redirected to the content
- Content contacts CloudSocial servers using Ajax/Javascript and pulls down menu for course and displays



Tool Context

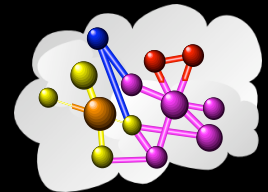
- Institution / Course / Role / User / Page
- Page context is optional
- Under control of instructor



A screenshot of a web interface showing a 'Submit' button, a text input field, and two comments. The first comment reads "I think that the student view is great. (csev@umich.edu) 2008-10-25 10:04:03". The second comment reads "I like this page. (ted@umich.edu) 2008-10-25 10:03:11". A vertical toolbar on the right contains icons for search, refresh, zoom, star, and back. The name "nerka (Medical Student)" is partially visible at the bottom.

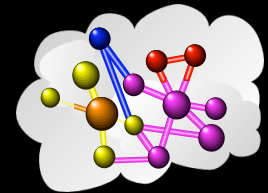
Learning Tools in the Cloud

- The CloudSocial servers only hold a tiny bit of tool configuration for a course - they are not the “LMS”
- If done properly, the tools that follow the user around the web can be running back on their campus.
- Think of a toolset from each of the major LMS vendors - this insures that sensitive data stays “back home” - and that the user experience is consistent with the rest of their learning
- The “embedded Moodle” toolset (kind of like Moodle blocks)



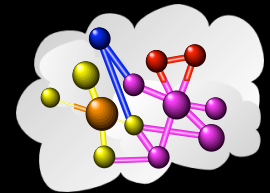
Underlying Technology

- This is all based on IMS Learning Tools Interoperability
 - LMS Launch to CloudSocial uses LTI
 - CloudSocial launching to individual tools uses LTI
- This means that a piece of content can be used with any LMS that supports LTI Producer.
- A mix of tools can be supported



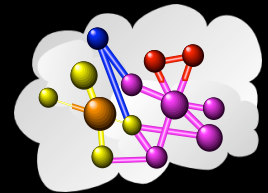
Distributed Learning Operating System

- The same content can be used by millions of students simultaneously - with each having a view that is controlled by their “course”
- A course launched from Moodle (or any LMS) could use all Moodle tools
- The learning data can be kept exclusively on a campus’s servers to comply with legal issues
- At the same time these launches can come from other social systems like LinkedIn or Facebook



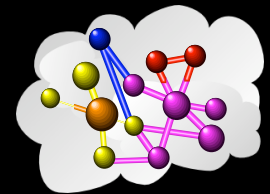
Challenges Ahead

- Build the technology
- Document the technology for ease of use and development
- Deploy CloudSocial services in a consortium model which is trusted and seen to be “owned by all” - like handle.net
- Convince content owners to use the technology



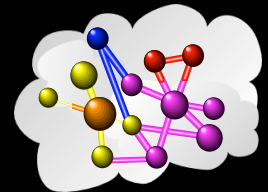
Possible Content Partners

- Open.umich.edu
- Publishers
- ConneXions
- EduCommons
- MIT OCW
- Wikipedia
- ???
- “Order matters”



Benefits

- Institution and instructors
 - Offers students richer learning experiences as we can't provide it all ourselves.
 - Allows us to "pave the footprints in the snow", that is we provide tools and content context where students are headed themselves.
- Students
 - Can carry this material with them in and out of formal educational experiences and over time.
 - Can be the basis for them providing learning experiences for others



Summary

- Inverts the relationship between content and LMS
- Put the LMS into the Content instead of putting the content into the LMS
- Allows millions of learners independently walking through content

