

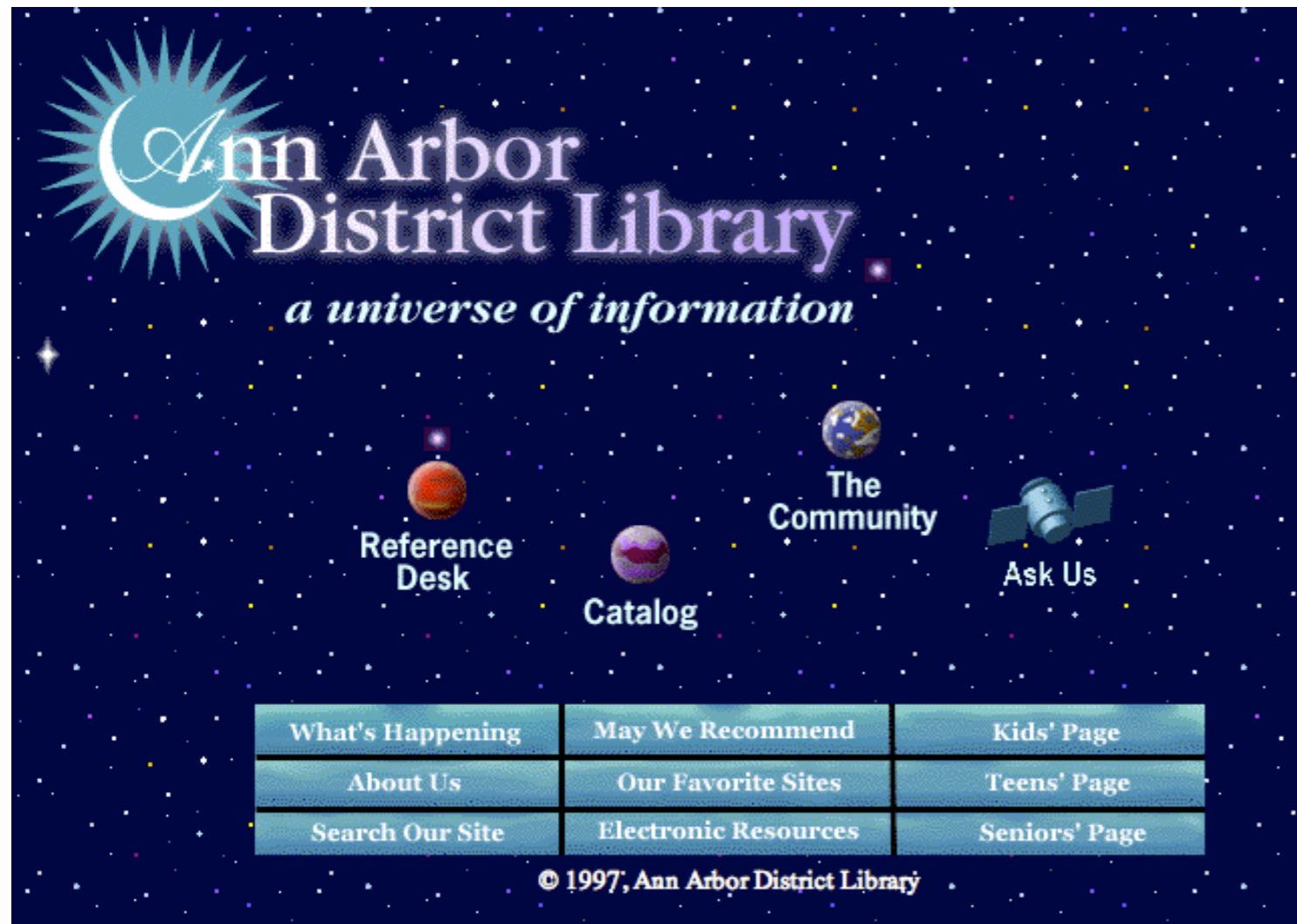
Ann Arbor District Library

Redesigning for an Information-centric Future

Topics

- Where did we come from?
- What does 'now' look like to AADL?
- Where are we going?
- Why are we going there?
- How do we get there?

The Roaring '90s (aadl.org 1.0)



- Flat html files
- I (heart) Dreamweaver!
- Oooh, animated gifs!
- Functional enough to replace the card catalog.

aadl.org 2.0

The screenshot displays the Ann Arbor District Library website. At the top left is the library's logo, a sun with rays, and the text "Ann Arbor District Library". To the right is a search bar with the text "Search the Catalog" and a "Go" button. Below the search bar are links for "renew an item", "my account", "ask aadlAnytime", and "computer classes". A horizontal navigation menu contains links for "books", "videos", "audio", "research", "events", "community", and "about us". On the left side, there is a sidebar with the "aadl Anytime" logo and links for "Live Answers 24/7", "Search the Catalog", "Branch hours & Locations", and "Tax Information". The main content area features a grey header for "District Library Election: June 14, 2004" with a link to "click here". Below this is another grey header for "Coming up at the Library..." followed by a featured event: "Lecture: Australian Author/Adventurer Cassandra Pybus Discusses 'The Woman Who Walked To Russia'" on Wednesday, June 16, 2004, from 7:00 PM to 8:30 PM.

- Userland / Frontier
- Database Driven (closed)
- Dynamic
- Early CMS

In the meantime...

- Network topology redesign
- Server hardware upgrades
- Database consolidation
- Software upgrades
- Migration to thin-client architecture
- Development of software libraries. (libaadl)
- Adopt open standards
- Strategic Planning sessions

Choosing a new CMS

- LAMP-based
 - Linux/Apache/MySQL/PHP
- Well Supported
- Respected
- Modular
- Extensive API
- Easily Themable
- Blog-based technology
- The Magic Spark

Enter: Drupal

- LAMP-based
- 100% modular
- Excellent API
 - API-centric project
- Large user-base
- Very active project

Enter: Drupal

- Well Documented
- High-quality programming
- Taxonomy-based organization
- Bloggable: comments, rss, etc...
- It has the Magic Spark!

aadl.org 3.0

The screenshot shows the aadl.org website with a navigation menu (ABOUT US, CATALOG, EVENTS, SERVICES, RESEARCH, CONTACT US, MY ACCOUNT) and a featured event section. The featured event is a book review for 'Galileo's Daughter' by Dava Sobel. The review text is as follows:

Books | Ann Arbor / Ypsilanti Reads
Submitted by [TimG](#) on Mon, 09/19/2005 - 1:58pm.

Ann Arbor/Ypsilanti Reads: Galileo's Daughter

This is one of three titles under consideration for this year's [Ann Arbor/Ypsilanti Reads](#), which will focus on Revolutions In Science: the people, theories, explanations and discoveries that challenged our thinking and changed the world.

The son of a musician, Galileo never left Italy, though his inventions and discoveries were heralded around the world. Most sensationally, his telescopes allowed him to revel a new reality in the heavens and reinforce the astounding argument that the earth moves around the sun. For this belief, he was brought before the Holy Office of the Inquisition, accused of heresy and forced to spend his last years under house arrest.

On the right side of the screenshot, there is a cartoon titled '#2004: THE MICROWAVE POPCORN--'. The cartoon shows a hand pouring popcorn into a microwave. A speech bubble says 'Yes!!' and a caption below says '--POPS COMPLETELY!!*'. At the bottom of the cartoon, it says '*THIS NEVER HAPPENS'. Below the cartoon is the text 'Featured Events'.

- July 5th 2005, 3.0 went live along with a new automation system

What did you think of this book? Tell us!

[4 comments](#) | [read more](#)

aadl.org 3.0



Books | Events | AXIS | Malletts Creek | Teen Read Week | Teens

Submitted by [Edith Wharton](#) on Sat, 10/15/2005 - 10:27am.

Fruits Basket Discussion Thread

In honor of the [Fruits Basket](#) discussion at [MC Otakon](#), I want to share some [Chinese Zodiac](#) resources. Find out about your sign!

I also want to note that as of now, this Wednesday's program is full.

Websites after the jump.

[3 comments](#) | [1 new comment](#) | [read more](#)

← Ability to cross-post
blog entries inside
multiple taxonomies

↖ Configurable interwiki
links to catalog items,
wikipedia, wherever.

↖ Metafilter-style commenting.
Make your users work for
you!

RSS feeds for all blogs

Catalogablogging...

aadl.org 3.0



107

Totoro. 2

San Francisco, CA : VIZ, 2004.
1 copy available at Downtown Youth, NEW

Request this title

Summary / Annotation
School Library Journal Review
[Permalink]

2004



Permalinks

Easily accessible
Syndetics links

To Do:
bib. item-level
blogging and
patron
comments.

Hitlist integration

aadl.org 3.0

Browse Events

By Location...

Downtown
At Malletts Creek
At Northeast
At West
[List All Events...](#)

By Type...

Storytimes
Playgroups
Arts & Crafts
Film Events
Exhibits
Lectures
Tournaments
More Types...

By Subject...

Book Events
Music Events
Art Events
Manga Events
Videogame Events
More Subjects...

By Age...

Events for Babies
Events for Kids
Events for Teens
Events for Families

The Events Engine: A
centerpiece of our
information-integration
strategy

Today at the Ann Arbor District Library



Super Smash Brothers Tournament for Age 13-Adult

Friday October 21, 2005: 6:30 pm to 9:00 pm – Downtown Library Multi-Purpose Room

For age 13 to Adult

Test your skill! Duke it out!! Are you good enough to win? Join Mario and some of the best players in the Ann Arbor area for this frenzied tournament! These Tournaments have been extremely popular at the Library. Join the fun!

aadl.org 3.0

Account Information

Library Card Number	[REDACTED]
Items checked out	3
Fine Balance	\$0.00
Card expiration	Jul 01, 2010 (1713 days)

Items Checked-out

Select	Title	Due Date	Call Number
<input type="checkbox"/>	Roll away the stone [sound recor...	Nov 03, 2005	CD 784.4 Phelps 1
<input type="checkbox"/>	Gran riserva [sound recording] /...	Nov 03, 2005	CD 784.8 Dzihan 2
<input type="checkbox"/>	Because nothing looks like God /...	Nov 15, 2005	J 292.11 Ku

Renew Selected Items

Renew All Items

Requests and Holds

Select	Title	Cancel Date	Pickup Location	Status
<input type="checkbox"/>	Knife of dreams / Robert Jordan.	Aug 30, 2006	Downtown Library	(3 of 19 HOLDS)
<input type="checkbox"/>	When it falls [sound recording]...	Sep 02, 2006	Downtown Library	(1 of 16 HOLDS)
<input type="checkbox"/>	The richest man in Babylon [soun...	Sep 02, 2006	Downtown Library	(3 of 11 HOLDS)
<input type="checkbox"/>	The mirror conspiracy [sound rec...	Sep 02, 2006	Downtown Library	(2 of 11 HOLDS)
<input type="checkbox"/>	The Outernational Sound [sound r...	Sep 02, 2006	Downtown Library	(2 of 9 HOLDS)
<input type="checkbox"/>	Simple things [sound recording]...	Sep 02, 2006	Downtown Library	(3 of 12 HOLDS)
<input type="checkbox"/>	Our endless numbered days [sound...	Sep 02, 2006	Downtown Library	(8 of 22 HOLDS)
<input type="checkbox"/>	Stop walking on eggshells / Paul...	Oct 12, 2006	Downtown Library	(2 of 2 HOLDS)
<input type="checkbox"/>	Shine eyed Mister Zen [sound rec...	Oct 19, 2006	Downtown Library	(1 of 1 HOLDS)
<input type="checkbox"/>	A new day at midnight [sound rec...	Oct 20, 2006	Downtown Library	(1 of 2 HOLDS)

Remove Selected Items

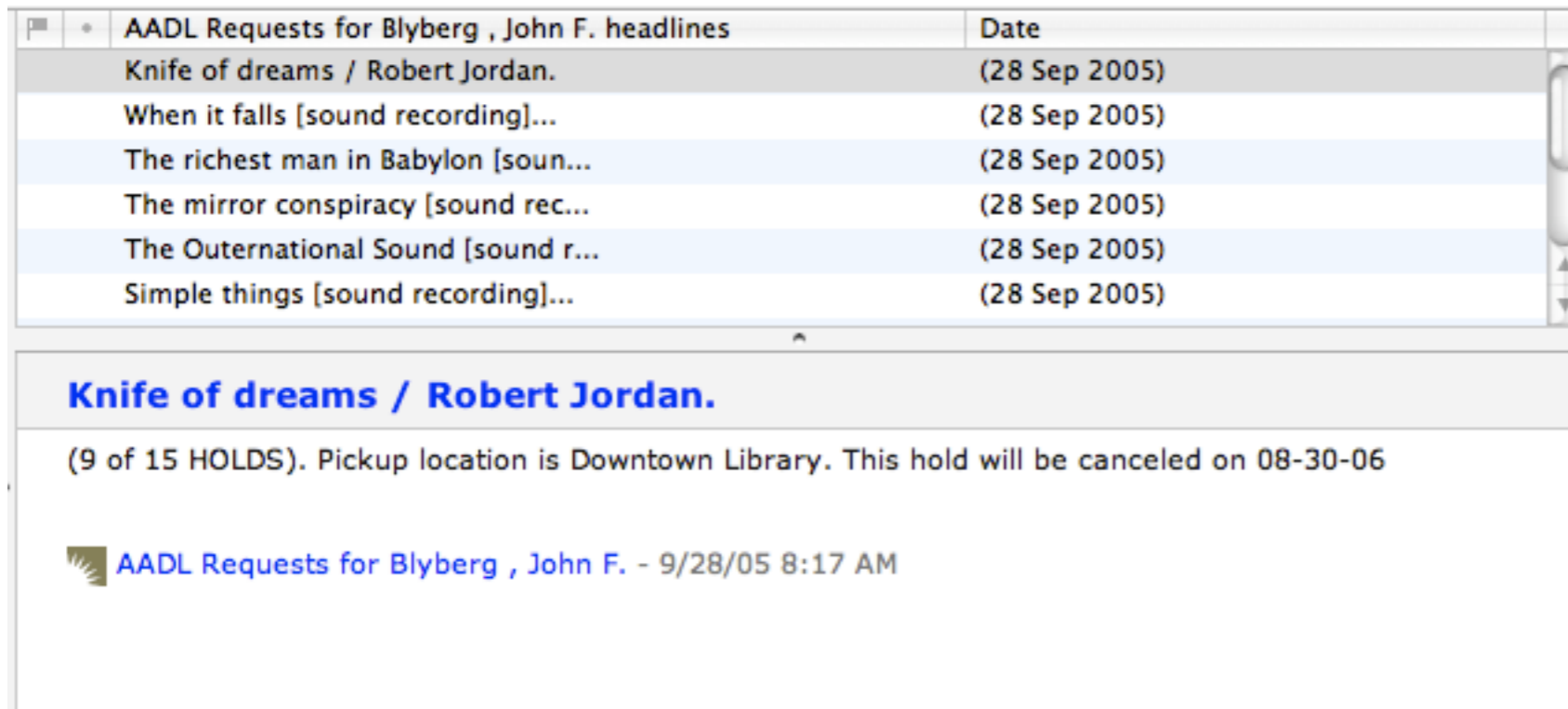
RSS

RSS Feeds of holds and checkouts.

RSS

my.aadl.org

aadl.org 3.0




The screenshot shows a NetNewsWire window with a table of AADL Requests for Blyberg, John F. headlines. The table has two columns: 'Date' and 'Date'. The first row is highlighted in grey and contains 'Knife of dreams / Robert Jordan.' and '(28 Sep 2005)'. The second row is highlighted in light blue and contains 'When it falls [sound recording]...' and '(28 Sep 2005)'. The third row is highlighted in light blue and contains 'The richest man in Babylon [soun...]' and '(28 Sep 2005)'. The fourth row is highlighted in light blue and contains 'The mirror conspiracy [sound rec...]' and '(28 Sep 2005)'. The fifth row is highlighted in light blue and contains 'The Outernational Sound [sound r...]' and '(28 Sep 2005)'. The sixth row is highlighted in light blue and contains 'Simple things [sound recording]...' and '(28 Sep 2005)'. Below the table, there is a section titled 'Knife of dreams / Robert Jordan.' in blue text. Below this section, there is a notification: '(9 of 15 HOLDS). Pickup location is Downtown Library. This hold will be canceled on 08-30-06'. At the bottom, there is a small icon and the text 'AADL Requests for Blyberg, John F. - 9/28/05 8:17 AM'.

	Date
Knife of dreams / Robert Jordan.	(28 Sep 2005)
When it falls [sound recording]...	(28 Sep 2005)
The richest man in Babylon [soun...	(28 Sep 2005)
The mirror conspiracy [sound rec...	(28 Sep 2005)
The Outernational Sound [sound r...	(28 Sep 2005)
Simple things [sound recording]...	(28 Sep 2005)

Knife of dreams / Robert Jordan.

(9 of 15 HOLDS). Pickup location is Downtown Library. This hold will be canceled on 08-30-06

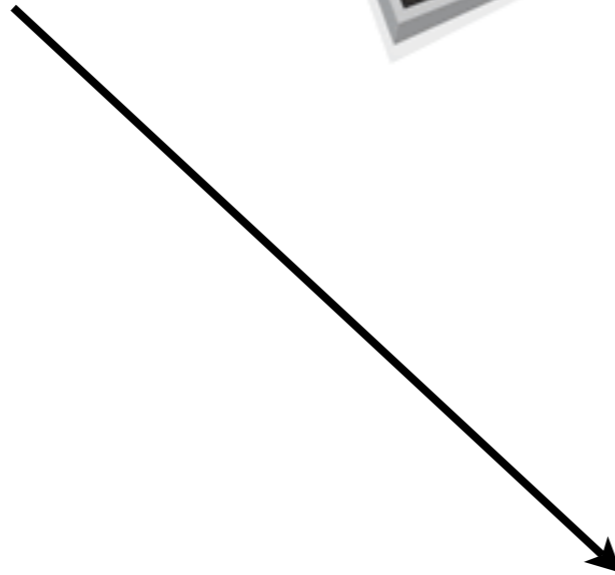
 AADL Requests for Blyberg, John F. - 9/28/05 8:17 AM

Requests and Holds feed
displayed in NetNewsWire.

aadl.org 3.0

Does this new approach work?

Don't take my
word for it...



AXIS | Teens | AADL-GT

Submitted by [eli](#) on Thu, 09/29/2005 - 4:25pm.



AADL-GT Round 2 Results

The 2005 season thunders on, and round 2 fulfilled expectations, with intense competition, increased controversy, and a solid 100+ turnout. Registration enhancements helped us get everyone checked in faster, and putting food and a TV outside the room was a big hit, decreasing the congestion and making more room for everyone.

The Mario Kart single-player event kicked off with 83 competitors, and a new split-screen approach, with two races going on at once. Everyone got 3 qualifying races, which unfortunately still took forever, and after a tiebreaker, the top 32 advanced to the quarterfinals. The semifinals got us down to a final 8 person race, with [Doomblaze](#) taking First place, [jlgelinas](#) taking second, veteran [MiniBlin](#) taking third, and Black Shark Clan's [Nick11](#) taking 4th, all getting a trip to the Surprise round, and to the grand championships in december. Read on for more!

[267 comments](#) | [7 new comments](#) | [read more](#)

A peek behind the curtain

- We needed a way for Drupal to interact with ILL
- We wanted at least the appearance of fluidity between Drupal and the catalog
- We absolutely needed a seamless integration of Drupal user accounts and ILL patron accounts
 - Checkouts, holds, reading histories, fine payment, patron info, etc...
- ILL provides no supported way to do any of this

Rolling our own: What III Provided

- Patron 'API'
 - Returns patron info
 - Tests a pnum/cardnum and pin combination
- Modifiable screen files
- wwwoptions

Taking it apart

- Ill catalog was essentially turned into an application server
- All non-essential html was stripped from the screen files
- Unnecessary wwwoptions were disabled
- Added custom tags to pinpoint vital data

<geek>

Consuming with CURL

- CURL: Client URL, allows software to communicate with many different types of servers using different protocols.
- PHP has native libcurl support.
- Using CURL, we were able to consume web pages from the stripped-down IIS server.
- By parsing the output with our custom tags we were able to reliably return any data set we wanted.

</geek>

The Wrapper

- The result is a software library that allows us to fetch and update patron information, run catalog queries etc...
- Because its a PHP5 class, it's essentially stand-alone software.
- Integrating Drupal was now only a matter of instantiating the API
- A single Drupal module handles all Drupal-to-III functionality

But seriously...

- We should not have had to do what we did!
- Automation system vendors should provide APIs in the form of web services
 - SOAP
 - XMLRPC at the very least

Designing for the future: Making data portable

- Make OOP design a requirement: take the time to create a foundation before you create the product
- Don't program yourself into a corner
- Practice scalable database design
- Use open-source platforms
- Always ask, "What else can I do with this data?"

A case study in portable data: AADL-GT

- AADL-GT is AADL's wildly successful gaming tournament program.
- Between 70-120 participants routinely show up for tournaments.
- We needed software

A case study in portable data: AADL-GT

AADL-GT

Your Player Information [[EDIT](#)]

Full Name: John Blyberg
Nickname: [Sandoz](#)
Short Nickname: Oz
Age Group: Adult
Clan Affiliation: [SET UP A CLAN](#)

Upcoming Events

Open Super Smash Brothers: Melee Tournament
October 21, 2005, 6:30 pm @ Downtown Library Multipurpose Room
For players in the **13plus** age group
Pre-registration status: NOT REGISTERED

[Register](#)

First, we created the GT class software, creating a Drupal module was then academic.

A simple method of registering players was essential.

A case study in portable data: AADL-GT

Clan Setup

Clan Name:

Enter your desired Clan name

Primary 2:

Select Your Clanmate (PLEASE DO NOT REGISTER WITHOUT PARTNER'S PERMISSION)

Primary 3:





Select Your Clanmate (PLEASE DO NOT REGISTER WITHOUT PARTNER'S PERMISSION)

Primary 4:

Select Your Clanmate (PLEASE DO NOT REGISTER WITHOUT PARTNER'S PERMISSION)

[Register Clan](#)

Current Clan Leaderboard (Updated Live)

Place	Logo	Clan Name	Members	Total Points
1		Trouble Monkey Clan	<ul style="list-style-type: none">• Joe S• c0N• pr0• Darksoul	9180
2		Vaccinated Monks	<ul style="list-style-type: none">• Sir Ducksalot• Bubblingbeebies• Leinad• Major Tom	7420
3		Turtle Clan	<ul style="list-style-type: none">• TurtlePerson2• Bad driver• Bowser• Padouk	7410
4		Skillz dat killZ	<ul style="list-style-type: none">• Earnist Da Chicken• J's Coollo• Monkeyman• Doomblaze	6420
5		Super Shrooms	<ul style="list-style-type: none">• MiniBlin• Skippy• Ilgelinas• Vash	3140

You can imagine the discussion
clan-warfare encourages!

A case study in portable data: AADL-GT

Administering AADL-GT is a snap

AADL GT Admin	Events	Players	Registrations	Results
---------------	--------	---------	---------------	---------

Upcoming Events:

ID	EventName	StartTime	EndTime	Location	Modifier	NumQualifying
42	AADL-GT Round 1 : Mario Kart Single Player Race	August 20, 2005, 12:00 pm	August 20, 2005, 1:00 pm	Downtown Library Multipurpose Room	MarioKart	4

43 [ADD NEW PLAYER] Search Players

Current Players:

ID	DrupalID	FullName	NickName	ShortNick	AgeGroup	ReleaseForm	GCQual	EDIT
44 392	15610		Crossfire	Luck	Teen	0	0	[EDIT]
186	0		aaron	aron	Teen	0	1	[EDIT]
340	0		Piratey Critter	PCRT	Teen	1	1	[EDIT]
45 233	0		Abdalla	abda	Teen	0	0	[EDIT]
347	0		Skippy	Skip	Teen	1	0	[EDIT]

Current Events: [SHOW ALL]

156	10461	250	0	361	0	388	14671	228	0	198	12031
Open Super Smash Brothers: Melee Tournament											
October 21, 2005, 6:30 pm @ Downtown Library Multipurpose Room											
										Current Registrations = 77	Current Round = 2
										[REGISTRATIONS]	[RESULTS]
AADL-GT Round 3: Super Smash Bros. Single-Player Melee											
October 22, 2005, 12:30 pm @ Downtown Library Multipurpose Room											
										Current Registrations = 33	Current Round = 0
										[REGISTRATIONS]	[RESULTS]
AADL-GT Round 3: Super Smash Bros. Team Melee											
October 22, 2005, 1:30 pm @ Downtown Library Multipurpose Room											
										Current Registrations = 14	Current Round = 0
										[REGISTRATIONS]	[RESULTS]
AADL-GT Round 3: Mario Kart Single-Player Race											
October 22, 2005, 2:30 pm @ Downtown Library Multipurpose Room											
										Current Registrations = 32	Current Round = 0
										[REGISTRATIONS]	[RESULTS]
AADL-GT Round 3: Mario Kart Team Race											
October 22, 2005, 3:30 pm @ Downtown Library Multipurpose Room											
										Current Registrations = 14	Current Round = 0
										[REGISTRATIONS]	[RESULTS]

A case study in portable data: AADL-GT

Current Single Player Season Leaderboard (Updated Live)

*Qualified for Grand
Championships

Place	Player Name	Total Points
1	<u>Hank</u>	691
2	<u>Adog</u>	681
3	<u>grif</u>	520
4	<u>Tomek</u>	520
5	<u>Drago</u>	420
6	<u>Dukes</u>	390
7	<u>Dave</u>	230
8	<u>Omokusaki</u>	220
9	<u>Brian Hiller</u>	200
10	<u>Stu</u>	160
11	<u>Evan</u>	130

- All scores are updated system-wide live as the event is taking place
- Our A/V technician is able to overlay up-to-the-minute scores on live TV as it's broadcast on municipal cable
- Scores are available via AMFPHP to a Macromedia Flash leaderboard projected in several rooms at once
- We can show scoring on our lobby plasma screen GreetSaver application
- A movie theatre advertisement containing the leaderboard can be automatically generated and uploaded nightly

What else are we looking into?

- Flash
- AJAX
- Sparkle / .NET
- SOAP services for patron access
- IRC
- Widgets

Thank-you!

Questions?