

MighTyV.com

See how Perl, Catalyst and CPAN made it easy for two people to build an award-winning website in four weeks.



Who are we?

Leo Lapworth



Léon Brocard



What is MighTyV?



What is MighTyV?

The screenshot displays the MighTyV website interface. At the top is the 'mighTyV' logo. Below it is a navigation bar with links: Home, Sign up, Sign in, About, and Blog. A secondary bar shows 'What's on now:' with links for TV, Radio, and TV and Radio by day (Today, Sun, Mon, Tue, Wed, Thu, Fri). A 'Browse:' section includes links for Films, BBC Highlights, BBC Favs, BBC Comedy, Most popular tags, Most popular programs, and Genre Tags.

The main content area is titled 'Listings for 2005-11-19'. Below this, a link says 'Sign in or sign up to set your own preferred channels.' The schedule is presented in a grid with channel logos (BBC ONE, itv 4, BBC TWO, itv 1, 4, five, 4, itv 2, abc1, BBC FOUR, BBC THREE) at the top. A 'Show morning schedule' button is also present.

The schedule grid shows programs for the dates 18, 19, 20, and 21. A tooltip for the 4 channel at 19:05 provides details for 'Alien Worlds':

4
Alien Worlds
In a unique experiment, some of the world's leading experts in astrobiology and astronomy - including scientists from NASA, SETI (Search for Extraterrestrial Intelligence) and Cambridge University - join together to explore the reality of alien life.

Channel	18:30	18:00	18:10	18:55	18:00	18:10	18:10	18:00	18:30	18:00	18:58	18:58
18	Strictly Come Dancing	The Water Margin	Time Team	What the Papers Say	Harry Potter: Behind the Magic	Unreported World 2005	Wild World of Records	Brat Camp USA	It's Good to Be	Rodney	This is BBC FOUR	Welcome to BBC THREE
19	National Lottery Jet Set	UFO	Snowmail	Backlash	The X Factor	Alien Worlds	Wife Swap	Harry Potter and the Chamber of Secrets	8 Simple Rules	Nove's Fludde	International Rugby Union	
20	Casualty	Timecop	Priest Idol	Auschwitz: The Nazis and the Final Solution	Who Wants to Be a Millionaire?	Dogfight: Mystery of the Red Baron			Hope & Faith	This Sceptic Isle	The House of Tiny Tearaways	
21	Strictly Come Dancing	Vengeance Unlimited	The Kid Stays in the Picture	Bodies	The X Factor	John Q	Scene Investigation	Greatest Movie Stars	Funniest Animals	Less Than Perfect	The Cinema Show	Beverly Hills Cop II

How did it start?



It almost didn't



Monday 25th July

BBC Announce the BBC Backstage competition

Deadline 5th of September



BACKSTAGE BLOG

First backstage.bbc.co.uk competition

July/Aug



Leon and Leo
have a life

So not entering
competition

Okay, so Leon
did TV::Anytime



Wednesday 31st Aug

BBC Announce extension to competition

New deadline 3rd Oct

We start coding in Braga



What was our aim?

Usable

Personal

Integrate

Feeds

Win

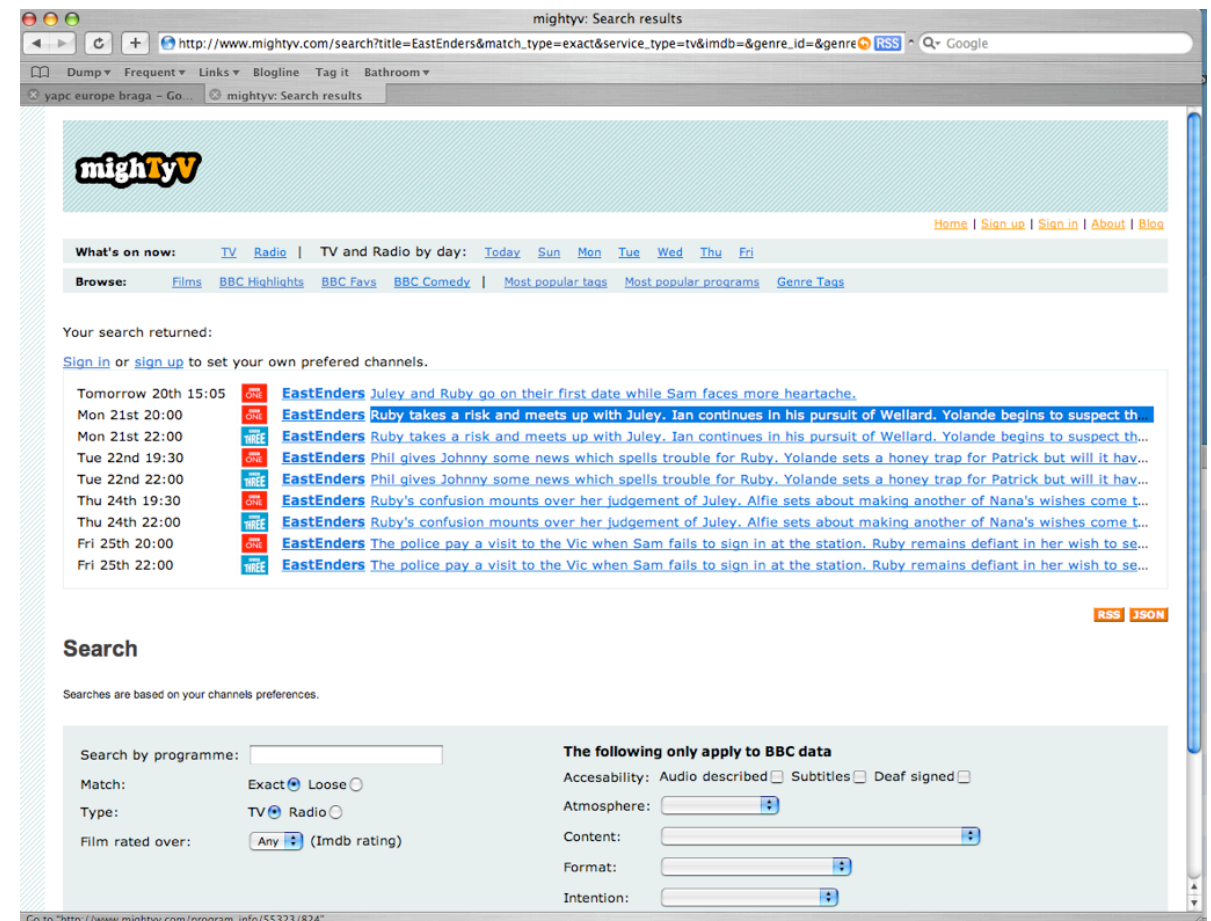
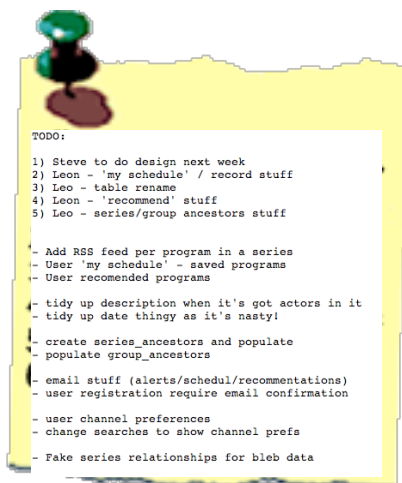
Sunday 4th Sept

First import of BBC & Bleb data
(Class::DBI)

Catalyst

Basic search

To-do list



Creating a Catalyst project

- > perl -MCPAN -e 'install Bundle::Catalyst'
- > catalyst.pl Braga
- > cd Braga
- > ./script/braga_server.pl

You now have a running Catalyst server

Check into version control system (svk)



Wednesday 7th Sept

User system

use Catalyst::Plugin::Authentication::CDBI

Saturday 10th Sept

IMDB ratings and link

‘what’s on now’ search

‘films this week’ search

RSS (XML::RSS)

Monday 12th Sept

Tooltips on 'Today's TV'

Auto-complete on the search
(HTML::Prototype)

Search

Searches are based on your channels preferences.

Search by programme:	wh
Match:	What Not to Wear
Type:	What the Papers Say
Film rated over:	What the Romans Did for Us
	Who Wants to Be a Millionaire?
	When the Romans Came to Wales
	Who Rules the Roost?

22:00 Without a Trace	22:00 TV Dramas That Changed the World	22:00  The Fifth Element
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The Fifth Element

Luc Besson's stunning, audacious science fiction thriller stars Bruce Willis as an ex-government agent, now reduced to driving a taxi in 23rd century New York. Into his lap falls the mysterious Milla Jovovich, a woman created from an alien cell who may be the only hope the world has of salvation from an ever-approaching evil. With Gary Oldman, Chris Tucker and Ian Holm.

Tuesday | 3th Sept

Add user ratings

Rate this program:

Rate this series:

Bart, Milhouse and Martin pool their resources to

Rate this program:

Rate this series:

- I must have this
- I like this
- ✓ I don't mind this
- I don't like this
- I never want to see this

Wednesday 14th Sept

Series page

Genre Tag cloud

(HTML::TagCloud)

Tags for series

Most popular tags tag cloud

Comedy Jon Snow Stephen Fry architecture
cartoon chat show chef cooking crime csi
current affairs dancing detective docudrama
drama fbi food football gardening history
hospital hugh laurie interview kids london medical
mocking music nature new york news off-air
panel game police politics property quiz quiz show
review satire Sci-fi science sitcom soap
spaceship sport sports topical US weather

Thursday 15th Sept













Rating for Series

Redesign database schema (watch out for this...)

‘your schedule’ (DateTime, DateTime::Span, DateTime::SpanSet).

Your schedule

Programs you want to record:



Today 19th 16:00		Monk Mr Monk and the Game Show: Monk is invited to spend a week with Trudy's father ... Do not record
Today 19th 17:10		The F Word The topical nine-part weekly food show hosted by Gordon Ramsay, aided an... Do not record
Today 19th 21:10		CSI: Crime Scene Investigation A connection is found between two very different cases... Do not record
Today 19th 22:10		Law & Order: Special Victims Unit A mother asks for Benson and Stabler's help in findi... Do not record
Today 19th 23:25		Ideal The Backpacker: Nicki is unhappy because her saucy polaroids have disappeared a... Do not record
Today 19th 23:50		 Stark Raving Mad Ben McGewen is heavily in debt and under presssure from a crime ... Do not record
Tomorrow 20th 16:45		Jamie's Great Escape Jamie Oliver is travelling across Italy to learn more about the co... Do not record
Tomorrow 20th 17:20		The View from River Cottage Hugh Fearnley-Whittingstall continues his retrospective as... Do not record
Tomorrow 20th 17:50		The F Word The topical nine-part weekly food show hosted by Gordon Ramsay, aided an... Do not record
Tomorrow 20th 18:55		Bremner, Bird and Fortune His master's voices, Rory Bremner and Messrs Bird and Fort... Do not record
Tomorrow 20th 21:00		Egypt The Temple of the Sands: The amazing adventures of the 19th century explorer Gi... Do not record

Saturday 17th Sept

Clashes








Recommendations (Search::ContextGraph)

Clashes:

Not recording	Sat 26th 23:25	Bill & Ted's Bogus Journey
Recording	Tomorrow 20th 17:50	 The F Word
	Tomorrow 20th 18:55	 Bremner, Bird and Fortune
Record Bill & Ted's Bogus Journey instead		

Your recommendations

Based on program genre and tags - most-recommended programs are listed first.

Today 19th 19:00	 UFO A Siamese cat brings sinister drama to the life of a Shado pilot. Drama, starring Ed Bishop and Georg...
Today 19th 21:40	 Carrie and Barry Casualties: Carrie and Barry are in a car accident and recover in hospital. Carrie pieces t...
Today 19th 20:00	 Timecop Logan travels to 1956 Hollywood to prevent the murder of an actress destined to be the mother o...
Today 19th 23:05	 American Dad Roger Codger: Stan invites his boss over for dinner, but the Smith family fears getting cau...
Mon 21st 19:00	 3rd Rock from the Sun Mary finds out about Dick and Jennifer, just as he's losing interest in pursuing the ...
Today 19th 23:25	 Don't Watch That, Watch This 2/6. More comedy from the Don't Watch That, Watch This look-a-likes. Ge...
Fri 25th 17:30	 Friends Phoebe and Rachel suspect Chandler of cheating on Monica.

Sunday 18th Sept

Redesign database schema

Add series for EVERY program

Monday 19th Sept

Add EyeTV integration (Mac::EyeTV)

Redesign database schema... yes... again

Tuesday 20th Sept

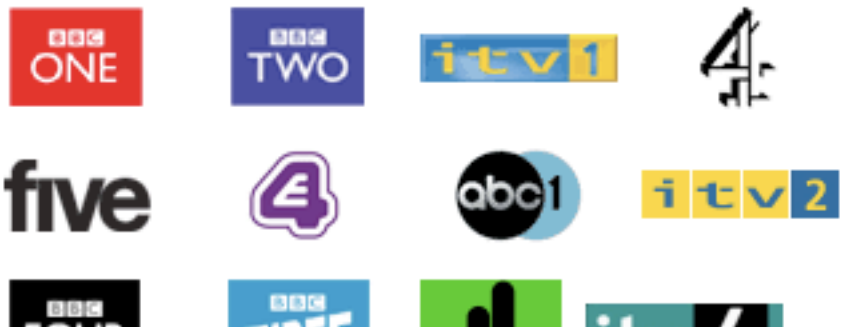
Customise channel list (using AJAX)

More RSS

Choose your channels


Drag from 'All channels' to 'Your channels', or from 'Your channels' to the trash to remove them.
[Reorder them here if you want](#)

Your channels:



Logos for selected channels: BBC ONE, BBC TWO, itv1, 4, five, 4, abc1, itv2, and others.

All channels:

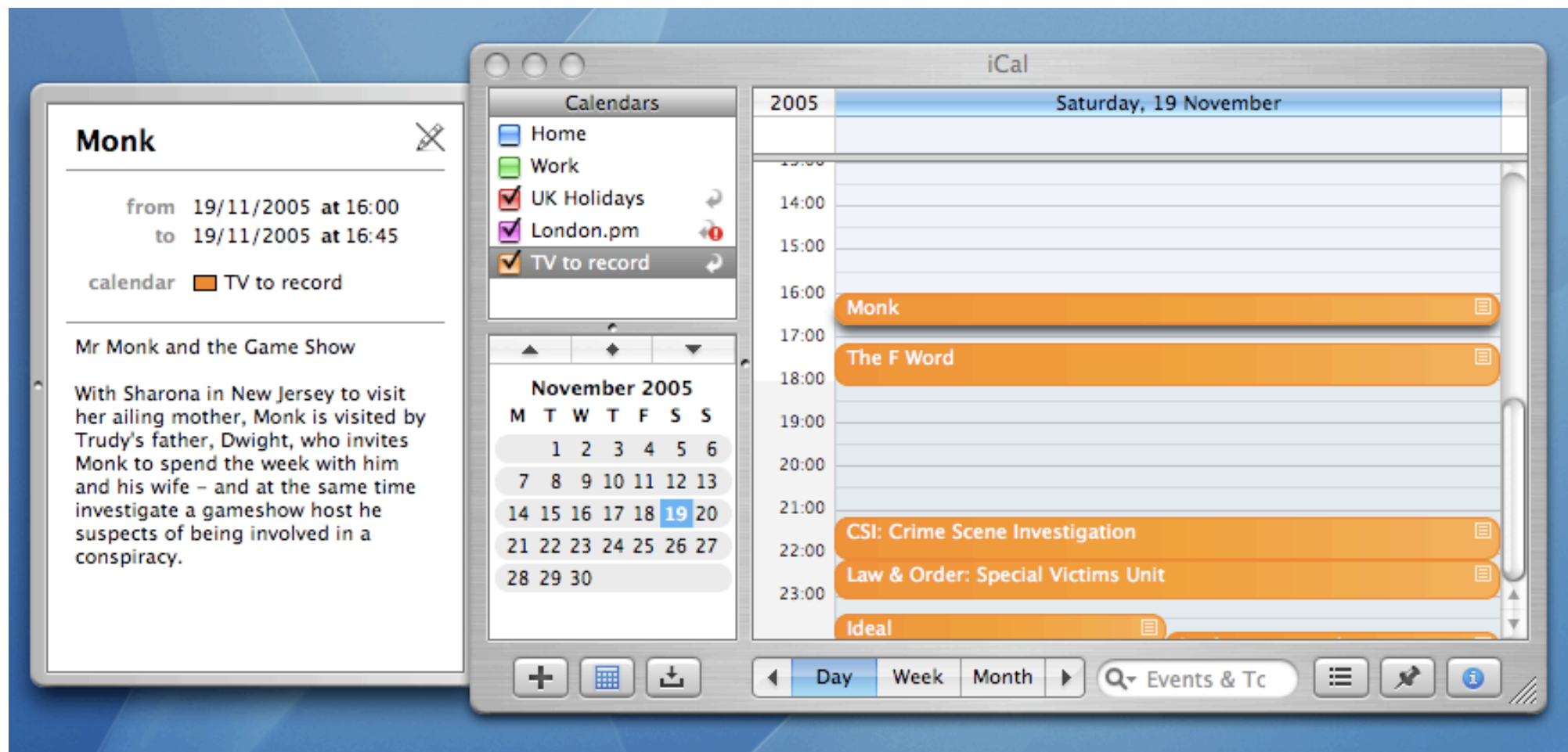


Logos for available channels: itv1, 4, five, abc1, Discovery, Discovery Kids, Disney, Ftn, itv2, itv3, LivingTV, and others.

Wednesday 21st Sept

Add iCal (Data::iCal::DateTime) and JSON (JSON) support

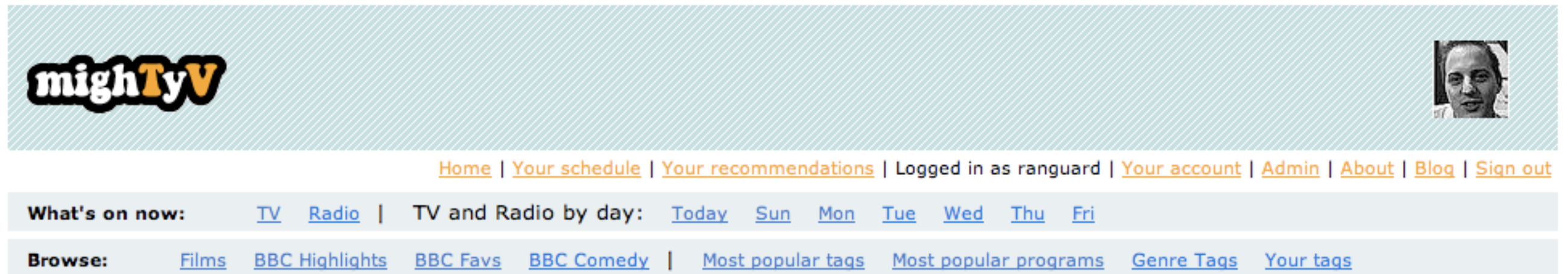
Wow, now almost everything had RSS and JSON support



Thursday 22nd Sept

Users can add their own photo

Timezones (the clocks were about to change)



Saturday 24th Sept

Add auto-complete for tagging

Tag this series:

hiphop

historical

history

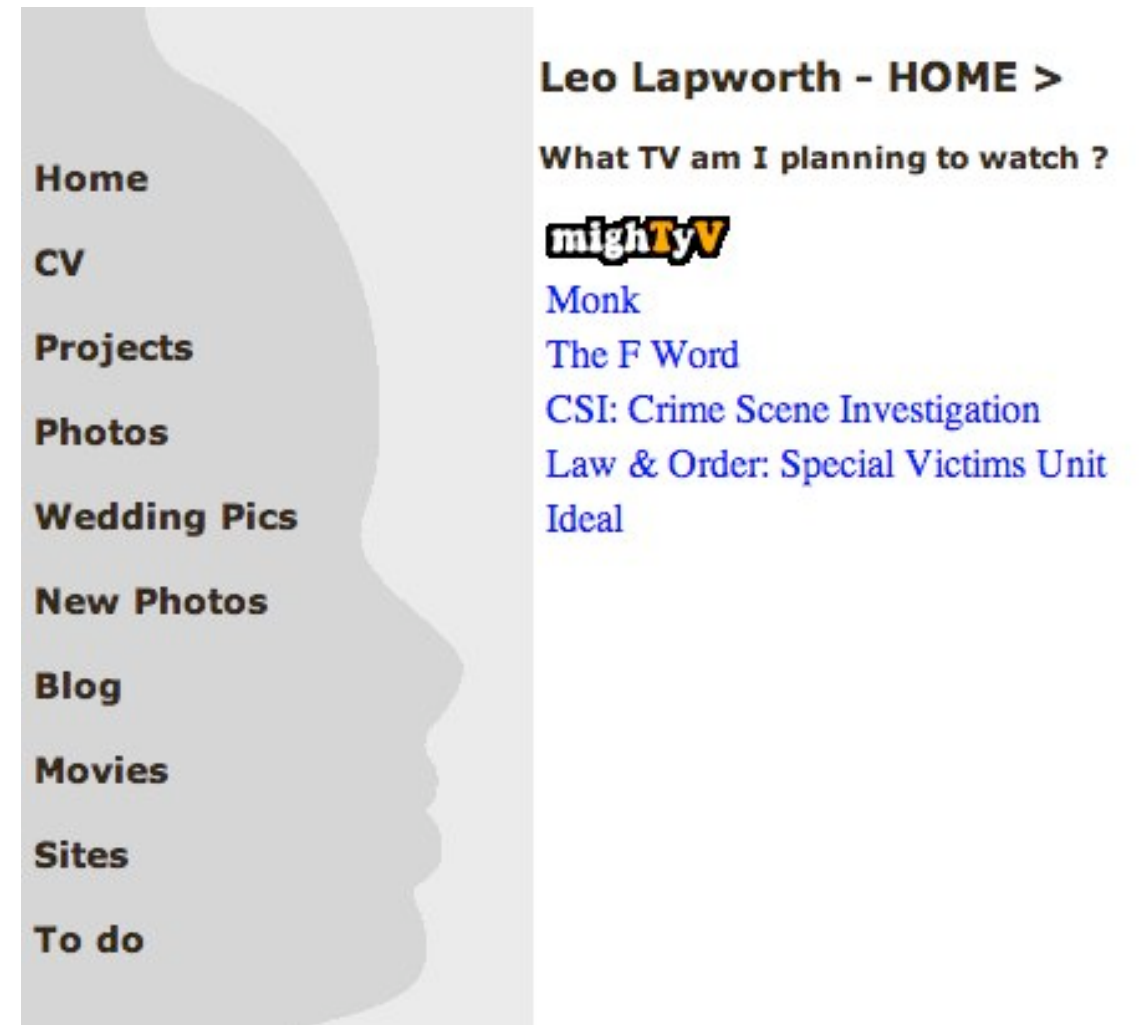
TAG IT

Monday 26th Sept

Delete tags

External Javascript schedule

Fix bugs (reported by our test users)



Tuesday 27th Sept

Start Blog

Order your channels (AJAX)

Choose the order of your channels

Drag them into the order you want.
[Add or remove some if you want](#)

	BBC One
	BBC Two
	ITV 1
	Channel 4
	Five
	E4

Thursday 29th Sept

Gmail snippets

Fix bugs (reported by our test users)

Friday 30th Sept

Add tag with spaces
“new york” (`Text::Tags::Parser`)

Monday 3rd Oct

Entered our entry to the competition

And then rested

Thursday 13th Oct

Now rested...

Add More 4 (new TV channel)

Wednesday 26th Oct

BBC announce that we won

BACKSTAGE BLOG

Backstage competition winners anounced

A while back now we asked you to submit ideas to rethink how to present TV and Radio listings using the TV anytime data and other relevant feeds.

The response was magnificent and thanks again to everyone who took the time and effort to submit entries. But on to the bit you really want:

The winners of the first Backstage competition are...




Leon Brocard and Leo Lapworth for

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

Monday 7th Nov

Added ITV 4

Highlighted recorded programs

21:40 Bodies	21:10 The X Factor 21:40 Parkinson	21:10  John Q	21:25  The Kid Stays in the Picture	21:10 CSI: Crime Scene Investigation
22:40 Family Guy	22:40 ITV News; Weather 22:54 London Weather 22:55  Austin Powers: International Man of Mystery			
			22:10 Law & Order: Special Victims Unit	

What we learned

Spend a bit of time upfront designing your database.

Imports are hard and take a long, long, long time to get right

Data is *always* bad, make *no* assumptions

Focus on what the user wants

Priorities..

CPAN Modules

- Catalyst
- Catalyst::View::TT
- Catalyst::Plugin::Authentication::CDBI
- Catalyst::Plugin::FillInForm
- Catalyst::Plugin::FormValidator
- Catalyst::Plugin::Prototype
- Catalyst::Plugin::Session::FastMmap
- Catalyst::Plugin::Static
- Catalyst::Plugin::SubRequest

Questions?

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