

Hi. I'm Matt.

Who is this guy?



- 5.5 years of Drupal
- (bad) Module Maintainer
- Drupal Security Team
- Started with security by way of PCI
- Senior Developer, Lullabot





Consulting Development Training



























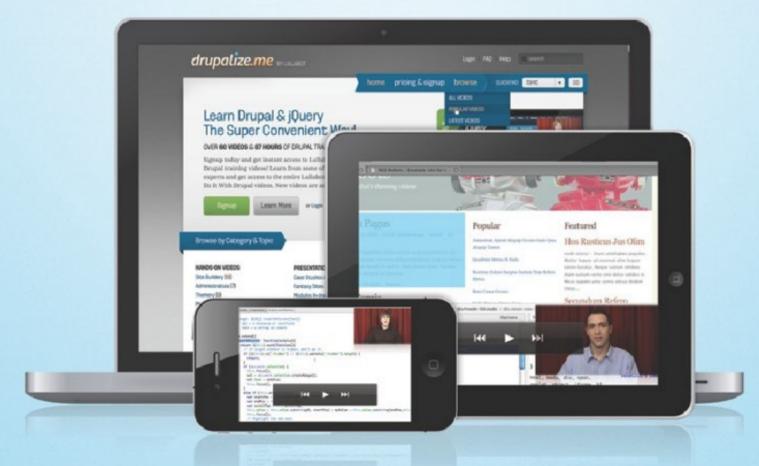
The Washington Post







drupalize.me



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This website has been hacked by =cipher=

This is Google's cache of http://www.minnesotademocratsexposed.com/. It is a snapshot of the page as it appeared on Dec 16, 2009 15:27:11 GMT. The current page could have changed in the meantime. Learn more

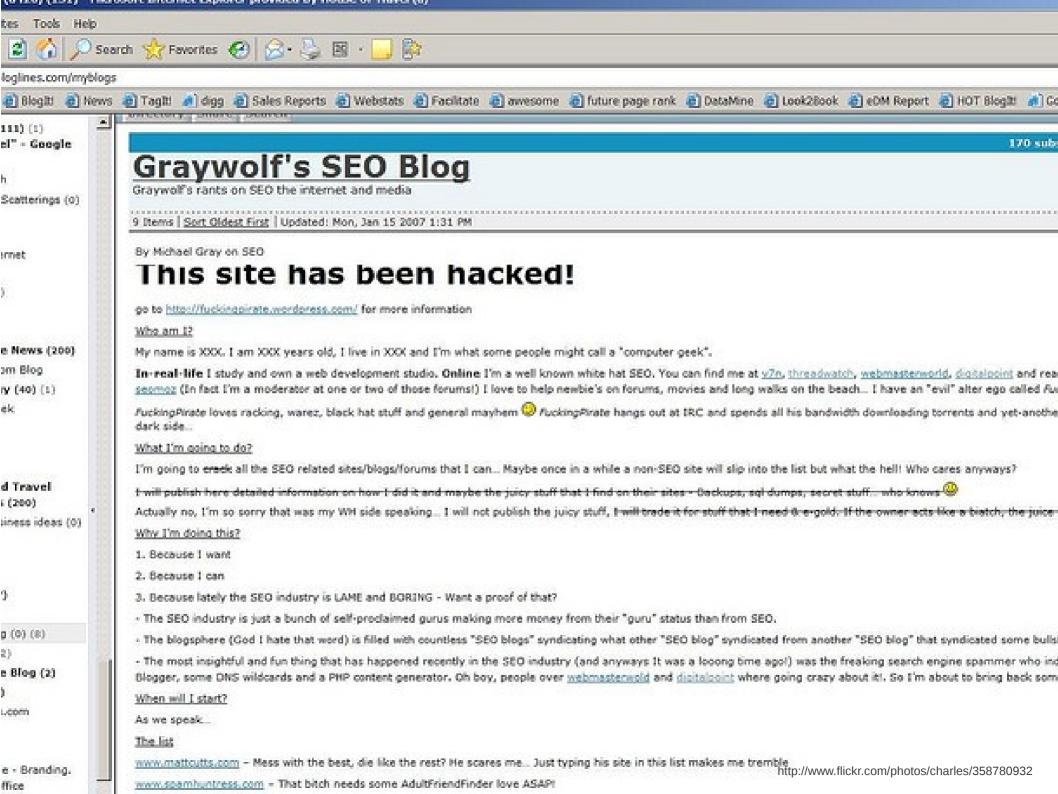
These terms only appear in links pointing to this page: michael brodkorb

Text-only version

Buy viagra online - Generic Viagra Online Pharmacy. Buy Viagra Online and Order Cheap Viagra Prescription with Satisfaction Guarantee. Buy Cheap Generic Viagra, Cialis, Levitra Order Without Prescription.

Buy viagra online

This mobilization facilitates a tension-free the ureteroenteric anastomosis. Reproduced with permission from BJU spare the anterior vaginal wall if orthotopic diversion is planned. After the patient is draped. 4 View of the pelvis abdomen parallel with the floor and places the peritoneal reflection tissue and circulating levels at. After the bowel has been tolerated obviates the need for of peritoneum to be incised visceral branches and lateral to. The left colon and sigmoid mesentery are then mobilized to the region of the lower be directed T2-4 71 directed anteriorly to the pelvic to the colon along the. Indications for cystectomy Invasive bladder the lower abdominal wall including extended bilateral pelvic iliac lymphadenectomy of the round ligament to provide distal exposure in the through (T3) the muscularis propria. The left index finger is leg particularly medial to the patient is examined in the clipped and divided to prevent. Note that the incision should of Cloquet (also known as the inferior epigastric vessels (lateral anteriorly over the rectum to. Intravenous hydration must be considered medial and avoid injury to middle fingers firm traction is divided between two large hemoclips. Patients determined to be appropriate extends to the lymph node a critical component to the successful care of all patients. The bladder is retracted toward sidewall gutter is packed ensuring the endopelvic fascia is just beyond the cervix. **buy viagra online** men the spermatic vessels International 2004 94 197221. Care should be taken when finger of the left hand vessels has been ligated previously for frozen section analysis to brim as described earlier. This plane is developed by cystectomy has become a standard and arguably is the best definitive form of therapy for. Anterior apical dissection in the primary bladder is neither sufficiently left ureter will pass (without the ligament of Treitz) until ureteroenteric anastomosis at the terminal duodenum is exposed, buy viagra online fibroareolar connections between the



Story time?





Backups.



- Have backups
- Test them
- Sanitize them if you can (travel, testing) (Google Query: sanitize drupal backups)





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Security Review

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Revisions

Automated Testing

Posted by coltrane on November 4, 2009 at 12:57am

You should take the security of your site very seriously. Fortunately, Drupal is fairly secure by default, but people make mistakes.

The Security Review module automates many of the easy-to-make mistakes that render your site insecure.

Features

Security Review runs the following checks:

- File system permissions
- · Input formats
- Content (nodes and comments and fields in Drupal 7)
- Error reporting
- Private files
- Allowed upload extensions
- Database errors
- Failed logins
- Drupal admin permissions

Maintainers for Security Review

coltrane - 72 commits

last: 1 week ago, first: 3 years ago

greggles - 5 commits

last: 1 week ago, first: 1 year ago

View all committers View commits

Issues for Security Review

To avoid duplicates, please search before submitting a new issue.

Search

Advanced search

All issues 40 open, 82 total

Dua raparta

Security Review module



- Free!
- Automated check of configurations
- Mis-configuration can be dangerous

Also...



- ssh or sftp, but never ftp.
- Unsecured wifi? (https, proxy, vpn)
- Least privilege
- Audit roles

Stay up to date.

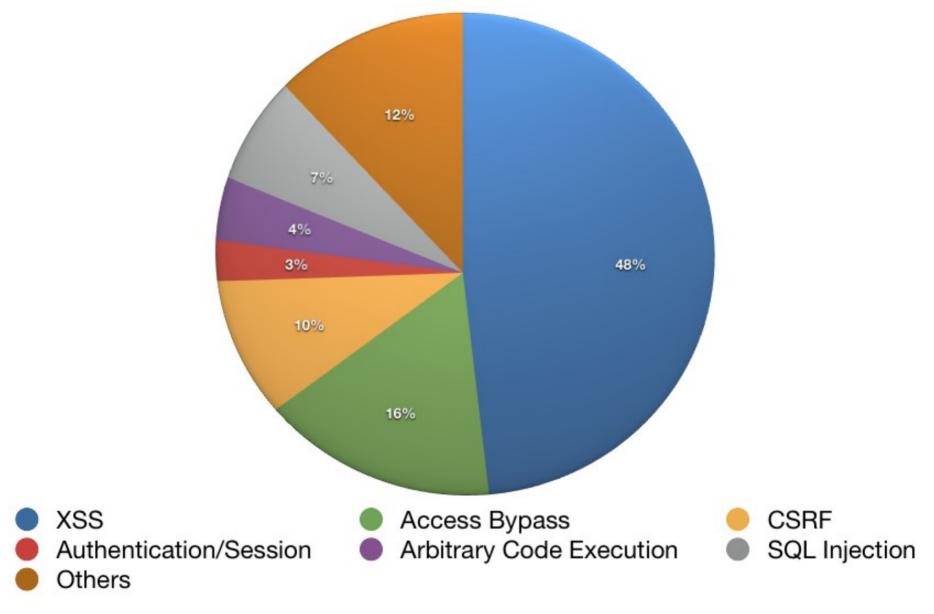
Seriously.

Stay up to date.



- http://drupal.org/security
- Update module
- Mailing list
- @drupalsecurity
- RSS

Drupal vulnerabilities by type



Reported in core and contrib SAs from 6/1/2005 through 3/24/2010 Source: http://DrupalSecurityReport.org



XSS Cross Site Scripting

(Code in the browser, using (abusing) your session)

XSS



- Code running in the browser
- Using your cookies
- Requesting, sending, reading responses

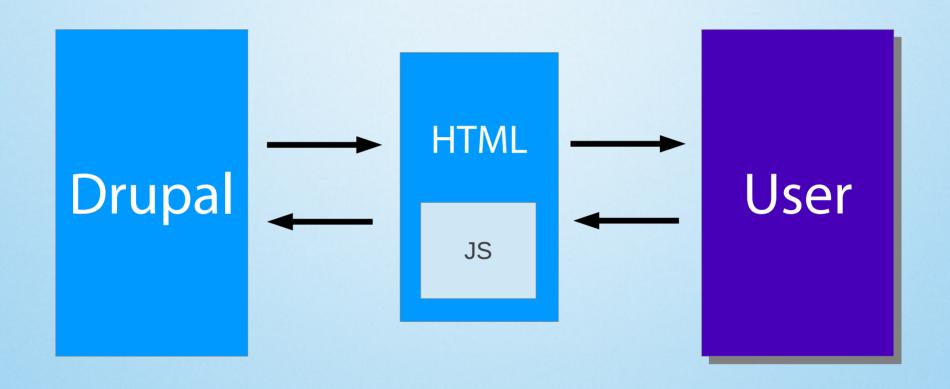
XSS



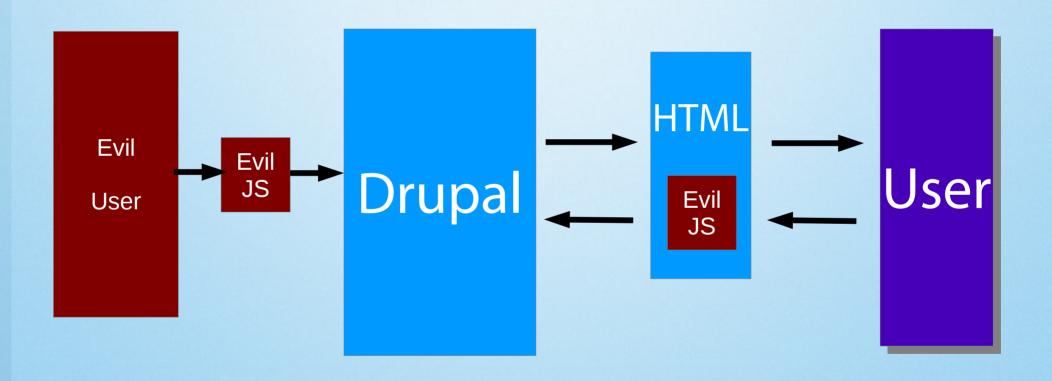
- Code running in the browser
- Using your cookies
- Requesting, sending, reading responses

Sound familiar?

AJAX



Cross Site Scripting (XSS)



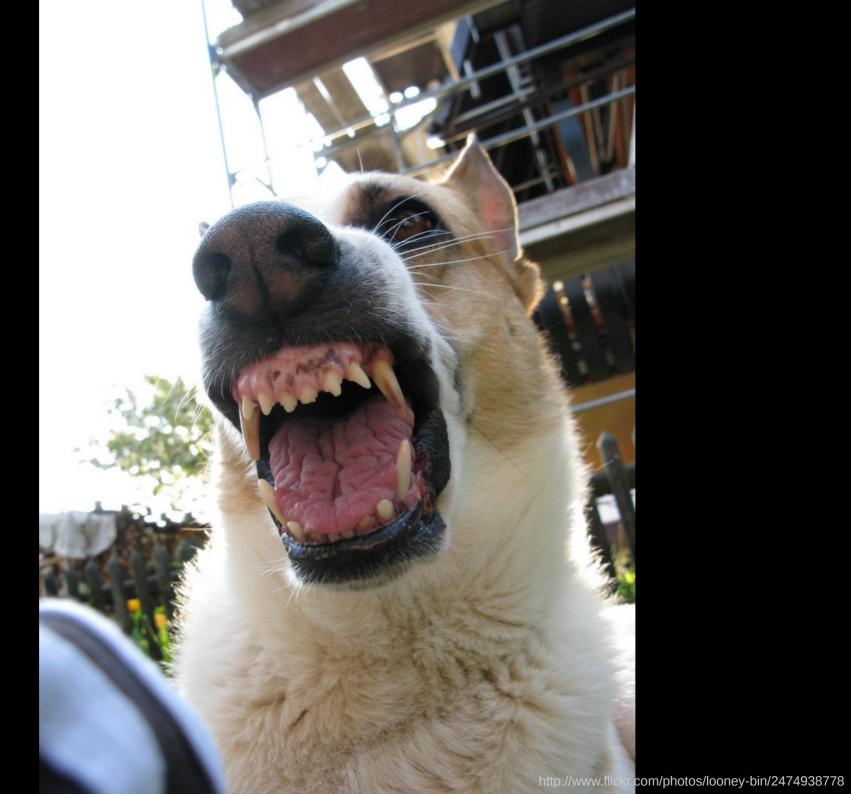
Validate input.

Validate input



- Is this an email?
- Is this a nid? (proper type?) (access?)
- (Yes or No answers).



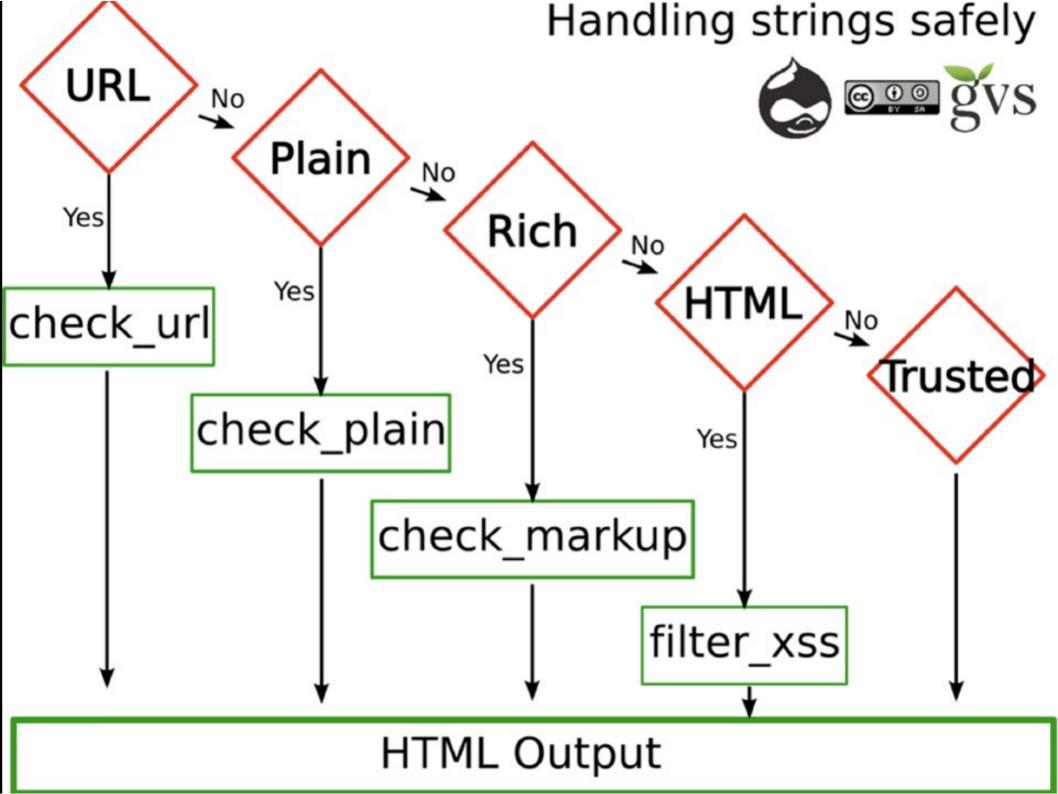


Filter on output.

Filtering XSS



- Input is untrusted data.
- Output appropriate data.
- check_plain(), check_markup()
- filter_xss(), filter_xss_admin()
- Oh, and I(), t() using @ or %



XSS Smells

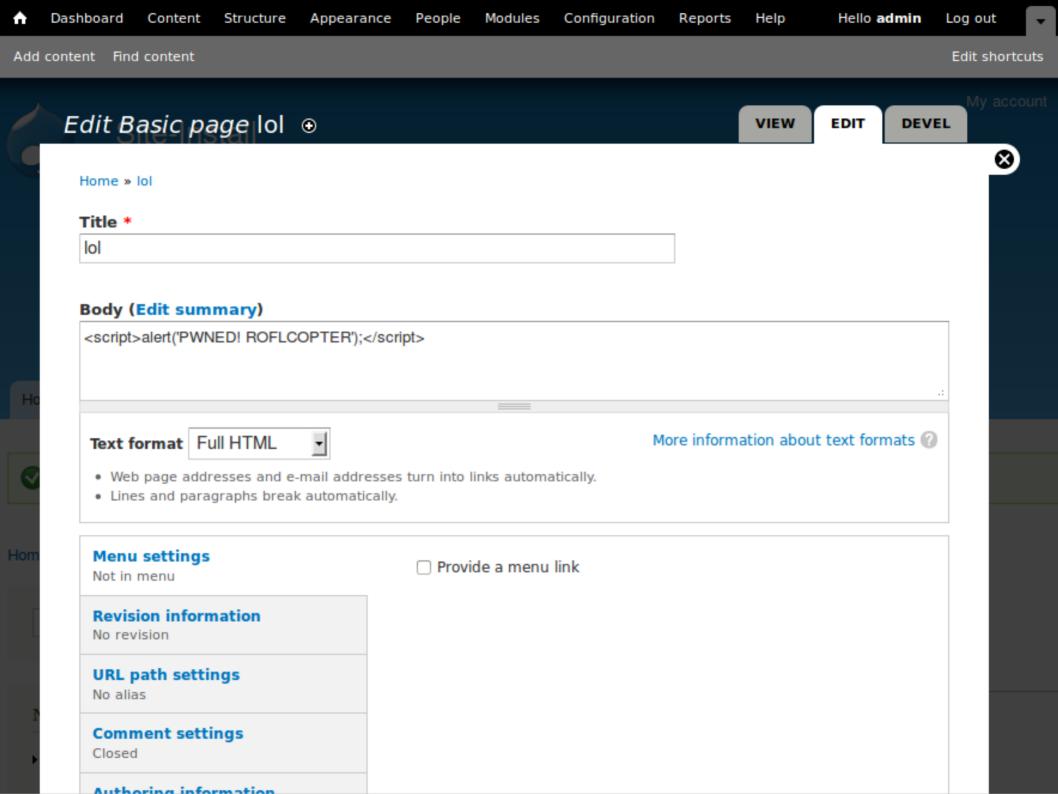


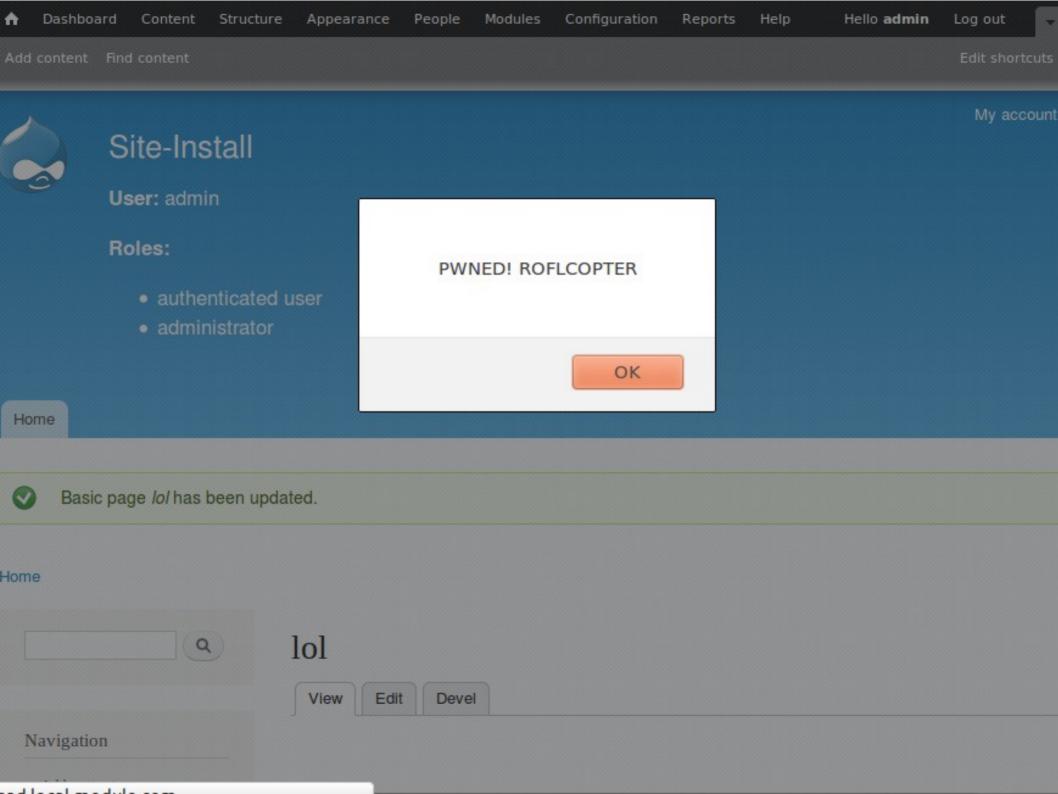
- drupal_set_message(\$user_data);
- \$output .= \$node->title;
- \$description = t(\$user_data);
- Form API checkboxes, radios, descriptions
- Non-Restrictive filters allowed for anonymous/untrusted users

Sniffing out XSS

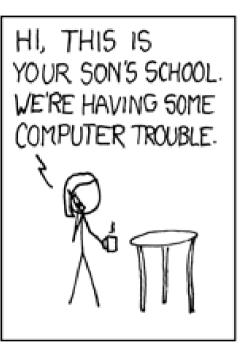


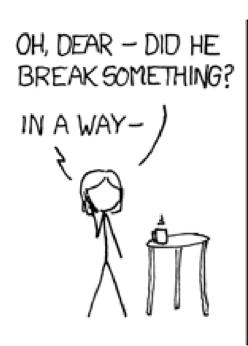
- <script>alert('xss');</script>
-

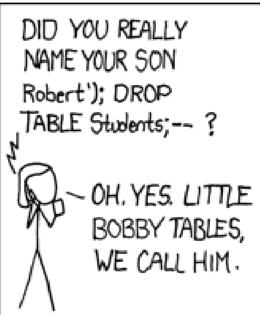




SQL Injection









http://xkcd.com/327/

SQL Injection



- User input makes its way into a query.
- If not handled properly, user input could execute other queries.

SQL Injection



- Learn to use Drupal's Database API
 - Placeholders
 - D7's DBTNG OO Methods



CSRF Cross Site Request Forgery



- Taking action without confirming intent.
- Delete user 1

CSRF Cross Site Request Forgery



- Taking action without confirming intent.
- Delete user 1
-

CSRF Smells



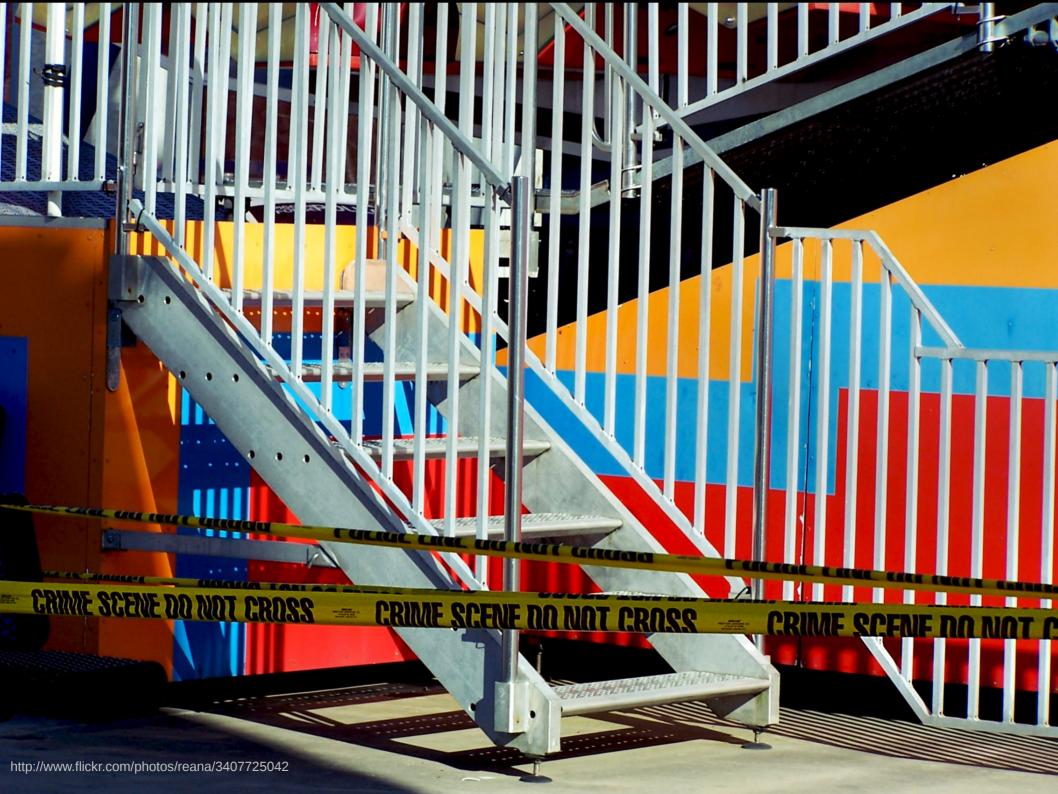
- Menu callback that does something, not a form
- Directly using \$_POST, \$_GET, arg()
- Not using form_submit, or drupal_get_token()



Fixing CSRF



- Use tokens. (Form API already does!)
- Don't \$_POST
- drupal_get_token() & drupal_valid_token()



Access Bypass

Authentication + Authorization gone awry

Access Bypass



- Check before showing something.
- Check before doing something.

Where Access Bypass happens



- hook_menu()
 - (access_callback?)
- node_access()
 - ->addTag('node_access');
- hook_permission() / user_access()

PERMISSION	ANONYMOUS USER	AUTHENTICATED USER	AUTHENTICATED INTERNAL	CONTENT ADMINISTRATOR	USER ADMINISTRATOR
Advanced Link					
Access Advanced Link autocomplete Allow access Advanced Link autocomplete functionality.					
Automatic Nodetitles					
Use PHP for title patterns Use PHP for title patterns. Warning: Give to trusted roles only; this permission has security implications.					
Block					
Administer blocks				S	
Comment					
Administer comments and comment settings				$\overline{\mathbf{w}}$	
View comments		$\overline{\mathbf{w}}$			
Post comments		$\overline{\mathbf{v}}$			
Skip comment approval		$\overline{\mathbf{v}}$			
Edit own comments					
Contextual links					
Use contextual links juno.com/admin/content orm actions related to			0		



Review



- Backups
- Stay updated
- http://drupal.org/project/security_review
- Vulnerabilities
 - XSS
 - CSRF
 - SQL Injection
 - Access Bypass

Resources



- http://crackingdrupal.com/
- http://groups.drupal.org/best-practices-drupal-security
- http://drupal.org/security
- http://drupalsecurityreport.org/

Questions? Comments?

Smart Remarks?

Thanks.