Google SEO Tools Help to Optimize Drupal Video Site



Lead Drupal Developer Master's Degree in Computer & Information Sciences KidsInTheHouse LLC







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- 1. Background: Google Analytics shows traffic drop-down
- 2. Google Webmaster tools: crawl errors and error fixing
- 3. Google PageSpeed Insights
- 4. Image optimization
- 5. Enable compression: gzip compression on web server
- 6. Remove render-blocking JavaScript
- 7. Use asynchronous versions
- 8. Leverage browser caching

9. Site speed - improve site speed - too many JS & CSS files

10. Google WMT: International targeting - set language





Topics (continue..)

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11. Build sitemap & submit it to Google for indexing

12. Build video sitemap & submit it to Google for Indexing

13. Google Analytics and site search tracking

14. Tracking goals in Google Analytics

15. Google Webmasters and VideoObject errors

16. Google Search console: mobile usability errors

17. Google Site Search

18. Always HTTPS: secure version of HTTP

19. Migrate Videos from BrightCove to Amazon AWS

20. Questions





Background: Google Analytics shows our website traffic dropdown

Our Website <u>www.kidsinthehouse.com</u>

- **4** Educational website aims to help parents and caregivers
- **4** This resource contains over 9,500 videos 450 leading parenting experts.
- Experts including doctors, pediatricians, psychologists, educators, best-selling authors, celebrities, and parents themselves.

Web Architecture

- Drupal 7 CMF, MariaDB Database, PHP 5.5, Apache on CentOS 7
- **Video Hosting: BrightCove: We are planning to migrate to Amazon AWS**
- Our website traffic drops down in January 2016
 - **4** Google Algorithm Changed in Janary 2016
 - Google WebMaster Tools => Crawl Errors
 - WHAT IS THE PROBLEM ??????





Background: Google Analytics shows our website traffic dropdown (Continue..)

Investigation: If most of the traffic has been Organic and now we see a sudden drop

4 May have been hit with one of Google Penalties: two main penalties.

- > The first one is a manual action from Google's spam team, and
- > the second one is an algorithmic penalty.
- **4** One of popular algorithmic updates is Panda, focused on content quality,
- **4** Another is Penguin, focused on backlinks and anchor text distribution.
- **4** Article: <u>https://moz.com/google-algorithm-change</u>.

Other things to check:

4 To check on both the Crawl Errors and HTML errors. Both of these reports notate the amount of internal errors our website may have.

- To keep an eye on the top performing keywords
- **4**To check "Manual actions", on Google Webmaster Tools





Google Webmaster tools: crawl errors and error fixing

Crawl errors: sever errors

- **From December 31, 2016 to January 12, 2017**
- **4** Server error: 700+; Access denied: 200+; Not found: 270







Google Webmaster tools: crawl errors and error fixing (continue..)

Crawl errors: sever errors

- **From December 31, 2016 to January 12, 2017**
- **4** Server error: 700+; Access denied: 200+; Not found: 270

Check the Error URL Patterns and fix these errors

- **URL** Patterns: user/username, user/register?destination=node/NID
- Check these URL and mark them fixed in WMT
- Googlebot couldn't access the contents of this URL because the server had an internal error when trying to process the request.
- Problem: a Profile node was deleted which is referenced by a Video node Video Node: field_data_field_video_expert
- **4**Solution 1: Restore Profile nodes from backup;
- Solution 2: Manually edit nodes to add Profile(node) references to fix data errors





Google Webmaster tools: crawl errors and error fixing (continue..)

Sever had an internal error when trying to process the request :

URL <u>http://www.kidsinthehouse.com/forum-topic/wilkes-barre-pa-dumpster-rental-</u> <u>have-spring-cleanup-maryland</u>

Fixing:

- 4node/46769/edit => reference to a profile node/46364/node_export Export node node/46364/node_export on Backup Server
- SELECT * FROM `field_data_field_video_expert` where `field_video_expert_nid` = 463453
- UPDATE `field_data_field_video_expert` SET `field_video_expert_nid` = 49484 WHERE `field_video_expert_nid` = 461234
- Download the image of expert from Backup: Upload the image and save the profile node
- Repeating above fixing for other Video nodes





Google Webmaster tools: crawl errors and error fixing (continue....)

- **Fixing Other Sever Errors**
 - **4** 404 file not found
 - Creating redirects to <AnotherUrl>
 - Page Access denied: patternn
 - /relationship/268498/request
 - **4** Exclude this URL pattern from /robot.txt: Disallow: /relationship/
 - **4** empty page
 - Double check the page and create redirects
 - Section "Not found":
 - **4** Marking as fixed
 - There are about many Articles (Node Type) deleted from the living site, but many hyper links are still linking to them from other web pages





Google PageSpeed Insights:

developers.google.com/speed/pagespeed/insights

- There are hundreds of issues reported by Insights
- Another Tool I recommend: https://gtmetrix.com/analyze.html

Fixing Issues

- Optimize images: Properly formatting and compressing images can save many bytes of data.
- Enable compression: Compressing resources with gzip or deflate can reduce the number of bytes sent over the network.
- Remove render-blocking JavaScript: blocking script resources and 5 blocking CSS resources cause a delay in rendering your page.
- Use asynchronous versions
- Leverage browser caching: Setting an expiry date or a maximum age in the HTTP headers for static resources
- **4** Improve site speed too many JS & CSS files: Minify JavaScript and CSS





Image optimization

Properly formatting & compressing images can save many bytes of data.

- **4** Manually edit image with PhotoShop and Export Small Size as =>
- **4**JPG file => Reduce the Quality of image => 40%~85%
- **4**PNG file => Smaller File (8-bit)
- **4**Edit more than 100 images

Image Optimize Tools

- **4** Drupal ImageAPI Optimize module, <u>https://www.drupal.org/node/773342</u>.
- **4** Image optimization requires external tools written mainly in C/C++.
 - > (PNG) advpng is a part of advancecomp.
 - > (PNG) OptiPNG is a tool to optimize PNG images.
 - > (JPEG) jpegtran is a part of jpeglib and is available in most systems
 - > (JPEG) jfifremove strip JFIF headers.
- Compressing and optimizing existing images





Image optimization (continue..)

Install and Configure Tools Above on CentOS 7 Linux:

- **4** /admin/config/media/image-toolkit : processing toolkit with ImageAPI Optimize
- **4** sudo yum install advancecomp
- **4** sudo yum install optipng
- **4** sudo yum install jpegtran
- Install a package to optimize all existed images:
 - ImageAPI Optimize can manipulate newly created images only, so it cannot optimize existed images.
 - Install a bash script written by Joel Hardi: <u>https://lyncd.com/2009/03/imgopt-lossless-optimize-png-jpeg/</u>
 - Install the required package PNGOUT (pngout)
 - # Run program to optimize: [~@:/all/themes/MyTheme]\$ imgopt images/*
 - 4 More than 550 images are compressed under /MyTheme/images/*
 - 4 More than 10000 images are compressed under /defaults/files/images/*





Enable compression: gzip compression on web server

Compressing resources with gzip or deflate can reduce the number of bytes sent over the network.

Gzip compression:

- Document: https://varvy.com/pagespeed/enable-compression.html
- Drupal Advanced Aggregation settings to make the the gzip compressing is activated right..
- **4** Solution #1: add code in .htaccess file. NOT working on our case.
- Solution #2: Install And Configure mod_deflate On CentOS 7





Enable compression: gzip compression on web server (continue..)

4 Gzip compression:

- 4 Solution #2: Install And Configure mod_deflate On CentOS 7
 sudo apachectl -t -D DUMP_MODULES | grep deflate
- 4 Check if the mod_defalte module has been loaded: more ~/httpd/conf.modules.d/00-base.conf | grep mod_deflate.so
- **4** To configure mod_deflate, create a new configuration file:

> ~/httpd/conf.d/mod_deflate.conf
 <filesMatch "\.(js|html|css)\$">
 SetOutputFilter DEFLATE
 </filesMatch>

- DeflateCompressionLevel the compression level to be applied. By default, this level is 9, the highest level of compression.
- Restart Apache Server: sudo apachectl restart





Remove render-blocking JavaScript

- When PageSpeed Insights detects that the HTML references a blocking external JavaScript file in the Above-the-Fold portion of page.
 - **4** Above the Fold refers to the portion of the webpage that is visible without scrolling.
 - Avoid and minimize the use of blocking JavaScript, especially external scripts that must be fetched before they can be executed.
 - Scripts that are not critical to initial render should be made asynchronous or deferred until after the first render.
 - HTML <script> defer Attribute
 - > Using the "onload" event we call an external javascript
 - Document: https://varvy.com/pagespeed/defer-loading-javascript.html
 - Scripts that are necessary to render page content can be inlined to avoid extra network requests
 - Document: https://developers.google.com/speed/docs/insights/BlockingJS





Use asynchronous versions

None-critical Scripts to initial render should be made asynchronous or deferred until after the first render

- 4 async The HTML
 <script async src="siteScript.js" onload="mylnit()"></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script></script</script</script></script></script></scrip
- defer The HTML
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- Using the "onload" event we call an external javascript
- Defer Load Script to call external JavaScript file: Document: <u>https://varvy.com/pagespeed/defer-loading-javascript.html</u>

```
function myFunction() {
   var myJS= document.createElement("script");
   myJS.src = "defer.js";
    document.body.appendChild(myJS);
}
if (window.addEventListener)
   window.addEventListener("load", myFunction, false);
else if (window.attachEvent)
   window.attachEvent("onload", myFunction);
else window.onload = myFunction;
```





Leverage browser caching

Leveraging" browser caching is when a webmaster has instructed browsers how their resources should be dealt with.

4 Change the request headers of your resources to use caching.

```
# Browser caching for .htaccess
  <IfModule mod_expires.c>
  ExpiresActive On
  ExpiresByType image/jpg "access 1 year"
  ExpiresByType text/css "access 1 month"
  ExpiresByType text/x-javascript "access 1 month"
  ExpiresDefault "access 1 month"
  </IfModule>
```

Cache-Control

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1 Month for most static assets
<filesMatch ".(css|jpg|jpeg|png|gif|js|ico)\$">
Header set Cache-Control "max-age=2592000, public"
</filesMatch>Optimize your caching strategy.

Document: https://varvy.com/pagespeed/leverage-browser-caching.html





Improve site speed – Optimize JS & CSS files

Optimize CSS delivery & Minify JavaScript

Drupal AdvAgg module:

- More details about Drupal AdvAgg module: <u>http://cgit.drupalcode.org/advagg/tree/README.txt</u>
- Enable Advanced Aggregation
- **Use DNS Prefetch for external CSS/JS.**
- **Use HTTPRL to generate aggregates**
- Combine CSS files by using media queries
- AdvAgg Cache Settings
- **4** After installation of Drupal module Advanced CSS/JS Aggregation (advagg):
 - The total number of CSS files reduced from 10 to 5
 - The total number of JS files reduced from 11 to 6





Improve site speed – Optimize JS & CSS files (Continue..)

Drupal AdvAgg module Continue..

- Bundler : Active Target Number Of CSS Bundles Per Page: 1 Target Number Of JS Bundles Per Page: 1
- CSS Compression File Compression: Select a Compressor: YUI Per File Settings: go through every single CSS file and set the compress
- JS Compression File Compression: Select a Compressor: we disabled it becuase it messed up the website a lot. We need debug all JS files one by one

4 MUST CONFIGURE: Drupal Performance

- Cache pages for anonymous users
- Compress cached pages.
- > Aggregate and compress CSS files.
- > Aggregate JavaScript files.





Improve site speed – Optimize JS & CSS files (Continue...)

- Advanced CSS/JS Aggregation module:
 - **4** After installation of advagg:
 - The total number of CSS files reduced from 10 to 5
 - The total number of JS files reduced from 11 to 6
- Other topics related:

- MemCache for Database
- PHP 5.5+ & Zend OPcache v7
- Varnish 4 Cache Service and Varnish Module
- **LAMP Performance Study**
- Configuring Apache for maximum performance
- MySQL performance tuning
- Not coving in this session. Please do the research.





Google : International targeting - set language if appropriate

- Google Search Console => International Targeting Your site has no hreflang tags.
 - Check the Language setting in Drupal configuration: /admin/config/regional/settings
 Default country: United States
 Default time zone : America/Los Angeles
 - **4** Google Doc: Use hreflang for language and regional URLs
 - https://support.google.com/webmasters/answer/189077?hl=en

```
    Edit Drupal code template.php
    function kith_preprocess_html(&$variables){
        $element = array( '#tag' => 'http://www.kidsinthehouse.com',
            '#attributes' => array( 'hreflang' => 'en-us', 'rel' => 'alternate'));
        drupal_add_html_head($element);
    }
    Not working on our case
```

Not working on our case.

Edit the code in ~/templates/html.tpl.php

<link rel="alternate" href="http://www.kidsinthehouse.com/" hreflang="en-us"/>





Build sitemaps and submit sitemaps to Google for indexing

Crawl errors: SITE MAP INDEX ISSUE => Blank sitemap page

Google Sitemaps Tool:

https://www.google.com/webmasters/tools/ sitemap-list?

Deleted the old XML sitemap.

Rebuild XML Site Map and submit to Google Webmaters Tool:

/admin/config/search/xmlsitemap/rebuild

4 Build a Sitemap of Drupal Page:

- https://www.kidsinthehouse.com/sitemaps
- Desktop Version
- **4** Mobile Version





Build sitemaps and submit sitemaps to Google for indexing (Continue..)

SHEE MAP FOR VIDEOS (A-Z INDEX)

Academic Pressure Activities Activities, Sports and Classes ADD and ADHD ADHD Diagnosis ADOPTION Adoption Issues Advice for Dads ALL PARENTS Allowance Applying to College Applying to Private Schools Asperger's and Schooling At Risk Youth Attachment Parenting Autism and Schooling Avoiding Chemicals and Toxins **Baby Activities** Baby Development & Milestones Baby Gear Baby Proofing Baby Sign Language Baby's Position Babysitters and Relatives Bed Rest Behavior and Discipline Benefits of Play **Biomedical Treatments** Birthfamilies Body Image Bonding and Communication Bonding and Communication Bonding with Preschoolers anding with Tweens Feeding Challenges richment ng and Sleep Diet

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Academic Pressure Activities Activities, Sports and Classes ADD and ADHD ADHD Parenting Tips Adoption Choices Adoption Steps Advocating for Special Needs Allergies Anxiety and Depression Applying to Private Preschools Asperger Syndrome Asperger's Diagnosis At Risk Youth Autism Autism Diagnosis Babies and Sleep Baby Brain Development **Baby Diseases** Baby Health **Baby Proofing** Baby Sign Language Babysitters and Relatives Babywearing Bedwetting Behavior and Discipline Benefits of Play **Birth Control Biting and Hitting** Body Image Bonding and Communication Bonding and Communication Bonding with Teens Bonding With Your Newborn **Bottle Feeding Tips** Breast and Bottle Weaning **Breastfeeding Benefits** Breastfeeding Laws **Building Self-Esteem**

Acne Activities and Downtime ADD and ADHD ADHD and Schooling Adopting a Waiting Child Adoption Costs Advanced Maternal Age Alcohol Use Allergies and Sensitivities Anxiety and Depression Applying to Private Schools Asperger's and Friendships Asperger's Parenting Tips Attachment Parenting Autism and Friendships Autism Parenting Tips BABY Baby Classes Baby Gear Baby Play and Activities Baby Safety Baby Toys Babysitters and Relatives Bathing and Grooming Behavior and Discipline Benefits of Play Benefits of Preschool Birth Methods Biting and Physical Aggression Bonding and Attachment Bonding and Communication Bonding with 5-7 Year Olds Bonding with Toddlers **Bottle Feeding** Bottle Weaning Breastfeeding Breastfeeding Challenges **Breastfeeding Rights Building Strong Partnerships**



Ovulation and Fertility Infertility IVF and Insemination Sperm, Egg or Embryo Donation Surrogacy Pregnancy and Prenatal Prenatal Visits and Tests Choosing Practitioners Pregnancy and Fitness Pregnancy Weight Gain "ains and Concerns mones and Emotions ncy Safety ractions

Creating a Birth Plan Preterm Labor Tests and Hospital Twins and Multiples Procedures C-Sections and V-BACs Baby's Position Cord Clamping Preparing for Breastfeeding Circumcision Natural Pain Management Epidurals and Medication Hospital Births Cribs Birth Methods Home Births and Birthing

Labor

Gestational Diabetes Preeclampsia Growth Restriction Advanced Maternal Age Bed Rest NICU Eating Disorders & Pregnancy What Do I Need? Slings and Baby Carriers Car Seats

Paid and Unpaid Leave Postpartum Depression Job Issues or Limitations Breastfeeding Laws

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Build a video sitemap and submit it to Google for Indexing

Google Video Sitemaps: all of the tags that Google uses.

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Doc: https://developers.google.com/webmasters/videosearch/sitemaps

```
<urlset xmlns="http://www.sitemaps.org/schemas/sitemap/0.9"</pre>
        xmlns:video="http://www.google.com/schemas/sitemap-video/1.1">
   <url>
     <loc>http://www.abc/video landing page.html</loc>
     <video:video>
       <video:thumbnail loc>http://www.example.com/thumbs/123.jpg</video:thumbnail loc>
       <video:title>Grilling steaks for summer</video:title>
       <video:description>Alkis shows you how to get perfectly</video:description>
       <video:content loc>http://www.example.com/video123.mp4</video:content loc>
       <video:player loc autoplay="ap=1">http://www.abc/videoplayer.mp4</video:player loc>
       <video:duration>600</video:duration>
       <video:expiration date>2009-11-05T19:20:30+08:00</video:expiration date>
       <video:rating>4.2</video:rating>
       <video:view count>12345</video:view count>
       <video:publication date>2007-11-05T19:20:30+08:00</video:publication date>
       <video:family friendly>yes</video:family friendly>
       <video:restriction relationship="allow">IE GB US CA</video:restriction>
       <video:gallery loc title="Cooking Videos">http://example.com</video:gallery loc>
       <video:price currency="EUR">1.99</video:price>
       <video:requires subscription>yes</video:requires subscription>
       <video:uploader info="http://www.example.com">GrillyMcGrillerson</video:uploader>
       <video:live>no</video:live>
     </video:video>
   </url>
</urlset>
```

Build a video sitemap and submit it to Google for Indexing (Continued..)

- There is no any Media RSS/XML module match our need
- Build a custom view "video_video"
- Build a PHP program to load the view and output to a XML file

php index-video-xml.php >
video-sitemap.xml

Generate sitemap XML file including more than 9300 videos

TITLE

Title: Sitemap Video:Video

FORMAT

Format: XML data document | Settings

FIELDS

Add

Content: Video (video:thumbnail_loc)

Content: Title (video:title)

Content: Transcription

(video:description)

Content: Video Duration (video:duration)

Content: Post date

(video:publication_date)

Content: Title (video:family_friendly)

Content: Path (video:gallery_loc)

Global: Custom text (video:uploader)

Content: Link (video:content_loc)



Google Analytics and site search tracking

- Drupal module "Google Analytics" & Configuration
 Web Property ID: UA-2222222-1
 - **4**Search and Advertising: Track internal search
- Setup "Site search tracking" in Google Analytics.
 - **4** Site search Tracking : on
 - **4** Query parameter: search, site, keyword, q
 - 4– Site search categories : on
 - **4** Category parameter: type
- Recommend an open-source Web analytics Platform
 - PIWIK <u>https://piwik.org/</u>
 - One of the best open-source analytics platforms
 - **4** PHP, MySQL/MariaDB, Apache



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Tracking goals in Google Analytics

Google Analytics standard reports => "Admin" =>Goal sets, click "+ Goal" => set up a new goal

- Pages/Visit Goals: track specific page
- Email Log In Goal: track user's login
- Facebook Log In Goal

- **4** New Account Sign Up Goal: track new account signup
- **URL Destination Goals: keep track of specific URLs**
- Membership Subscripton Goal
- **4** Visit Duration Goals: track people stay on your site for a certain amount of time
- 4 Shopping Goal
- **4** Video Play Event goal: a little bit more complicated
- Other Evet Goal
 - o External links
 - Downloads
 - Time spent watching videos
 - Social media buttons
 - Widget usage





Google Webmasters and VideoObject errors

- Structured Data Testing Tool: <u>developers.google.com/structured-</u> <u>data/testing-tool/</u>
- **VideoOject Errors:**
- The property status is not recognized by Google for an object of type VideoObject.
- The property content_id is not recognized by Google for an object of type VideoObject.
- thumbnailUrl: missing and required // error
- uploadDate: missing and required // error

```
VideoObject
playerType: HTML5 Flash
encodingFormat: MP4
videoQuality: SD
isFamilyFriendly: http://schema.org/True
status: published // error
content id: 5029 // error
description: See Ling Wong, MS, CHC's video (
duration: PT2M5S
name: Is coffee safe during pregnancy?
description: See Ling Wong, MS, CHC's video (
productionCompany [Organization]:
name: Kids In The House
width [Intangible]:
name: 620
height [Intangible]:
name: 400
provider [Organization]:
name: Kids in The House
url: http://www.kidsinthehouse.com
thumbnailUrl: missing and required // error
uploadDate: missing and required // error
```





Google Webmasters and VideoObject errors (Continue..)

- We are hosting videos on BrightCove
- BrightCove Video fields setting page
 - **4** status: is required by BrightCove Video Player
 - 4 content_id: is required by BrightCove Video Player
 - thumbnailUrl option is invalid on BrightCove
 - updloadDate option is invalid on BrightCove

We must build new VideoObject Schema tags in the custom module
 Single video player page
 Video playlist page



Google Webmasters and VideoObject errors (Continue....)

New VideoObject Schema Tags

_<div itemscope itemtype="https://schema.org/V</pre> <meta itemprop="name" content="Antidepressa <link itemprop="url" href="https://www.kids <meta itemprop="productionCompany" content= <meta itemprop="playerType" content="HTML5 <meta itemprop="encodingFormat" content="MP <meta itemprop="width" content="620" /> <meta itemprop="height" content="400" /> <meta itemprop="videoQuality" content="SD" <meta itemprop="isFamilyFriendly" content=" <div itemprop="provider" itemscope itemtype <meta itemprop="name" content="Kids in Th <meta itemprop="url" content="https://www </div> <meta itemprop="uploadDate" content="Novemb <meta itemprop="thumbnail" content="https:/ k itemprop="thumbnailUrl" href="https:// <meta itemprop="description" content="Psych <meta itemprop="duration" content="PT1M117s <div itemprop="actor" itemscope itemtype="h</pre> <meta itemprop="name" content="Shoshana </div> /div>

- V	ideoObject (1)	All good 🥑							
	VideoObject								
	name:	name: Advice on entering a blended family							
	url:	http://www.kidsinthehouse.com/all-paren ts/family-life/step-and-blended-families/a dvice-on-entering-a-blended-family							
	playerType:	HTML5 Flash							
	encodingFormat:	MP4							
	videoQuality:	SD							
	isFamilyFriendly:	http://schema.org/True							
	uploadDate:	2014-12-29T03:43:00							
	thumbnailUrl:	http://www.kidsinthehouse.com/sites/det ault/files/video-thumbnails/jeff_probst_7							
	description:	Watch Jeff Probst's video on Advice on e ntering a blended family							
	duration:	PT2M40S							
	name:	Advice on entering a blended family							
	description:	Watch Jeff Probst's video on Advice on e ntering a blended family							
	productionCompany [Organization]:								
	name:	Kids In The House							
	width [Intangible]:								
N	iame:	620							
	nt [Intangible]:								
-		400							



Google Search console: mobile usability errors

Google PageSpeed Insights: <u>https://developers.google.com/speed/docs/insights/rules</u>

4 All errors on Desktop version are also included in Mobile Usability

- **4** Touch elements too close: 189
- **4** Content not sized to viewport: 66
 - the page content does not fit horizontally within the specified viewport size, thus forcing the user to pan horizontally to view all the content.
- Viewport not configured:
 - A viewport controls how a webpage is displayed on a mobile device. The page does not specify a viewport, or specifies a viewport that does not adapt to different devices.

4 Small font size:

4

4

Solutions:

- Debug and test CSS
- Design mobile CSS if neccessary





Google Search (GSS & CSE)

Google has discontinued sale/renewal of the Google Site Search since Apr 1 2017. The product will be completely shut down by April 1, 2018.

Use Google Custom Search Engine (CSE)

4But the advertisement cannot be removed.

4Embed Google Search on the website

4Auto handle the 404 page not found error

Return a Google search result page instead 404

#Typing: https://www.kidsinthehouse.com/ptsd

4404 not found => search result page:

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How To Tell If Your Child Has PTSD After A Traumatic Event													
https://www.kidsinthehouse.com/special-needs//diagnosing-ptsd													
Preetpal Sandhu, MD Child & Adolescent Psychiatrist, shares advice for parents on how to tell if their child has PTSD following a traumatic event in their life.													
PTSD In Kids Treatments And PTSD													
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https://www.kidsinthehouse.com/.../students-with-learning-disabilities-at-risk- for-teacher-bullying



He was diagnosed with PTSD by an experienced sports psychology expert. He was exempted from exams in grade 11 and 12. His reaction to bullying is typical ...



Always HTTPS: secure version of HTTP

- Redirect condition/rules in the file .htaccess
 - # RewriteCond %{HTTPS} off RewriteRule ^(.*)\$
 https://%{HTTP_HOST}%{REQUEST_URI} [L,R=301]
 - **4** Disable the module Secure Pages: no need anymore
- Buy SSL Certificates (HTTPS) from godaddy.com or other hosting companies
 - **4** Pricing: from \$69.99/yr to \$700/yr depends on the type HTTPS
 - Basic SSL
 - EV SSL : a new type of certificate that is designed to prevent phishing attacks better than normal SSL certificates.
 - UCC (SAN) SSL: Multi-Domain SSL certificate, one UC SSL Certificate covers the maid domain and all of sub domains.





Always HTTPS: secure version of HTTP (Continue..)

Let's Encrypt, https://letsencrypt.org/getting-started/

- Free, automated, and open Certificate Authority Easy to install and configure
- **4** Get Free SSL Certificates for our three development servers

4 Recommend that users with shell access use the <u>Certbot</u> ACME client.

- Automate certificate issuance and installation with no downtime <u>https://certbot.eff.org/#centosrhel7-apache</u>
- \$ yum -y install yum-utils
 \$ yum-config-manager --enable rhui-REGION-rhel-server-extras rhui-REGION-rhel-server-optional
- 4 \$ sudo yum install certbot-apache
- **4** \$ sudo certbot –apache // run program and get start
- \$ sudo certbot --apache certonly
- // make changes to Apache configuration by hand
- \$ sudo certbot renew --dry-run
- // Automating renewal





Migrate Videos from BrightCove to Amazon AWS

4 Preparing

- Build a new DEV environment
- A Name conversion for videos

4 AWS services:

- Amazon S3 for storage
- > Amazon Elastic Transcoder for video processing,
- Amazon CloudFront for delivery.

On a pay-as-you-go basis

Storage Pricing : First 50 TB / month \$0.023 per GB : 2 TB => \$50/month

JW Player to replace BrightCove Video Player JW Player for single video

JW Player for playlist

Test and evaluate the AWS





Migrate Videos from BrightCove to Amazon AWS (Continue..)

Step 1: Downloading Videos from BrightCove

- **4** Step 2: Generate a file to track Video ID, Video Name, and Drupal Node ID
- Step 3: Run FFMPEG to covert original videos to HLS format and MP4 format for all resolutions (1080p, 720p, 540p, 360p, 270p)
- **4** Step 4: Generate video thumbnails by running FFMPEG
- Step 5: Implement PHP program on AWS PHP-SDK to upload all videos to Amazon AWS S3 bucket
- **4** Step 6: Update Drupal 7 database tables
- Step 7: Build a module to handle new videos automatically (One click to do processes of Step 2 6)
- **4** Step 8: Rewrite all custom modules and templates related to Videos
- Final Step: Cut over the Production Website







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Any Questions?

Thank You!

Gung Wang Lead Drupal Developer KidsInTheHouse LLC

