### STRUCTURED DATA & SCHEMA

What is it and why does it matter

#### We'll be looking at:

- What structured data is
- Examples of structured data
- What schema markup is
- Examples of schema markup
- Why they are important
- How we can use them
- Tools to help you with structured data and schema
- Resources

#### Structured Data

- This is the on-page code that helps search engines understand what's on a web page.
- It provides explicit clues to the crawler about the meaning of the data on the page and helps it classify the content on the page.
- It is the standard format for providing **information about the page**.
- Google's preferred format for structuring data is called JSON-LD which stands for JavaScript Object Notation for Linked Data.

### Example of Structured Data

When you are looking for a business on Google, all the extra information you find, known as rich snippets, is created by using structured data on your page.



#### Tashas

Website	Directions	Save
4,2 <b>★★★</b>	* * 752 Google	reviews

Airy, contemporary café and coffee shop delivering breakfasts, global dishes and frozen yogurt.

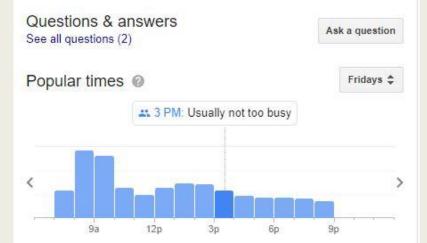
Address: Shop No. G28, The Zone, Oxford Rd, Rosebank, Johannesburg, 2196

Hours: Open · Closes 9PM -

Phone: 011 447 7972

Suggest an edit

Know this place? Answer quick questions



#### **Example of Structured Data**

When looking up a review, all the information included with the meta-title and metadescription is generated by including structured data in the page's HTML text.

> BlacKkKlansman (2018) - IMDb https://www.imdb.com/title/tt7349662/ ▼ ★★★★ Rating: 7,7/10 - 47,744 votes Ron Stallworth, an African American police officer from Colorado Springs, CO, successfully manages to infiltrate the local Ku Klux Klan branch with the help of a ...

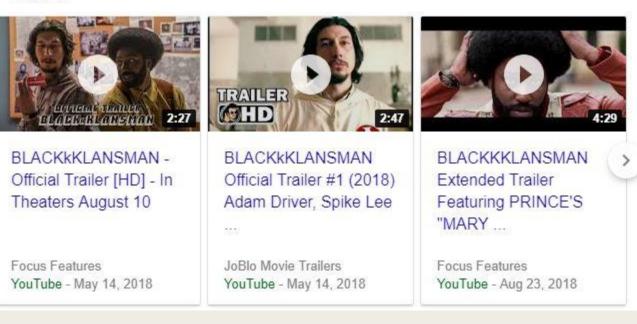
#### Schema Markup

- This is the code or vocabulary you put on the web page to indicate structured data.
- It tells the search engine result pages (SERPs) to display all the extra information that makes up a rich snippet.
- The first schema markup tool was developed by **schema.org**. which is free to use.

#### **Example of Schema Markup**

- Let's say you've uploaded a video onto your webpage about the film *Blakkklansman*.
- Google's search engine will just read and index it as Blackkklansman.
- Using the video schema markup from schema.org with the video, it is picked up as a video and shows up in the rich snippets in the search engine results.

Videos



### Example of Schema Markup

- This is what the JSON-LD code looks like on schema.org.
- This looks like a long list of intimidating code but don't worry, most of the schema markup doesn't require alterations.

Example 1 Without Markup Microdata ROFE ISON-LD <script type="application/ld+json"> "@context": "http://schema.org", "@type": "MusicGroup", "event": [{ "@type": "Event", "location": "Memphis, TN, US", "offers": "ticketmaster.com/foofighters/may20-2011", "startDate": "2011-05-20". "url": "foo-fighters-may20-fedexforum" 3, { "@type": "Event", "location": "Council Bluffs, IA, US", "offers": "ticketmaster.com/foofighters/may23-2011", "startDate": "2011-05-23", "url": "foo-fighters-may23-midamericacenter" "image": [ "foofighters-1.jpg", "foofighters-2.jpg", "foofighters-3.jpg" 1. "interactionStatistic": { "@type": "InteractionCounter", "interactionType": "http://schema.org/CommentAction", "userInteractionCount": "18" 3. "name": "Foo Fighters", "track": [{ "@type": "MusicRecording", "audio": "foo-fighters-rope-play.html", "duration": "PT4M53", "inAlbum": "foo-fighters-wasting-light.html", "interactionStatistic": { "@type": "InteractionCounter", "interactionType": "http://schema.org/ListenAction", "userInteractionCount": "14300" 11 "name": "Rope", "offers": "foo-fighters-rope-buy.html", "url": "foo-fighters-rope.html" 2, 8 "@type": "MusicRecording", "audio": "foo-fighters-everlong-play.html", "duration": "PT6M333", "inAlbum": "foo-fighters-color-and-shape.html", "name": "Everlong", "interactionStatistic": { "@type": "InteractionCounter", "interactionType": "http://schema.org/ListenAction", "userInteractionCount": "11700" 1, "offers": "foo-fighters-everlong-buy.html", "url": "foo-fighters-everlong.html" 31. "video": { "@type": "VideoObject", "description": "Catch this exclusive interview with Dave Grohl and the Foo Figh "duration": "T1M333", "name": "Interview with the Foo Fighters", "thumbnail": "foo-fighters-interview-thumb.jpg" </script>

#### Why are they so important?

- Structured data helps Google understand your website and its contents better. This means that it's indexed more accurately.
- As Google and other search engines become more sophisticated in how they find information and display search results, focussing only on keywords is becoming outdated.
- Localisation and personalisation of search results, and a migration to mobile is increasing the importance of structured data as it has a greater impact on search engine results.

#### Why are they so important?

- Schema markups help websites rank better for content because it also includes information about the type of content on a page.
- A study was done that found that websites with schema markups ranked better in SERPs than those without – they ranked an average of four positions higher.
- Schema markups are severely under utilised. Searchmetrics found that only 0.3%\* of websites used schema.

\*<u>https://www.searchmetrics.com/news-and-events/schema-org-in-google-search-results/</u>

#### How to Use Them

- We can incorporate structured data into nearly everything we do here.
- But there are three areas where they could be utilised: reviews, news stories and blogs, and how-to-plays.
- You copy the schema markup either from schema.org or the less intimidating Steal Our JSON-LD.

JSON-LD EXAMPLES Article Blog Post Book Breadcrumb Email Message Event Venue Concert Concert: Multiple Performers Job Posting Local Business News Article Organization Person Product Recipe Social Network Profiles Web Page Video About Us Review JSON-LD Generator

#### How We Can Use Them cont.

- We can use the review schema markup to get out slot reviews and casino reviews better SERPs.
- The Howto schema markup can be used to generate rich snippets of our "How to Play" pages.
- We could also utilise them with our blog posts which feature news stories. They'll show up like this on Google search:
- We are only limited by our imagination!

Top stories

Spike Lee Talks 'BlacKkKlansman' And Being Labeled 'Controversial' Forbes - 1 day ago

Now streaming: 'Outlaw King,' 'Incredibles 2,' 'BlacKkKlansman,' 'Christopher Robin' The Seattle Times - 1 day ago

BLACKkKLANSMAN And How Spike Lee Three-Acted The Past Birth.Movies.Death. 1 day ago

→ More for blackkklansman

#### For a Review...

- Let's say I'm writing a review on the latest Dr Marten boot for spring.
- I would write the standard full length review for my fashion blog called...Fashion Grrrl. Now I want it to have structured data that will show up as a review.



#### For a Review...

 Once I'm done with the review contents, I'll go on Steal Our JSON-LD and copy the schema markup for a review.

#### Review

As of January 2016, Google has added support for JSON-LD and reviews. This is a big day for JSON-LD in the fact that reviews are a really popular type in the webmaster community. The following code has been validated and has been proven to work with Google.

2 {	
3	"@context": "http://schema.org/",
4	"@type": "Product",
5	"image": "http://www.example.com/iphone-case.jpg",
6	"name": "The Catcher in the Rye",
7	"review": {
8	"@type": "Review",
9	"reviewRating": {
10	"@type": "Rating",
11	"ratingValue": "4"
12	Ъ
13	"name": "iPhone 6 Case Plus",
14	"author": {
15	"@type": "Person",
16	"name": "Linus Torvalds"
17	3).
18	"datePublished": "2016-04-04",
19	"reviewBody": "I loved this case, it is strurdy and lightweight. Only issue is that it sm
20	"publisher": {
21	"@type": "Organization",
22	"name": "iPhone 6 Cases Inc."
23	3
24	Σ.
25]	
264	:/script>

#### For a Review...

I'll then paste it in the text view of the page and add in the required information.

In this case:

- the images HTML code (URL location)
- a general name for the product
- a rating out of 5
- a second more descriptive name
- name of the person writing the review
- the date the review is published
- a brief description of why you gave the product the rating you did
- the name of your organisation

### So for my review on the 1460 boot...

- The image HTML code is <a href="https://www.casinoza.com/wp-content/uploads/2018/09/dr-martens-black-boot-300x251.png">https://www.casinoza.com/wp-content/uploads/2018/09/dr-martens-black-boot-300x251.png</a>
- The general name for the product is "Spring range Dr Marten 1460"
- The rating is 5
- The second more descriptive name is "Dr Marten black 1460 with flower cut-outs "
- The person writing the review is Brooke Steton
- The published date is 2018-11-09
- The brief description is "The latest 1460 to come on the Dr Martens show room features leather light pink flower cut outs and silver studs, which lend the iconic a feminine edge. Pair them with a sheer light summer dress or denim wide leg trousers. These 1460s will set you apart from the crowd this spring."
- And the organisation is Fashion Grrrl

# The schema markup HTML code looks like this:

<pre><script type="application/ld+json"> {</th></tr><tr><td>"name": "Spring range Dr Marten 1460", "review": {</td></tr><tr><td><pre>"@type": "Review",     "reviewRating": {         "@type": "Rating",         "ratingValue": "5"</pre></td></tr><tr><th><pre>}, "name": "Dr Marten black 1460 with flower cut-outs ", "author": {</pre></th></tr><tr><td>"@type": "Person", "name": "Nolwandle Zondi" },</td></tr><tr><td>"datePublished": "2018-11-09", "reviewBody": "The latest 1460 to come on the Dr Marten show room features leather light pink flower cut outs and silver studs, which lend the iconic boot an edge. Pair them with a sheer light summer dress or denim wide leg trousers. These 1460s will set you apart from the crowd this spring.",</td></tr><tr><td><pre>"publisher": {     "@type": "Organization",     "name": "Fashion Grrrl"   } }</pre></td></tr><tr><td></script></pre>
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## Tools to Help You with Structured Data and Schema Markup: Testing Tool

- To test your schema markup during development, Google has its own testing tool called the Structured Data Testing tool.
- Use this tool during development i.e. when you're writing the code.
- <u>https://search.google.com/structured-data/testing-tool</u>

#### Tools to Help You with Structured Data and Schema Markup: Testing tool

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🔢 Apps 🖺 Home   Trello 🔹 Best Online Casino G 👩 Alchemy API 🧿 SEMrush - service f	🛛 😼 Serpfox 🔤 SEO Software tools b 🛷 Simplify your	digital 🛛 🧕 Percentage Change 🛛 🔗 13 Horror Shorts Tha	🔗 🔗 18 Disturbing Interne 🔀 How The 'NPC' Memo	Other bookmark
Google Structured Data Testing Tool				III 🔉 🚺
0				NEW TEST
	Test your structured data	×		
	FETCH URL	CODE SNIPPET		
	S Enter a URL			
	R	UN TEST		
	Explore the Search Gallery.	Learn more about this tool.		
		D		

#### Tools to Help You with Structured Data and Schema Markup: Testing tool

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🔢 Apps 📔 Photo Editor   Fotor - 🛛 👪 🛧 🛧 Find teaching jo 😽 i-to-i Lea	arning Portal: 🛛 🔯 JET Program Interview 🛛 🤺 Private School Posi	tio: » Other bookmarks
Women -       Men -       Kids -       Departments -	SEARCH Brands - Sale -	ੇ MY CART Sign In / Register
Dr. Martens 1460 Reviews 600 reviews total	OVERALL RATING:       CUSTOMER FIT SURVEY:         69%       *****         15%       *****         6%       *****         64%       "Moderate arch support"         3%       *****         7%       *****	ZAPPOS FAMILY CULTURE Learn what inspires Zappos.com to provide the best service! Zappos Family Core Values: 10 Values We Live By » Customer Testimonials: Customers Connect » Enjoy Fun and A Little Weirdness: Check out Blogs »
540 are "Favorable"	60 are "Critical"	The Zappos.com Experience: Share Your Videos » Unique Customers: Furry Customers » Customers In Training »

## Tools to Help You with Structured Data and Schema Markup: Testing tool

```
Google Structured Data Testing Tool
https://www.zappos.com/product/review/104730/page/1/start/5
                                                                                                                              NEW TEST
                                                                                                                                             \mathbf{n}
  1 <!doctype html>
                                                                           Product
  2 <!-- zfc urlrewrite off -->
                                                                                                                                   All (1) 👻
     <html lang="en-US">
     <head><!-- ZFC --><script type="text/javascript">
  5 (function(a){var b=
     {},c=encodeURIComponent,d=a.zfcUUID,e;a.onerror=function(a,f,g)
     {return e="/err.cgi",a&&(e+="?msg="+c(a),f&&(e+="&url="+c(f),g&&
                                                                              Product
                                                                                                                0 ERRORS 0 WARNINGS
                                                                                                                                          ~
     (e+="&line="+c(g)), d&&(e+="&uuid="+c(d)), b[e]||(b[e]=1, (new
     Image).src=e)),!0})(window)</script><script</pre>
                                                                                                               Product
                                                                                   @type
     type="text/javascript">
     var zfcCookieDomain='.zappos.com', bmv={}, a9ab=1, pdi=3, jno=0,
  6
                                                                                   name
                                                                                                               1460
     raz=1;
                                                                                   aggregateRating
  7 if (/couture/.test(window.location.hostname)) {
                                                                                                               AggregateRating
  8
       raz=0;
                                                                                       @type
  9
                                                                                                               4
                                                                                      ratingValue
 10 if (/^secure-(?:www/vip)\./.test(window.location.hostname)) {
                                                                                      reviewCount
                                                                                                               600
 11
       jno=1;
 12 }
                                                                                      ratingCount
                                                                                                               600
 13 </script><script type="text/javascript">
                                                                                   review
       var zfcUUID = function(){var a=function()
 14
```

#### Tools to Help You with Structured Data and Schema Markup: Rich Result Status Report

- To monitor the health of your pages with structured data, use the rich result status report.
- It's a built in app on Google search console. Click on Search Appearance in the Dashboard.

Google						III O 🕒	
Search Console					Use new Search Console	https://www.casinoza.com/ * Help *	
Dashboard Messages (4) > Search Appearance	Use the new Overview report						
	New and important						
Search Traffic     Google Index	New AMP issue detected for site https://www.casinoza.com/						
Crawl     Security Issues     Web Tools	View all						
	Crawl Errors		>>	Search Analytics	Sitemaps	By me (1) 🚿	
	Site Errors						
	DNS Ø	Server connectivity	Robots.txt fetch	190 Total Clicks	0 URLs submitted		
	URL Errors						
	1 Not found						
				1 10/14/18 10/17/18 10/20/18 10/23/18 10/26/18 10/26/18 11/1/18 11/4/18 11			

#### Tools to Help You with Structured Data and Schema Markup: Rich Result Status Report

- To monitor the health of your pages with structured data, use the rich result status report.
- It's a built in app on Google search console. Click on Search Appearance in the Dashboard. Then click on Structured Data to view if it has any errors.

Google					III O (
Search Console				L.	lse new Search Console 😽 https://www.casinoza.com/ * Help 👻
Dashboard Messages (4) • Search Appearance Structured Data Rich Cards Data Highlighter HTML Improvements Accelerated Mobile Pages • Search Traffic • Google Index • Crawl Security Issues Web Tools	Structured Data           Status: 11/8/18         0 Items with on 0 pages           on 78 pages         0 Items with on 0 pages           Items         100           75         50           25         25           8/2/18         8/8/18         8/13/18           Download         Status         8/13/18	n Errors ⑦ 8/18/18 8/20/18 8/23/18 8/23/18 8/27/18 8/30/18.	Q/3/18 Q/6/18 Q/10/18 Q/13/18 Q/17/18 Q/	20/18 Qi24/18 Qi27/18 10/1/18 10/4/18 10/8/18 10/11	118 10/15/18 10/18/18 10/22/18 10/25/18 10/29/18 11/1/18 11/5/18 11/8/18 Show 25 rows - 1-3 of 3 < >
	Data Type	Source	Pages	Items	Items with Errors *
	hentry	Markup: microformats.org	78	96	<b>1</b>
	WebSite	Markup: schema.org	1	1	~
	hcard	Markup: microformats.org	1	1	<b>1</b>
					1-3 of 3 < 📏

#### Resources

- <u>https://yoast.com/howto-structured-data/</u>
- https://yoast.com/what-is-structured-data/
- https://www.adherecreative.com/blog/bid/153475/what-is-structured-data-and-why-does-it-matter-forseo
- https://developers.google.com/search/docs/guides/intro-structured-data
- https://neilpatel.com/blog/get-started-using-schema/
- https://www.youtube.com/watch?v=xQeRA-Ojq5c
- Schema.org: <u>https://www.schema.org</u>
- Steal Our JSON-LD: <u>https://www.jsonld.com</u>
- Google's Structured Data Guidelines: <u>https://developers.google.com/search/docs/guides/sd-policies</u>
- Structured Data Testing Tool: <u>https://search.google.com/structured-data/testing-tool#</u>