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# Semantic Science

- Ontology Engineering & Research Publication -

[www.semanticscience.us](http://www.semanticscience.us)

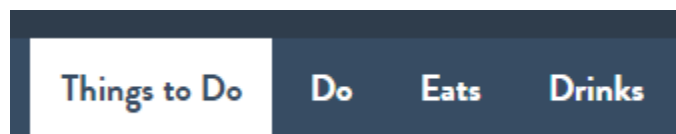
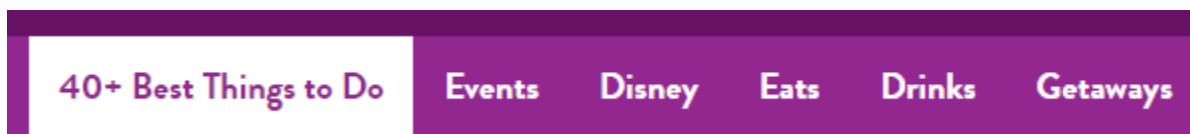
## General Workflow

I began with a survey of extant taxonomies describing related content. The best one I knew of was the [DMOZ](#) project from AOL, which started in 1999. It was the world's first attempt at humans organizing the web. It has a massively deep taxonomy that informed a lot of what I did here.

 <b>Arts</b> Movies, Television, Music...	 <b>Business</b> Jobs, Real Estate, Investing...	 <b>Computers</b> Internet, Software, Hardware...
 <b>Games</b> Video Games, RPGs, Gambling...	 <b>Health</b> Fitness, Medicine, Alternative...	 <b>Home</b> Family, Consumers, Cooking...
 <b>News</b> Media, Newspapers, Weather...	 <b>Recreation</b> Travel, Food, Outdoors, Humor...	 <b>Reference</b> Maps, Education, Libraries...
 <b>Regional</b> US, Canada, UK, Europe...	 <b>Science</b> Biology, Psychology, Physics...	 <b>Shopping</b> Clothing, Food, Gifts...
 <b>Society</b> People, Religion, Issues...	 <b>Sports</b> Baseball, Soccer, Basketball...	 <b>Kids &amp; Teens Directory</b> Arts, School Time, Teen Life...

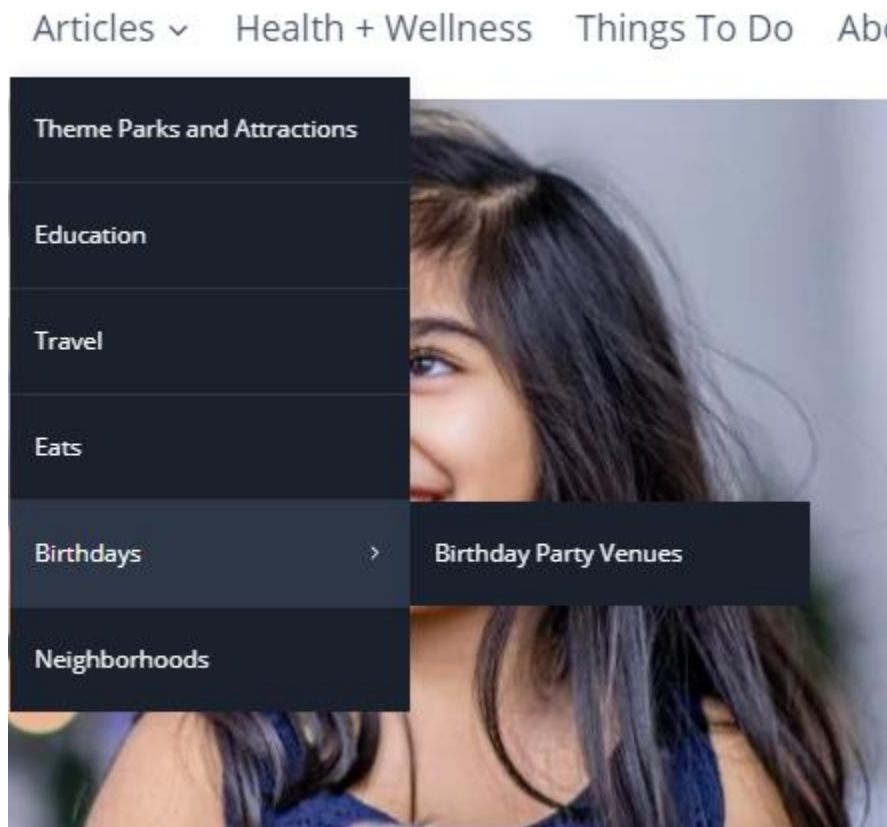
I started with a basic mapping of all your sites' high-level (presumably determined to be the most *important*) categories. Obviously, some of the DMOZ categories, like science, are irrelevant.

Articles ▾ Health + Wellness Things To Do



ARTICLES ▾ HOLIDAY FAMILY FUN THINGS TO DO ▾

On both the Parenting websites, I notice you *do* allow the sitemap taxonomy to show, at least to a small degree.



This is good, since I wanted to develop a deeper taxonomy. On your end, you can pick and choose which categories (classes in my lingo) to show, depending on business needs.

A lot of the tags your content writers create are incredibly specific and often used for a single post, to be discarded and forgotten.

<https://www.orlandodatenightguide.com/tag/pechakucha/>  
<https://www.orlandodatenightguide.com/tag/pizza/>  
<https://www.orlandodatenightguide.com/tag/plaza/>  
<https://www.orlandodatenightguide.com/tag/plaza-live/>  
<https://www.orlandodatenightguide.com/tag/poetry-slam/>  
<https://www.orlandodatenightguide.com/tag/princess-ball/>  
<https://www.orlandodatenightguide.com/tag/psychedelic-rock/>

So, the general idea was to create the most general taxonomy possible, allowing all four sites (and future ones!) to re-use from without re-inventing the wheel. My operating assumption was that you should enforce a strict, controlled taxonomy of categories to place posts under (what I have developed so far), only allowing authors to create new tags as needed. In other words: you should *own* the taxonomy as IP, ensuring your authors use it to classify their posts.

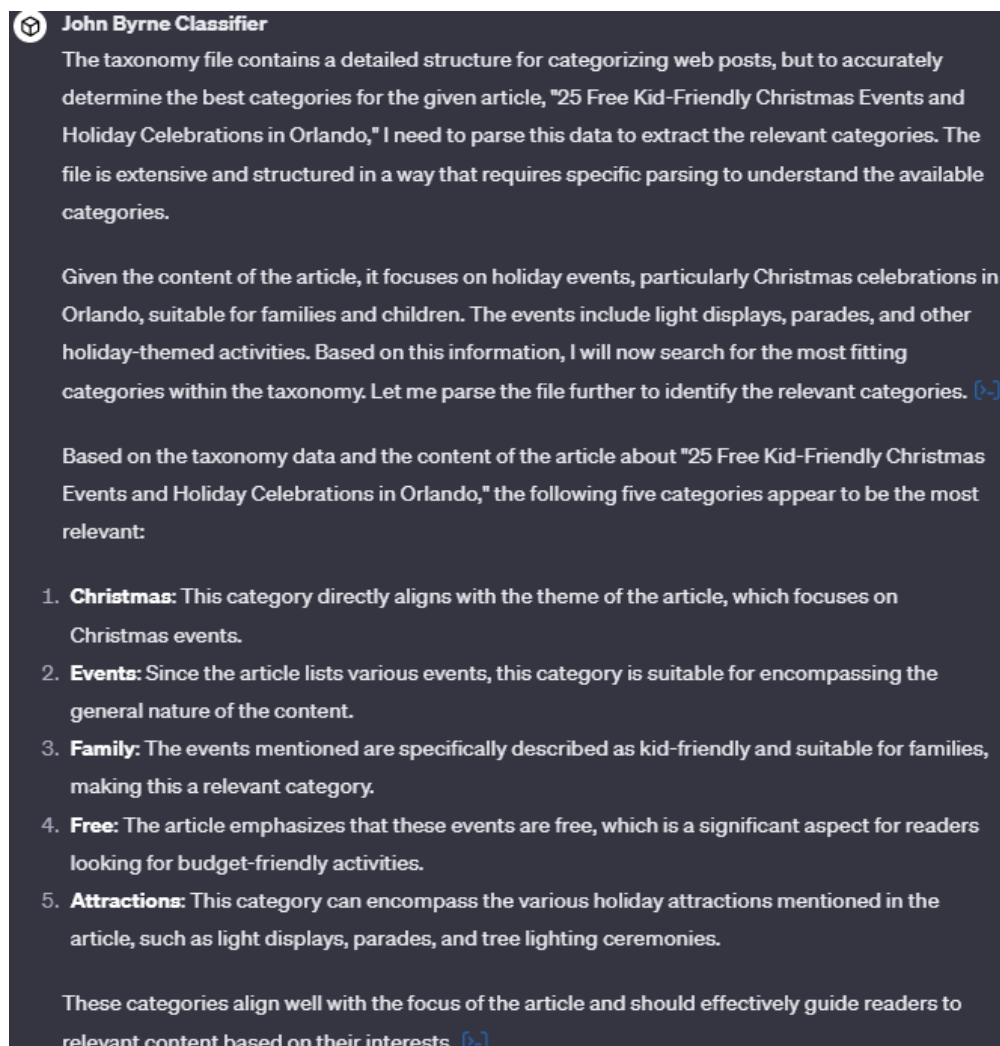
I draw the line, philosophically, between a *category* and a *tag*, at the number of uses and its specificity. If something is only used once, or is very specific, it is most likely a tag. If something is used more than once, or is rather general, it is a category. For example: the category *Bars* is indeed a category, whereas *Willie's Brewskis on 5<sup>th</sup> Avenue* is a tag. See the Conclusion section for more on this.

The process of categorization/tagging I propose:

1. Authors write their content
2. They traverse the taxonomy from top to bottom and pick ~3-5 (your choice!) categories they like
3. (TBD) They check the tag “bins” and re-use or make some new ones for others to have

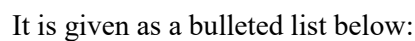
This way, you definitively control your categories, but allow some freedom of expression in your tags.

An additional thought I had was to use GPT-4, specifically by “training” a domain-specific GPT, to automatically categorize your posts, so there isn't any author deviance. I set a model up pretty quickly and asked it to give me the 5 best categories for this post: <https://orlando-parenting.com/free-christmas-events-holidays-orlando-kids/>. Its response was the following:



I can pretty easily set this up as an API call so it can be used by anyone. The same idea can be done for tagging.

A full, interactive visualization of the taxonomy can be found [here](#). It is reproduced below (hard to see):



- People
  - InterestingPeople
    - Kids
    - Moms
- ThingsToDo
  - Dancing
  - Dining
    - Bars
    - Breakfast
    - Breweries
    - Brunch
    - Desserts
    - Dinner
    - Drinks
      - Beer
        - CraftBeer
      - Coffee
      - Wine
    - Lunch
    - Restaurants
  - Events
    - Camping
      - Glamping
    - DateNight
    - DayTrip
    - FamilyFun
    - GirlsNightOut
    - Parade
    - RoadTrip
  - Games
  - Holidays
    - CulturalHolidays
      - CincoDeMayo
      - FathersDay
      - Halloween
        - TrickOrTreating
      - July4th
        - July4thFireworks
      - Kwanzaa
      - LaborDay
      - MLKDay
      - MemorialDay
      - MothersDay
      - NationalChocolateDay
      - NewYears
      - NewYearsEve
      - PresidentsDay
      - SpringBreak
      - StPatricksDay
      - Thanksgiving
      - ValentinesDay
      - VeteransDay
    - ReligiousHolidays
      - Christmas

- ChristmasLight
      - ChristmasTree
    - Easter
      - EasterEggHunting
    - Hanukkah
  - Scene
    - Indoor
    - Outdoor
  - Seasons
    - Fall
      - FallFestivals
        - PumpkinPatch
    - Spring
    - Summer
    - Winter
  - Shopping
    - Deals
  - Sports
    - Biking
    - Hiking
    - Running
      - Marathon
      - 5k
    - Swimming
  - Travel
    - Ballroom
    - BirthdayPartyVenue
    - Cruise
    - Getaways
    - Locations
      - Accommodations
        - Hotel
        - Inn
        - Wedding
      - Attractions
        - Aquarium
        - Beaches
        - Concert
        - Contest
        - Festival
        - Museums
          - ArtMuseum
          - HistoryMuseum
      - Park
        - StatePark
        - ThemePark
      - Zoo
        - PettingZoo
    - Camps
      - SummerCamp
    - DanceStudio
    - FarmersMarket
    - Farms
      - UPickFarm

- Libraries
    - Neighborhoods
    - Playgrounds
  - Volunteer
- Health
  - Fitness
  - MentalHealth
- Animals
  - Pets
    - Cats
    - Dogs
- Regions
  - State
    - Florida
      - Clearwater
      - Orlando
      - StPetersburg
      - Tampa
        - TampaBay
      - WinterGarden
- Home
  - Beauty
  - Birthday
  - Craft
  - Education
    - BackToSchool
  - Kitchen
    - Recipes
  - Parenting
    - ElementaryYears
    - HighschoolYears
    - Infancy
    - MiddleSchoolYears
    - PrePregnancy
    - Pregnancy
    - ToddlerYears
    - YoungAdulthood
  - Style

The top-level categories are:

- Health
- Home
- Animals
- News
- People
- Regions
- Things-To-Do

There is room to expand and room for debate. I have covered most (~600) of the categories/tags from your spreadsheets, but some remain to be finalized. Feedback is key!

ns1:loc				done
<a href="https://tampabaydatenightguide.com/category/uncategorized/">https://tampabaydatenightguide.com/category/uncategorized/</a>				maybe done
<a href="https://tampabaydatenightguide.com/category/do/">https://tampabaydatenightguide.com/category/do/</a>				ignored
<a href="https://tampabaydatenightguide.com/category/events/">https://tampabaydatenightguide.com/category/events/</a>				tag
<a href="https://tampabaydatenightguide.com/category/cheapfree/">https://tampabaydatenightguide.com/category/cheapfree/</a>				location
<a href="https://tampabaydatenightguide.com/category/eats/">https://tampabaydatenightguide.com/category/eats/</a>				
<a href="https://tampabaydatenightguide.com/category/drinks/">https://tampabaydatenightguide.com/category/drinks/</a>				
<a href="https://tampabaydatenightguide.com/category/getaways/">https://tampabaydatenightguide.com/category/getaways/</a>				
<a href="https://tampabaydatenightguide.com/category/girls-night-out/">https://tampabaydatenightguide.com/category/girls-night-out/</a>				
<a href="https://tampabaydatenightguide.com/category/deals/">https://tampabaydatenightguide.com/category/deals/</a>				
<a href="https://tampabaydatenightguide.com/category/holidays/">https://tampabaydatenightguide.com/category/holidays/</a>				
<a href="https://tampabaydatenightguide.com/category/holidays/christmas-lights/">https://tampabaydatenightguide.com/category/holidays/christmas-lights/</a>				
<a href="https://tampabaydatenightguide.com/category/celebrate-fall/">https://tampabaydatenightguide.com/category/celebrate-fall/</a>				

I think that many of the very specific tags your authors have used can be represented by selecting 2 or more categories. For instance, the tag “thanksgiving-fall-food-dinner” is a bit silly, and can be better represented by selecting the categories: *Thanksgiving*, *Fall*, *Dining*, *Dinner*.

### Sitemaps

One thing you mentioned to me was the difficulty in semantically representing what a Pumpkin Patch is. I believe fringe things like this can now be adequately represented:

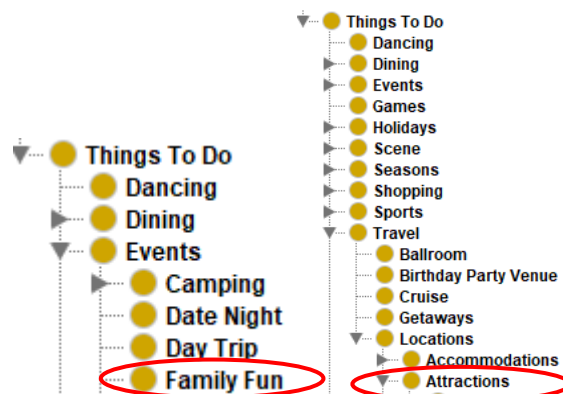


So, the sitemap URL would look like:

*www.yoursite.com/category/things-to-do/seasons/fall/fall-festivals/pumpkin-patch*

When a search engine sees your post under this directory in the sitemap, it has greater semantic depth than if it were just tagged with *pumpkin-patch*, i.e., *www.yoursite.com/tag/pumpkin-patch*

Further, if you categorize such a post with more than just this one category, by also categorizing it under say, *Family Fun* and *Attractions*, your post has 3 degrees of improved sitemap semantics.





[illegible]

I have future plans on enforcing a few tag “bins” to keep things slightly more organized and re-usable. For instance, there are many, many tags about particular types of food, e.g., ribs, steaks, kombucha, mimosas, chocolate, etc., that are too infrequently used and too specific to consider categories; *but*, it is sensible to “bin” these tags under the category, *Dining*, i.e., *Food*. These tag “bins” can be pulled from the taxonomy I’ve created as needed. So, instead of having tags like:

- [www.yoursite.com/tag/chocolate](http://www.yoursite.com/tag/chocolate)
- [www.yoursite.com/tag/hot-yoga](http://www.yoursite.com/tag/hot-yoga)
- [www.yoursite.com/tag/asian-noodles](http://www.yoursite.com/tag/asian-noodles)

Your sitemaps would retain some organization, and your authors would be less likely to create new tags, with:

- [www.yoursite.com/tag/food/chocolate](http://www.yoursite.com/tag/food/chocolate)
- [www.yoursite.com/tag/food/asian-noodles](http://www.yoursite.com/tag/food/asian-noodles)
- [www.yoursite.com/tag/fitness/hot-yoga](http://www.yoursite.com/tag/fitness/hot-yoga)

It remains to be seen, but I think keeping the tag “bins” just 1-deep, and not a full taxonomy like your categories, makes more sense. In any case, determining what “bins” are needed will come from the taxonomy itself and the precedence of your posts. Food is definitely one, but there are others.

### Conclusion

Summarizing, this was a very successful preliminary investigation into the project. In reality, despite the seeming diversity of the domain, it is rather restricted, and easily extended, given the taxonomy I have developed. I still intend to finish integrating the remaining tags/categories from your spreadsheets with the taxonomy, and also working to make the tag “bins” for the too-specific terms. I also want to cross-reference/integrate with your competitors tags, ThatsSoTampa and TampaMagazine. That might be a worthwhile investigation.

At your service,

Tyler

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