




MemoryLane User Guide

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 **MemoryLane**

Category:

Tags:

Concepts:

Keywords:

How do you feel about this site?  **No Feeling**

For what are you saving it?

How did you search it?*


Which place is it about?*

Who might also be interested?*

When do you want to be reminded?*

Is it related to any local file?* No file chosen

--All fields with * are optional--

powered by 

1. Introduction

Definition of MEMORY LANE

: an imaginary path through the nostalgically remembered past

MemoryLane aims to provide a better way for users to organize and retrieve their bookmarks (favorites) by asking them for context information as to construct a personal set of memory cues to remember by.

Traditionally, hierarchical folder structure was offered for organizing bookmarks whereby users create semantically meaningful folders and sub-folders to store web pages accordingly. However, inherent limitation of folders, that it allows only one-to-one relationship, proved to be counter-intuitive when it came to locating a single source obscured in semantic depth. To solve this problem, tags (e.g. Delicious, Diigo) have been proposed to allow users to add as many meaningful labels as needed to their bookmarks for better and faster retrieval. Perplexingly enough, no single study has been able to empirically prove the better performance of tags (or folders) in retrieval. If both tags and folders fall short of being the effective retrieval method, what other cues could be provided to improve retrieval performance of saved bookmarks? This consequently leads us to examine more closely how human brains manage and retrieve information. Cognitive science literature postulates that context information plays an important role in recalling memory: that is, target information can be retrieved better when context information (even when not semantically related) is provided as cues. Despite their significance, contextual cues are all but neglected in bookmarking tools of today. MemoryLane thus promotes users to annotate their bookmarks with various types of context information in order to help the organization by automatically sorting and categorizing. This may alleviate the difficulty in retrieving bookmarks faced by folder-based or tags-based bookmarking tools.

2. Pre-requisite

Context bookmarker is at the moment only available as Chrome extension. In the future, it will also be offered for smartphones.

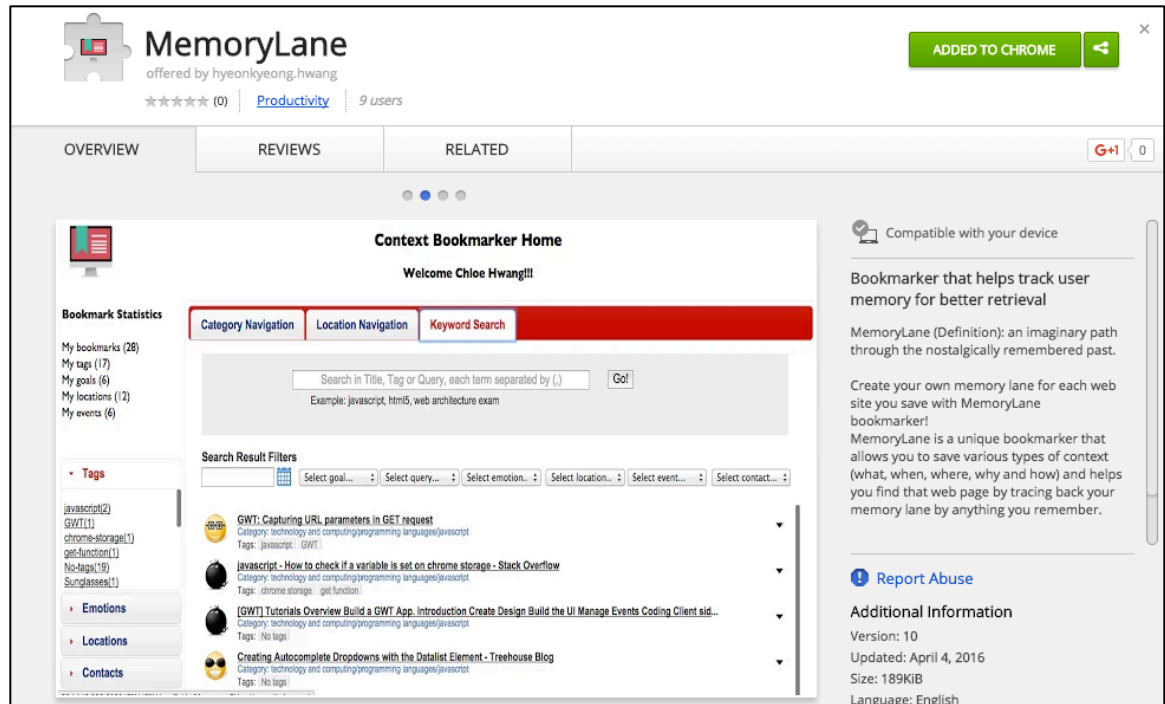
- Chrome browser
- Google account (if not, you cannot log in to use the tool. Context bookmarker uses the safe official Google authentication 2.0 process)
- Please use Google search engine for the moment for searching information. In the future, this will be extended for all major search engines). It is highly recommended that your default search engine is set to Google in your Chrome browser setting for optimal results.

3. Installation

MemoryLane (Version 10) can be installed from Chrome web store by going to:

<https://chrome.google.com/webstore/detail/memorylane/mbcggcgmpkoeiaiofenlonfdkpgabk>

- Click on “add to Chrome” button
- Please click on “Add extension” button when prompted



- Once installation is completed, you will see MemoryLane (chrome extension) logo on your Chrome browser bar
- Click on the extension button. It will ask you to log in with your Google account.
- If it is your very first time to log in, Google will ask you to allow permission for access to certain Google services. These include:
 - 1) Google contacts
 - 2) Google calendar
 - 3) Google location
 - 4) Your Google profile
 - 5) Google mail
- Please click on “Allow” button. This will be shown to you only once.
- The very first time, it may take some time to log you into MemoryLane.
- Now you are ready to use the MemoryLane! Please open a web page and click on the icon to start bookmarking!



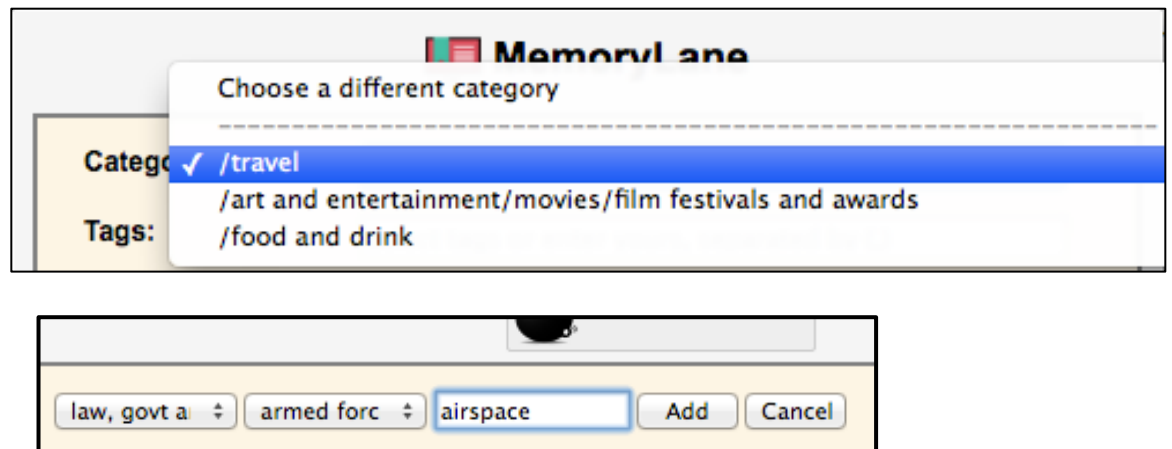
4. Functionality

Context bookmarker is made up of two parts. The first is the chrome extension where you can add bookmarks and the second part is the homepage where you can view, browse and search your saved bookmarks.

1) Chrome extension

When you click on the chrome extension icon in your Chrome browser, you will see the pop-up. May of these fields are automatically populated by the system. However, user can review and edit them as necessary. Please make sure you think about what you would probably remember about this particular web page.

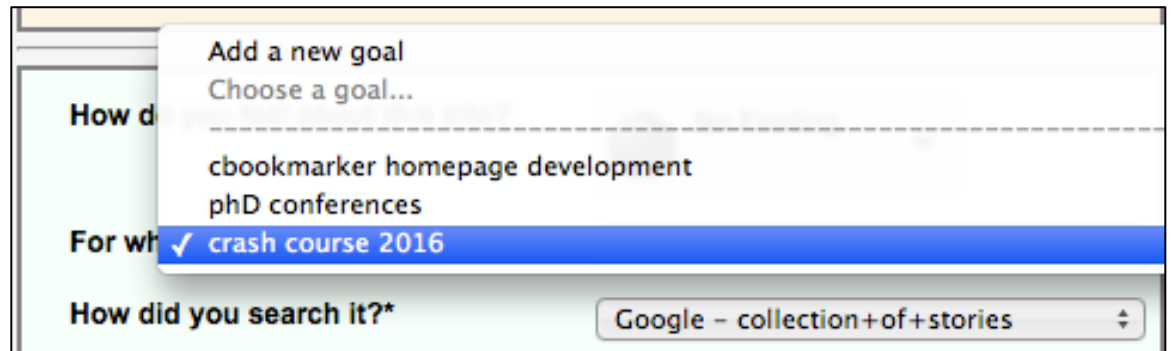
- **Category (Automatic, Editable)** – MemoryLane extracts the category of the web page content and displays it in the category field. As this is done by machine, it might not be correct at times. In that case, you can simply choose your own category by clicking on “Choose a different category” and selecting appropriate category among the given options. Category is of 3-levels. The first 2 levels (top->narrow level 1) will be provided by the system. However, if you want, you can decide the last 3rd level as shown in the screenshot.



- **Tags (Automatic extraction, Click on the term to add)**
Tags can be added by clicking on the terms provided below. The terms (concepts and keywords) are automatically extracted based on the web page content. Each tag should be separated by a comma (,).
- **Emotions (How do you feel about this site?)** – this asks for your own reaction to the web page you are saving. Do you find the web page happy, sad or shocking? The default is set to “No feeling”.

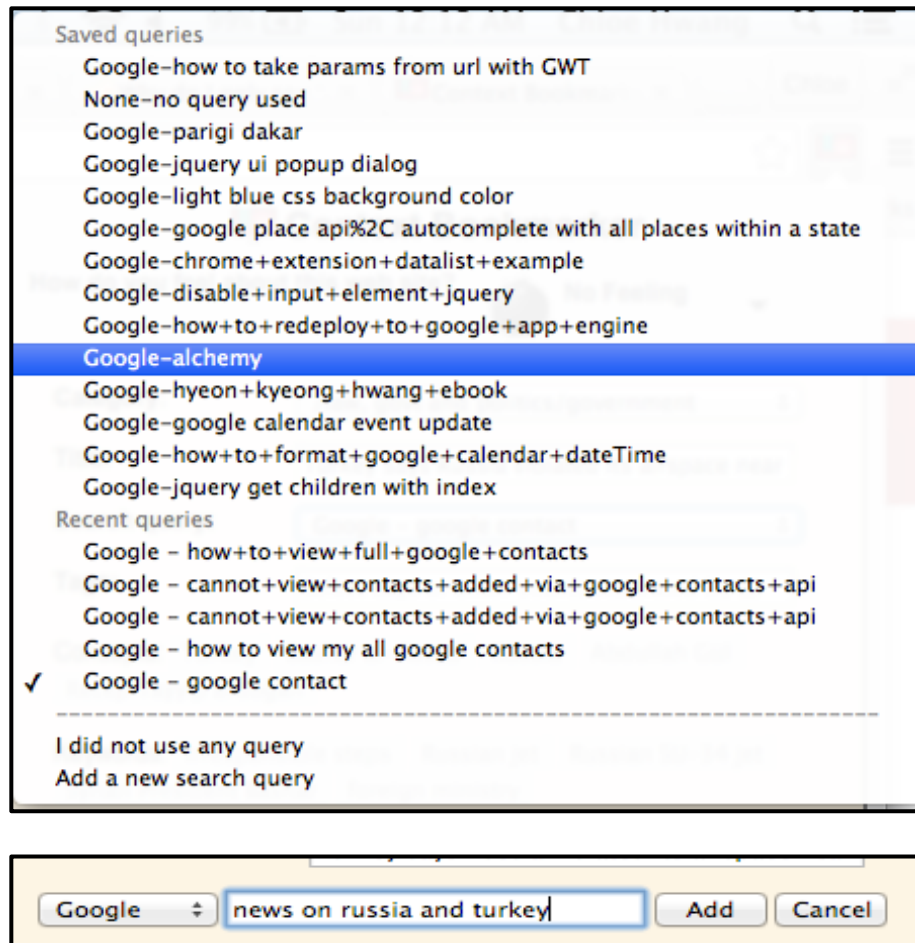
- **Goal (For What are you saving it?)**

Goal refers to the main “purpose” which you wish to accomplish. This can be regarded as the “Projects” or “To-do” for which you are saving the bookmarks. Typical example could be “term paper”, “accounting exam”, “Alice’s birthday”, “buy a new car”, etc. Goal can be added by clicking on “Add a new goal”. The list will show the goals which you already saved as options.



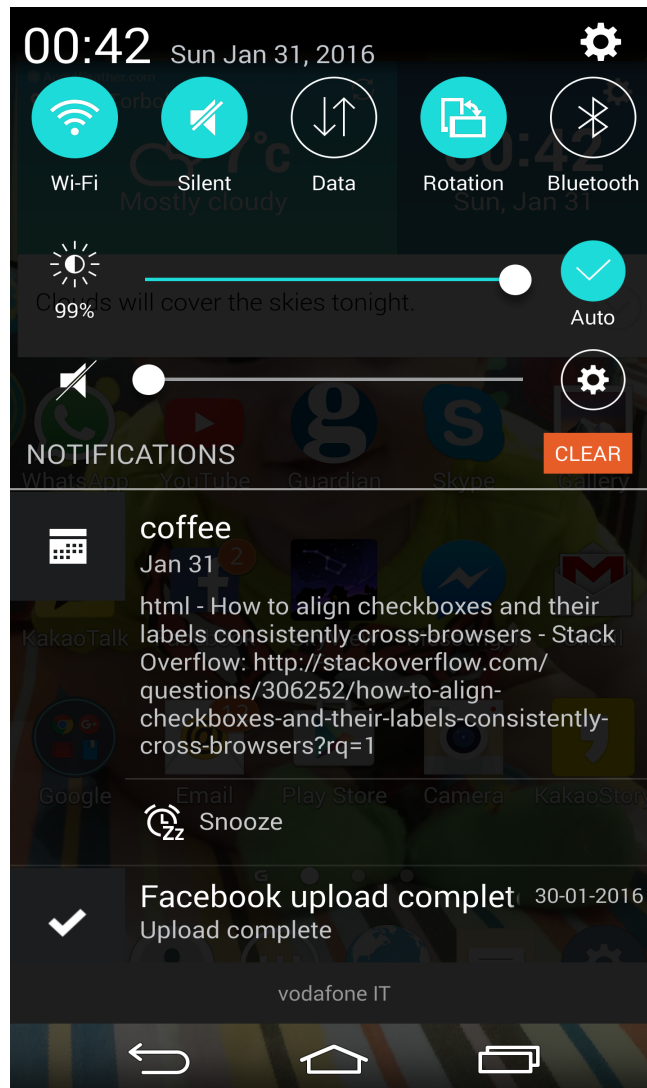
- **Search query (How did you find this page?)** – this asks for the search query you might have used to arrive to this particular web page (e.g. you searched for “best pizza in Italia” in Google). Context bookmarker automatically parses your browser history to find the search queries you used with Google search engine and shows them in the list. If your Chrome browser default search engine is set to Google, then you can also type the search word directly into your browser address bar. If you used a different search query and context bookmarker does not show it in the list, then you can also add it manually by choosing “add a new query”. If you did not use any search query to find this web page, you can simply choose “I did not use any query”.

(Known issue) – the search query may include odd symbols such as “+” or “%20”. This will be fixed in the next version.



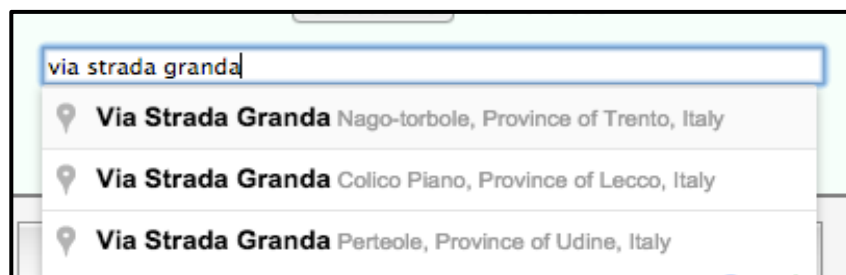
- Contacts (Who might also be interested?)**
 Contacts are “people”. It asks if this web page is being saved to share with a particular person or is related somehow to a person or it reminds you of a particular person. An example would be that if you are browsing the web to buy a present for Alice, then you could associate this bookmark to Alice. A new contact can be added per need. The contact will be added to your Google contacts and bookmark will be associated to the new contact. In the future release, you will be given an option to send an email with the bookmark URL directly to any of the contacts you choose.
- Events/Reminder (When do you want to be reminded?)**
 Very often we forget the bookmarks we save for a certain day or event. With context bookmarker, you can associate the bookmark to an existing event or even create a new event so that you will be reminded. This event association can be either 1) you found this web page during a certain event (e.g. during weekly meeting) or 2) you want to be reminded of this bookmark for a future event. The bookmark will be automatically inserted to your selected event in Google calendar and you will receive

reminder along with the bookmark information. For instance, I associated my bookmark to a coffee appointment and I received following reminder on my phone. Adding a new event is simple. Context bookmarker uses the “quick add” feature of Google calendar, which allows you to type in a simple text (e.g. meeting tomorrow at 3pm) and adds it as event to calendar at 3pm for tomorrow automatically.



- **Related File (Is it related to a local file?)**
This asks if this bookmark is related to any of the local file you have on your computer. If you find a web page while you are writing a doc document, you can associate the bookmark to your doc file. This will also allow you to search your bookmarks based on the local file.
- **Location (Which place is it about? Or Where are you at the moment)**

Location asks if the bookmark is associated with a certain location. Users can use this for 2 different purposes. First, you can use the current location (where he/she is at the moment) where you found your web page. Or you can specify the location, which the web page talks about or related to. For example, if you are bookmarking a piece of news about Syria at home. You can either specify the location as your “home” by typing in your home address or you can directly put “Syria” as the location of the bookmark. Whichever location you are more likely to remember is the location you should specify. Adding a location can be done by choosing “Add a new place” and typing in the location name. Locations are pulled from Google places and you can specify any location in the world.



2) Home page

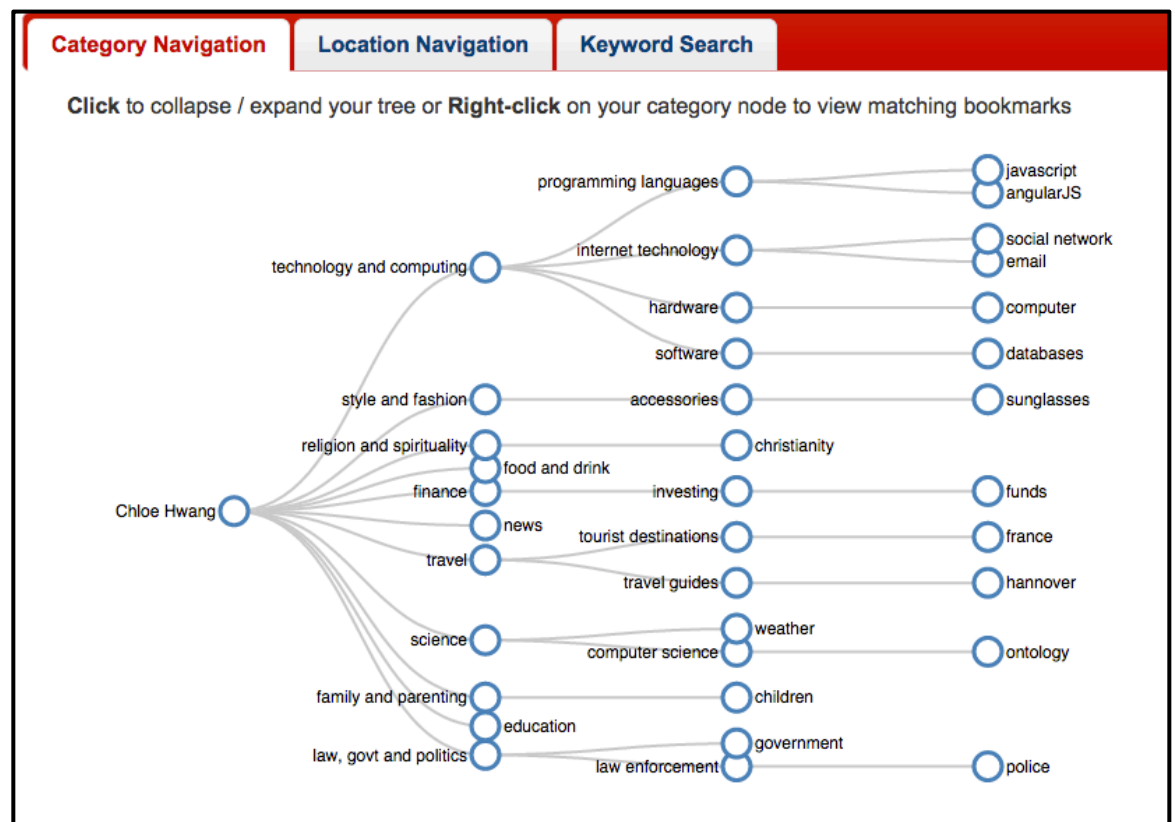
User can access home page by clicking on “Go to Homepage” button from the popup. Home page is where you can view and search your saved bookmarks. There are 5 different ways to view your bookmarks in your home page. When you accessing the home page, the browser may ask you to permit access to your current location. Please allow it.

- **Navigation on the left**

On the left of the home page, you will see bookmarks are categorized by different context information. You can view bookmarks based on their tags, emotion, location, event or contact. Clicking on the link will open up a dialog that shows all matching bookmarks.

- **Category navigation**

This tab shows all the categories to which your bookmarks belong. You can click on the node to collapse or expand your category tree. By **right-clicking each node**, you can view the matching bookmarks to the chosen category.



Category NavigationLocation NavigationKeyword Search

Click to collapse / expand your tree or Right-click on your category node to view matching bookmarks

technology and computing

programming languages

internet technology

hardware

software

style and fashion

accessories

javascript

angularJS

social network

email

computer

databases

sunglasses

Matching Bookmarks

f6s.com - #1 for startup founder deals, accelerators & funding | F6S

Category: finance/investing/funds

Tags: No tags

Date: 11 January, 2016

Goal: Doctoral thesis program

Query Used: None-no query used

Location: Hotel Baia Azzurra

family and parenting

education

law, govt and politics

children

government

police

- Location navigation**

This tab will show you all the locations you have associated your bookmarks with in the world. By clicking on the location marker, you can zoom in. if you want to view bookmarks related to a location, you can right-click to view them.

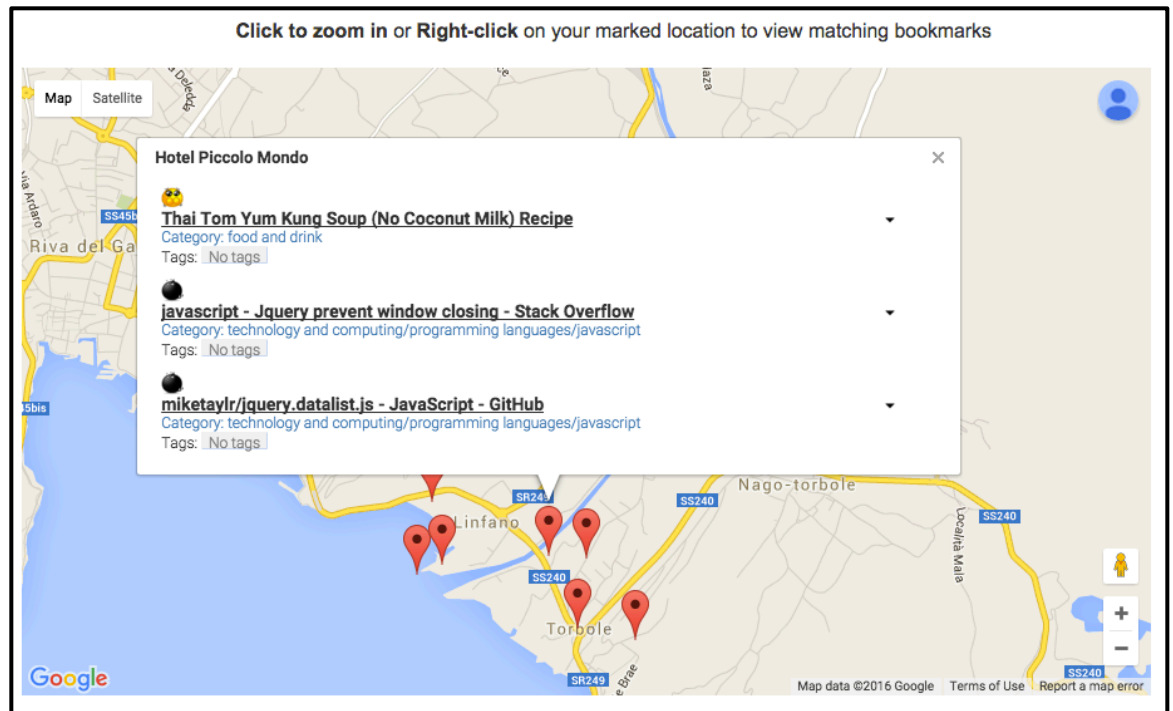
Category NavigationLocation NavigationKeyword Search

Click to zoom in or Right-click on your marked location to view matching bookmarks

Map Satellite

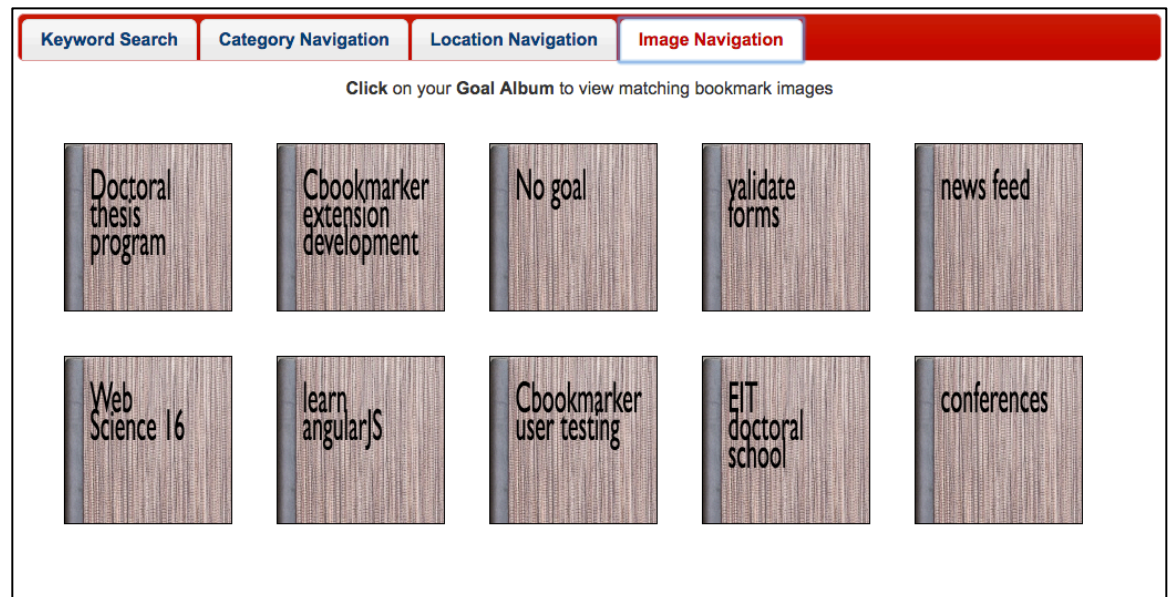
9&uname=Chloe Hwang#bylocation

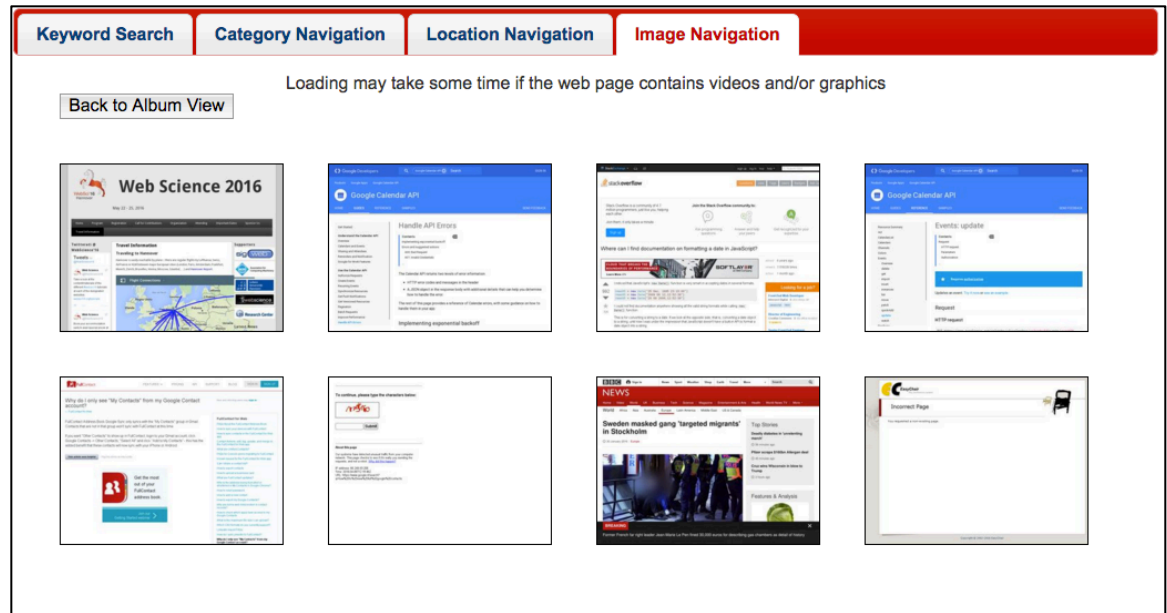
Map data ©2016 Terms of Use



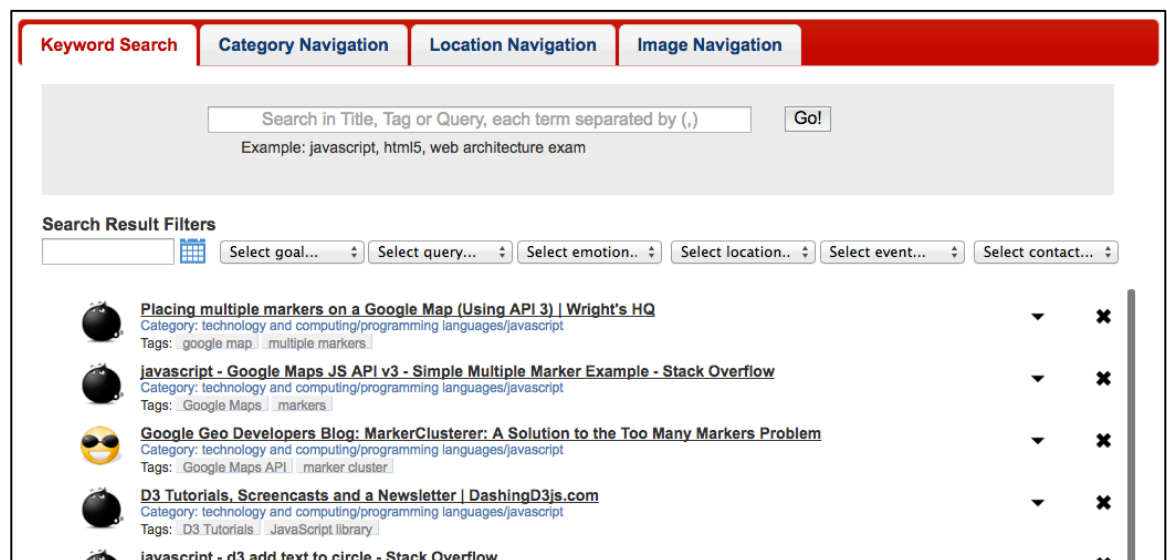
- **Image Navigation (Work in Progress)**

You remember nothing about your bookmark but you remember how it looked? Image navigation allows you to view your bookmarks visually. Bookmarks are organized in Goal-oriented “Albums” and each album contains the images of the bookmarks.





- Keyword search**
 It allows you to search your bookmark by specifying a keyword contained in tags, title or your goal. Moreover, you can filter the search results by various types of context information using the search result filters.



5. Questions & Bug report

Please ask questions or report bugs to hyeonkyeong.hwang@unitn.it