

Group Diary: “Viennese Summer” Web Mapping Project

Group Members:

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April 8th-14th: Topic Selection and First Stage Data Collection

Group Meeting (2 hours per member)

- All members: Discussed project requirements, brainstormed potential topics within the “Urban Network” theme, and agreed on a concept within outdoor activities and sports during the summer in Vienna. As the next step, we decided to search for relevant datasets to refine the web mapping project concept based on the available data. We also agreed to look for other web maps as reference and inspiration.

Individual Work (2 hours per member)

- All members: Searched for data inside the theme to refine the mapping project concept. The data was mostly retrieved from the Open Data Austria Website, Stadt Wien sources, and the <https://wasserin.wien> website. Among the data collected at this stage were:
 - ‘Park locations within Vienna’ (‘Parkanlagen Standorte Wien’),
 - ‘City hiking trails and all-round hiking trail Vienna’ (‘Stadtwanderwege und Rundumadum Wanderweg Wien’),
 - ‘Sports Venues Locations Vienna’ (‘Sportstätten Stadorte Wien’),
 - ‘Swimming Pools Locations’ (‘Schwimmbäder Standorte Wien’).

All these datasets were retrieved from <http://www.data.gv.at>. Other datasets, not mentioned above, were also retrieved but, within the next stages they were no

longer relevant to the web mapping project concept, therefore they were dismissed.

April 15th- May 5th: Web Map Conceptualization and Second Stage Data Collection

Group Meeting (2 hours per member)

- All members: Discussed the collected datasets, and collectively reviewed the referential web maps we found online. Subsequently, we agreed on the final title of our web mapping project to be “Viennese Summer”. And discussed the further steps to be taken by dividing them into personal tasks.

Individual Work

Brenda (2 hours) Creation of the concept board, with a thematic color palette, open fonts, and referential pictures related to the theme. Exploration of other web pages as a reference.

Nargiz (3 hours) First pre-processing of the ‘Sports Venues Locations Vienna’ dataset. The elements of this dataset needed to be categorized to be filtered and displayed on our web map. For this purpose, a new field was created and all elements within the dataset were sorted according to the categories we collectively found relevant. These new sub-categories were:

- Beach volleyball
- Bocce ball
- Climbing
- Fitness equipment
- Golf
- Mini golf
- Multisport grass field
- Multisport hard court
- Skate park
- Table tennis

Irene (3 hours) Collection of the 'Drinking Fountains Locations in Vienna' ('Trinkbrunnen Standorte Wien') dataset from the <http://www.data.gv.at> website. Exploration and pre-processing of the 'Hiking Trails' dataset.

Joselyn (2 hours) Collection of the 'Historical Gardens in Vienna' ('Historische Gartenanlagen in Wien') dataset from the <http://www.data.gv.at> website. Exploration and pre-processing of the 'Drinking Fountains Locations in Vienna' dataset.

May 6th- May 19th: Final Conceptualization and Data Preparation

Group Meeting (2 hours per member)

All members: Discussed the results of the individual tasks and decided to finalize the data collection stage of the project. All members agreed on the color palette and overall concept of the web map. As well as reaching a final stage for the data preparation process within the next weeks.

Individual Work

Brenda (2 hours) Refinement of the conceptual design and transformation of the initial concept board into the first sketches of the web design layout and content. This activity considered the referential web maps reviewed in the earlier stages.

Nargiz (4 hours) Research techniques, coding, CSS frameworks, and plug-ins that can be integrated into the web map to achieve our desired design and interactivity.

Irene (2 hours) Collection of the 'Main Cycle Network' ('Hauptradverkehrsnetz') dataset from the <https://wien.maps.arcgis.com/apps/Cascade/> website. Exploration and consultation on this dataset. As we further refined the concept of the web map, this dataset was later dismissed and no longer included in the project.

Joselyn (4 hours) Finalizing data preparation of the 'Drinking Fountains Locations in Vienna' dataset. This activity includes summarizing the data from fourteen sub-categories into six collectively decided ones based on the fountain's function. These new sub-categories were created within any field inside the dataset and consisted of:

- Drinking
- Pet Drinking

- Groundwater supply
- Outlet supply
- Ornamental
- Recreational

Within this dataset, another new field was created to include the translation of the initial 14 fountain typologies from German to English. This aimed to display a more detailed description of the fountains in their pop-ups. The translated typologies were:

- Type 1 = Groundwater Fountain
- Type 2 = Pet Drinking Fountain
- Type 3 = Playing Fountain
- Type 4 = Drinking Fountain
- Type 5 = Drinking Fountain
- Type 6 = Ornamental Fountain
- Type 7 = Outlet Fountain
- Type 10 = Drinking Hydrant
- Type 11 = Spray Mist Shower
- Type 12 = Floor Fountain
- Type 13 = Water Play Fountain
- Type 14 = Mobile drinking fountain with spray mist function
- Type 17 = Outlet fountain for drinking
- Type 18 = Hydrant for drinking

May 20th- May 26th: Final Data Summarization and Individual Task Assignment

Group Meeting (2 hours per member)

All members: Discussed the results of the earlier stage and decided on the final datasets to be included on the web map. This included the final steps to pre-process all datasets. Further individual tasks were assigned to each member to achieve this goal. Besides the final pre-processing stage, individual tasks were also assigned regarding the construction of the website itself as well as the design of the web map.

Individual Work

Brenda (8 hours) Writing the HTML script for the website in their initial stage. This is according to the website sketches and conceptual designs defined in the earlier stages.

Nargiz (3 hours) Initial stage of work to display all datasets within the Leaflet map.

Irene (3 hours) Finalizing preparation of the 'Historical Gardens in Vienna' dataset. The difficulty of this dataset was that it considered Historical Gardens that were also private. Our web map aims to display public locations. Therefore, the dataset had to be further processed. To accomplish this, the 'Parks Locations in Vienna' point dataset was used to cross information with the Historical Gardens to maintain only those within the public domain.

Joselyn (2 hours) Initial search for all the icons needed to display all categories and sub-categories within the map.

May 27th- June 2nd: Initial Website and Web Map Design

Group Meeting (2 hours per member)

All members: Discussed the results of the previous stage and made final design decisions regarding the web map icons for the interface. This included establishing two levels: categories and sub-categories. Since there were too many sub-categories, the group concluded that there should be five main categories at a higher level. This hierarchy will later be used to cluster all sub-categories. The five higher-level categories were decided to be:

- Outdoor activities (10 sub-categories)
- Water fountains (6 sub-categories)
- Swimming locations
- Historical gardens
- Hiking trails (2 sub-categories)

Individual Work

Brenda (4 hours) Further refinement of the website design. Therefore, further development of the HTML script for it. This activity includes collecting and working on

the content (images, texts, references), and verifying the respective licenses and attribution requirements.

Nargiz (4 hours) Support the overall website design by sketching a Figma version of the final website that will then support collectively discussing it. Link to the Figma:

<https://www.figma.com/design/GgEtClPkEqcvtO2F9kWowl/Webmapping-sketch?node-id=0-1&t=WgG5XcMMZ4REdicH-1>

Irene (4 hours) Visualizing all pre-processed datasets within the 'Leaflet' map. This included later dataset processing and management, as well as starting to work on the interactivity functions of the map such as filtering and clustering.

Joselyn (4 hours) According to the categories and sub-categories decided, search and edit the icons to be displayed on the web map. This activity included retrieving free open icon designs from the <https://thenounproject.com/> website, retrieving their licenses and attribution requirements, and editing their sizes and colors to match those of the color palette in a meaningful way according to their meaning.

June 3rd: Initial Website and Web Map Building

Group Meeting (3 hours per member)

All members: Discussed the results around the website Figma design developed in the previous stage. Every member added their ideas and perspectives to it. A collective content-gathering activity took place. This included reviewing content on the topic (own pictures, etc.) After this, on-site individual activities took place.

Brenda: Translating the Figma design into HTML script to be included in the website's previous design (HTML script). Finalization of the preprocessing of the 'Hiking Routes in Vienna' dataset.

Nargiz: Working on translating the Figma version of the website into HTML script, and researching scripts for clustering and filtering functions on the website.

Irene: Defining the base map for the final web map, searching for content such as pictures from the internet or personal collections, and visualizing the datasets on the newly selected base map.

Joselyn: Retrieving content for the website and verifying their respective licenses.

June 8th: Construction of the Website and Web Map Interface

Group Meeting (3 hours per member)

All members: Continued working on their previous tasks, both on-site and individually. At this stage, the main collective goal was to submit the prototype by June 10th.

Individual Work

Brenda (4 hours) Development of the HTML script for the website, as well as content retrieval. This includes manually writing all the code for all the elements of the website, as well as integrating the code developed by other group members.

Nargiz (4 hours) Development of the code for the interactive functions of the website. Research and application of CSS frameworks to achieve a more sophisticated design.

Irene (10 hours) Visualizing the datasets and final icons on the web map plus developing interactivity and filtering options.

Joselyn (4 hours) Finalizing the icon design involved adjusting the fill and stroke colors, opacity, and thickness. This task ran in parallel with Irene ´s work on displaying them on the web map, resulting in an ongoing back-and-forth process during the export.

June 17th, June 18th: Final Stages of the Website and Web Map Development

Group Meeting (18 hours per member)

All members: Carried out on-site work within these two days, this allowed collaborative teamwork.

Individual Tasks

Brenda: Manually writing the HTML script for the website and further content retrieval. Integration of all code from all group members. Content writing and organization within the website.

Nargiz: Further research and application within the code of CSS frameworks, plug-ins, clustering, and filtering codes to achieve the desired design and interactivity of both the website and the web map.

Irene: Code handling and finalization of the web map interface, integration of additional code developed by group members. Integration of interactive functionalities within the web map while ensuring its overall display and consistent aesthetic design.

Joselyn: Support on the overall graphic design of the web map elements. This includes further editing, graphics production, and any further editing required. Support of content retrieval. Writing of the Group Diary.

Final Working Hours Count

Member	Hours
Brenda	54
Nargiz	54
Irene	58
Joselyn	52

End of the report.