

Diamond:

An Online Tool for Card Sorting and Tree Testing

Group G3:

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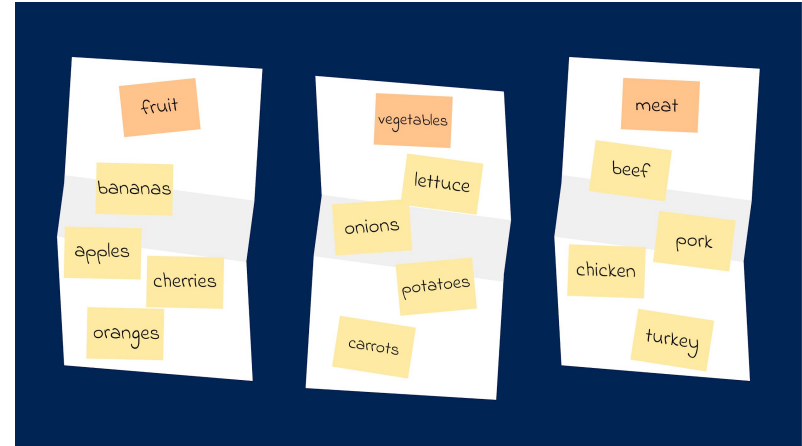
Project Final Presentation

27 Jan 2021

Information Architecture and Web Usability WS 2020/2021

Card Sorting

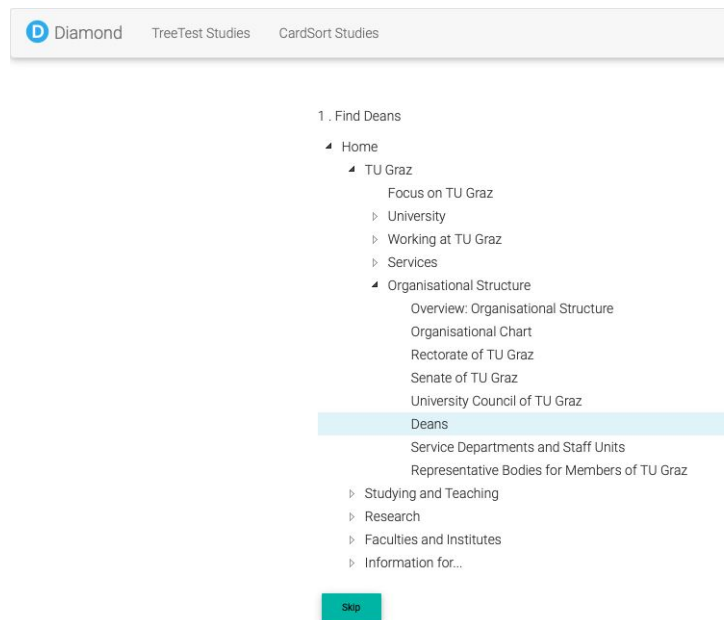
- Technique in user experience.
- Assign the different cards to the matching category.
- Low-tech approach
- Used e.g. for designing a navigation structure.
- Closed vs. open card sorting.



Drawn by Markus Stradner, inspired by the illustrations accompanying Sara Jee Watson's [blog post](#).

TreeTest

- Diamond is built on top of TreeTest, which allows running and hosting tree tests.
- Developed by Ajdin Mehic as part of his [Master's Thesis](#).
- Already implemented:
 - Angular framework.
 - User account handling.
 - Database interaction.
 - Server-Client Structure.
- Was built in Angular 7.



Screenshot of TreeTest's tree testing GUI captured by Markus Stradner in Safari 14.0.1 on macOS Catalina 10.15.7, 25 Jan 2021.

LIVE - DEMO

Diamond TreeTest Studies CardSort Studies

ADD GROUP FINISH

Cards (4)	Omnivores ^x	Carnivores ^x	Herbivores ^x
Elephant	Bear	Snake	Cow
Whale	Dog	Lion	
Butterfly	Mouse		
Badger			

Screenshot of Diamond's card sorting GUI captured by Markus Stradner in Safari 14.0.1 on macOS Catalina 10.15.7, 25 Jan 2021.

[SHOWCASE VIDEO](#)

Used Technologies

- Angular 11 with TypeScript for frontend.
- Node.js to run the server.
- MongoDB to store user data and test results.
- Translation file for English ↔ German translation.
- Heroku for online deployment.

Heroku Hosting

- Is a container-based cloud Platform as a Service (PaaS).
- Free of charge.
- Account is needed.
- Connected GitHub repository to Heroku.
- Created Heroku branch for automated deployment.



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Results

- Diamond supports tree testing and open card sorting.
- Results can be viewed in browser or downloaded as .csv file.
- Diamond can easily be cloned and hosted.

Future Work and Improvements

- Multi-level card sorting (sub-groups).
- Closed/Hybrid card sorting.
- Improve in-app analysis and statistics.
- Questionnaires before/after testing.