Master Dissertation in Informatics Engineering

Advisor: Dr. Valentina Nisi



SANTA MARIA STREET

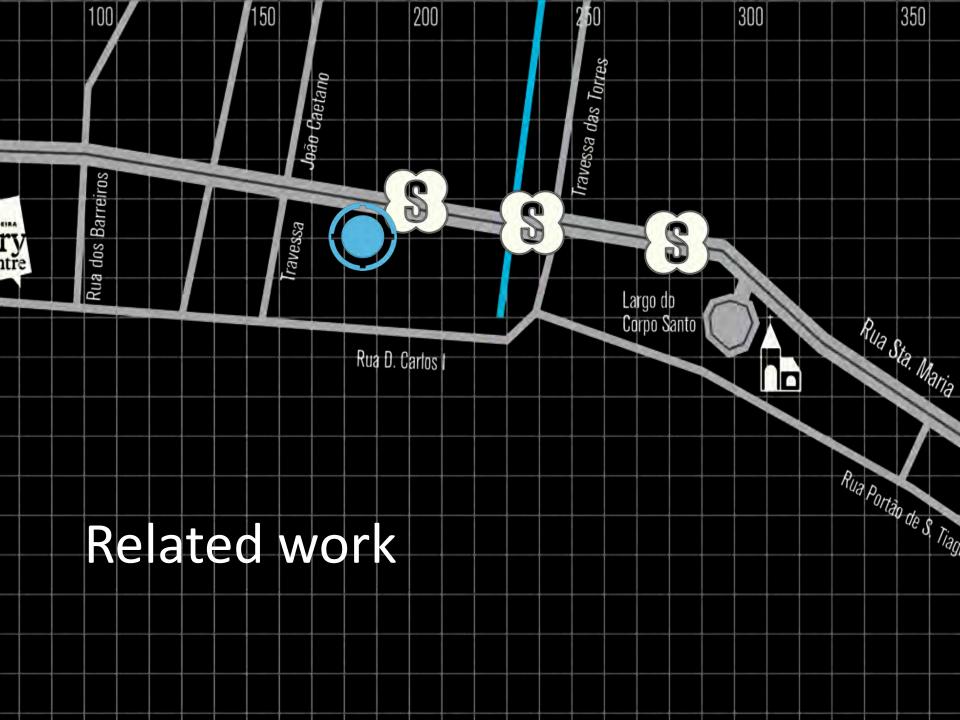
STORIES

Mara Sofia Gomes Dionísio

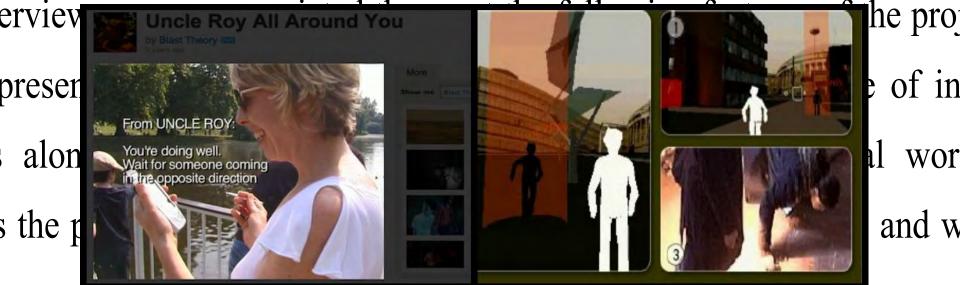


The 7Stories experience enables foreigners and locals to discover Madeira's rich oral culture and folktales while they explore Rua Santa Maria.

The experience is mediated trough a location awareness mobile application.



Uncle Roy All Around You by Flintham, M. et al (2003)



History Unwired by Michael Epstein, and Silvia Vergani (2006)





views lasted approximately 15 minutes. Notes were taken
Antonio statue that is thrown from a balcony uses an indoor setting
and the interviews (with the street of santa Maria as a reference
open codes, and then groupe dein coategories ory.



ar hardware platform and interface, used firm stories produced ies from local folktales

Evaluation Method



5 English-speaking users



Semi-structure interview



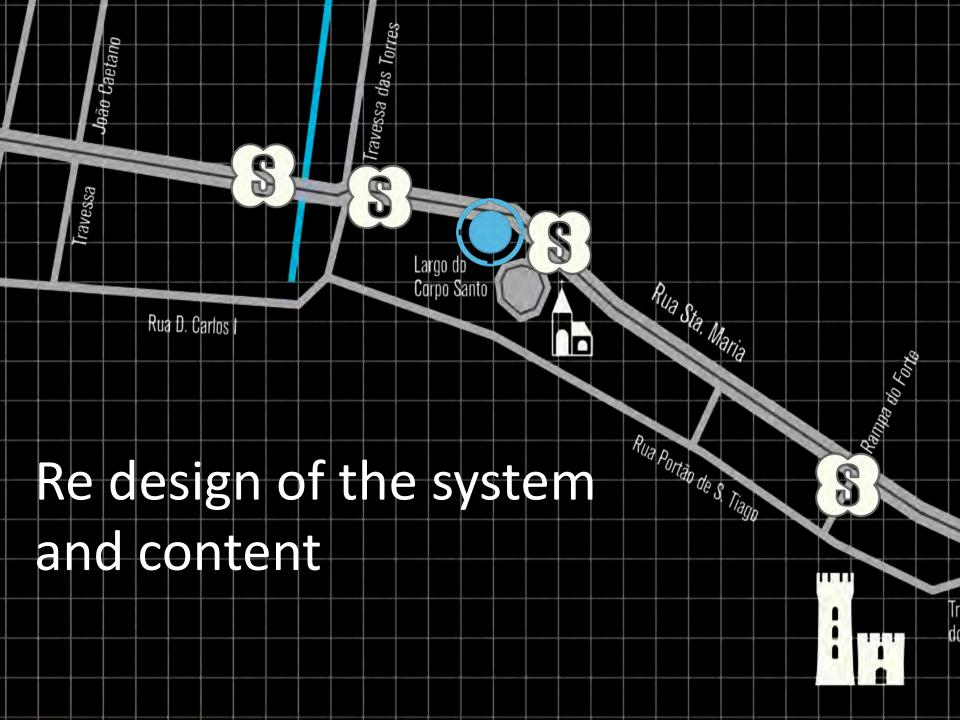
Shadowed participants Written notes



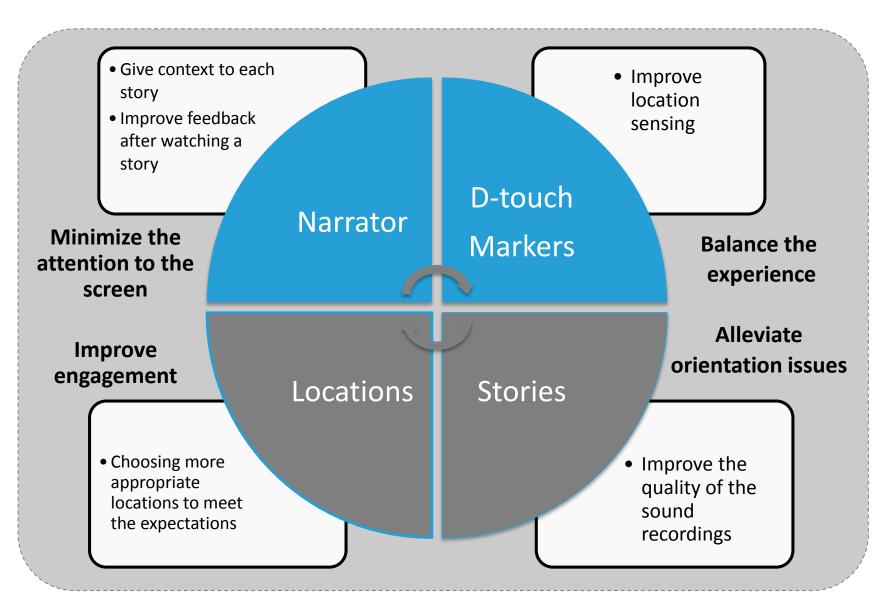
User Study: ~ 50minutes

Results

- Engagement:
 - Lack of context of the stories presented
- Location Sensing and Orientation Issues:
 - GPS did not work well in Rua Santa Maria
 - Lack of relation between the content and the location
 - Audience was confused about what direction to follow after viewing the story
- Screen Capturing Attention



Hypothesis

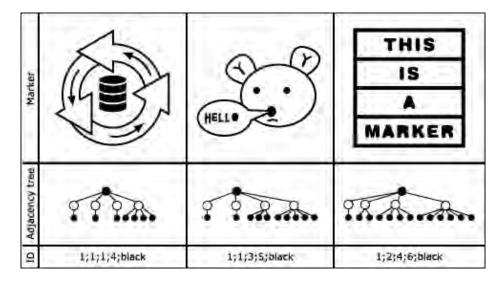


D-touch Markers

Developed by Enrico Costanza

 D- touch, is an open source system that allows users to create their own markers, and control their aesthetic qualities, by following some

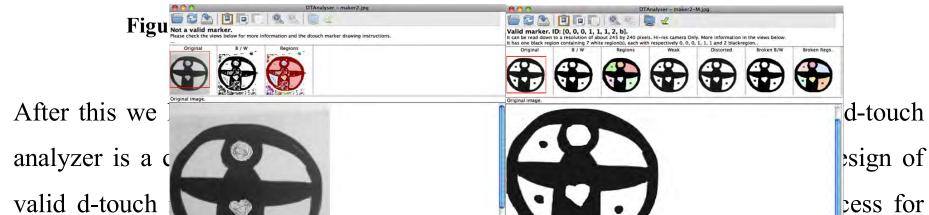
rules.



analyzer is a cross-platform desktop application developed to help in the design of valid d-touch markers and it reveled to be a fundamental tool for this process for designing the markers. Once the drawing is inserted into the analyzer it returns whether is valid askes or being a Orcher's helps out by



pointing out what are the problems. In case of being a valid marker it returns the ID associated with marker. This ID is crucial so that we can later associate each marker in a unique form with a story, therefore we could not create markers with the san In Figure 16, we can see a screenshot of the d-touch analyzer interface



designing the markers. Once the trawing 15 mscrea mo me





1:1:1

1:1:1:2:3







OPEN SCISSOR





2:2:2:2 **FORTUNES** THE CROSS

PASSING POWER

SPILLED MILK

STOLEN CANS

STO ANTONIO 1: THE STATUE

Markers <-> Stories

Witch1: Passing the power



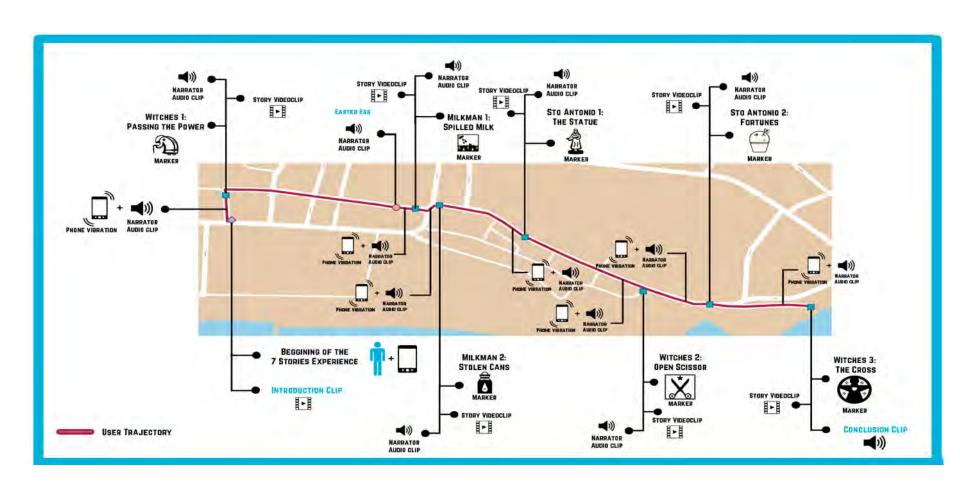
Narrator

- Inspired real historical figure from Rua Santa Maria
- Introduces the system, helps the users to find the markers
- Sets the mood before the stories and reinforces aspects of the surroundings after the users watch the stories
- Audio Format



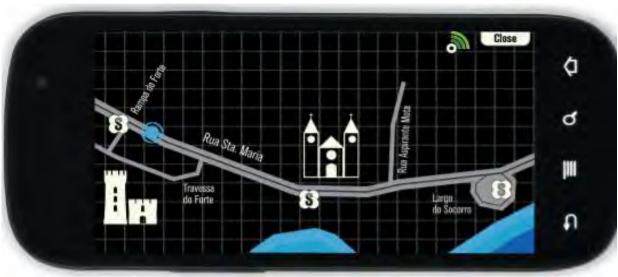


Blueprint of the Experience Design



High-Fidelity Prototype





High-Fidelity Prototype





te these layers work together to accomplish the 7S Implementation

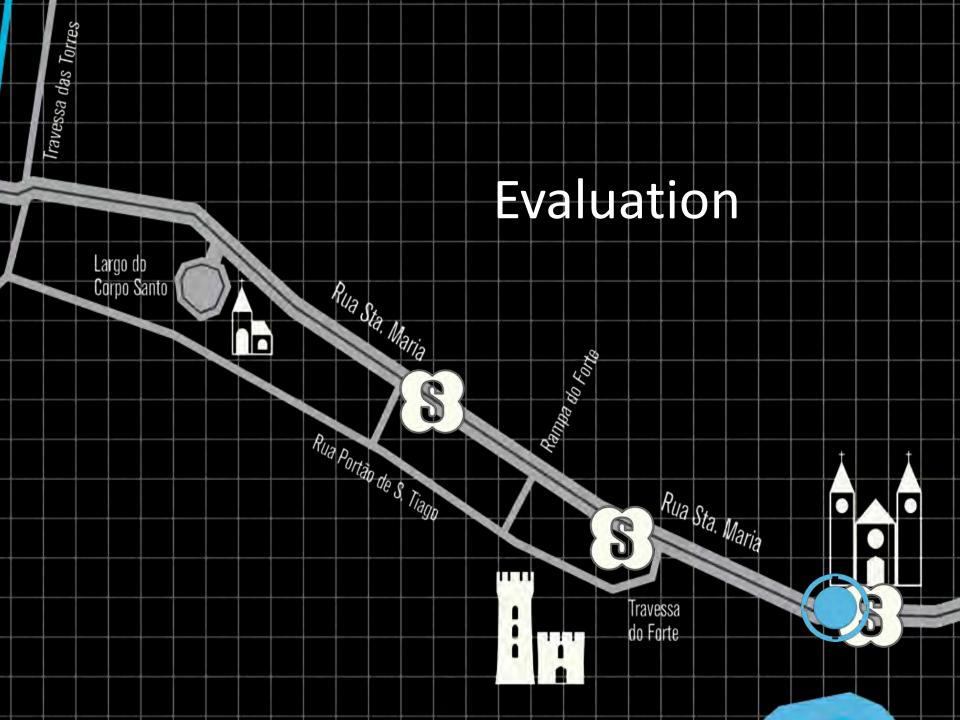
The describe the modules from the core of the application to



Figure 38 - 7Stories mobile application modules

Main Functionalities

- The tracking of the user position uses only the GPS data – offline map;
- All content is stored on the device;
- Associates the location of the stories, with narrator audio, the ID of d-touch marker and the the videoclip of the story;
- Allows content change rapidly;
- Reproduction of video and audio clips;



Evaluation Method



12 English-speaking users4 locals and 8 foreigners



Questionnaire: 30 questions Semi-structure interview



Shadowed participants
Written notes & Photographs



User Study: ~ 60 minutes (40min + 20min)

Results - Engagement

- Users enjoyed and reported feelings of immersion in the experience;
- 11 users out of 12 of the users found the stories engaging.
- The user did not engaged with the story also wish that the experience was shorter.
- Average grade of the overall experience was 8 over 10

"I will be waiting for new stories here or in another street." - Lucas "I learned about Madeira's folktales and enjoyed it." - Renata

Results - Orienting Function of the Narrator

- Positive response to the narrator indications
- Narrator was effective in orienting the users;
 - "some of the stories could make even better use of the surroundings (through the narrator) like it happens in the Santo Antonio statue, when the narrator says: look up! That's the balcony from where the statue fell from." - Lucio
- The narrator indications partially rely on the user being not too far from the story hotspot
 - "Where is this window that the narrator mention?"

Results - Markers as tangible feedback and reward

- When participants find a marker, they smile or nod, as they experience joy or reward;
- Finding a marker becomes a treasure hunt experience;

– "It looked like a treasure hunt with the videos (stories) as rewards" – João;

Results: Relationship between the physical space and the content

 There were no reports in terms of lack of context and lack of relationship between the space and the stories

"It was very cool to see in the Milkman story (referring to Milkman – Milk in the Levada) that it was shoot almost from the same angle as from where I was standing". – Nadia

"The best part was to be where everything happened" - Lucas

Discussion

- Design around technology failures;
- Carefully design and place the markers role in the experience
- Achieve a balance between the digital and physical
- Design and produce high quality and meaningful content affect the overall experience
- Consider the contextual and social aspect of the experience carefully (history, community, walking conditions, daytime, etc)

Future work

- Efforts should be made so that the experience is available across all versions of Android and iOS.
- Experience would benefit by being developed for a tablet equipped with GPS
- The narrator is a rich avenue to explore in future projects to guide users trough experience.
- Explore more the potential of using the markers in these sort of location aware experiences

Open Issues emerging with 7 stories:

Stories: are authored form word of mouth or cultural heritage such a s folklore. How to keep the content Open?

Technology: open source but hard to "hack" or costumize from non technical people

Markers: open semantic content. The markers can be designed by the story tellers or neighbourhood community as something they would host in ther neighbourhhood

Privacy: (Untested) Reaction of the local community to the narrator, as a real character, that people know and belongs to the life of the community. People would share stories with him, in his shop. Is it correct to share this stories with everybody, and specially with tourists? (connecting t the barber issues...(privacy)



A walk through the Mehringplatz neighbourhood

Who are we?

Futurefabulators.m-iti.org

Valentina Nisi, Mara Dionisio, Julian Hanna, Luis Ferreira, Paulo Bala, Rui Trinidade

Future Fabulators EU funded Project, Coordinated by Time's Up art collective



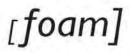






Time's Up





How did we get here

- Invitation from the Jewish Museum in Berlin through the Community Now? Symposium, Bianca and the Design Infrastructures group, part of the DRL UDK to produce an interactive mobile story to connect the museum to the sourrounding neighbourhood
- Challenge: How to portray the neighborhood around the museum, as it is seen form the inside and expose it to the general international public of the symposium
- How do make our audience care about the neighborhood and connect with its community and the issues that they care about?

The Jewish Museum





Mehringplatz

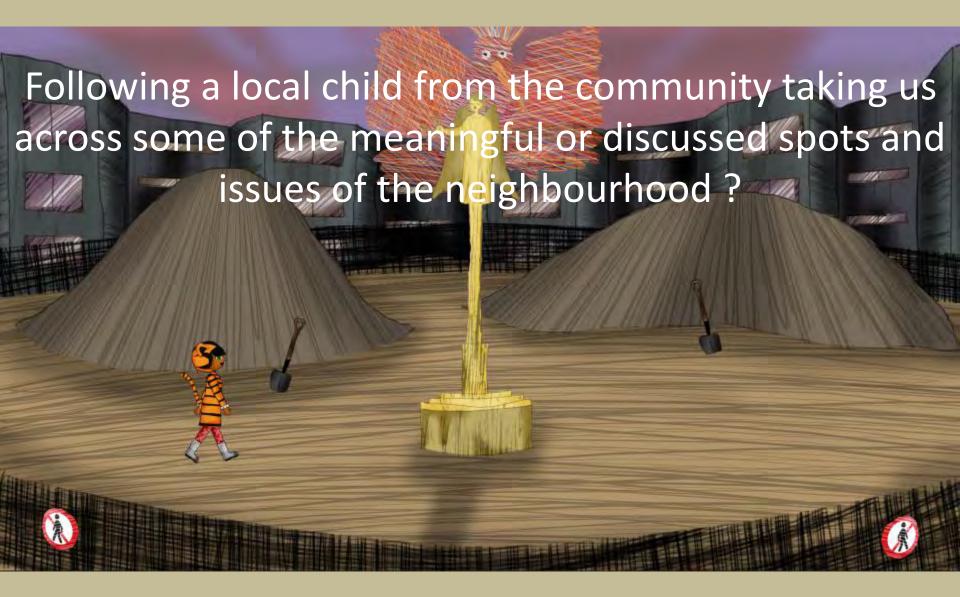








The idea



The neighbourhood through Yasmine's eyes:

Starting from the Pinpointing Mehringplatz workshop, identifying issues of the area by the community itself, we created Yasmine (fictional character): a local child that takes us on a walk of the neighbourhood from the Jewish museum to her home, in an attempt to run away from her teacher and go home on her own.

How does it work?







Findings and Open Issues

- Refinements to the content and application: content, giroscope instability, placing of markers
- User study; 20 users, tested for flow of the experience, connection to the neighbourhood and engagement with the story
- Preliminary results show that the application did connect the audience to the neighbourhood stimulating exploration and connections to it. More facts and historical news expected by some. Story found suitable for kids.
- Openness: Use of 3D landscape to aloud more embedding of content in the landscapes, without creation of new markers and giroscope calibration
- More potential for opening the content: integrate community comments, expand Yasmine adventures with more locations, but also just adding more info and comments

MORE....

ICEC 2015 procedings:

Yasmine's Adventures: An interactive urban experience exploring the socio cultural potential of Digital entertainment

Some articles about this project are still under review, butif you want to know more you can mail me and I can send them to you...