

# Collaborative Mobile Media

Bauhaus-Universität  
Weimar

## 03. Medium & Mobile

SS2013

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[http://www.uni-weimar.de/medien/wiki/IFD:Collaborative\\_Mobile\\_Media\\_SS13](http://www.uni-weimar.de/medien/wiki/IFD:Collaborative_Mobile_Media_SS13)



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# What is Medium

Semester schedule, including holidays



# What is medium



# What is medium

One of the simplest definition of medium (or media – in its plural form) is

- *“a means by which something is communicated or expressed”*

(“definition of medium from Oxford Dictionaries Online,” n.d.).

# What is medium

In other words, it can be interpreted as any item that carries some form of communication, such as paper, screen or radio. Media are strong tools in our society and play a strong role in enhancing the communication and expression between people.

# What is medium

An alternative definition by Hoenisch (2005), is that

- *“‘media’ includes any medium or object used to communicate a message or a meaning”.*

# What is medium

McLuhan goes further and defines that

- ***"The medium is the message"***



Marshall McLuhan

1964 - *Understanding Media:  
The Extensions of Man*

Image retrieved from <http://www.classroom20.com/profiles/blogs/marshall-mcluhan-s-tribal>



# What is medium



Video retrieved from <http://www.youtube.com/watch?v=oMUuHNP8ixY>  
Originally retrieved and edited from <http://www.youtube.com/watch?v=ImaH51F4HBw>

# What is medium

## Marshall McLuhan

(Edmonton 1911 – Toronto 1980)



- The medium is the message
- Global village
- Figure and ground media
- Tetrad of media effects
- Hot and cool media
- Predicted the World Wide Web

Image retrieved from <http://www.classroom20.com/profiles/blogs/marshall-mcluhan-s-tribal>

# What is medium

With those assumptions, the importance of the technological aspect is evident since it determines the way that the message is perceived. It is possible, therefore, to jump to the discussion of the relation between media and the environment.

# What is medium

There are several additional definitions of media, mostly gravitating around **three** main spheres:

# What is medium



the ***technology***  
which works as  
a propagation  
support;



the ***social*** role  
of this support;



the ***content***  
that is being  
transmitted.

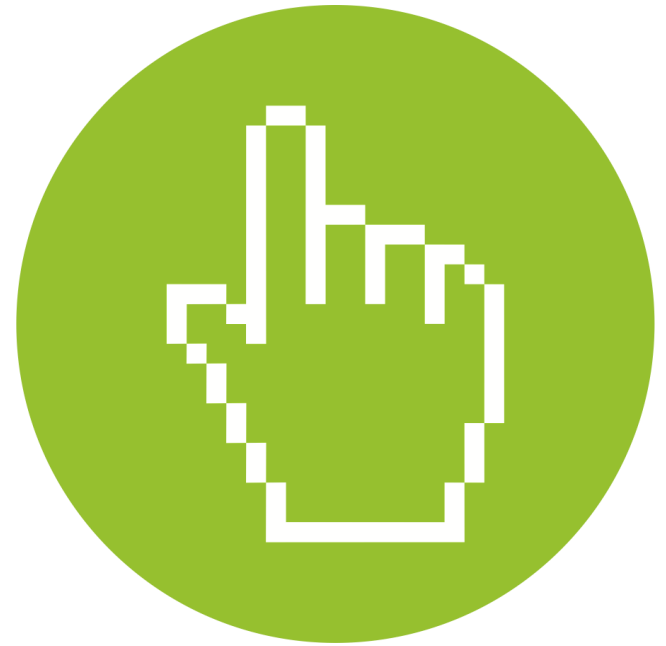
# What is Digital Medium

What it means?



# What is digital medium

The term digital media, which is gaining evidence nowadays, results from the conjunction of these ideas.



# What is digital medium

The concept is commonly translated as **new media** and understood as phenomena represented by the addition of technologies in order to create and distribute all sorts of contents.



# What is digital medium

Digital media represent a change on the available technologies to distribute information as sound, video, photography and other sort of meaningful data, and also allows the combination and unlimited re-organization and re-distribution of content.

# What is digital medium

- *“The digital is more than simply a technical term to describe systems and media dependent on electronic computation, just as the analog, which precede it, describes more than a proportional system of representation”* (Lunenfeld, 2000, p. 15).

# What is digital medium

Pavlik (2008, p. 8) also defined that

- *“digital media as the systems of public communication, the systems of content production and distribution, and the computer and networked-based technologies that support and shape them”,*

but considering “public” not only the domain of the public, but also the private media production for public consumption.

# What is digital medium

The term digital media could also be understood as a substitution for the original "new media" concepts.

- *"(...) [F]ield of new media studies (sometimes called "digital studies") (...)"*

(Manovich, 2002, p. 10).

# What is digital medium

The term new media is often used in contrast to the “old” media: the analogical television, the radio and the newspapers.

In simple words:

- *“New media are networked and digital”*

(Hearn, Tacchi, Foth, & Lennie, 2009, p. 9).

# What is digital medium

With all that in mind, this class concerns with digital media items as all sorts of equipment or gadgets based on binary computing, interactive or not, updateable or not, being able to display or manipulate any kind of information.

# Mobile Media

## Definitions



# Mobile Media

“Mobile media are not a new phenomenon. Books, newspapers, and magazines; portable music players such as an MP3-player or portable game consoles; or just an ordinary car radio can be classified as mobile media.”

(Transatlantic Dialogue & European Institute for the Media, 2006, p. XI)



# Mobile Media

“The relevant question is what is actually moving: information, devices, or people?”

The mobile media (...) focus on (...) all three elements. People can move freely without being disconnected; devices are portable; and information moves freely and can reach specific recipients.”

(Transatlantic Dialogue & European Institute for the Media, 2006, p. XI)



# Mobile Media



# Mobile Media

## The Evolution of Devices (Fling, 2009, pp. 1–10)

- the Traditional Telephone



# Mobile Media

## The Evolution of Devices (Fling, 2009, pp. 1–10)

- the Brick Era (1973–1988)



- Cordless
- Mobility

# Mobile Media

## The Evolution of Devices (Fling, 2009, pp. 1–10)

- the Candy Bar Era (1988–1998)



- 2G Technology
- SMS
- Play "Snake Game"

# Mobile Media

## The Evolution of Devices (Fling, 2009, pp. 1–10)

- the Feature Phone Era (1998–2008)



- Photo Camera
- Listen Music
- Internet
- 2.5G

# Mobile Media

## The Evolution of Devices (Fling, 2009, pp. 1–10)

- the Smartphone Era (from 2002)



- Larger Screen
- Wi-Fi
- QWERTY
- PDA-Style

# Mobile Media

## The Evolution of Devices (Fling, 2009, pp. 1–10)

- the Touch Era (from 2007)



- Micro Personal Computer
- Touch Screen
- Gesture-Based Interactions
- 3G



# Mobile Media

Tomi Ahonen, describes mobile as “the seventh mass media.” (Ahonen apud Fling, 2009, p. 34)

1. The Printing Press
2. Recordings
3. Cinema
4. Radio
5. Television
6. The Internet
7. Mobile

# Mobile Media

“The seventh mass medium (...) is mobile technology. The mobile industry actually started around the same time as the Web, but it took it years for us to consider it a mass medium. The mobile medium is actually quite deceiving; it would be easy to see it as an extension of the previous media, but mobile is actually quite unique (...).”

(Fling, 2009, p. 37)

# Mobile Media

1. The Printing Press  
+
2. Recordings  
+
3. Cinema  
+
4. Radio  
+
5. Television  
+
6. The Internet

7. Mobile

# Mobile Media

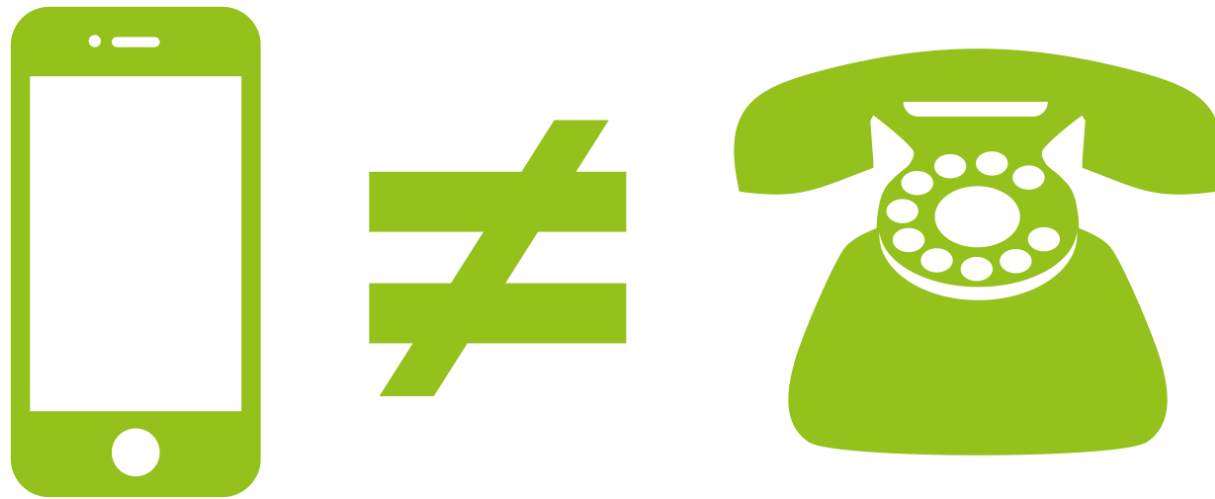
1. The Pr  
+
2. Record  
+
3. Cinem  
+
4. Radio  
+
5. Televis  
+
6. The In



Mobile

Image retrieved from: <http://media-cache-ec4.pinterest.com/550x/c4/06/0b/c4060b207e3757e04982373ff2a9a75f.jpg>

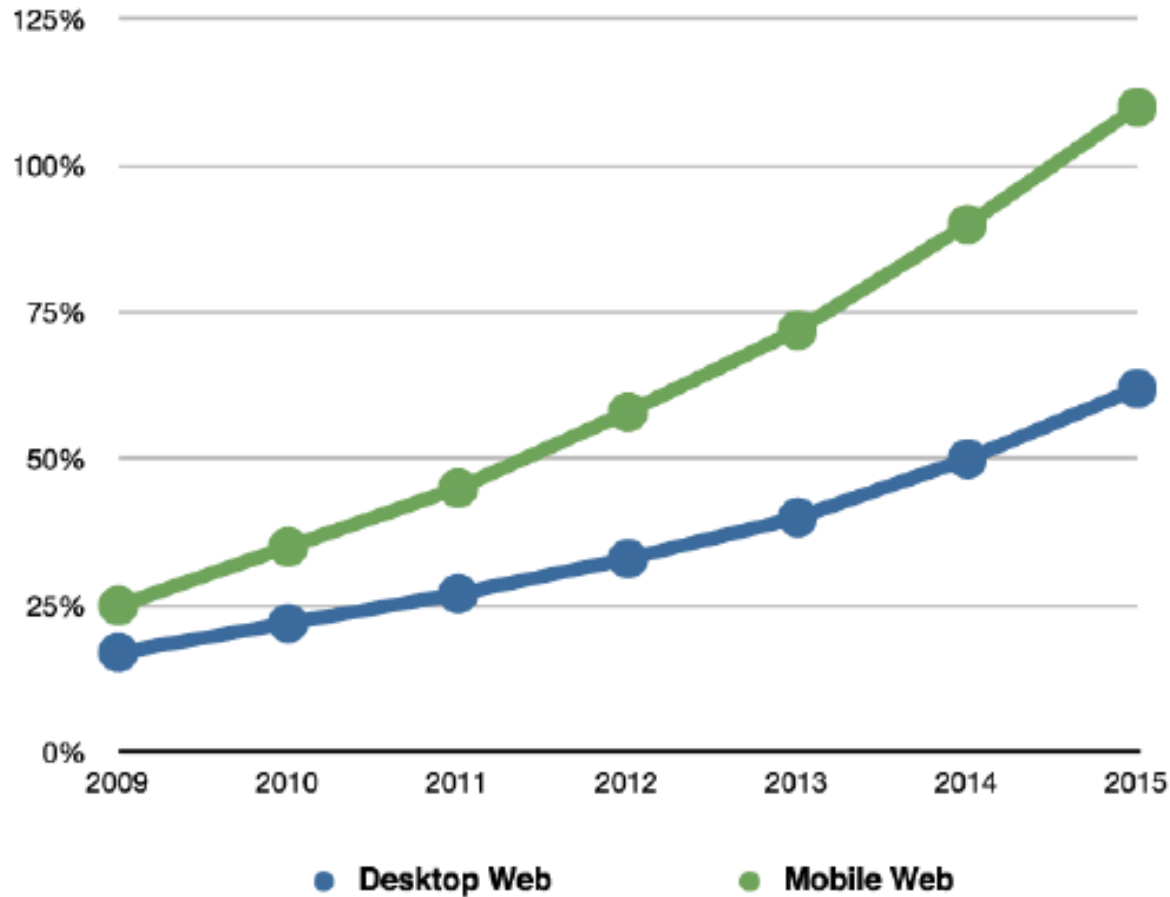
# Mobile Media



# Mobile Media

“The growth of mobile phone usage and the development in mobile phone technology has probably had the most significant impact on the way we communicate with each other (with the exception of the internet) over the past 10 years or so.” (Love, 2005, p. 7)

# Mobile Media



(Fling, 2009, p. 33)

# Mobile Media

(...) [U]sability of mobile computer systems can benefit from making them “context-aware” in the sense that contextual information is used to tailor information and functionality to the given situation (...).

(Kjeldskov & Paay, 2010, p. 14:2)



# Cultural Heritage

How to deal with information



# Cultural Heritage

## What is Cultural Heritage?

- *“Cultural heritage (...) is the legacy of physical artifacts (cultural property) and intangible attributes of a group or society that are inherited from past generations, maintained in the present and bestowed for the benefit of future generations”.* (“Cultural heritage - Wikipedia, the free encyclopedia,” n.d.)

# Cultural Heritage

It is far behind the time when, in order to enjoy a historical and cultural experience, it was necessary to visit a museum or to buy a guide to check the information about the monuments and historical buildings in a city.

Despite the importance of these institutions and options, the technology allows the expansion of the concept one step further, and the cities itself can be considered open air museums.

# Cultural Heritage

The spread and importance of mobile devices on every-day activities is well known, but its use for cultural preservation it is still not clear, from the effectiveness perspective.

The tangible and intangible elements of cultural heritage can be explored on two ways: from the heritage-source (as a museum) to the user, and from the user providing content for the heritage-source.

# Cultural Heritage

The mobile devices have an important role in the society.

- *“[m]ost of the current communication processes are based on the use of mobile devices. Some of the most used are tablet pc, pocket pc, smart-phone, PDA (Personal Digital Assistant), and iPod. (...) Adapting the power of these technologies to the field of cultural heritage, allows the broadcast of local heritage to a worldwide level”* (Cutrí, Naccarato, & Pantano, 2008, p. 440).

# Cultural Heritage

The mobile devices have already supplanted the preference of the users as interface to check the latest news (Indvik, 2010), but also is getting in the direction of “mobile learning” with touristic apps among other examples.

# Cultural Heritage

If in one hand the technology can bring the world in a small scale of a mobile screen by enhancing the museums and galleries possibilities, in other hand the portable technology can add elements to the real world, changing the perception and turning the entire city into an open-air museum. There are no more limitations about space, neither about the opening hours to provide to the visitors a complete and empowered cultural experience.

# Cultural Heritage

Some aspects about the culture preservation should be considered:

- *“There are many issues in the presentation of culture. One is the definition of culture itself, the second issue is to understand how culture is transmitted, and the third is how to transmit this cultural knowledge to people from another culture. In the case of virtual heritage, a fourth also arises, exactly how could this specific cultural knowledge be transmitted digitally?”*

(Champion, 2011, p. 131).



# Cultural Heritage

There are, in essence, two aspects of the cultural heritage to be preserved: the **tangible** and the **intangible** elements.

# Cultural Heritage

The **tangible** one could be divided in “Immovable heritage” – being land or land-based resources, such as buildings;



# Cultural Heritage

and “Movable heritage”, touchable resources that can be detachable and transported from one place to another, as objects, documents, etc.



# Cultural Heritage

The **intangible** heritage is the non-material elements, such as culture, stories, language, dance, etc. (Ontario - Ministry of Municipal Affairs and Housing, n.d.).



# Cultural Heritage: Organizations



# Cultural Heritage: Organizations



- *“The United Nations Educational, Scientific and Cultural Organization (UNESCO) seeks to encourage the identification, protection and preservation of cultural and natural heritage around the world considered to be of outstanding value to humanity. This is embodied in an international treaty called the Convention concerning the Protection of the World Cultural and Natural Heritage , adopted by UNESCO in 1972”.*

*(“UNESCO World Heritage Centre - World Heritage,” n.d.)*

# Cultural Heritage: Organizations



- *“The Blue Shield is the cultural equivalent of the Red Cross. It is the protective emblem specified in the 1954 Hague Convention (Convention for the Protection of Cultural Property in the Event of Armed Conflict) for marking cultural sites to give them protection from attack in the event of armed conflict. The Blue Shield network consists of organizations dealing with museums, archives, audiovisual supports, libraries, as well as monuments and sites”.*  
(“About The Blue Shield,” n.d.)

# Cultural Heritage





# Cultural Heritage

Mostly, the already developed applications and games using mobile devices to interact with urban spaces are dealing with the tangible elements of the culture. A mobile applicability could work for intangible and tangible elements, in order to enhance the knowledge regarding it

(Champion, 2011, pp. 130-131).

# Cultural Heritage

So far, it is also important to point the wide range of different digital applications available (Laurillard apud Pachler, Bachmair, Cook, & Kress, 2009, p. 309), plus social and shared networks as YouTube, Twitter, etc. that could be used for heritage preservation's purposes.

# Preservation

and Collaboration



# Preservation & Collaboration

The dynamics and the relations among the cultural heritage promoters and the users through the mobile devices can be analyze as a two ways avenue were the information is floating.

# Preservation

- First, it is possible to observe the museums (or any other source of heritage content) using mobile devices to achieve the public and content production;



# Preservation

- Second, how the public can use their mobile devices to collaborate with the preservation of the intangible cultural values.



# Preservation

- How is it possible to filter and collect the available content for a meaningful purpose applied for cultural context?



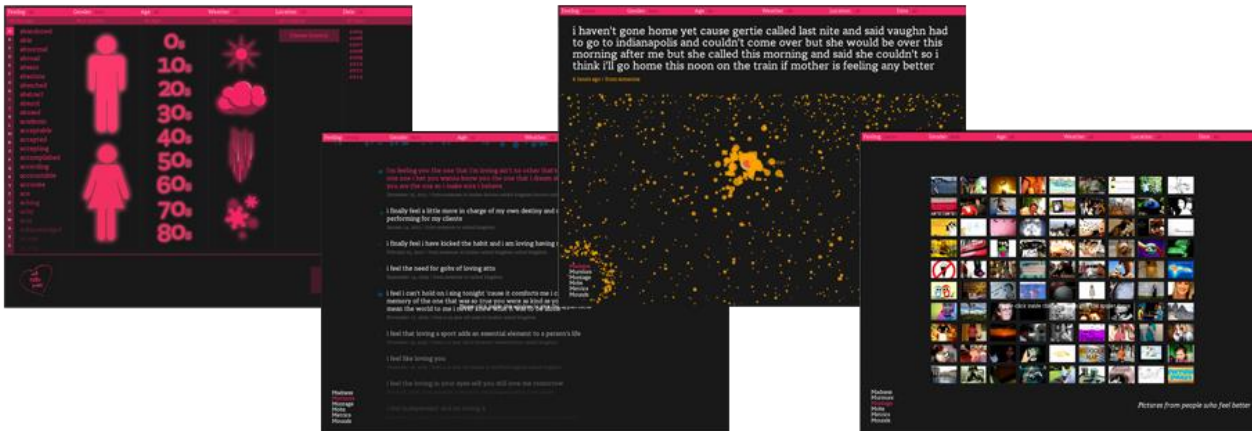
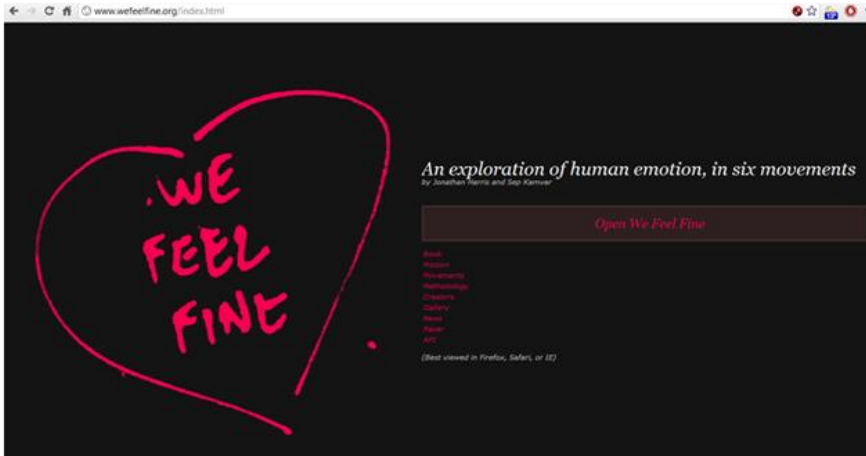
# Preservation

It is possible to find projects where search engines look into available and public published content, such as blogs entries, micro-blogging feeds, and other social networking platforms, in order to collect the desirable information, re-publishing with new purposes and format.

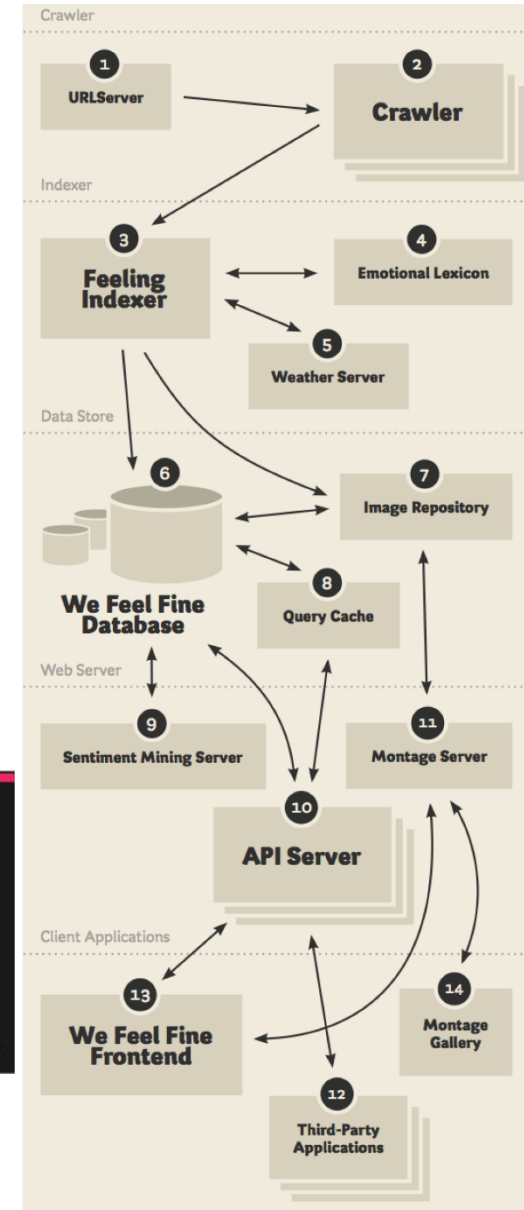
This is the case of the “We Feel Fine” project, which collects the “feelings” of users around the world.



# Preservation



<http://www.wefeelfine.org/index.html>



We Feel Fine Component Diagram

# Preservation

Here goes some examples about searching for “World Heritage” words on different platforms:

- Twitter:  
<https://twitter.com/search?q=world%20heritage&src=typd>
- Tumblr:  
<http://www.tumblr.com/tagged/world+heritage>
- Pinterest:  
<http://pinterest.com/search/pins/?q=world%20heritage>
- YouTube:  
[https://www.youtube.com/results?search\\_query=world+heritage](https://www.youtube.com/results?search_query=world+heritage)
- Facebook:  
<https://www.facebook.com/search/results.php?q=world%20heritage>

# Presentations

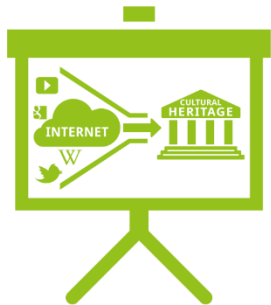
for the next weeks



# Presentations

**1** 10%

Short presentation of an existing collaborative App/Web Project



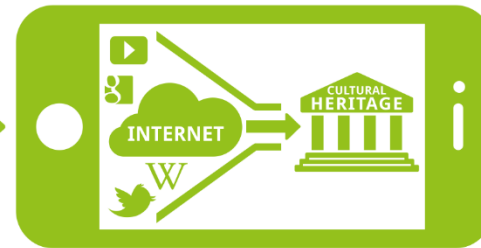
**2** 50%

Development of a conceptual prototype divided in two presentations:

A) one as a draft version



B) final and elaborated version



**3** 40%

Submission of a short paper (3 to 5 pages, ACM or APA Style)

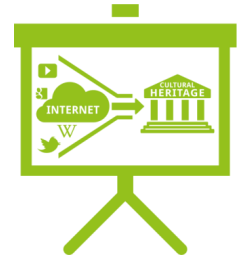


# 1<sup>st</sup> Preservation (16.05.2013)

Mobile/Web applications for cultural purposes  
- 5 min. presentation



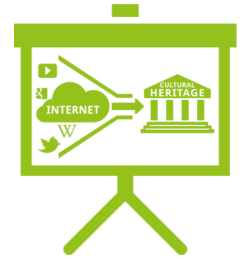
# 1<sup>st</sup> Preservation (16.05.2013)



## Mobile/Web applications for cultural purposes

Each student will choose an application (for any of the mobile operational systems) or a web project and present for the class. Some items such as design, HCI and so on should be observed. If possible, the students should install and test it by themselves.

# 1<sup>st</sup> Preservation (16.05.2013)

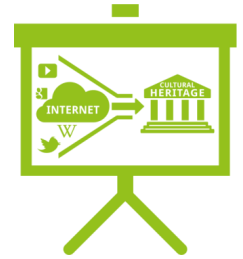


## Mobile/Web applications for cultural purposes

### It CAN:

- Can be an app installed in your mobile
- (if not) can be based on developer information
- Can be a web-based project

# 1<sup>st</sup> Preservation (16.05.2013)



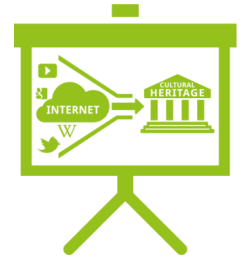
Mobile/Web applications for cultural purposes

It **SHOULD**:

- The presentation should show screenshots
- Should show the main features
- Should be applied for cultural preservation



# 1<sup>st</sup> Preservation (16.05.2013)

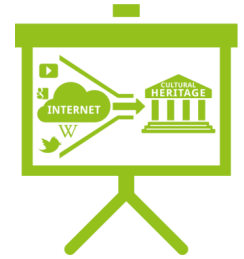


## Mobile/Web applications for cultural purposes

### It MUST:

- Must be a collaborative/participatory app or web project, where the users can contribute and add content
- Must show technical information, filled in a **mandatory table**, as illustrated on next slide:

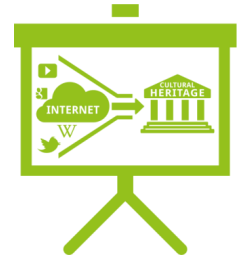
# 1<sup>st</sup> Preservation (16.05.2013)



## Mobile/Web applications for cultural purposes It **MUST**: (mandatory table)

Items	Answer
App's Name + Version	
Type (Museum, Guide, Game, etc)	
Operational System (OS) (Android, iOS, Windows, Web)	
How the user(s) contribute/collaborate with it?	
Free or Paid (and how much)	
Where it is Available (URL or market link)	

# 1<sup>st</sup> Preservation (16.05.2013)

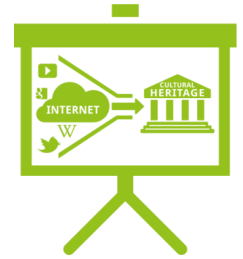


## Mobile/Web applications for cultural purposes

Slides in a PDF format should be delivered electronically one day **BEFORE** the presentation: at 15<sup>th</sup> May – 23:59h.

All the presentations will be available in **ONE** computer, to make the presentation changing faster.

# 1<sup>st</sup> Preservation (16.05.2013)

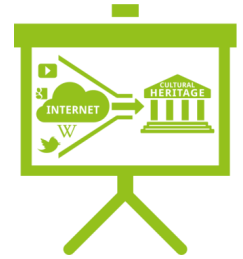


## Mobile/Web applications for cultural purposes

What will be evaluated:

- Fulfillment of the mentioned items
- Relation between app x topic
- Presentation skills

# 1<sup>st</sup> Preservation (16.05.2013)



Mobile/Web applications for cultural purposes  
Where you can find apps and projects:



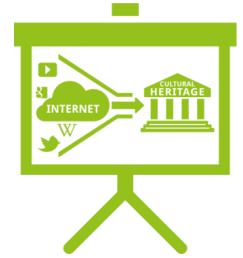
- <https://play.google.com/store/apps>



- <https://itunes.apple.com/us/genre/ios/id36?mt=8>
- <http://www.apple.com/webapps/>

or even directly on  ...

# 1<sup>st</sup> Preservation (16.05.2013)

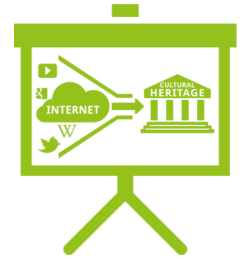


The selection of apps will be based on "first come, first served", through our wiki page on:

[http://www.uni-weimar.de/medien/wiki/IFD:Collaborative Mobile Media SS13/presentations](http://www.uni-weimar.de/medien/wiki/IFD:Collaborative_Mobile_Media_SS13/presentations)

It means that if a project is already chosen and written in this page, the student should search for another one.

# 1<sup>st</sup> Preservation (16.05.2013)



On next slides there is an example about how the presentation can be done (StreetDroids):





What is "StreetDroids"?

# What it is?



- StreetDroids is a context-aware mobile game, where users/players can contribute to its expansion through missions on different games scenarios (including cultural purposes), taking place in the real environment.



# How does the game works?



- Outdoor scenario: GPS based location
- Play and explore the city
- Treasure hunters style
- Based on missions, maps, puzzles and hints
- You can create your own content

What is the relation of this app with cultural purposes?

# Cultural Aspects



- This game has several adventure-maps, with several topics
- One of them is a historic one, based on the old city of Bremen in the Hanseatic time.

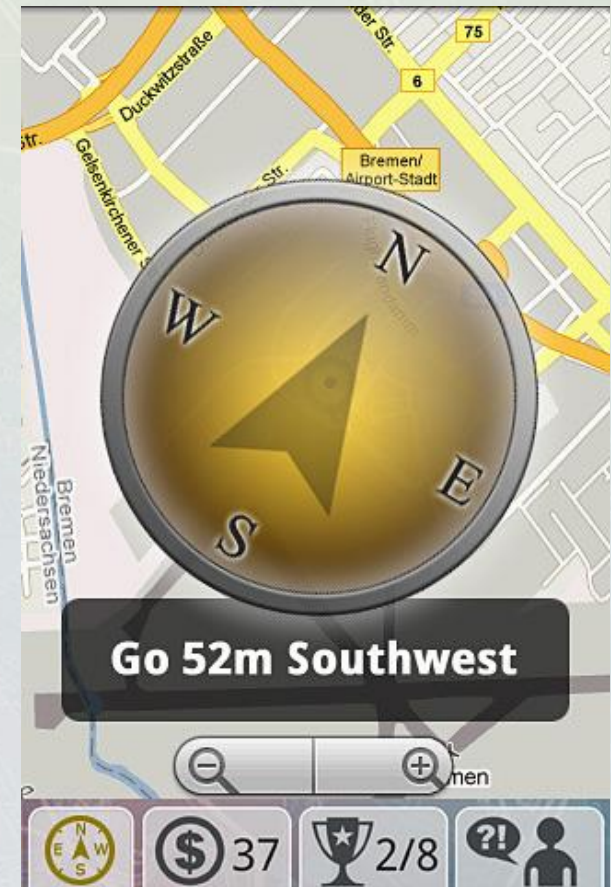


How it interacts with the environment /  
urban spaces?

# Interaction with the city



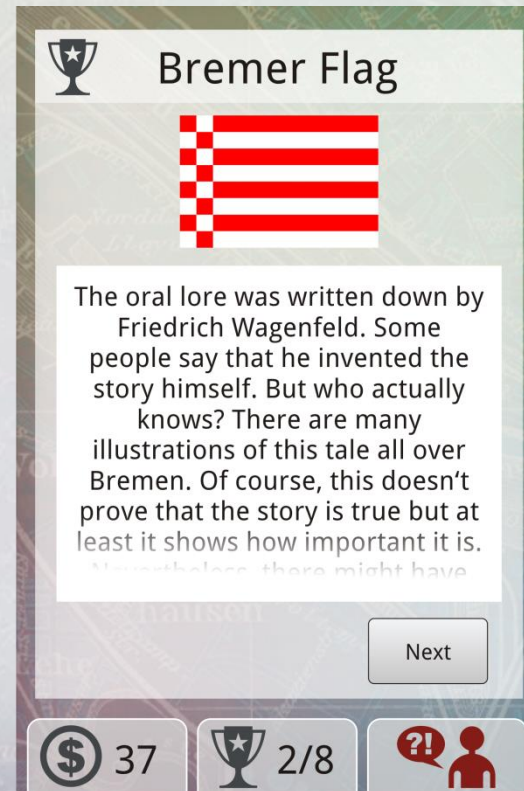
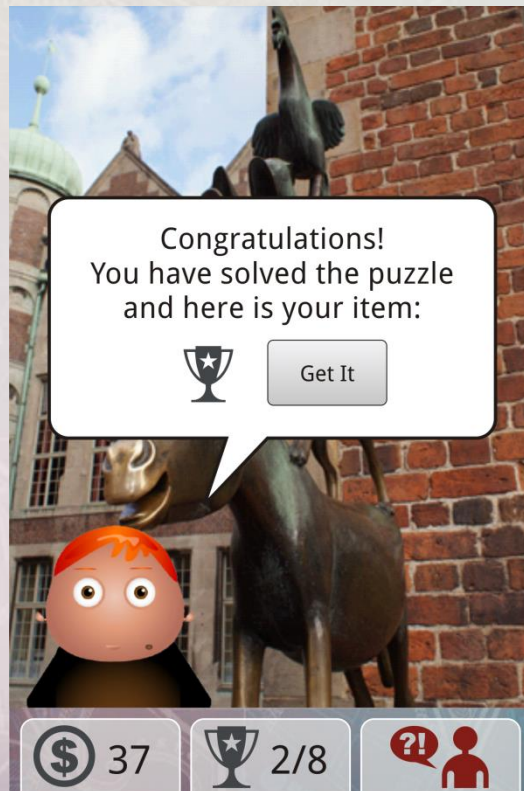
- This is a context-aware game, based on GPS.
- The user can interact with real objects placed on the city, such as statues, monuments and historical buildings.
- By playing a map, the user should collect items in the city, as a hunter game by solving puzzles.



# Interaction with the city



- after solving a puzzle the user collects a historical item with its respective content.





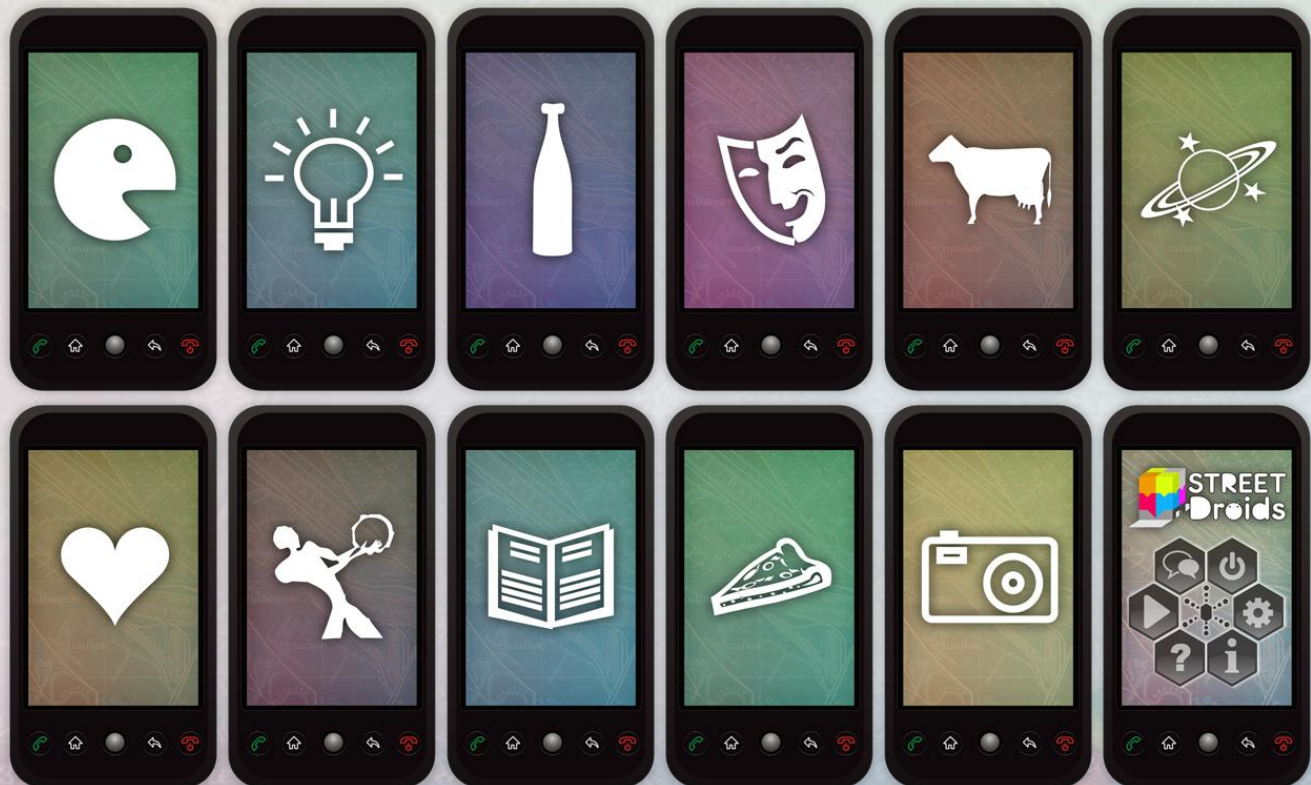
How the user can interact or contribute with the content?

# Contribution



- The user can contribute with the game by creating their own maps and adventures.

- The topics are quite open



# Contribution



- There is a web-editor available at [www.streetdroids.com](http://www.streetdroids.com)



The screenshot shows the StreetDroids website in a browser window. The browser title is "Streetdroids - Context-Aware Mobile Game for Android Platform". The website features a navigation menu with "Home", "About", "Help", and "Forum". Below the logo, there are buttons for "Profile", "Create", "Browse", and "Statistics". The main content area is titled "Welcome" and includes a central graphic of three smartphones displaying the game interface, surrounded by icons for "Game", "Community", "Content", "Maps", "Web-Tools", and "Exchange". A speech bubble from a cartoon character says: "StreetDroids is a context-aware mobile game for Android™, where you can create your own maps! Click [here](#) to know more about it, and check on the map below where the people are playing!". To the right is a map of Bremen, Germany, with a red location pin. The footer contains "Impressum - Site Map", "© Copyright 2009/2010", "Developed by:", and the "mobile HIVE" logo.

# Contribution



- The user can create their own maps

A screenshot of a web browser displaying the StreetDroids website. The browser's address bar shows "www.streetdroids.com". The website has a dark header with the "STREET Droids" logo and navigation links: "Home", "About", "Help", "Forum", "Profile", "Create", "Browse", and "Statistics". The main content area is titled "Location" and is part of a four-step process (Step 1, Step 2, Step 3, Step 4, Review). The "Location" step includes a Google Map of a city area with a red location pin and a blue circle around it. Text on the page explains that users can double-click on the map to add a point, drag the outer marker to change the radius, or click and drag individual corner-points to change the shape. Below the map, there is a text input field and a "find" button. The page also includes a scale bar (500 ft / 100 m) and a "Map data ©2010 Tele Atlas" notice.

# Contribution



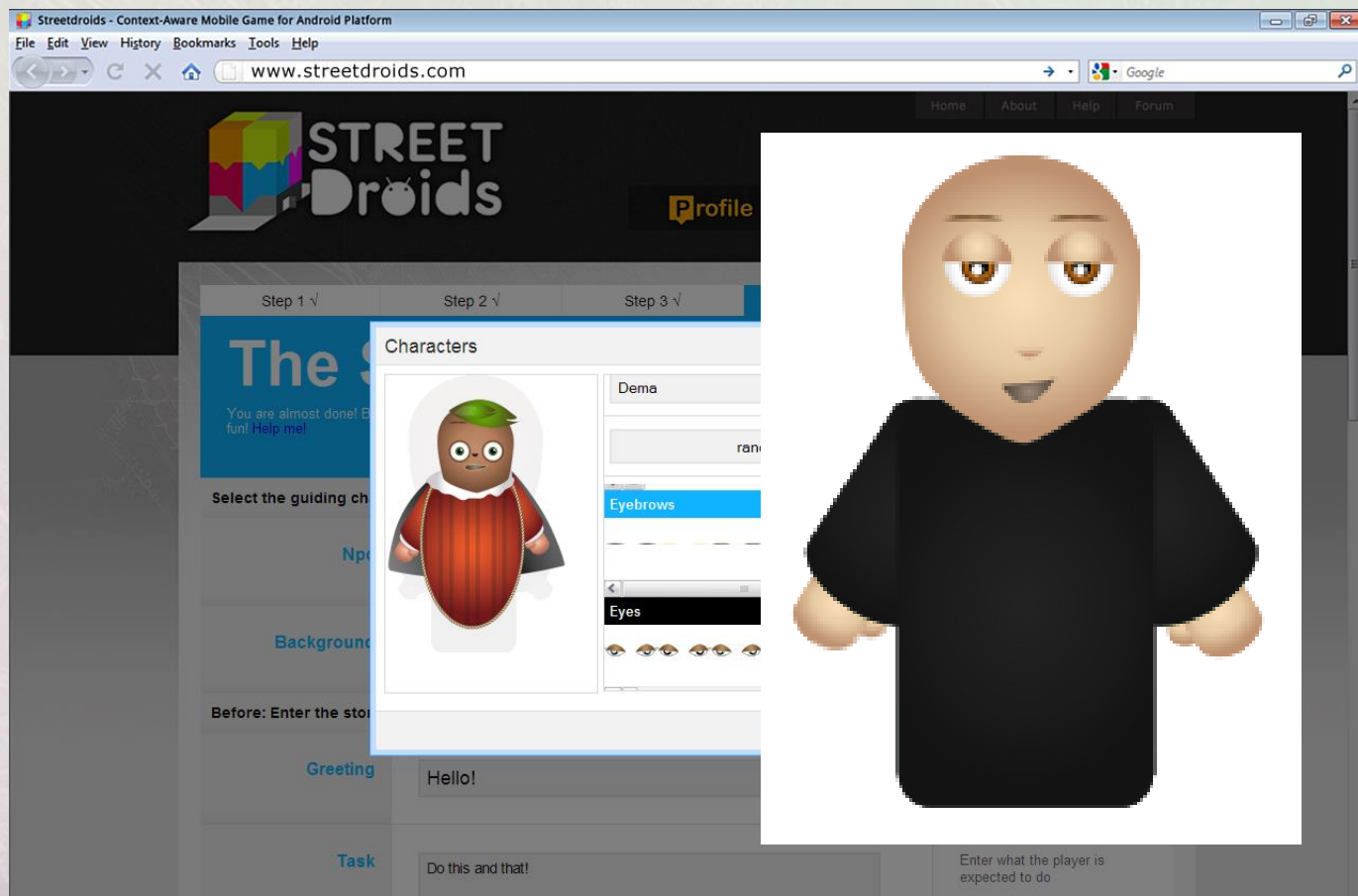
- The user can edit their own puzzles

A screenshot of a web browser displaying the Street Droids website. The browser's address bar shows "www.streetdroids.com". The website header includes the "STREET Droids" logo and navigation links for "Home", "About", "Help", and "Forum". Below the header are buttons for "Profile", "Create", "Browse", and "Statistics". The main content area is titled "The Hotspot Puzzle" and is part of a multi-step process (Step 1, Step 2, Step 3, Step 4, Review). Step 3 is currently active. The page contains a list of instructions under the heading "What you need to do:" and a "continue to next step" button with a blue arrow. On the left, there is a preview of a puzzle area overlaid on a street scene image, with a green and red area highlighted. A sidebar on the right contains buttons for "Instructions", "Set background", and "Create/Edit area".

# Contribution



- The user can create their own characters



How the user can navigate in it, how many screens him/her should press to get the desirable content

# Playability





# Playability



The statue contains a detail that is connected to the granting of market rights; in this puzzle you will explore significant parts of the Roland.

Click to find where the symbol is!



AM MARKT

37 2/8

The image shows a large stone statue of Roland in front of a building with a red-tiled roof. A dark overlay at the top contains text and a button. At the bottom, there is a status bar with icons for coins, trophies, and hints.

Please, select one of these options:



Hints



37 2/8

The image shows the same Roland statue. A speech bubble from a character icon asks the user to select an option. Three hexagonal buttons are shown: a lightbulb (labeled 'Hints'), a question mark, and an 'X'. The status bar at the bottom is identical to the previous screen.

Hint?

This is the „Hint“ option. It will help you but will cost 5 coins. Continue?

Yes No

37 2/8

The image shows a dark overlay with a 'Hint?' dialog box. The dialog box contains text explaining the cost of the hint and two buttons: 'Yes' and 'No'. The background is a dimmed version of the Roland statue. The status bar at the bottom is identical to the previous screens.

# Playability



**Correct!**

In mediaeval times emperors used to hand over a glove when a city was granted market rights.



AM MARKT


37 2/8

37 2/8


37 2/8

13 Brudenskirche H5  
14 Maus Seefahrt D3

Congratulations!  
You have solved the puzzle  
and here is your item:




Get It




37 2/8

37 2/8

37 2/8

 Bremer Flag



The oral lore was written down by Friedrich Wagenfeld. Some people say that he invented the story himself. But who actually knows? There are many illustrations of this tale all over Bremen. Of course, this doesn't prove that the story is true but at least it shows how important it is.

Next

37 2/8

37 2/8

37 2/8

# Video demonstration



What are the technical background (OS, Resolution, availability, etc.) and requirements?

- This game was developed for Android Platform.
- The chosen device was "T-Mobile G1", one of the first Android phones.
- The screen resolution is 320 x 480

## ANDROID



- This game was available for download directly from the website [www.streetdroids.com](http://www.streetdroids.com)
- Since 2011, this app is deactivated and unavailable for download

ANDROID



# \* Mandatory Table



Items	Answer
App's Name + Version	StreetDroids v2.0
Type (Museum, Guide, Game, etc)	Context-Aware Game
Operational System (OS) (Android, iOS, Windows, Web)	Android
How the user(s) contribute/collaborate with it?	Through a web-editor, where the users can create content and edit puzzles and maps
Free or Paid (and how much)	Free
Where it is Available (URL or market link)	It was available at <a href="http://www.streetdroids.com">www.streetdroids.com</a> , but since 2011 it is unavailable

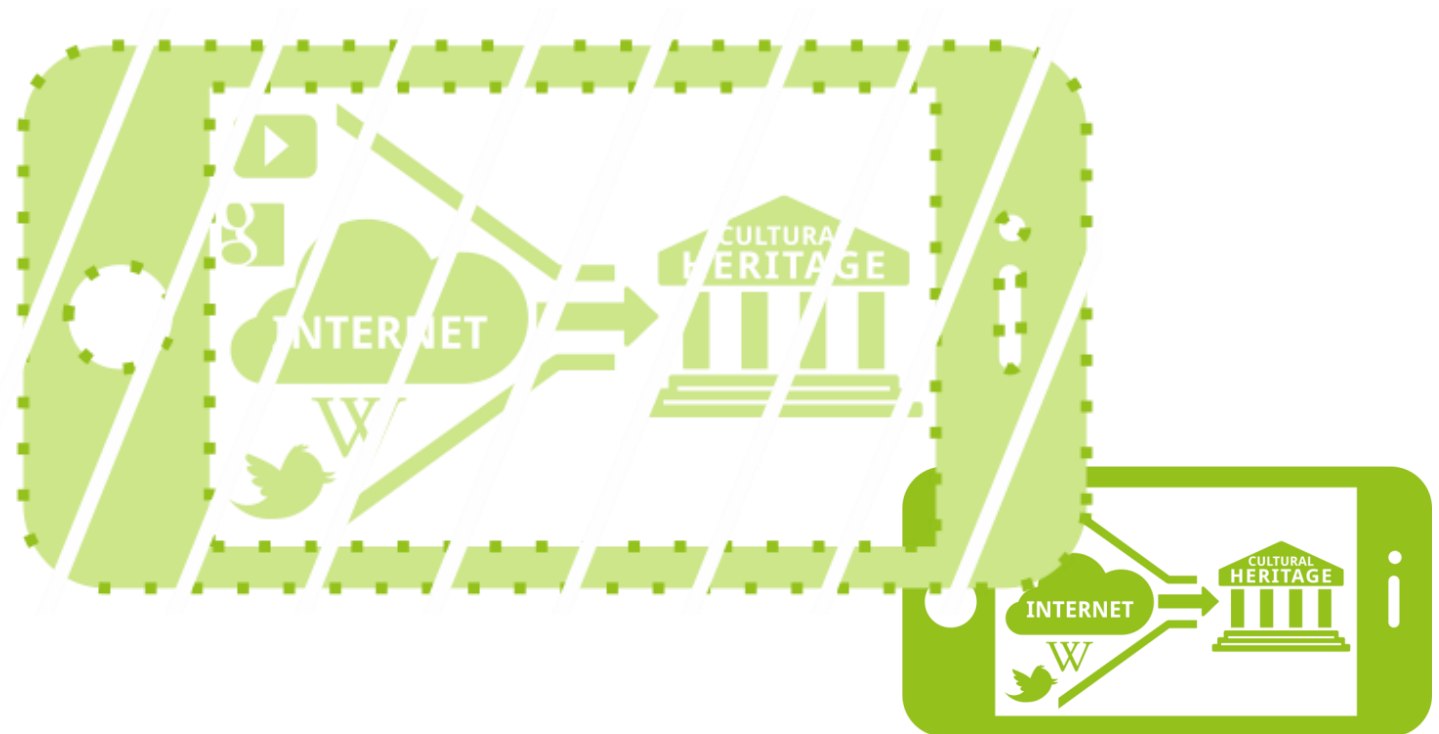
The end





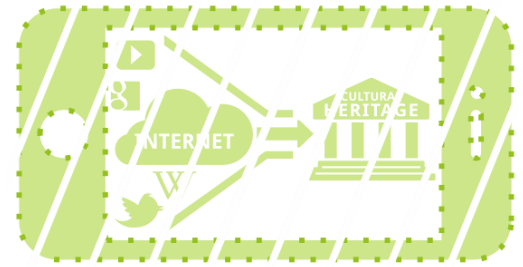
# 2<sup>nd</sup> Presentation (30.05.2013)

Seminary presentation (draft)  
– 5 minutes (+ discussion)



## 2<sup>nd</sup> Presentation (30.05.2013)

### Seminary presentation (draft)

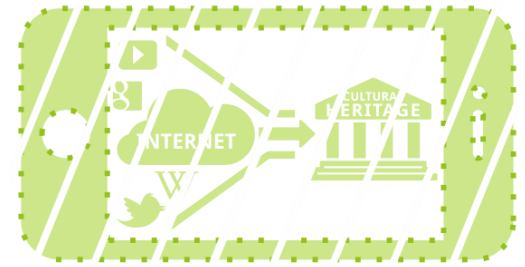


Each student should present a conceptual idea, developed for mobile devices, using collaborative/participatory activities, applied for cultural purposes.

It is encouraged to be developed using the *weimarpedia.de* content, but not restricted to.

## 2<sup>nd</sup> Presentation (30.05.2013)

### Seminary presentation (draft)

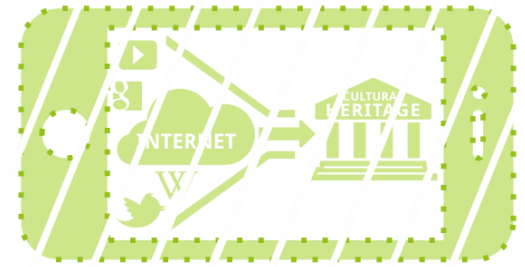


For this moment, it is just needed the app idea with navigation and content structure;

The main point is to present your idea, followed by discussion before doing the final version.

## 2<sup>nd</sup> Presentation (30.05.2013)

### Seminary presentation (draft)

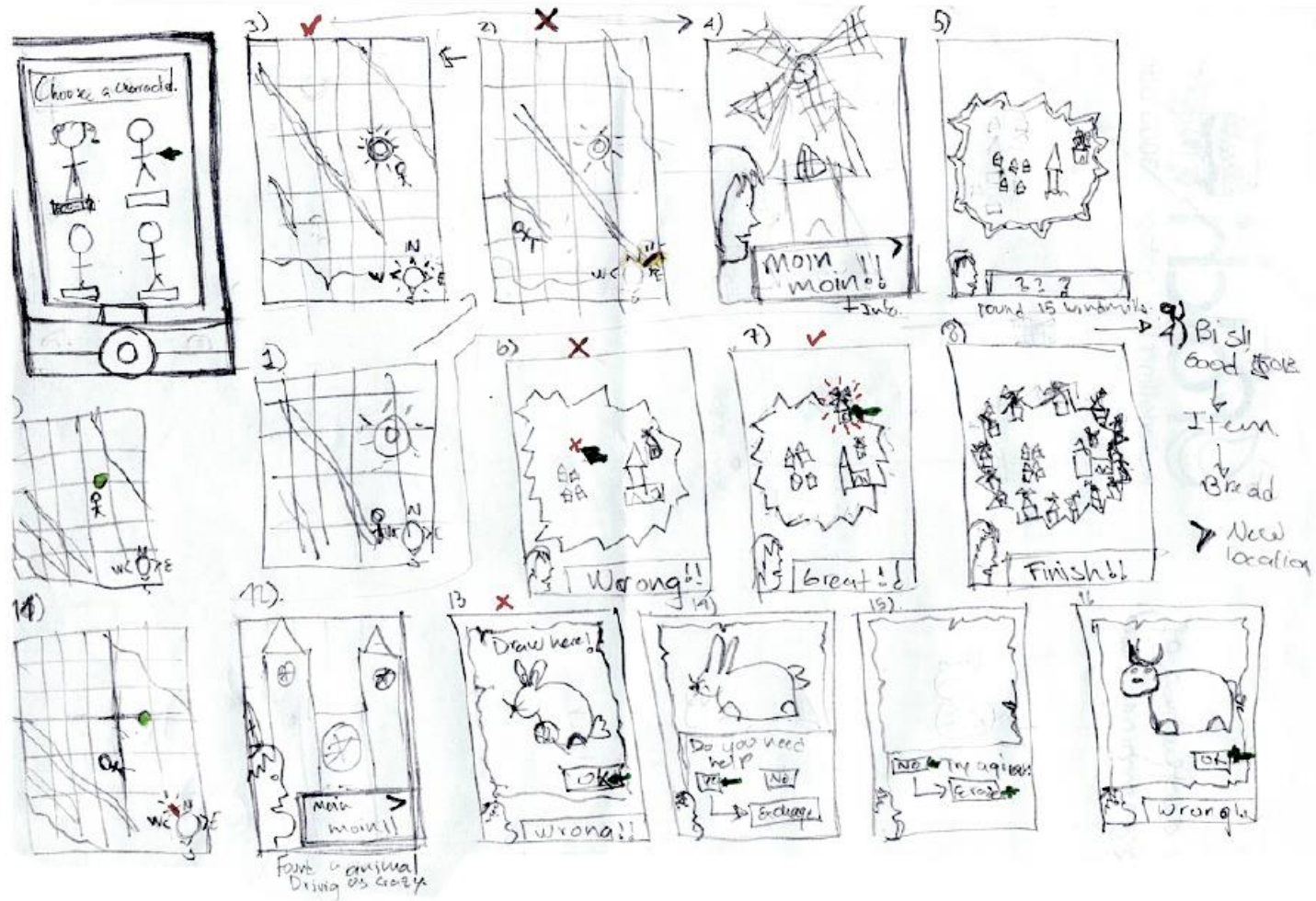


For the first/draft version, should be explored the app idea and structure, in order to receive the feedback and possible adjustments suggestions for the final version.

# 2<sup>nd</sup> Presentation (30.05.2013)

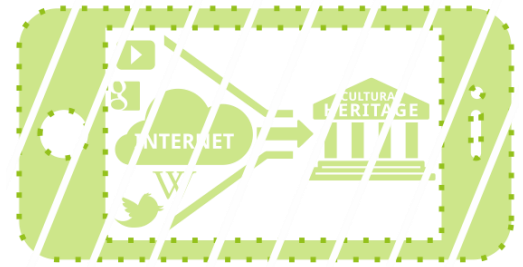


Series



## 2<sup>nd</sup> Presentation (30.05.2013)

### Seminary presentation (draft)

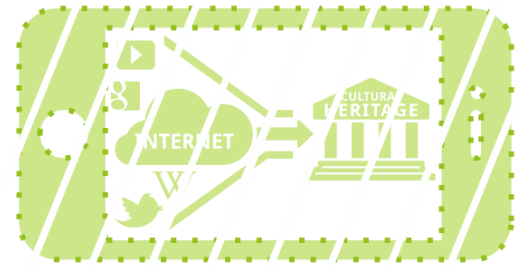


Slides in a PDF format should be delivered electronically one day BEFORE the presentation: at 29<sup>th</sup> May – 23:59h.

All the presentations will be available in ONE computer, to make the presentation changing faster.

## 2<sup>nd</sup> Presentation (30.05.2013)

### Seminary presentation (draft)



Questions you should think about:

- What is the main purpose of your app
- “Where is the beef?” = What is new about it?
- Why people would use it?
- How the users will collaborate with it?
- Is it related to culture (and preservation – maybe) topic?

# 1<sup>st</sup> and 2<sup>nd</sup> Presentations



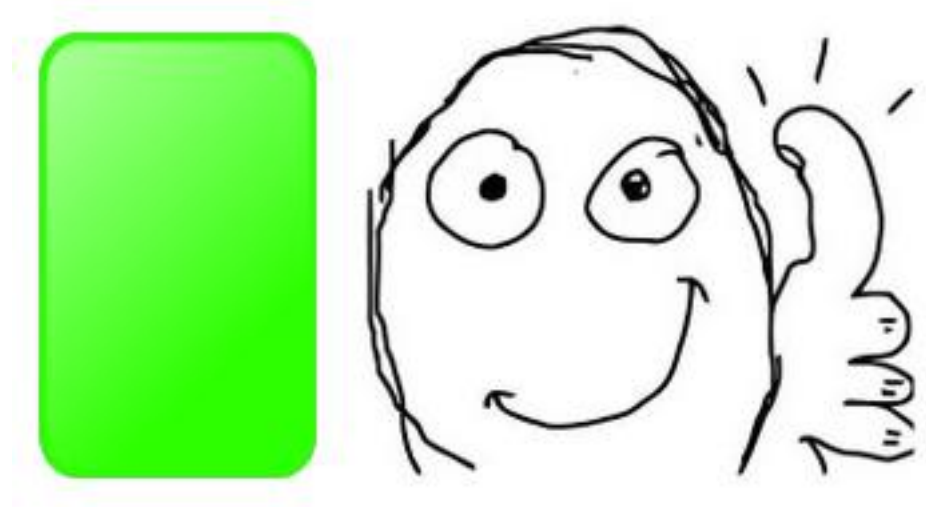
For both presentations each student will have  
**5 minutes**



# 1<sup>st</sup> and 2<sup>nd</sup> Presentations

At the 4<sup>th</sup> Minute, it will be shown a **Green** card.

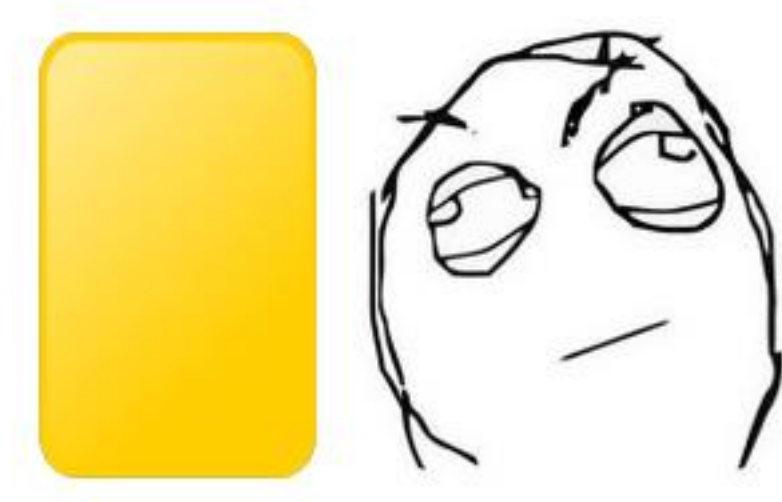
Here the time is fine – it is just a reminder that there is still one minute to go.



# 1<sup>st</sup> and 2<sup>nd</sup> Presentations

At the 5<sup>th</sup> Minute, it will be shown a **Yellow** card.

Here the time is over – and the student should hurry to finish the presentation.



# 1<sup>st</sup> and 2<sup>nd</sup> Presentations

At the 6<sup>th</sup> Minute, it will be shown a **Red** card.

Here the presentation will be interrupted.



# References

References for further readings



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**Thank You!**





# Collaborative Mobile Media

Bauhaus-Universität  
Weimar

## 03. Medium & Mobile

[http://www.uni-weimar.de/medien/wiki/IFD:Collaborative\\_Mobile\\_Media\\_SS13](http://www.uni-weimar.de/medien/wiki/IFD:Collaborative_Mobile_Media_SS13)

