

# **Usable** Design

Romain Giovanetti

*Le portfolio*



# Introduction

For more than 15 years I created and developed interactions, websites and softwares. Unconsciously at the beginning and consciously later, I focused on user-centered designs.

At first, when I was 12 years old, I mimed using a WYSIWYG software the design of websites and apps I daily enjoyed, wishing I would write real code someday. Then, I learned the HTML and the CSS by myself and the PHP later. By this time Microsoft Windows XP was still a thing and someday a friend of mine introduced me to Apple's OS Mac OS X Tiger. This day I discovered that complex and professional interfaces can be as pleasant and fun as the Nintendo Gamecube's UI.

Many months passed and when I designed my personal blog Bluenda, Microsoft Windows Vista arrived and I discovered how to use Adobe Photoshop to create elegant designs. Windows Vista's aero inspired me at first, and afterwards, I was captivated by the XMB menu of the Sony PSP. Coding was still a hobby next to my studies and sometimes at the expense of my homework.

After obtaining my Baccalauréat, I had the opportunity to make this particular hobby a profession by entering at the university. At first I learned how to code smartly and properly and how to achieve goals as a team. My friends made fun of me because I was coding on an Apple MacBook Pro but they quickly saw how serious and powerfull this laptop was. Afterwards, I wanted to explore the world like I never did before: I decided to go to Graz, Austria, to live there for 6 months as an Erasmus student, challenge myself, and become a citizen of the world. I think that if all the students went abroad for one or two years, peace on earth would be a reality.

At TU Graz, I studied the Human-Computer Interaction in a course given by the professor Keith Andrews. He formalised and open wider my eyes on the psychology of usable things. I learn how to evaluate the usability of UIs, how to prototype interactions and how to conduct tests. I somehow found in this course a confirmation that the user experience motivates me everyday in my work as full-stack designer.

By the end of my master's degree I had a singular and unthinkable opportunity that mixed computer science and art museums.

During an internship, which was extended at the end by a real contract, I imagined, prototyped, designed and built interactions using Arduino Nano and Arduino Mega. The goal was to stimulate the communication inside of groups of visitors. Because complex devices confine users in the silence, we wanted to give them an alternative in the form of a pleasant and funny device that had no screen, keeping users focused on paintings. I offered to the fine art museum of Tourcoing some minimal wireless wearable devices for communication and 3 contactless quiz terminals. It was playful to write in one hand low level code running on a hand made device with constraints such as a short battery life, and in the other hand high level code (Java and Node.js) to manage them. Above all, I loved having real world users feedback.

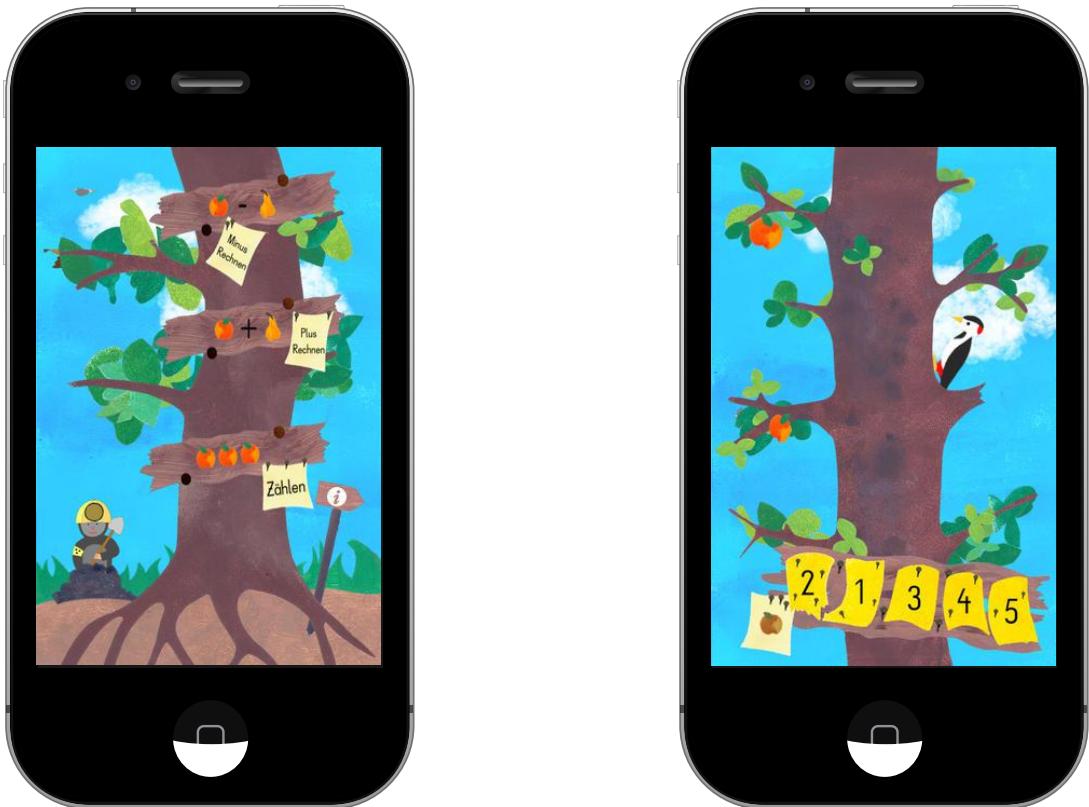
Following that experience in museums, I found another exciting adventure. La Maison De L'Eleveur, one of the biggest agricultural equipment seller in France, had too many negative feedbacks about their website and their service provider was too busy to fix that. They needed someone that could rebuild from scratch their website within three months because they didn't want to miss the upcoming September agricultural fairs, a crucial moment for their sales. Based on Jakob Nielsen's 10 general principles for interaction design, I evaluated their original website and formalized its weakens, I studied their catalogue to organize it, asked what were theirs needs and thus proposed many designs and prototypes, which were daily discussed and reviewed. Then, I worked everyday during a hot summer to build the back-end first and the front-end after. The website was ready for September, they trusted me and it gave me energy to succeed this marathon. I greatly simplified their customer's experience and working with short deadlines was very stimulating.

One month after working with La Maison De L'Eleveur, I received a call from the Professor Luigi Lancieri, the leader of the NOCE Team. Because the Team was satisfied about my previous work on interactions in the museums he offered me an opportunity to work on something totally different: the data mining on Twitter. The team had already worked on it but they had issues caused by the usage of MySQL. I recreated from nothing an architecture more suited for the data mining and the use of the Twitter's Streaming API using Elasticsearch, Node.js, and AngularJS. I also developed with him some algorithms written in Python to extract hidden data. I did a lot of R&D and someday he proposed me to write two papers with him about our work. I wasn't sure I could make it because I felt I didn't have the level but I gave it a try and did my best. Eventually, our papers were both accepted in the 2016 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining. I was very happy and proud of my work.

Afterwards I supervised a student working on the tweets's geolocation and I wrote a third paper that deals with using deep neural networks to determine the geolocation of untagged tweets.

Today, I can see that as full stack designer I already accomplished some uncommon and great things. I have only one wish, to continue to work on rewarding and exciting projects with passionate people. I believe exchange is a wonderful thing. The user experience was, is and will be a priority for me. I hope to live long enough to see a world where computers will be totally transparent in our lives. Like Steve Jobs said during the 2005 Stanford Commencement Address, « Stay Hungry. Stay Foolish. ».

Romain Giovanetti



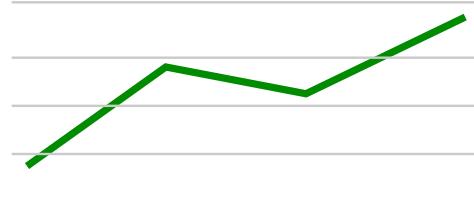
Rechenbaum for iOS

2012



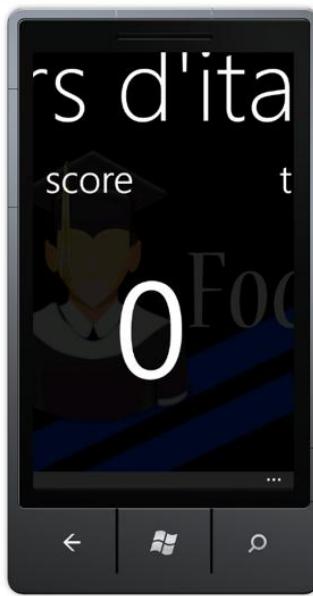
Bluenda

2008

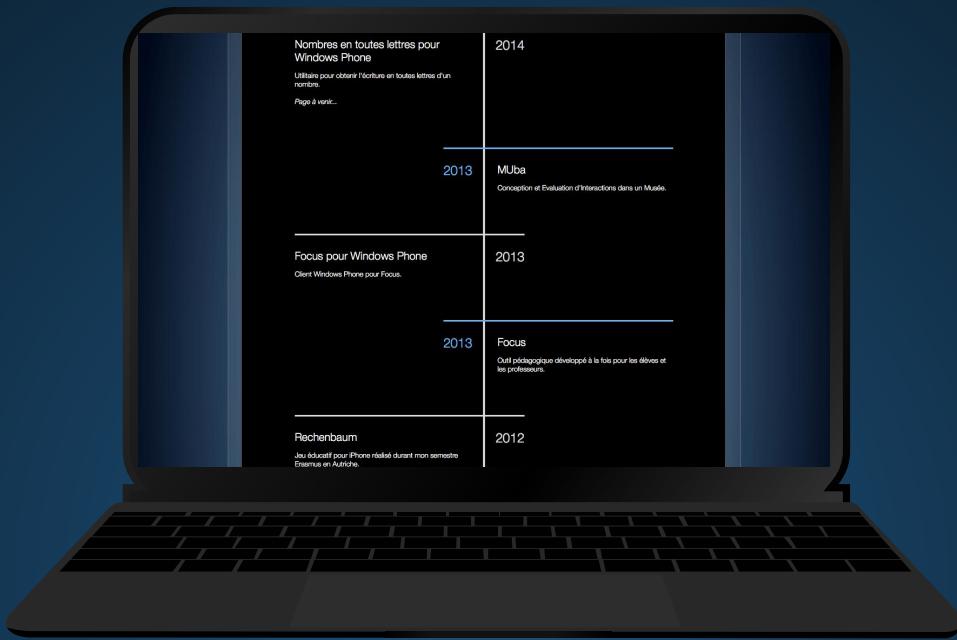


## Focus for Windows Phone 7

2013



# Lumière

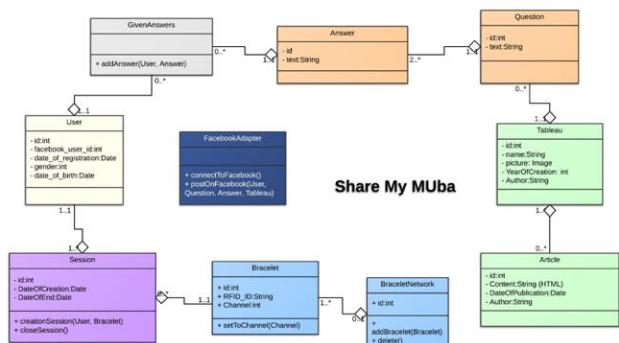
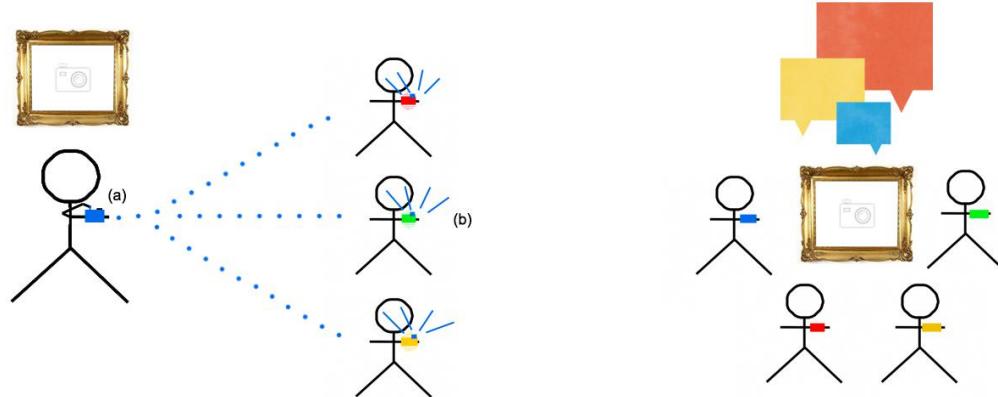


Lumière

2008

The website has a dark blue header with the logo "Lumière". The main menu includes Accueil, Réalisations, Publications, Exercices, and Contact. The "Accueil" page features a large "Bonjour," message, a bio, and a portrait of the author.

The blog section shows a post titled "Bungeo" with the subtitle "Mon premier site web en ligne (il a été 12 ans)". It includes a bio, a portrait, and a "Read more" link.

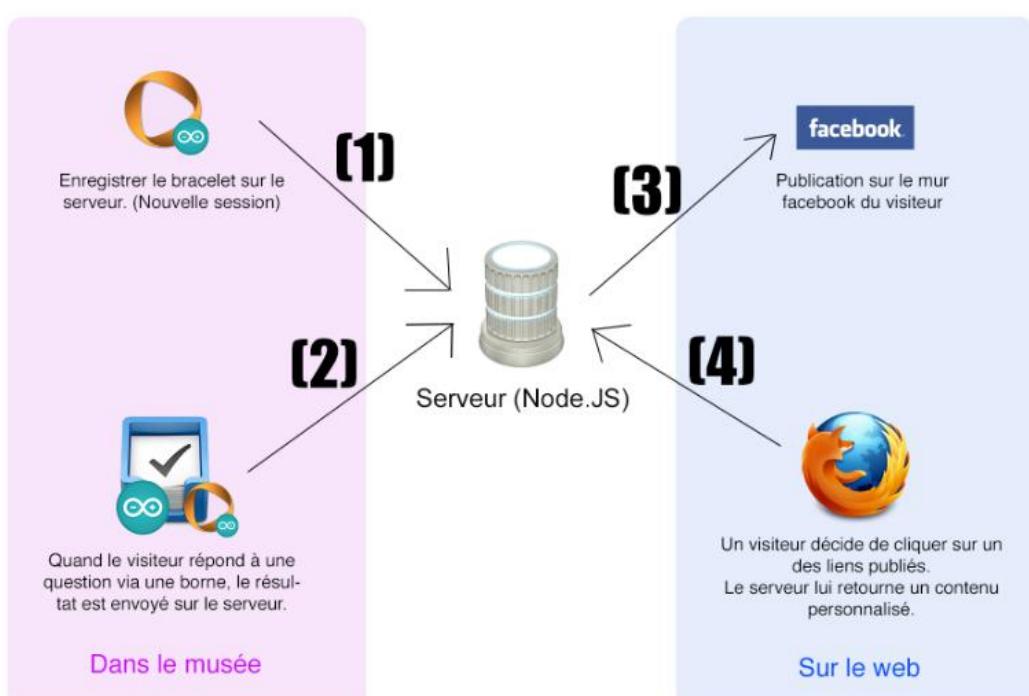


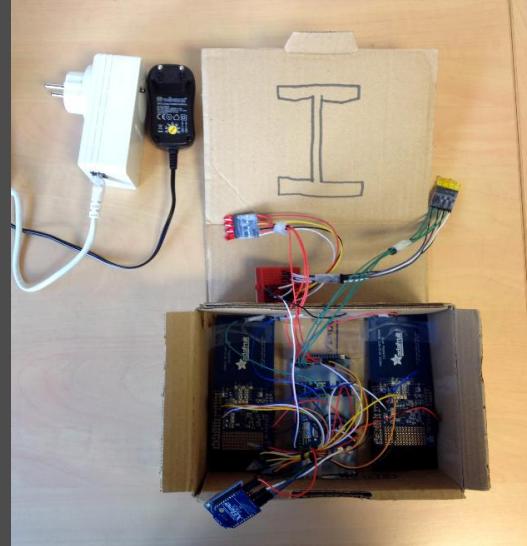
arduino      interactions  
 IHM  
 Xbee      node.js  
 RFID      musée  
 réseaux sociaux  
 périphériques      Open Graph

## Interactions in museums

*Interactive contactless quizzes + communicating bracelets*

2013

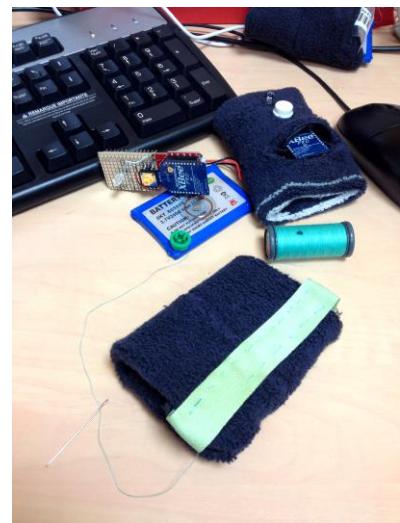
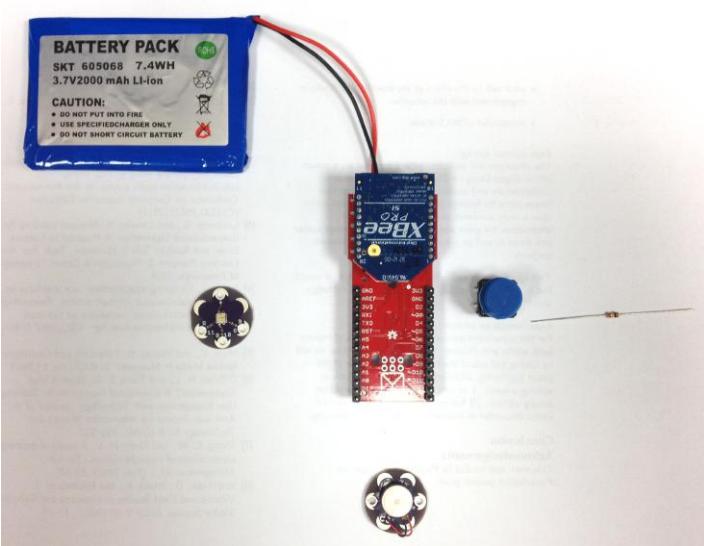




## Interactive contactless quizzes

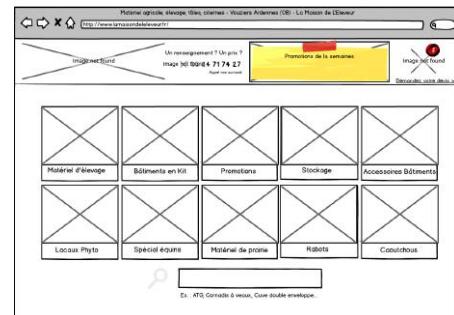
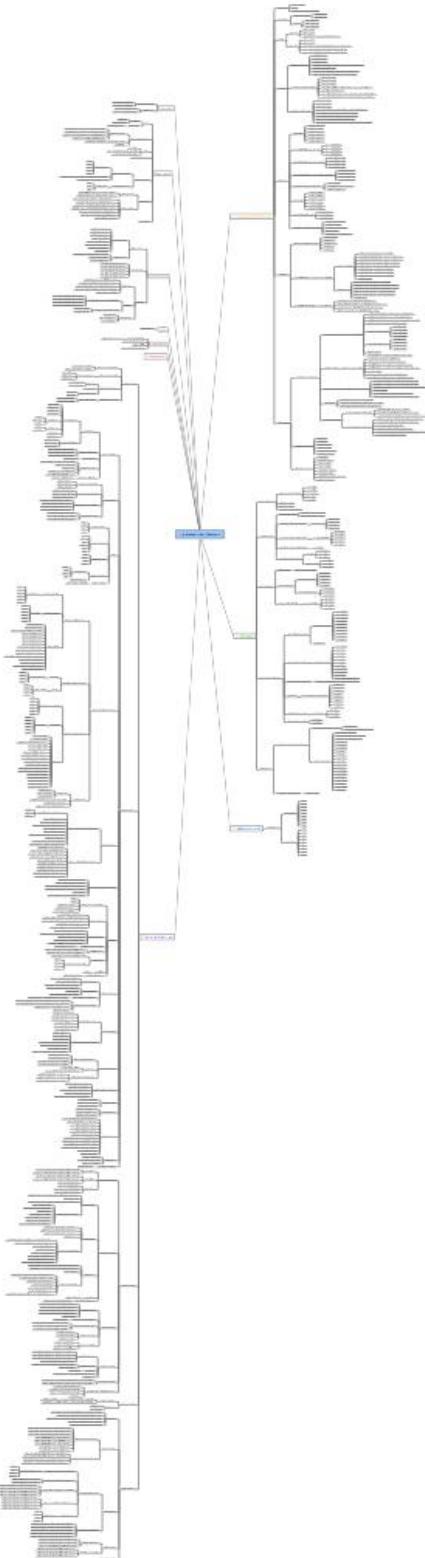
2013





Communicating  
bracelets

2013



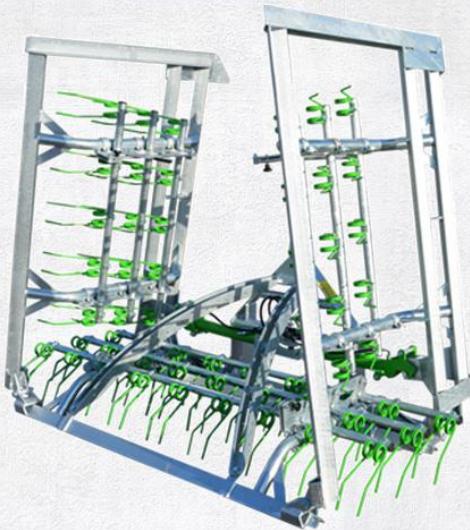
**La Maison De L'Eleveur**  
2014



# PROMO DE PRINTEMPS

## HERSE ÉTRILLE 6M

**3445€\***



\* Prix HT, offre soumise à conditions, nous consulter



Tôles et équipements de bâtiment



Portes en kit



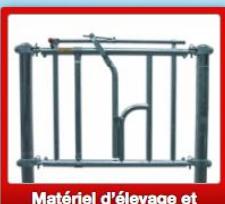
Bâtiments en kit



Abris et garages en kit



Spécial équin



Matériel d'élevage et contention



Abreuvoirs et bacs



Niches et abris



Silos - Aplatisseurs



Locaux phyto et bacs de rétention



Caoutchoucs et Racleurs



Piquets et clôtures



Hereses de prairie - Bennes



Plateaux à paille



Stockage fuel



Stockage eau et azote



## T-Weather for Windows Phone 7

2014



**T-WEATHER**  
for Windows Phone

Coming Soon

@Ganoninc

**T-WEATHER**

**paris**

**NOW**

20 °C MIN:17°C MAX:23°C

> sky is clear

24 HOURS AGO

22 °C MIN:18°C MAX:23°C > light rain

Weather data from [OpenWeatherMap](#)

© 2014 - Romain GIOVANETTI - <http://lumière.net>

# Opéra System

2014-2017

## Use Cases



Quickly detect and understand buzz

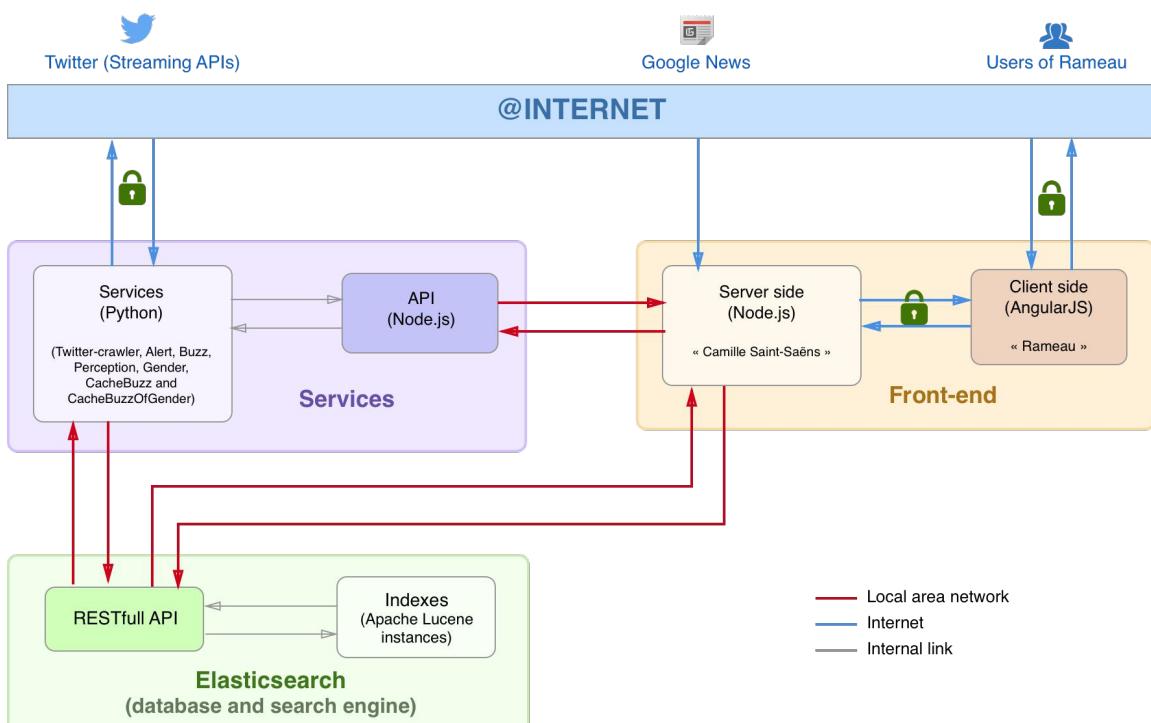
- ⚡ Almost **immediate echo** of all « important » events
- ↗ More reactive than the press but less structured
- 🌐 Multiple details for the **diagnosis of events**, and forecast their evolution



Analyze topics and trends (longitudinal and comparative studies)

- 👤 Avoid surveys' cognitive bias
- 👥 Question **thousands of people** simultaneously
- 🔄 Toward **predictive analytics** (popularity, polarity...) based on the past
- ⭐ Wide **variety of topics** such as political, brands, movies, personality, facts...

## Architecture



# Observateur des buzz

Nuages des mots les plus cités       Frise des mots les plus cités

⏰ Point de départ : 22/01/2017 20:30

↪ Longueur de la période : 15 minutes 1 heure 4 heures 12 heures 24 heures 48 heures 72 heures Une semaine

🗣 Langue : Anglais Français

🌈 Sensibilité des couleurs : ⏪ Peu sensible ⏩ Très sensible

January 18, 2017 8:30 PM January 19, 2017 8:30 PM January 20, 2017 8:30 PM January 21, 2017 8:30 PM January 22, 2017 8:30 PM

love	music	who	one	trump
when	2017	obama	like	now
happy	awards	get	can't	make
take	one	day	trump	when
i'm	like	see	want	after
didn't	first	i'm	world	president
now	get	why	president	way
best	years	his	years	who
today	congrats	want	being	look
still	award	one	crowd	today

## Opéra System's Front-end « Rameau »

2014-2017



[www.furies.fr](http://www.furies.fr)

# FURIES

**30 mai > 4 juin 2016**



**Châlons-en-Champagne**

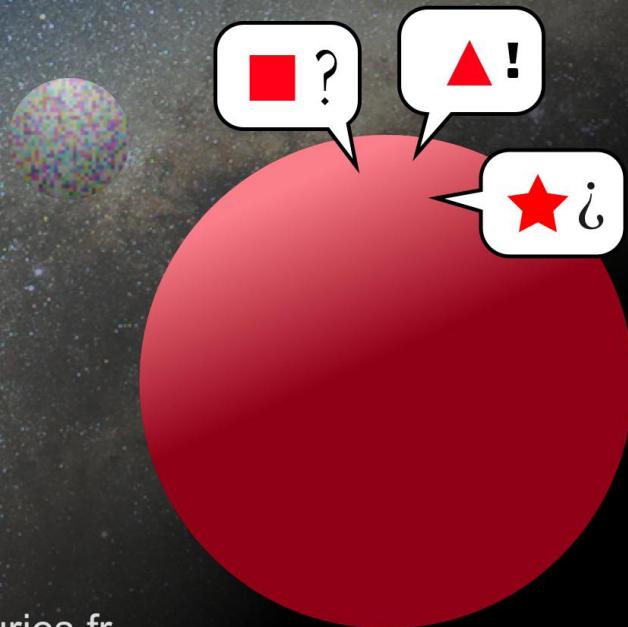
Festival de cirque et de théâtre de rue

Région Alsace.Champagne-Ardenne.Lorraine

Proposition for the Furies  
street theater festival

2016

**1 > 6**  
**JUIN 2015**  
**Châlons-en-Champagne**



[www.furies.fr](http://www.furies.fr)

# FURIES

Festival de cirque et de théâtre de rue

Proposition for the Furies  
street theater festival

2015

[www.furies.fr](http://www.furies.fr)

Rec.

# FURIES

festival de cirque et de théâtre de rue



1 → 6

Juin 2015

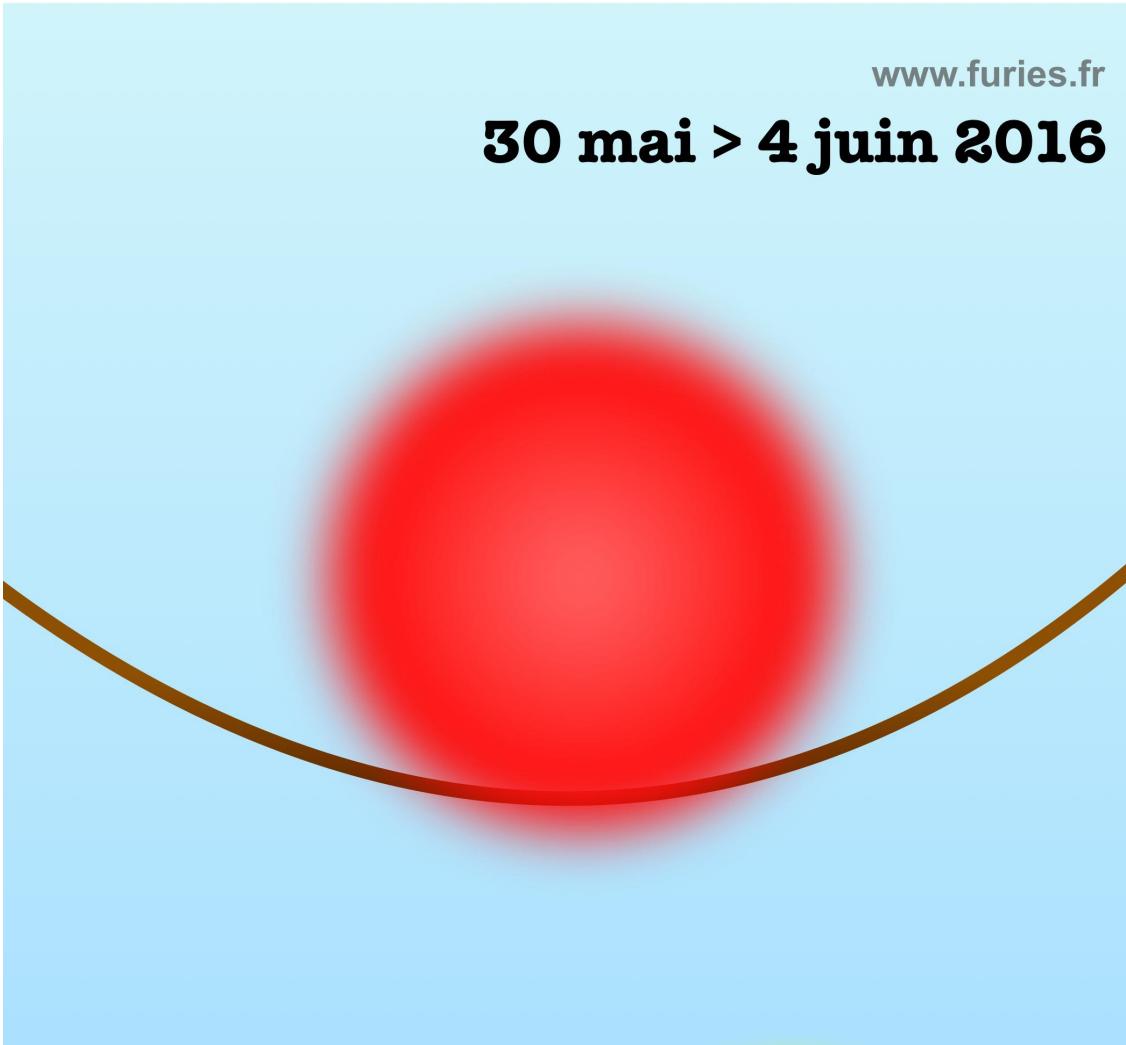
**Châlons-en-Champagne**

Proposition for the Furies  
street theater festival

2015

[www.furies.fr](http://www.furies.fr)

**30 mai > 4 juin 2016**



# **FURIES**

**Châlons-en-Champagne**

Festival de cirque et de théâtre de rue

Région Alsace.Champagne-Ardenne.Lorraine

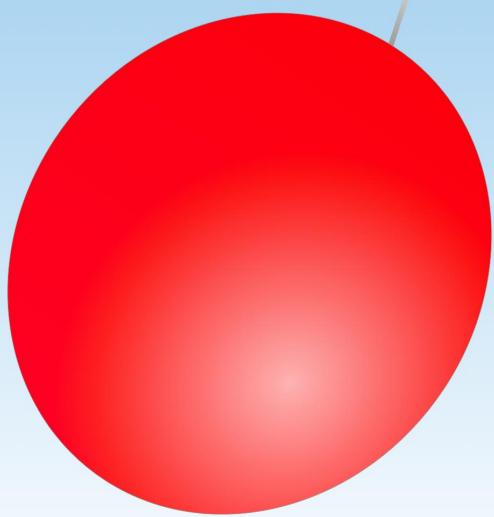
Proposition for the Furies  
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**Châlons-en-Champagne**

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Proposition for the Furies  
street theater festival

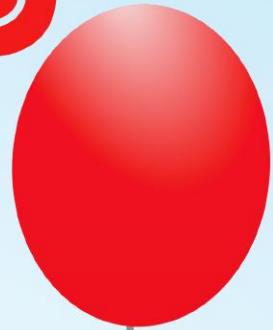
2016

[www.furies.fr](http://www.furies.fr)

# FURIES

FESTIVAL DE CIRQUE ET DE THÉÂTRE DE RUE

Du 5 au 10 juin 2017



Châlons-en-Champagne

Région Grand Est



Proposition for the Furies  
street theater festival

2017

# **Publications**

## **Model of computer architecture for online social networks flexible data analysis: The case of Twitter data**

Romain Giovanetti; Luigi Lancieri

2016 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM)

Year: 2016

Pages: 677 - 684, DOI: 10.1109/ASONAM.2016.7752310

IEEE Conference Publications

## **Multilevel exploration in Twitter social stream**

Luigi Lancieri; Romain Giovanetti

2016 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM)

Year: 2016

Pages: 726 - 731, DOI: 10.1109/ASONAM.2016.7752317

IEEE Conference Publications

## **Conception et Evaluation d'Interactions dans un Musée**

Romain Giovanetti

Mémoire de Master Mention Informatique

Encadrant : Yvan Peter

Soutenu au mois de septembre 2013

UEFR IEEA

Université de Lille 1 Sciences et Technologies

# Links



<https://www.linkedin.com/in/romainjg>



<http://ieeexplore.ieee.org/search/searchresult.jsp?newsearch=true&searchWithin=%22First%20Name%22:Romain&searchWithin=%22Last%20Name%22:Giovanetti>



<http://stackoverflow.com/story/ganoninc>

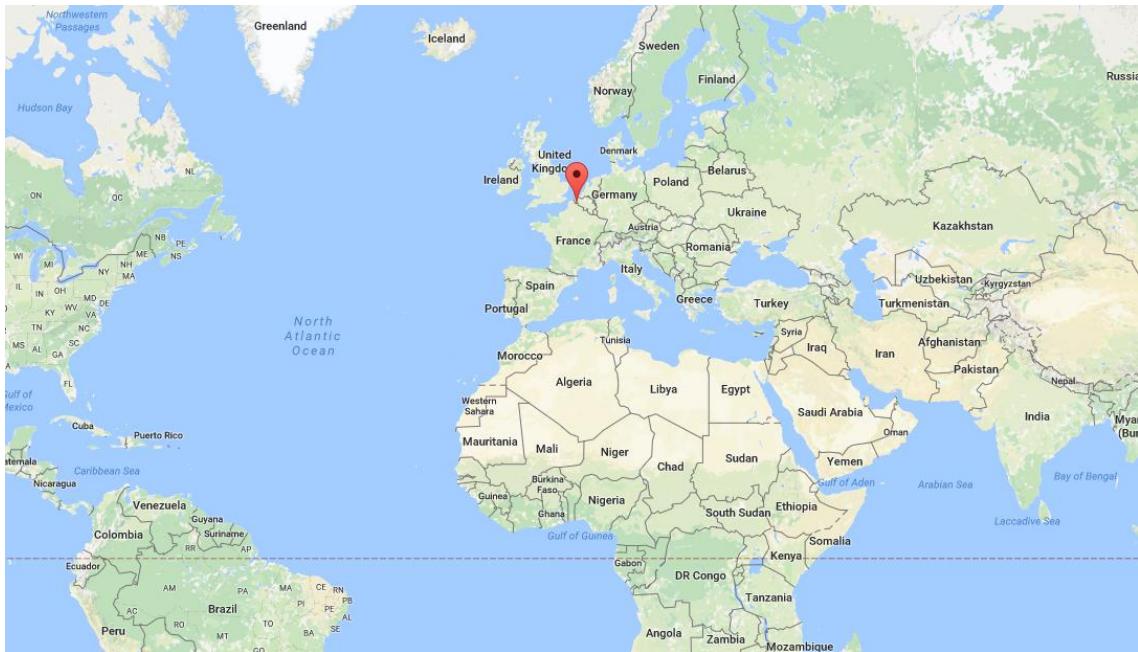


<https://github.com/ganoninc/>



<https://twitter.com/Ganoninc>

# Contact



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