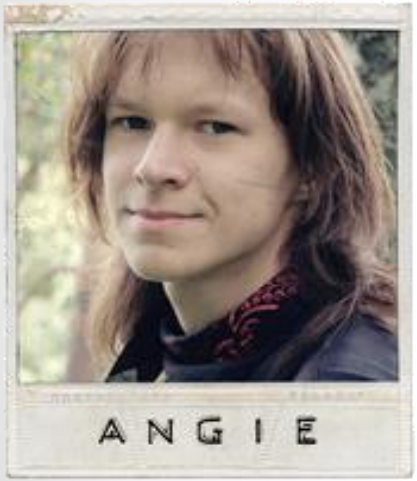
"Improve your Google Calendar!"

the full picture

Information Visualization (DH 2321)
2013-03-04
KTH / EIT ICT Labs

meet the Team



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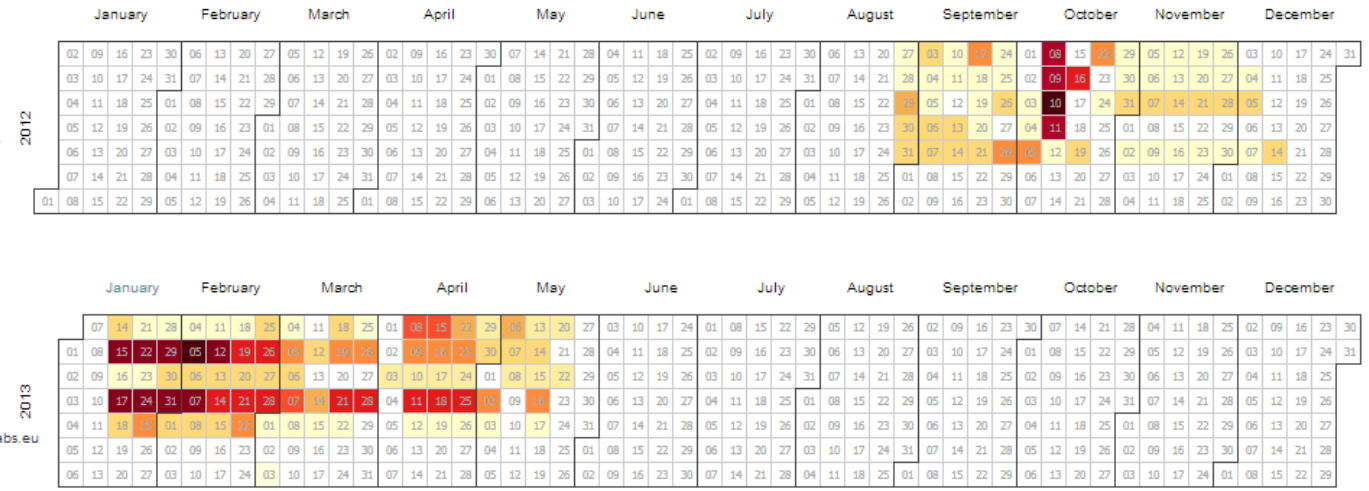
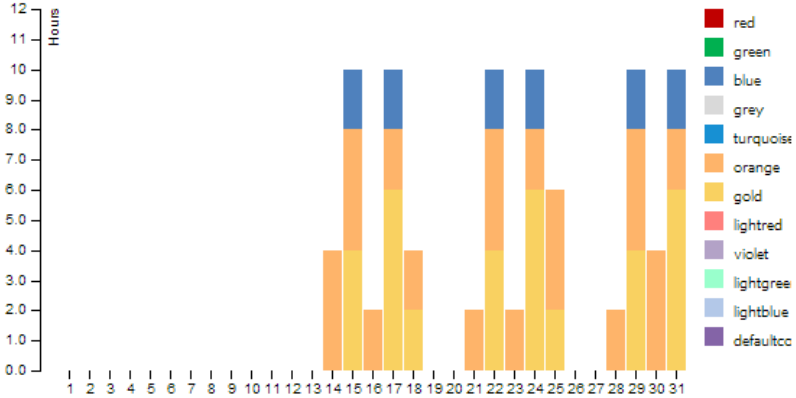
C3 the Full Picture

C3 adds a yearly view to your Google Calendar. Colors range from light to dark, the former respresents more free time and latter represents busier days. To see details, hover your mouse over a day. It's that easy to see the full picture.

- [ ] Contacts' birthdays and events
- [ ] Week Numbers
- [ ] Swedish Holidays
- [ ] Min KTH-kalender
- [x] Elective Calendar 1
- [x] Elective Calendar 2
- [x] HCID Track
- [ ] nicholas.tenhue@masterschool.eitictlabs.eu
- [ ] Timetable-KTH
- [x] Elective Calendar 4
- [ ] Elective Calendar 3

Show





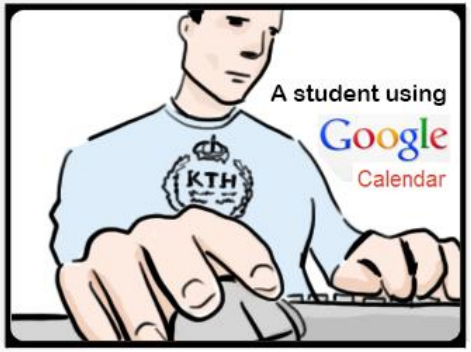
0-1 h
1-2
2-3
3-4
4-5
5-6
6-7
7-8
8-9
9-10
10+

C E Color bars: byCalendars

presentation outline

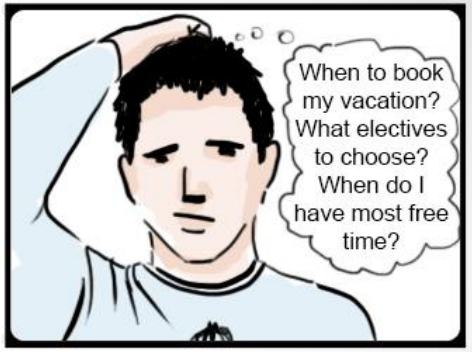
1. Our motivation
2. Goals and Challenges
3. Related Work
4. Methods and Techniques
5. DEMO
6. Lessons Learned
7. Conclusions and Future Work
8. Discussion

why use c3?



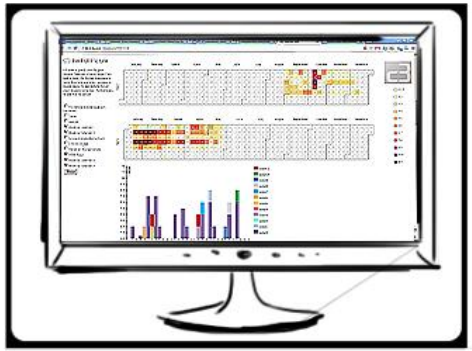
Jim uses Google Calendar to organise his daily life and keep track of his appointments.

He has a very busy schedule. He wants to book his vacation, choose courses, and see when he has free time.



Unfortunately, current calendar systems lack the necessary detail for Jim's task.

Luckily Jim finds c3, a new way of viewing his calendar in a more intuitive and visual manner.



He can macro and micromanage his schedule by focusing on the information he wants to see.

Jim can see the periods when he will be the most free or busy. This allows him to make better plans.

goals & challenges

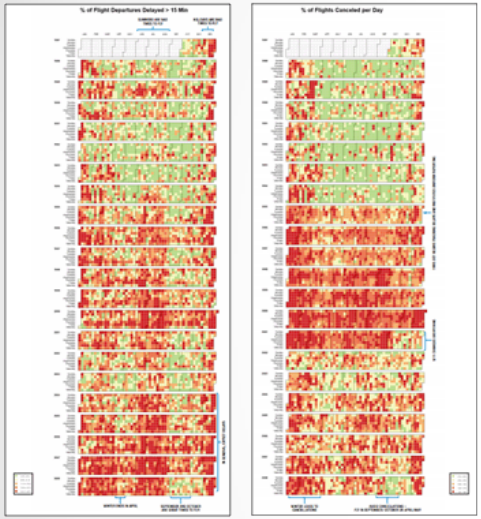
Goals

- Visualize Google Calendar with a less cluttered view for a better overview
- Provide a yearly view (non-exisent)
- Provide an improved monthly overview

Challenges

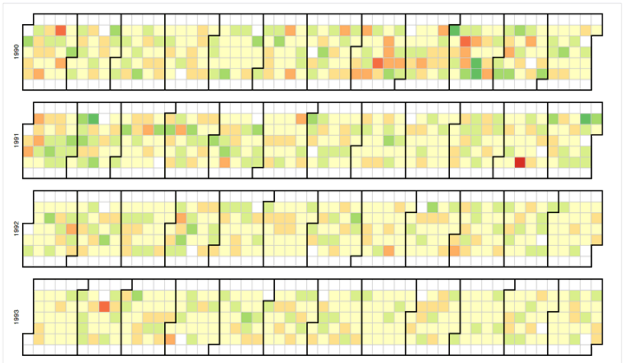
- Access the Google API, find and implement appropriate Javascript Libraries
- Extracting event durations & summing up event durations
- Choosing appropriate visualization types for months and years

similar projects



1. “Congestion in the sky: Visualising domestic airline traffic with SAS”

Author: Rick Wicklin &Robert Allison
Year: 2009



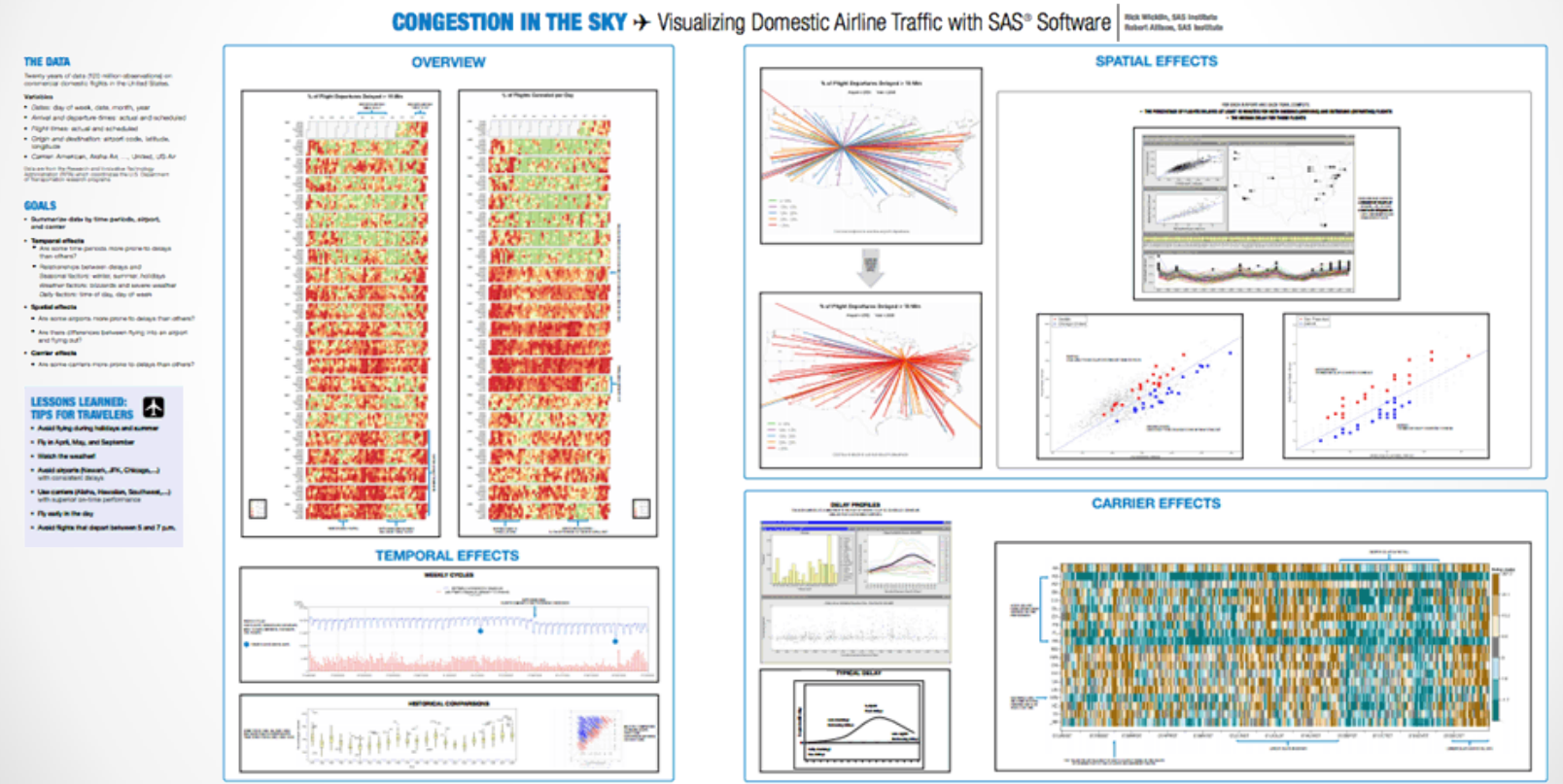
2. “Dow Jones History”

Author: Mike Bostock
Year: 2013

3. “iCal 5”

Author: Apple
Year: 2011

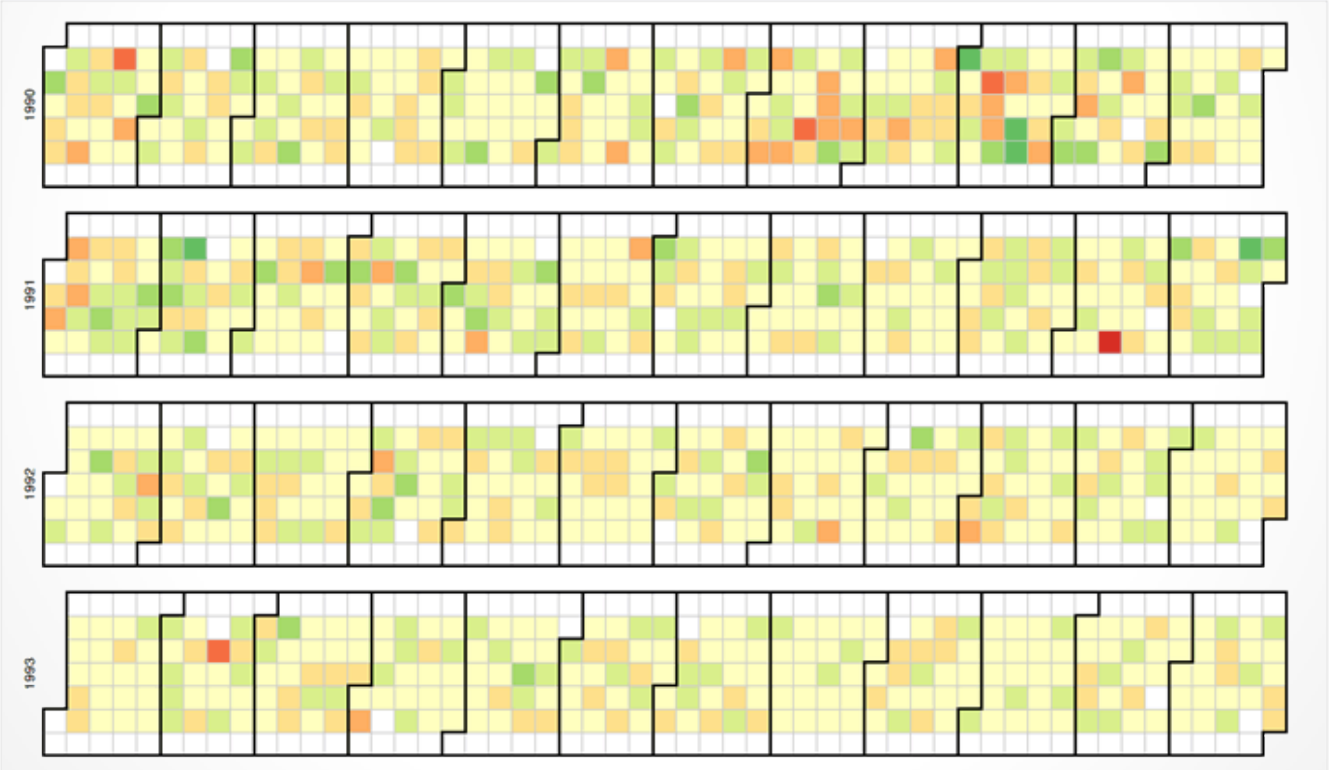
“Congestion in the sky: Visualising domestic airline traffic with SAS”



“Dow Jones History”

Calendar View

February 23, 2013



“iCal 5”


Calendars
Day
Week
Month
Year
2011
Today
January
February
March
April
May
June
July
August
September
October
November
December

methods & techniques

Ideation & Conception

- Brainstorming
- Developed two ideas
- Chose one of the two
- Storyboarding
- Proof of concept prototype

Chosen Technology

- Google API
- Oauth 2.0
- D3 jScript library
- HTML5
- CSS3
- jQuery

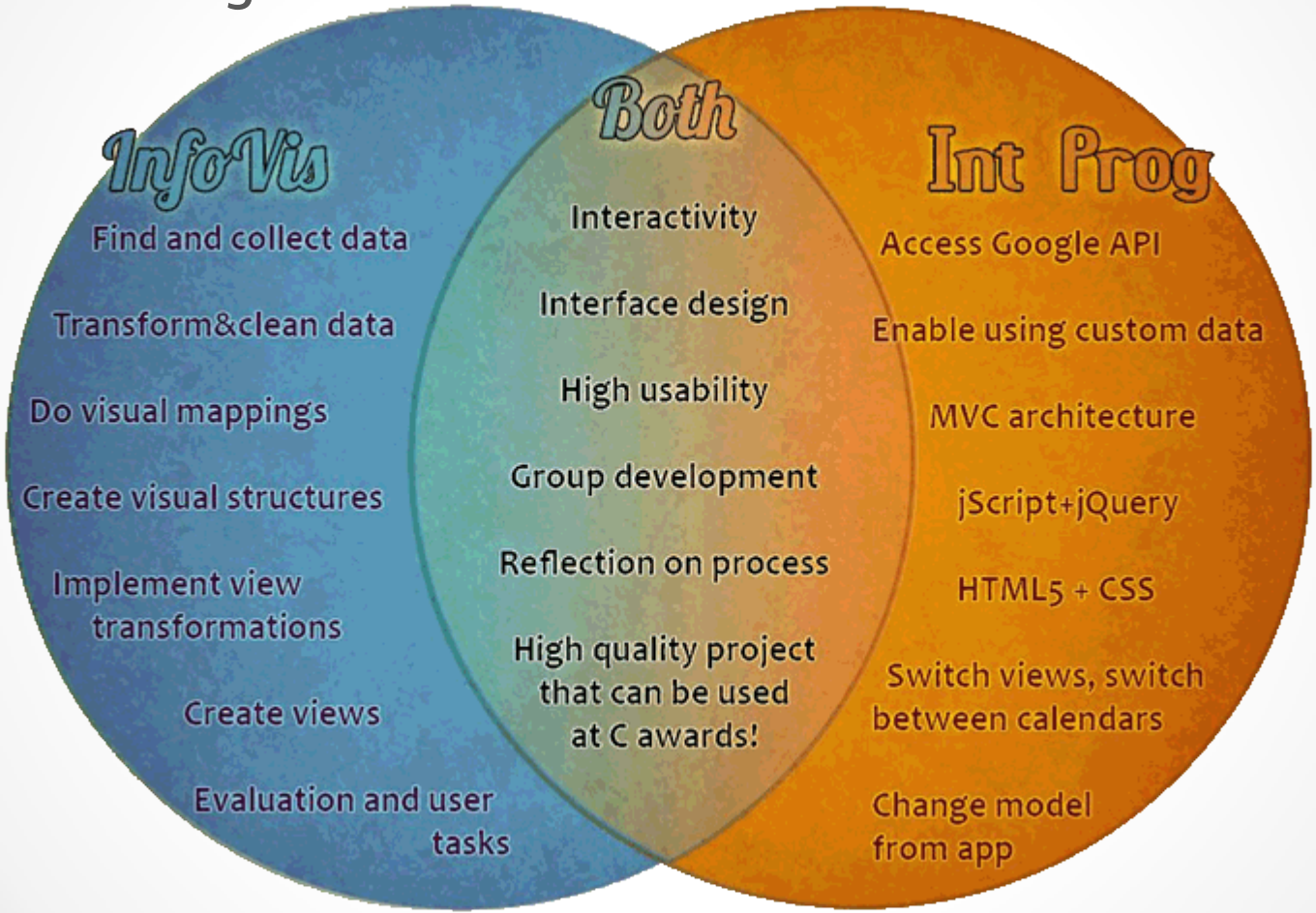
Collaboration Practices

- Github – sharing code and version control
- Eclipse + Aptana studio for development
- Google Drive – sharing documents

Other

- Combining projects – information vizualisation & interaction programming to make a higher quality product
- Libraries we use have the license of ‘fair use for educational purposes'

Venn diagram

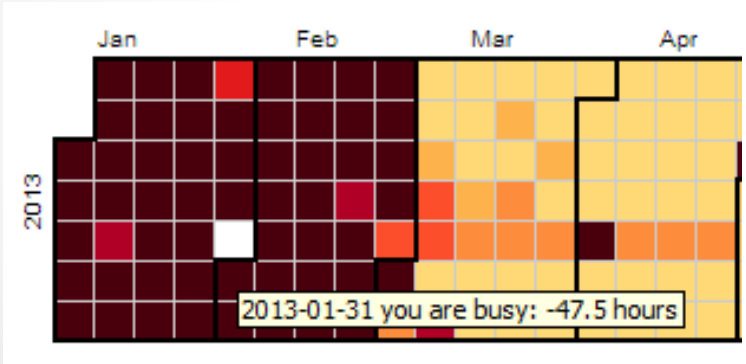



live
DEMO

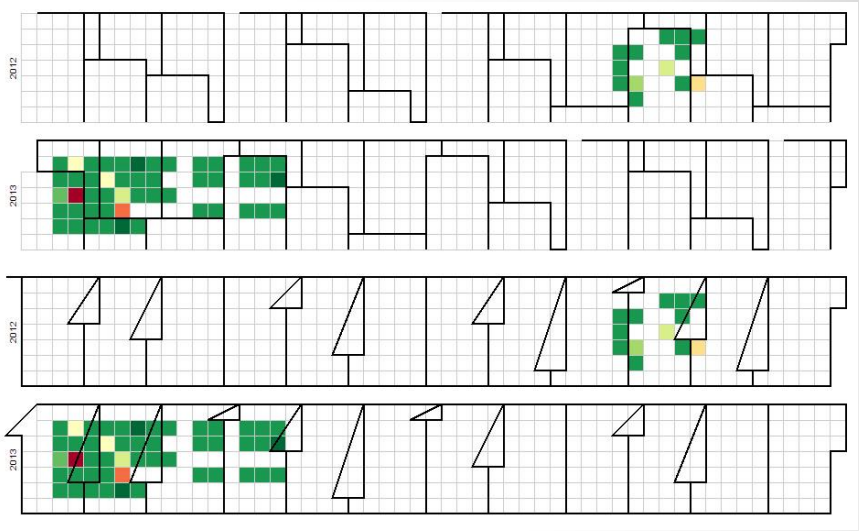

c3

Bugs

Alignment in the legend



Miscalculated occupancy and missing colours



Issues with connecting the borders to cells

lessons learned

Problems encountered

- Learning Oauth 2.0 (haaard >__<)*
- Working out Google API
- Understanding the d3 library
- Adapting example & template code to our purpose
- Working out what calendar data to visualise
- The best way to show time, events etc.

*Angie

How problems were solved

Tasks were assigned to different members:

- Learn the different technologies
- Make presentation
- Storyboard
- Find libraries
- Set up coding environment
- Create visual structures

conclusions

c3 improves your daily life by providing an overview for Google Calendar

Goals

- Visualize Google Calendar with a less cluttered view for a better overview
- Provide a yearly view (non-existent)
- Provide an improved monthly overview

Future work

- More interactivity
- Further improved overview
- Create a polished product for ‘C Awards'
- Make it available as a ‘Google App'

thank you! questions & feedback ?

Team:

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Mario Romero marior@kth.se

Try it out yourself! Demo available at:
http://hem.passagen.se/micaux/c3

more about the team

Studying: Human-Computer Interaction & Design with a minor in Innovation & Entrepreneurship → 2014

Angie Skazka

Searching for internship / part time job as interaction designer Connect: mikhailm@kth.se
Background: industrial automation, control theory, operator interface design (SCADA)
Interests: UI/UX design, infographics, graphic design

Manfred Micaux

Connect: se.linkedin.com/in/manfredmicaux/
Skills: Digital Marketing, Online Video, International companies
Interests: Video & Film Making, Accessibility, User Experience

Nicholas Tenhue

Connect: se.linkedin.com/in/nicholastenhue/
Skills: 3D & 2D design, game design, MOCAP, animation, UX design
Interests: game dev, augmented reality, cross-cultural relations, digital art

Zhenyu Lin

Connect: se.linkedin.com/pub/zhenyu-lin/41/750/760
Skills: UX design, interface design, digital graphics, industrial design, product design
Interests: music applications, photography applications, electronic commerce

Languages in the team: English, Russian, Swedish, French, Italian, Spanish, Finnish, Japanese, Chinese.