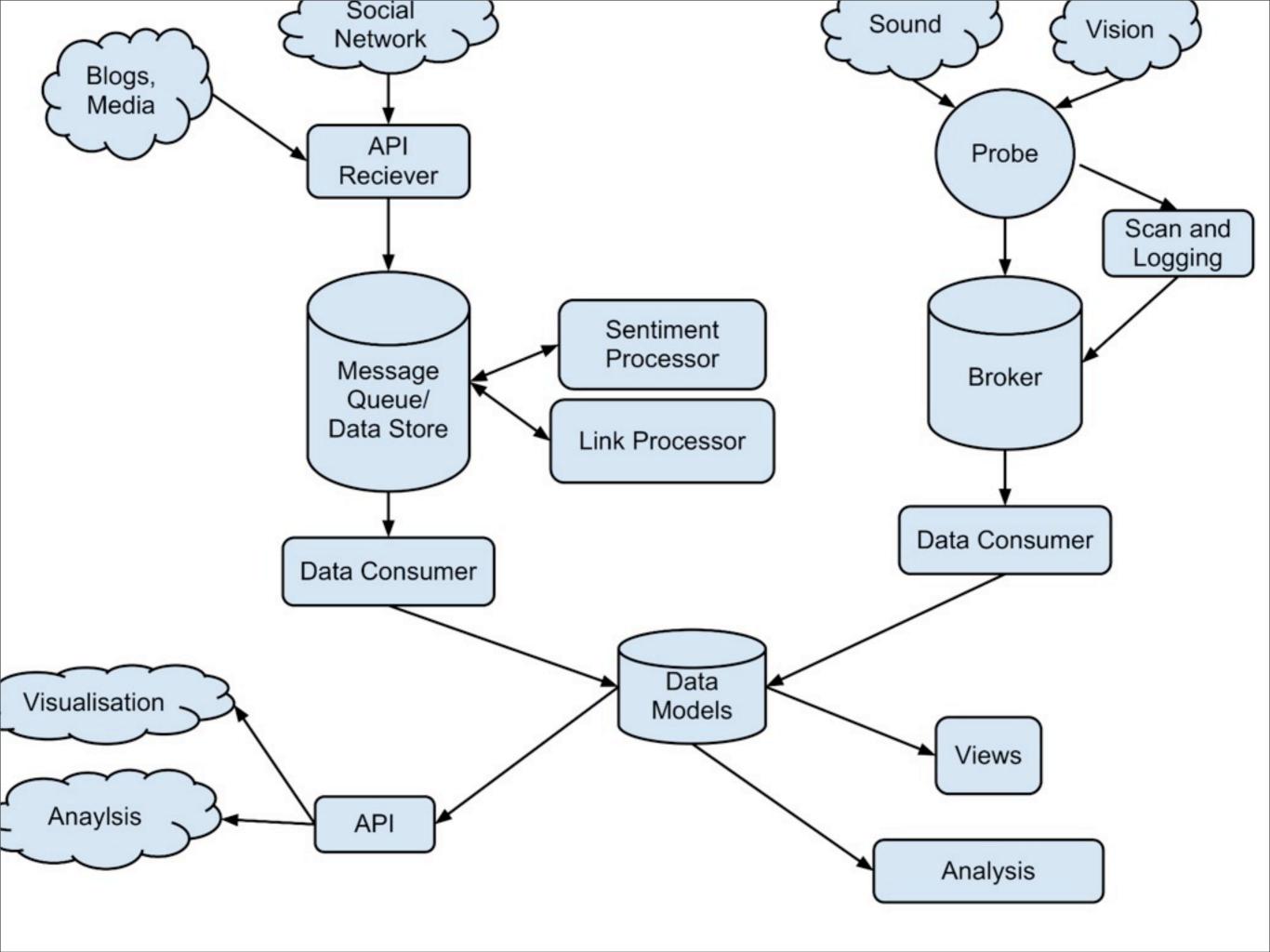


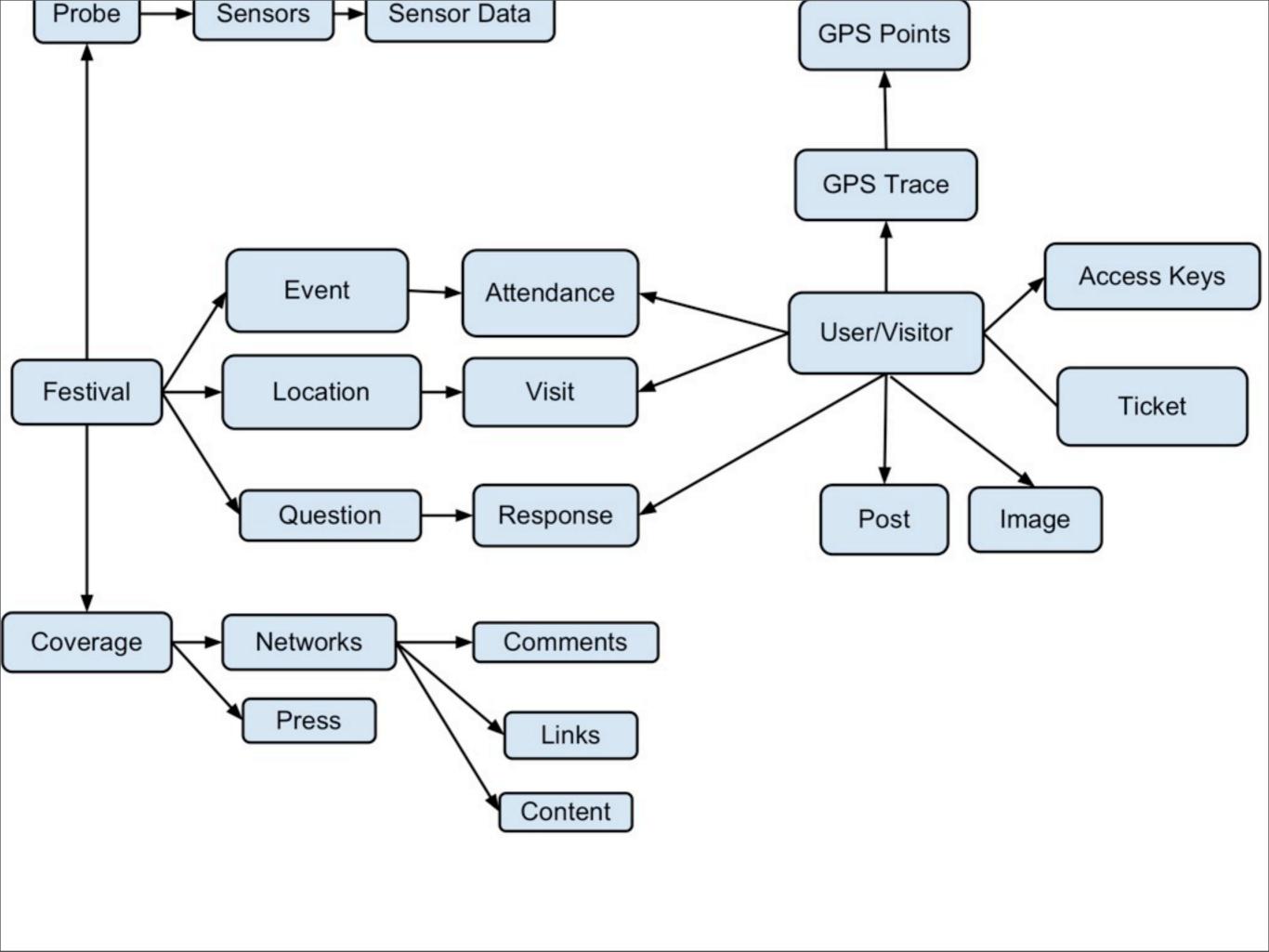
Qualia-Tech

Christopher Hunt

The last few months...

- Qualia-Smile for Jazz
- Qualia-Web-Engine and Qualia-App for Science
- Qualia-Probes for Music





Key Goals

- Where possible, Open Source
- Reusable
- Maintainable
- Avoiding Technical Debts

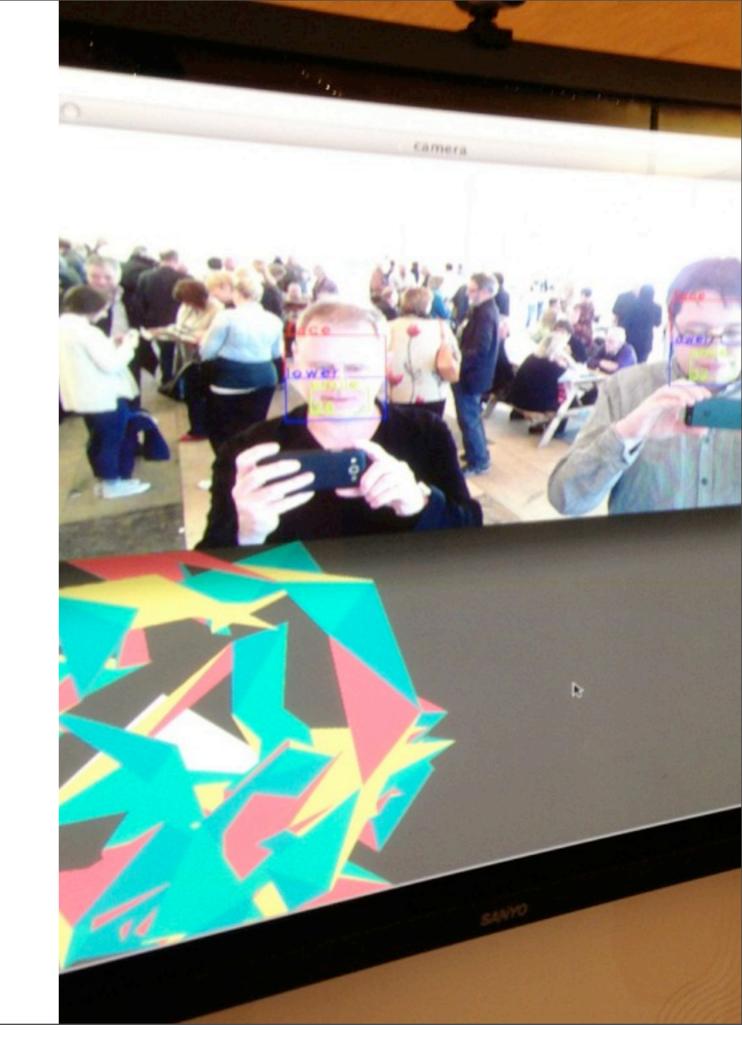
```
# Allocate the temporary images
gray = cv.CreateImage((image.width, image.height), 8
smallImage = cv.CreateImage((cv.Round(image.width / :
# Convert color input image to grayscale
cv.CvtColor(image, gray, cv.CV BGR2GRAY)
# Scale input image for faster processing
cv.Resize(gray, smallImage, cv.CV INTER LINEAR)
# Equalize the histogram
cv.EqualizeHist(smallImage, smallImage)
# Detect the faces
faces = cv.HaarDetectObjects(smallImage, faceCascade
haar scale, min neighbors, haar flags, min size)
# If faces are found
if faces:
    #print faces
    for ((x, y, w, h), n) in faces:
    # the input to cv. HaarDetectObjects was resized,
    # bounding box of each face and convert it to two
        #print "face"
        pt1 = (int(x * image scale), int(y * image sc
        pt2 = (int((x + w) * image scale), int((y + i
        cv.Rectangle(image, pt1, pt2, facecolor, 1,
        cv.PutText(image, "face", pt1, font, facecole
        face region = cv.GetSubRect(image,(x,int(y +
```

#split face



Qualia-Smile

- OpenCV Smile Sensor
- Connected to the Triangles
 Visualisation and Logging
 Software
- Installation piece and a demonstration of technology



Qualia-Web-Engine

- Modelling Data
- Providing access and restrictions
- Data Processing and Display
- http://qualia.org.uk/ admin/

Auth	
Groups	♣ Ade
Users	♣ Ade
Core	
Attendances	♣ Ade
Event responses	⊕ Ade
Events	♣ Ade
Festivals	♣ Ade
GPS Hotspots	♣ Ade
GPS Points	♣ Ade
Images	♣ Ad
Venues	♣ Ade
Visitors	♣ Ade
Musicmetric	
Tweet sentiments	♣ Ade
Probes	
Audio answers	♣ Ade
Face detections	♣ Ad
Probe messages	♣ Ad
Probes	♣ Ad
Questions	♣ Ad
Smile detections	- Ad
Registration	

Working with others - the API

- Standard REST API
- Provides connection to the Web Engine for the App, Probes and Log Parser for Smile
- http://qualia.org.uk/api/doc/

Response Body

```
"display on probe": true,
"end": "2013-05-01T22:30:00",
"id": 238,
"image url": "http://cheltenhamfestivals
"info": "As a Swedish songstress now res:
"name": "EMILIA MARTENSSON",
"price": "£60",
"quick find": "J02",
"resource uri": "/api/v1/event/238/",
"site url": "http://www.cheltenhamfestiva
"start": "2013-05-01T18:00:00",
"venue": {
  "about": "The Daffodil began life as Cl
  "accessibility": "The Daffodil is whee.
 "address": "The Daffodil",
  "directions": "The Daffodil is around a
 "id": 34,
  "image url": "http://cheltenhamfestiva.
 "lat": "51.8927000000",
  "long": "-2.0799600000",
```

Response Code

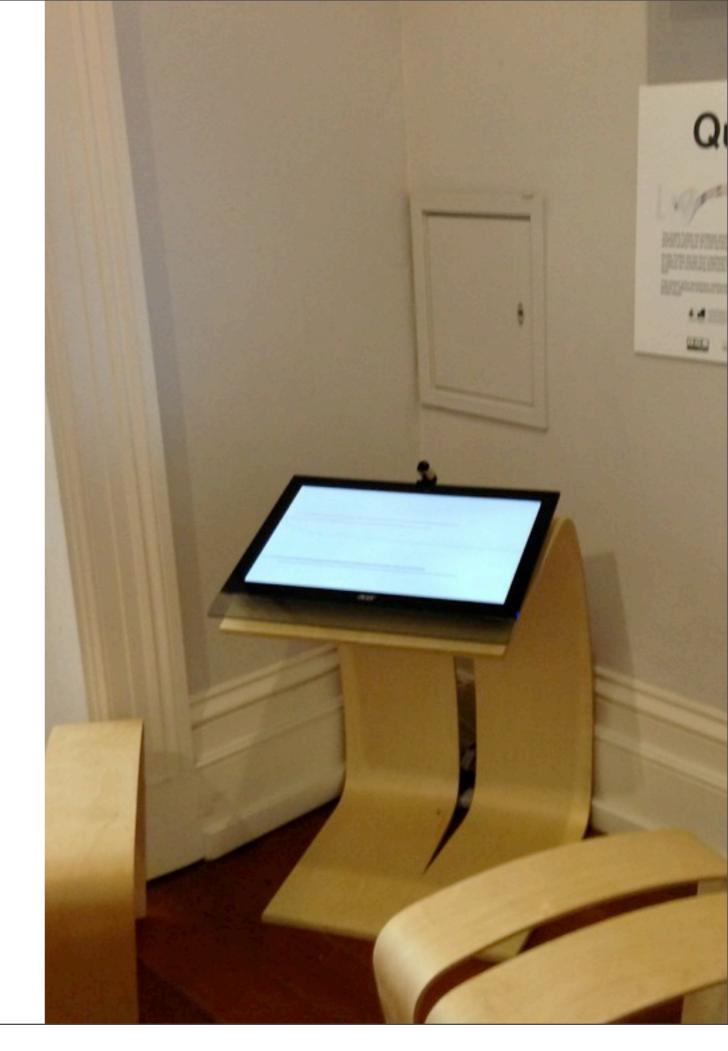
200

Response Headers

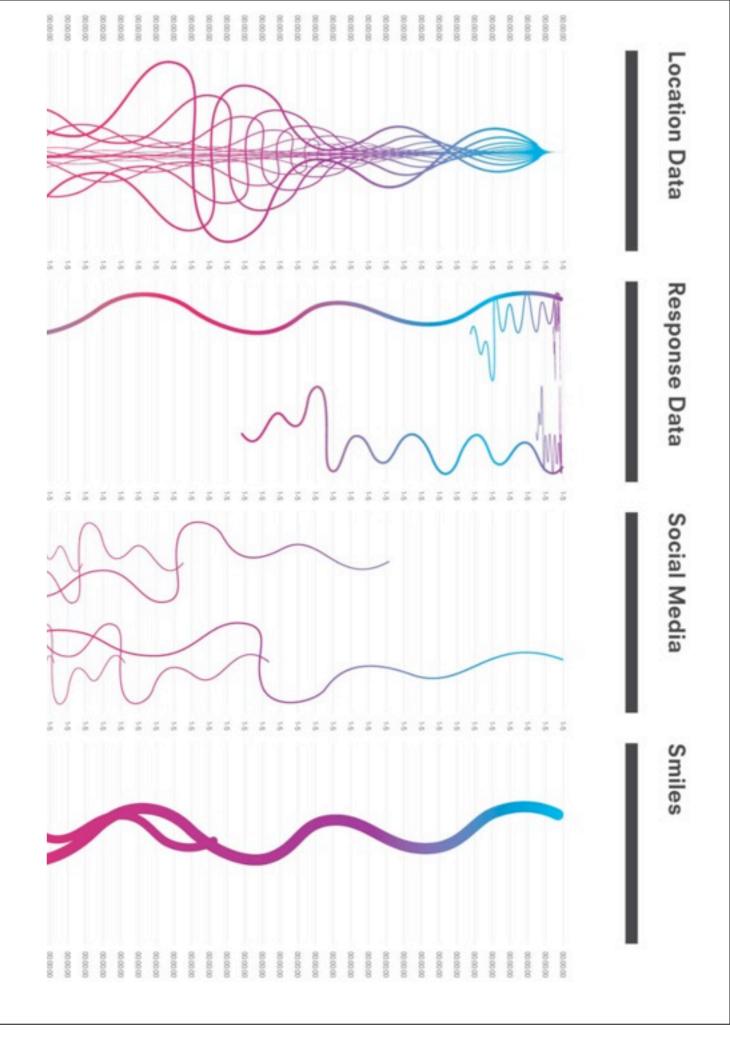
Date: Sun, 11 Aug 2013 10:30:57 GMT

Qualia-Probe

- Kiosk Installations
- Information and interaction point for the events
- Makes use of touchscreen, camera and microphone
- Built with web technologies



- Full development of Dashboard interface
- Working with Elixel on the full version of the App
- Adding SMS and Voice Calling
- Qualia-Realtime
- Qualia-Sentiment



Qualia-Future

- Open Sourcing
- The business model Product or People?
- The "responsive" event
- Should it be invisible?Ubiquitous?

