# Expressing Data

XY Feng

# Data of Photos

# Pixels Data - Pixel Density

How the pixels look:

| 0 | 1 | 2 | 3 | 4 |
|----|----|----|----|----|
| 5 | 6 | 7 | 8 | 9 |
| 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 |

How the pixels are stored:

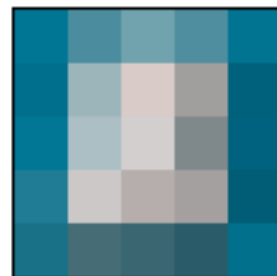| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | . | . | . | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|



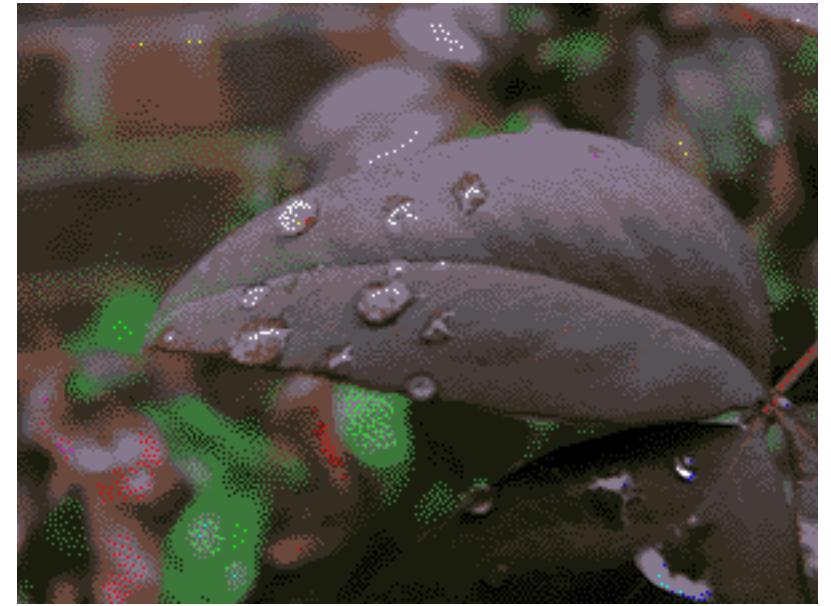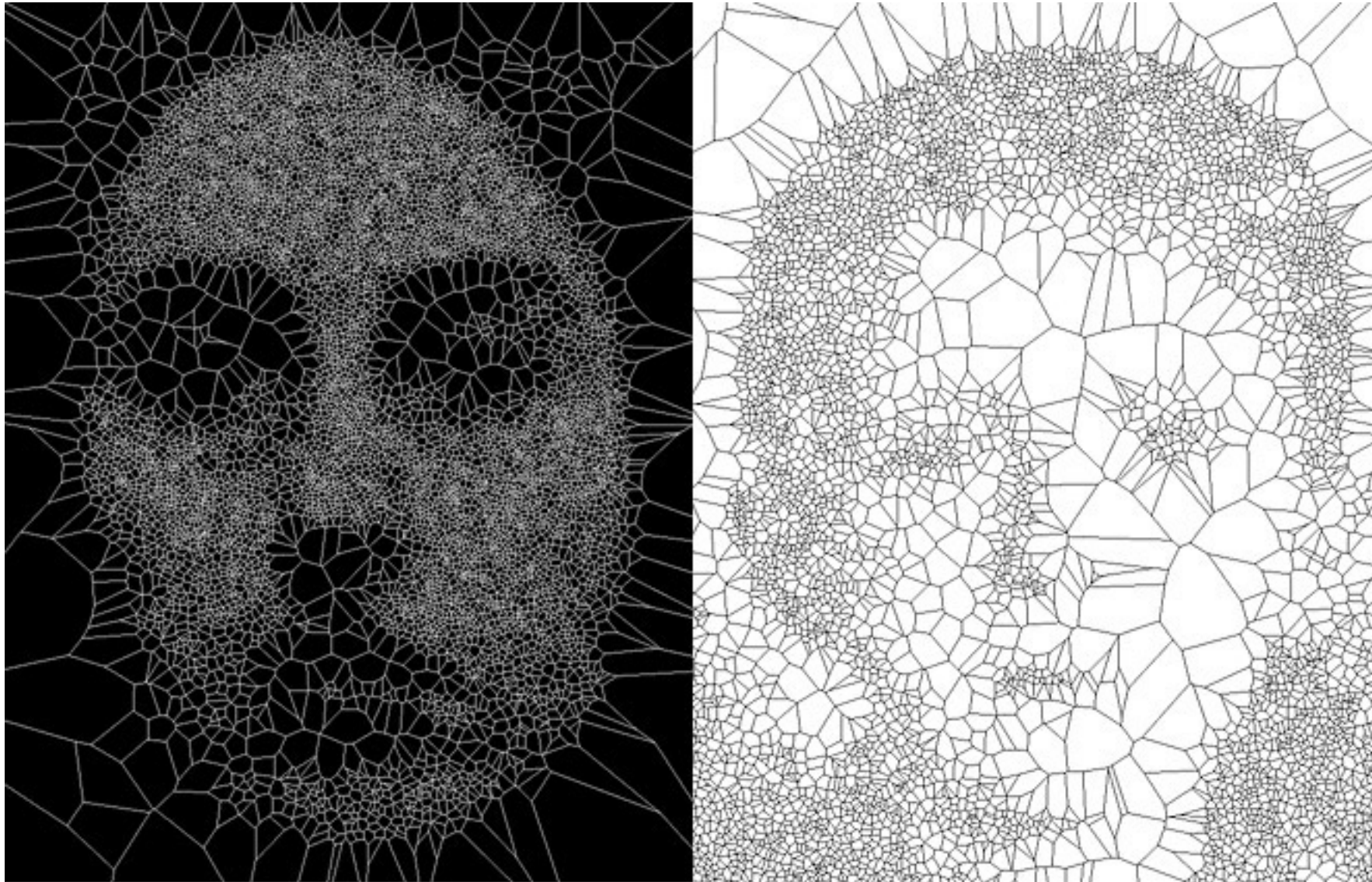1 x 1    2 x 2    5 x 5    10 x 10    20 x 20    50 x 50    100 x 100

# Pixels Data - Color Depth

# Pixels Data - Examples



Segmentation and Symptom, Golan Levin, 2000

Voronoi Diagram

# Pixels Data - Examples



Casa da Musica, Stefan Sagmeister, 2007

# Pixels Data - Examples



D-Mesh, 2011, Dofl Yun
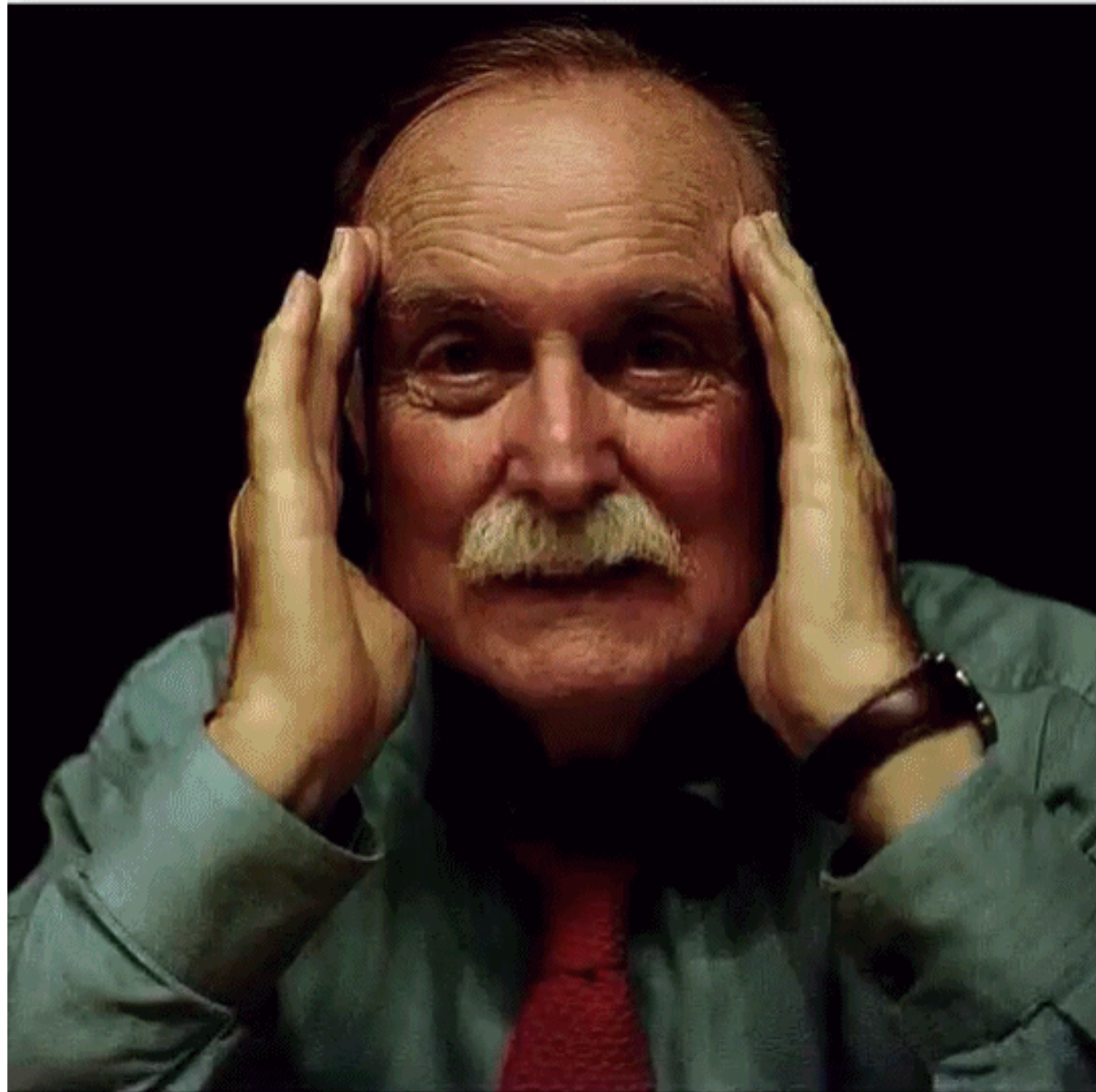
# Pixels Data - Examples



Play & Academy, Luke Dubois, 2006

Avatar, Portrait, Shin Seung Back, 2013

# Pixels Data - Examples



I'm Sitting in Stagram, Pete Ashton, 2015

# Pixels Data - Examples



Glitch Textile, Phillip Sterns

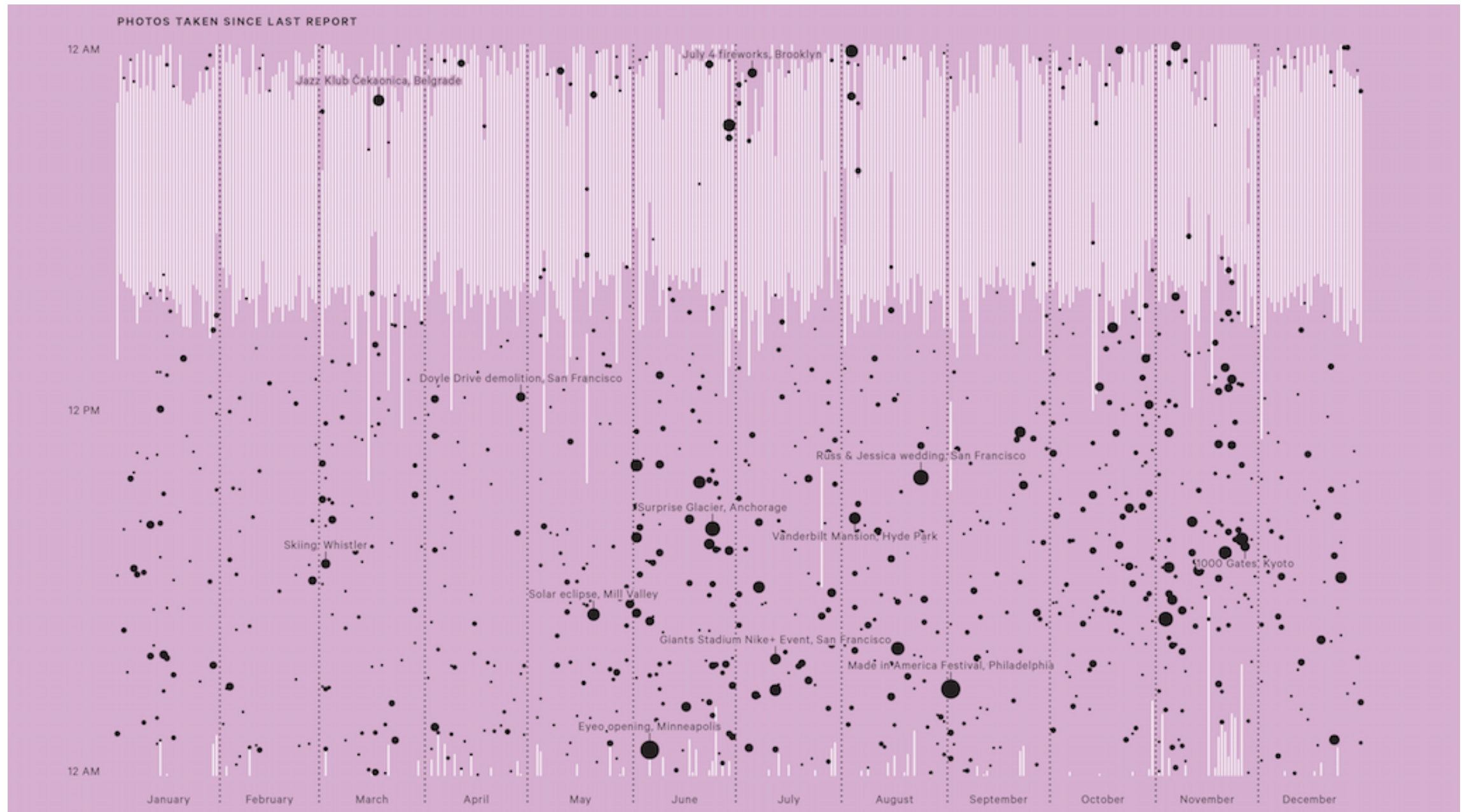Glitch Art

# Pattern Data - Examples

- Face size, eye position ( OpenCV )

- Age, emotions ( Blink , FACS )

- Image Tagging ( Google Photos )
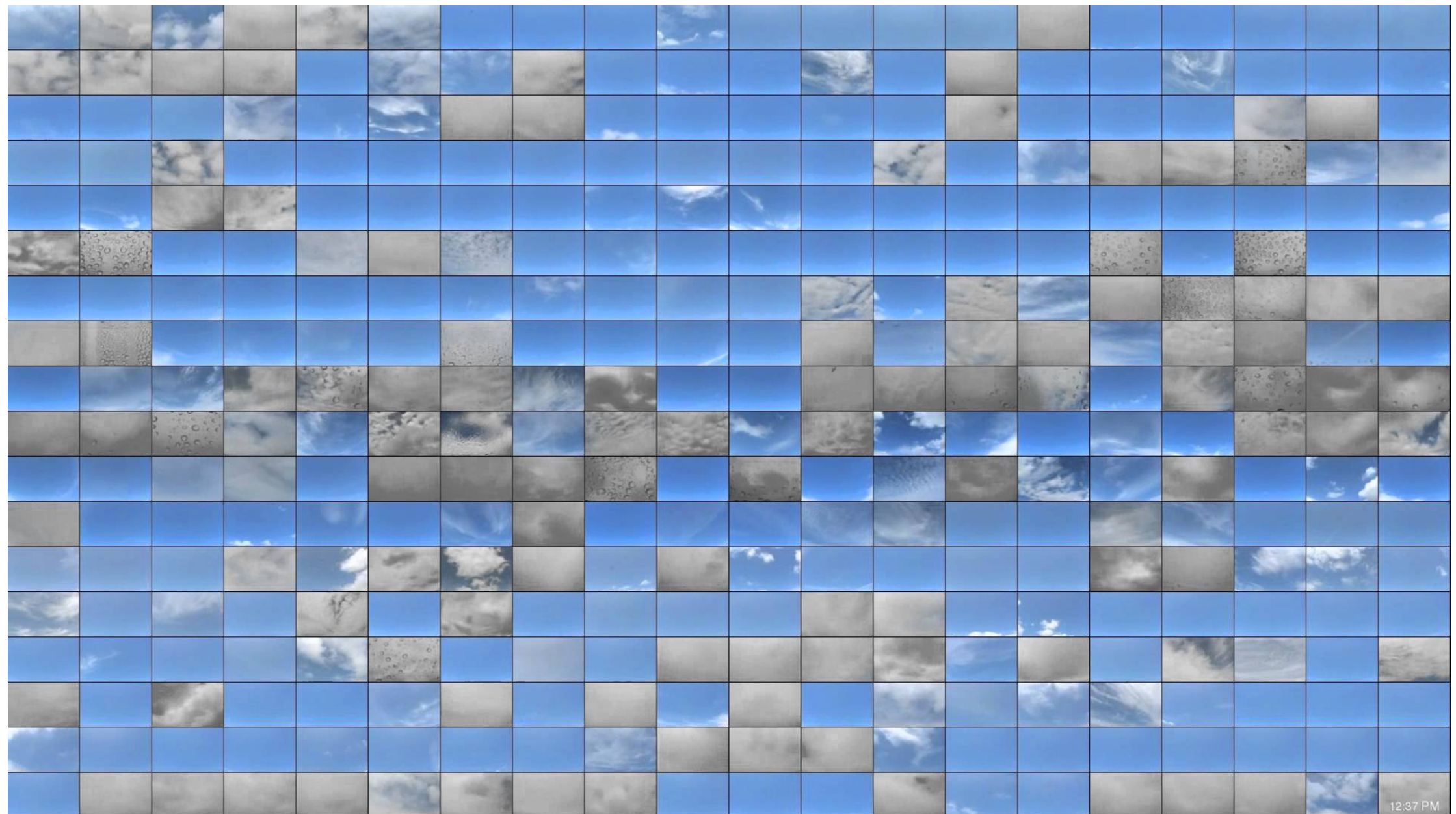
# Pattern Data - Examples



Google Faces, Onformative, 2015

# Metadata



Annual Report, Nicholas Felton, 2012 ( Class )

# Time Data - Examples



A History of the Sky, SF Exploratorium, 2011

# Time Data - Examples



Time is a Dimension, Fong Qi Wei, 2014

# Time Data - Inspirations



Hannover Airport, Ho-Yeol Ryu, 2012

# Assignments

# Assignments

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- Make up class this Sunday ( Nov 15th )

- Take Photos for 1 week, at least 3 photos a day

- Readings ('The Visual Display of Quantitative Information')

  - Chapter 4 ( Page 90 – 105 )

  - Chapter 6 ( Page 122 – 137 )

# Coding Club