

cross-cultural data visualisation

project 3: city & transport & people

with James Boekbinder & Marieke de Beurs

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Introduction

project 3

Week 1

Collecting data

Part 1: Collect data for a spatial graphic

Collect data to make a **spatial** representation of your commuting route.

Working with data: Understanding its properties and qualities

Qualitative (Textual)

Bolt quote: “It wasn't perfect today, but I got it done and I'm pretty proud of what I've achieved. Nobody else has done it or even attempted it”

Categorical (Nominal)

The athletics event: **Men's 100m**

Categorical (Ordinal)

The medal category: **Gold**

Quantitative (Interval)

The estimated temperature at track level during the Men's 100m: **28°C**

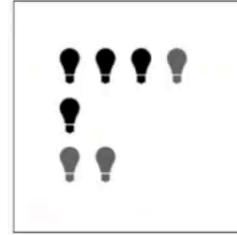
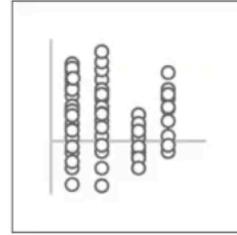
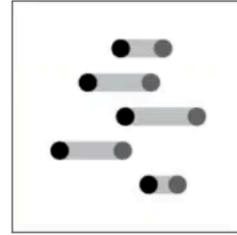
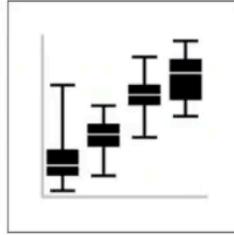
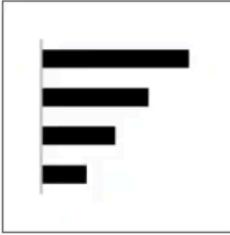
Quantitative (Ratio)

Usain Bolt's winning time: **9.81 seconds**

Data representation: How to show what you want to say?

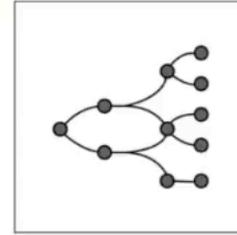
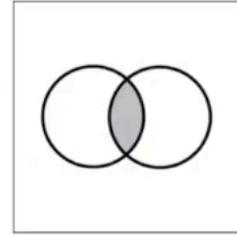
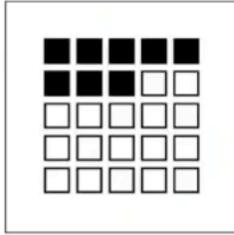
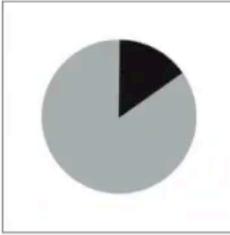
CATEGORICAL

Comparing categories and distributions of quantitative values



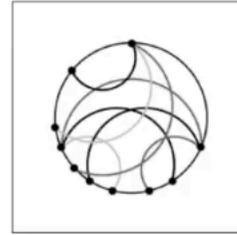
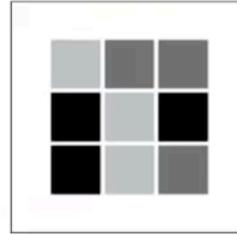
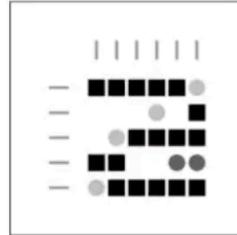
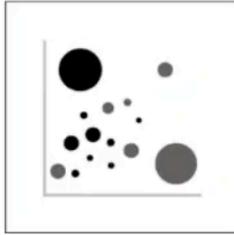
HIERARCHICAL

Charting part-to-whole relationships and hierarchies



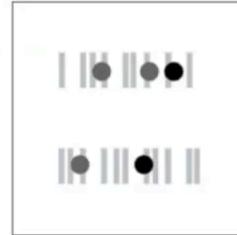
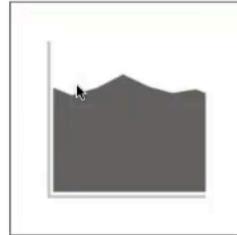
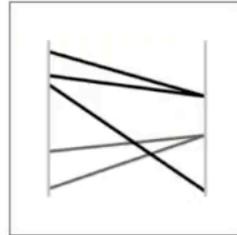
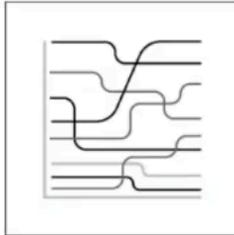
RELATIONAL

Graphing relationships to explore correlations and connections



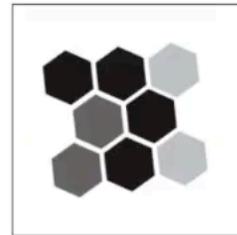
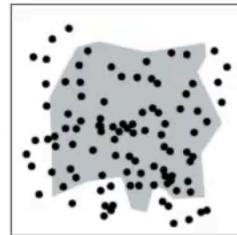
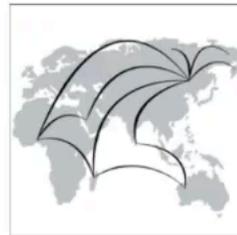
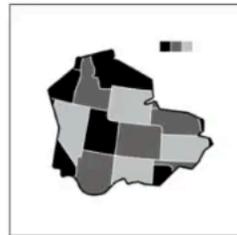
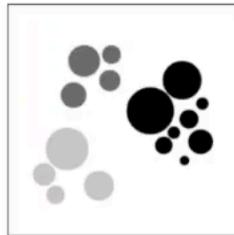
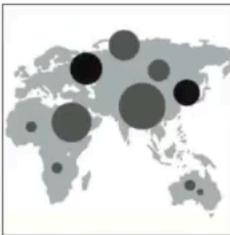
TEMPORAL

Showing trends and activities over time

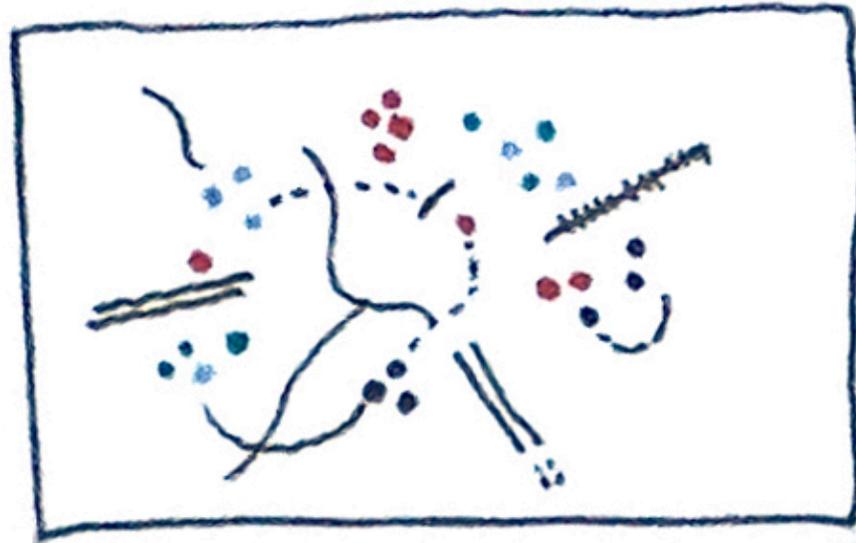


SPATIAL

Mapping spatial patterns through overlays and distortions



Spatial relations or events in space



... GEOGRAPHICALLY
HIGHLIGHTING WHERE
YOU WERE ...

Measure the spatial position – **where** things happen

Spatial Encoding environment

Encoding

Use images and shapes with universal meanings and measurable, distinctive properties.

The task of the designer is 'encoding': using visual patterns that will be easy for users to decode.

Decoding

Understanding the information quickly, with a minimum or no conscious effort, simply through recognizing color, shape, position and movement.



Fiona Yeung



Isna Design

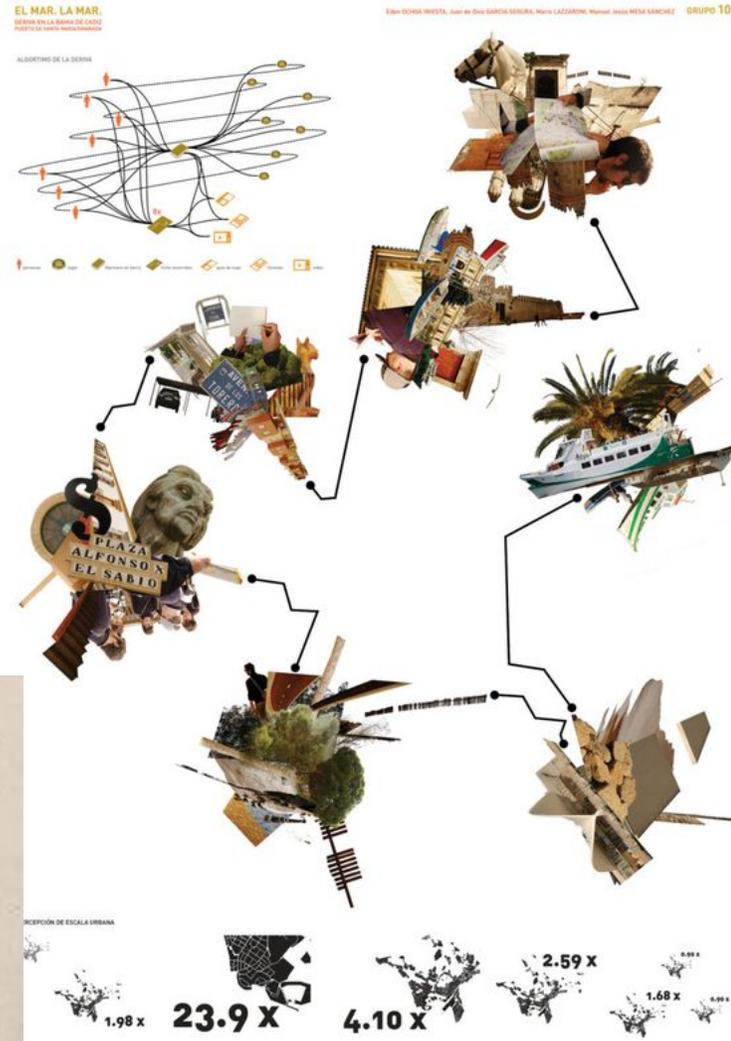
Route maps



Carmine Errico



Martin Haake



Edén Ochoa, Mario Lazzaroni & Manuel Mesa



Serge Najjar

Assignment: City & Transport & People

Themes for data collection for spatial representation

Theme #1: Social



Theme #1 Social

Think about it: you observe and participate in many social interactions while making a trip through the city.

If you are cycling to work, for example:

Observe and collect:

- How many times do you seek eye contact with another cyclist, a pedestrian or a motorist?
- How many cycles are carrying more than one person? Which combinations are there?
- What kinds of social groups and interactions do you witness and participate in?
- Are there sounds or other socially related things you want to capture?

Theme #2: Physical



Theme #2 Physical

How What physical properties do you notice, which influence your experience?
For example:

Observe and collect:

- Which sounds are present, and what role do they play?
- What are noticeable physical characteristics of vehicles (e.g., power)?
- How many stops did you make? (Why?)

Theme #3: Personality and style



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Theme #3 Personality and style

How What physical properties do you notice, which influence your experience?
For example:

Observe and collect:

- If you had to give the vehicles, people, other things you encounter a nickname, what would it be?
- For example, are some bicycles 'poodles' and others 'bulldogs'?
- Are there buildings or street furnishings that stand out because of the style?
- Can the styles you encounter be categorized?

Theme #4: Thoughts and feelings



Theme #4 Thoughts and feelings

What are your thoughts and feelings while travelling which influence your experience?
For example:

Observe and collect:

- How many decisions did you make during your trip?
- Which things got the most attention? Why? (Appeal, memory of the past, other)
- Which things moved you the most emotionally?

DEADLINE

The deadline to deliver collected data in tables or another form is: Monday, May 23, 2022. 17:00 hours.

Add your work to the Miro board:

https://miro.com/app/board/uXjVO8fTpio=?share_link_id=995166510691

Part 2: Collect photographs

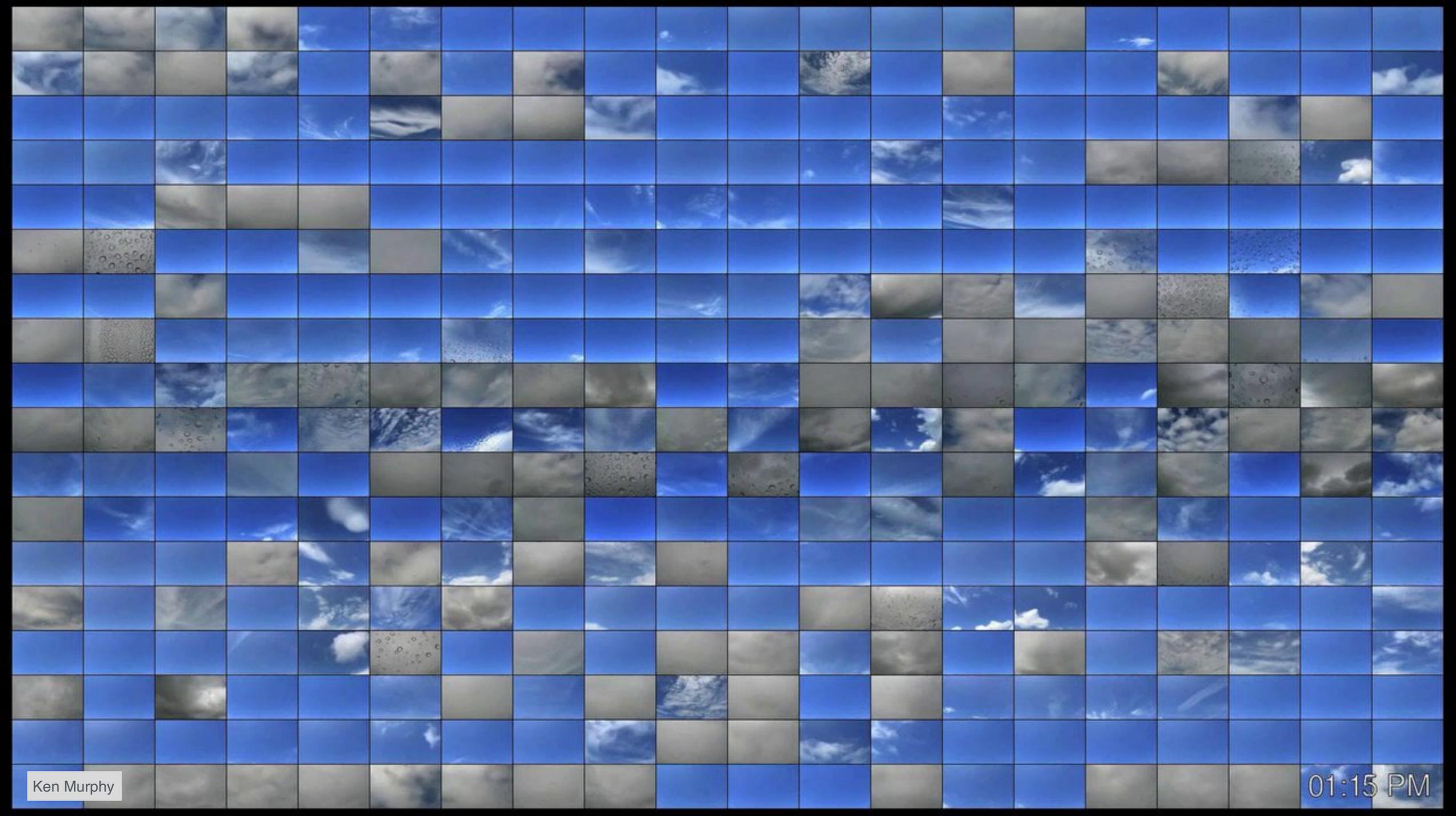
During the next three weeks, choose a specific place, subject and time to make photos on your transportation journey.

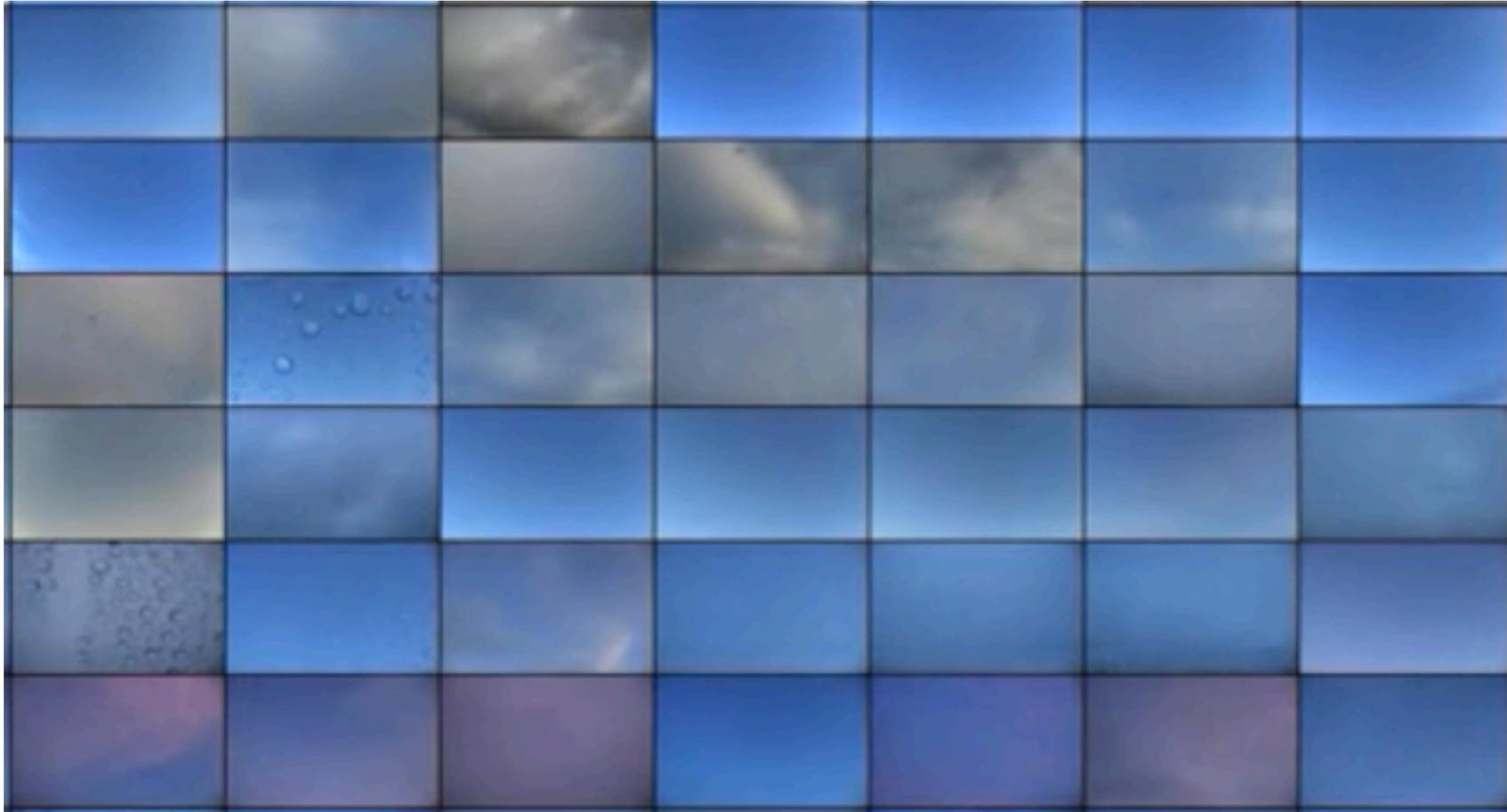
Take the photos every day. Use the themes from the previous section as a guideline.

Examples of what you can photograph are:

- Skies
- Favourite views during commuting
- Meals
- People
- Anything you find interesting or noticeable and see repeatedly

Later, you will use these to make a visualisation that shows the changes that occur in your subject over time.





Canada

Ghana

Mexico

Netherlands

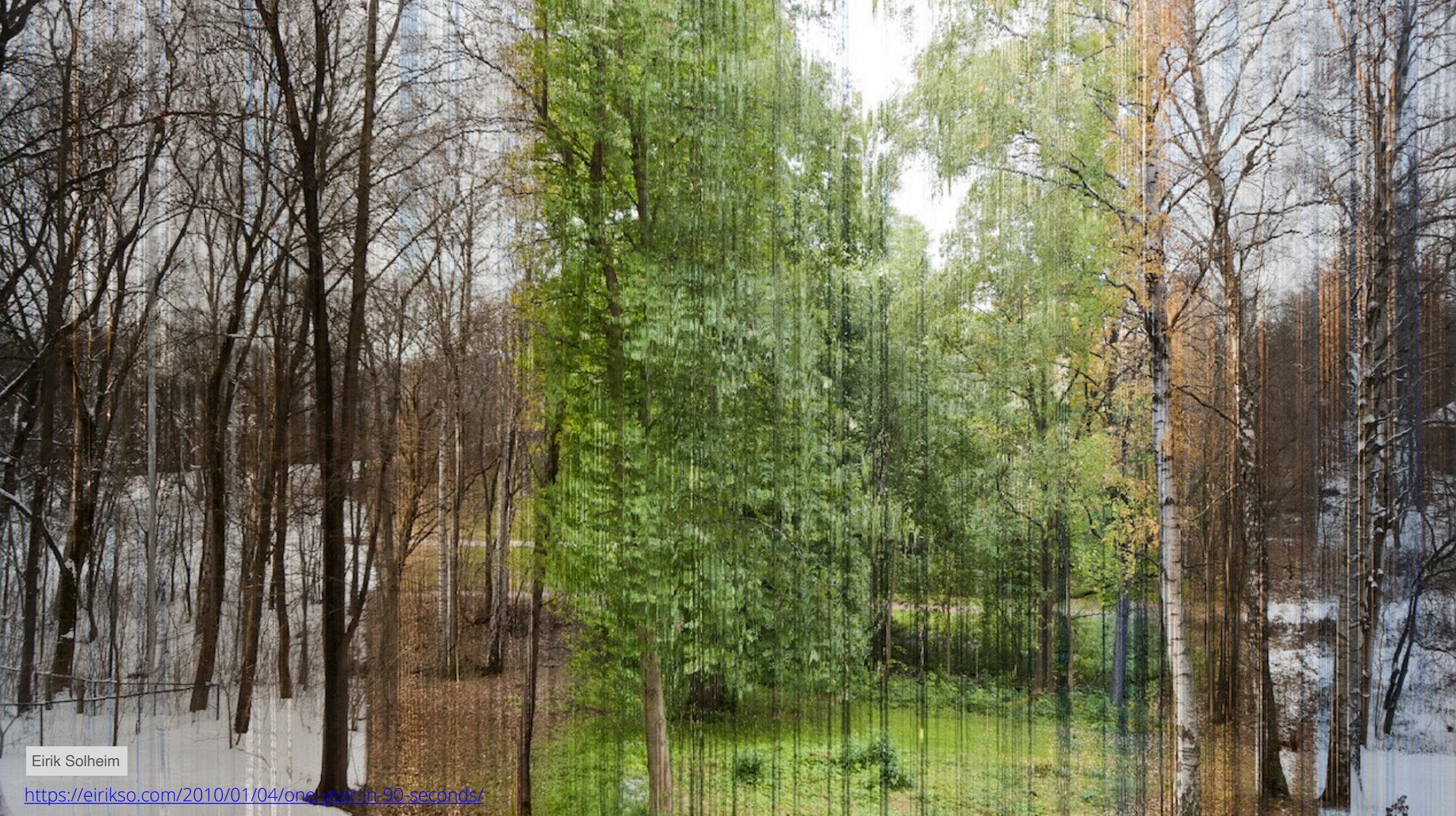
Romania

Turkey



Peter Funch

<https://www.peterfunch.com/portfolio/babel-tales/>



Eirik Solheim

<https://eirikso.com/2010/01/04/one-year-in-90-seconds/>



Examples: combine multiple moments into one image

