



Storytelling in Interactive Atlases – Following the Intrinsic Map-Centered Approach

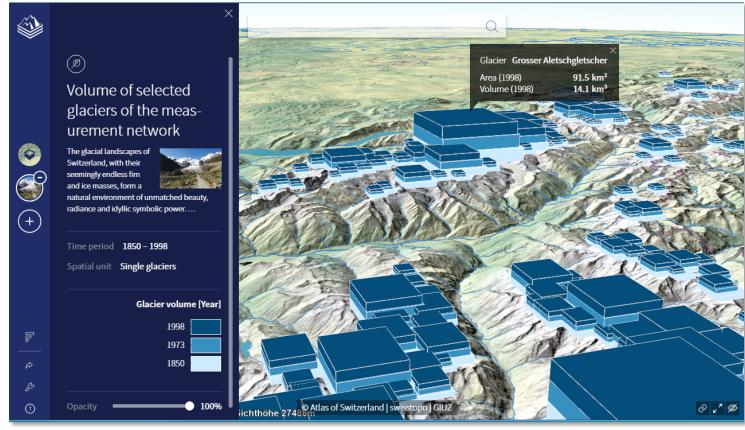
René Sieber, Michael Schmuki Institute of Cartography and Geoinformation, ETH Zurich

30th International Cartography Conference 2021 | Florence, Italy

The Role of Atlases

Information Retrieval by Means of:

- Relevant topics
- Curated set of maps
- Related information Text, Pictures, Charts
- **Tools / Functions** Navigation, Overlay of map layers, Data Import, Timeline, Query/Picking, Comparison, Multimedia
- Relationships
- > Yet still ...

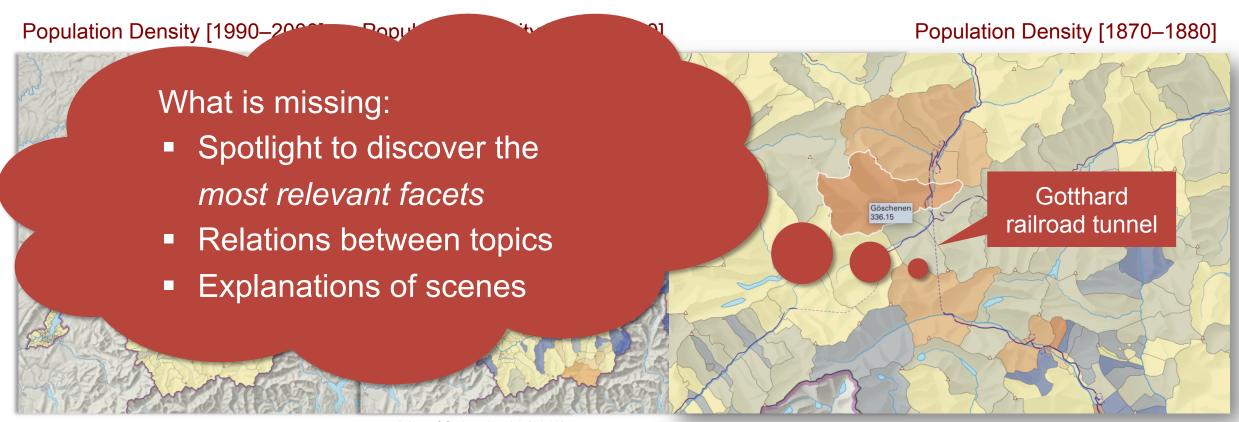


Atlas of Switzerland - online [2016]



The Role of Atlases

The Main Problem of Information Retrieval



Atlas of Switzerland 3 [2010]

Storytelling in Interactive Atlases

Main Motivation to Develop a Storytelling Feature

1 Topic Tell stories by linking map topics, and by lighting up hidden data secrets

Time Tell stories over a longer timespan

3 Location Tell stories of different topics, at the same location

4 User's Fun Create a "Story feeling"

Verlinkung von Karte zu Karte (um größere Stories zu erzählen) ermöglichen Ziel 1: Karten-übergr eifende Geschichten erzählen

Aktuelles Produkt motiviert nicht zur Vertiefung von Themen

2. Ziel: thichten über Auffälligkeiten: Ähnlich re Zeiträume wie im Data Journalism; welche Geschichten ählen und Zusammenbringer (Spezialitäten) entdeckt älligkeiten man wenn man die orheben Daten aufbereitet? Geographische Orte mit geschichtlichen Ereignissen verknüpfen und zugänglich für den Benutzer machen

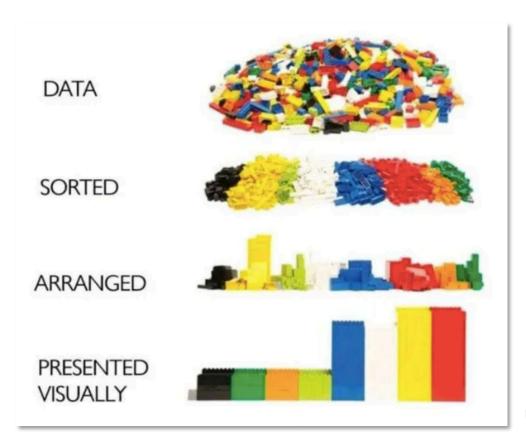
3. Ziel: "Story-Feeling" (Bsp. Göthes Reisen), Stimmung schaffen

Atlas of Switzerland / dreipol GmbH [2021]



Storytelling in Interactive Atlases

A LegoTM Construction Guide for Stories

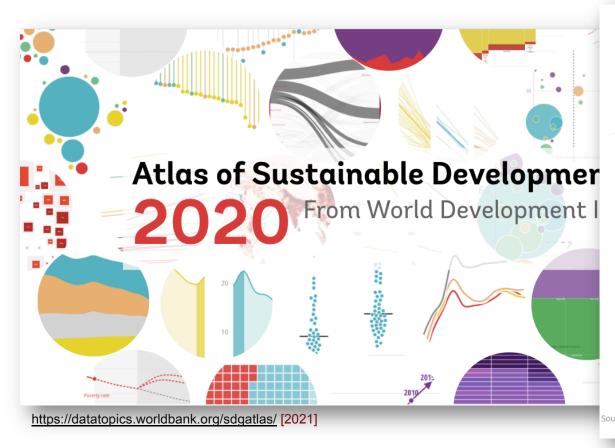


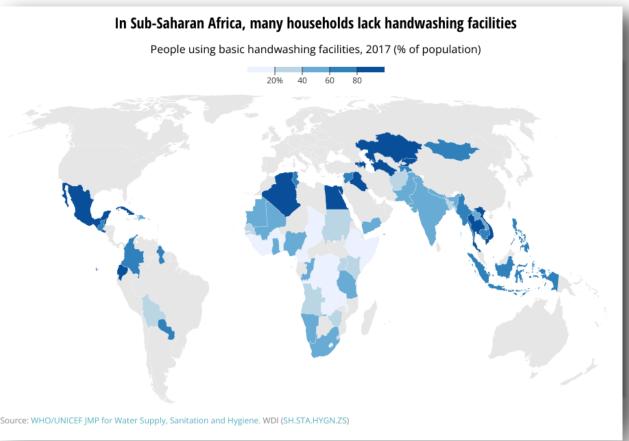


Hot Butter Studio, Brandon Rossen [2021]



Storyline-Centered







The 4 Map-Centered Story Types

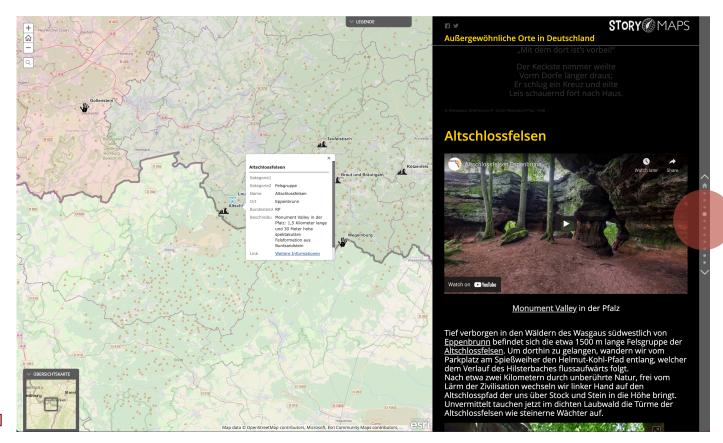
Type 1 Scrollytelling	Type 2 Guided Tour	Type 3 Narrative-Related	Type 4 Camera-Related
Author-driven	Author-driven	User-driven	User-driven
Linear sequence	Linear sequence (movie)	Narrative-dependent sequence (e.g., time)	Frustum- (camera view) dependent sequence
Story is always visible (navigation)	Story is told during the journey (text/speech)	Story is told on demand (hover/click on POIs)	Story is told on demand (hover/click on POIs)
Switch to related stories	(Switch to related stories)	Switch to related stories	Switch to related stories



Type 1 Scrollytelling

- Author-driven
- Linear sequence
- Story is always visible (navigation)
- Switch to related stories
- "Book reading" / Travelling experience

Extraordinary places in Germany



https://www.storymaps.de/ [2021]

Type 2 Journey / Guided Tour

- Author-driven
- Linear sequence (movie)
- Story is told during the journey (text/speech)
- (Switch to related stories)
- Cineastic Experience

Melting Swiss Glaciers

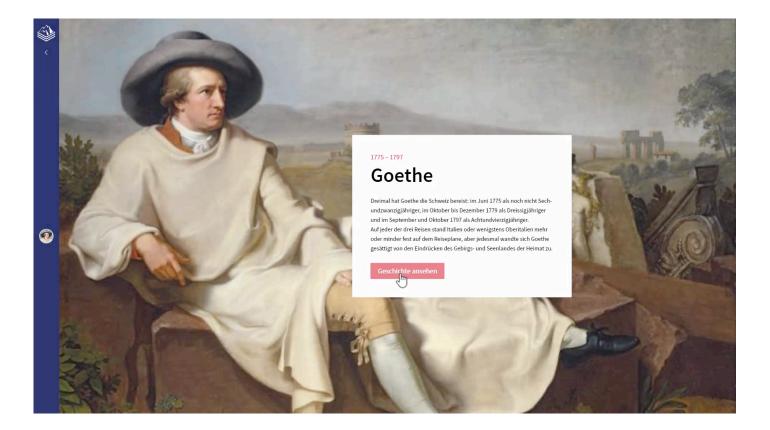


Atlas of Switzerland – Sandbox [2020]

Type 3 **Narrative-Related Story**

- *User-*driven
- Narrative-dependent sequence
- Bidirectional control (story | map)
- Story is told on demand
- Switch to related stories
- Free "Book reading" / Travelling experience

The Swiss Journeys (1775 – 1797) of J.W. Goethe



Atlas of Switzerland – Sandbox [2021]

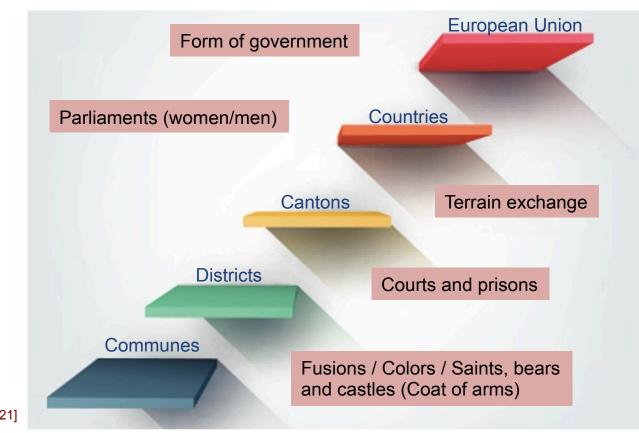


Zooming

Type 4 Camera-Related Story

- *User*-driven
- Frustum- (camera view) dependent sequence
- Sub-Stories depend on zoom level / camera position

Administrative Structures / Profiles



https://gramconsulting.ca/ [2021]

Camera-Related Story Type 4

- *User-*driven
- Frustum- (camera view) dependent sequence
- Sub-Stories depend on zoom level / camera position
- Bidirectional control (story | map)
- Story is told on demand
- Switch to related stories
- Free Cineastic Experience

Water & more | Are there Tsunamis in Switzerland?



Sum-Up

- Active, user-driven approach
- Makes maps vivid
- Needs only a couple of storytelling features (intro page, panel, slider)
- Could be expanded with additional map features
- Can be used for atlas advertisement
- Printed and Digital Atlases are well suited for Storytelling!

https://www.alphagamma.eu



More Storytelling Ideas for the AoS

- French Invasion and Helvetic Revolution
- Swiss Dunes and Pyramids
- Origin of place names
- Waterways never built

