Content

- SDGs & Geospatial Data
- Map design considerations
- Maps & diagrams
- Map Use Environments

Structure &

The book comprises four sections. Section 1 introduces the SDGs and their relation to geospatial data, describing SDG indicators and data transformations for mapping. Section 2 describes foundational design decisions in the cartographic workflow including projection, scale, generalization, symbolization, typography, and visual hierarchy among others. Section 3 introduces common map types (e.g., choropleth maps, proportional symbol maps, thematic maps, cartograms) and diagrams (e.g., bar charts, scatterplots, timelines) for representing the SDG indicators. Finally, Section 4 discusses considerations for map use environments such as audiences, user interfaces and interaction options, mobile and web, storytelling versus explanation, and open access.

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Maps & diagrams
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https://www.un-ilibrary.org/content/books/9789216040468
But...what do we see?
But...what do we see?
Map design considerations

The process

1. Define the Project Goals
2. Review Available Datasets
3. Clean and Format Datasets
4. Transform & Analyze Data for Insights
5. Execute the Map Design
6. Evaluate and Edit the Map Design

“Every cartographer has a plan till they actually look inside their dataset”
Gretchen Peterson

An example
Map design considerations

The indicator data
Which map type? Dasymmetric map
Map Use Environments

1. Desktop

2. Mobile

3. Atlas design

GOAL 1: END POVERTY IN ALL ITS FORMS EVERYWHERE

736 million people lived in extreme poverty in 2015

1. 413 Million Sub-Saharan Africa

Most people that live on less than $1.90 a day live in Sub-Saharan Africa

12pt Gutter

12pt margin

75pt columns

The map reports Indicator 1.1.1 (most current value 2012–2016) on the proportion of population living below the international poverty line (set at $1.90 per day) in a chronically poor country. The official poverty line is set by the government and is used to generate poverty statistics. The map is designed to show the relative poverty levels and help in identifying areas with high poverty rates.
Map Use Environments
About

These tutorials pair with the open-source book *Mapping for a Sustainable World* cartography through the United Nations’ 17 Sustainable Development Goals developed as a collaboration between the United Nations and the Inter-University of Wisconsin Cartography Lab supporting creation of the National Science Foundation CAREER Grant #1555267.

All tutorials demonstrate map design using the open access mapping tutorials is to enhance the cartographic design thinking described in Na map software training, putting concepts into practice.

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**Figure Data & Design Archive**

This repository archives UW Cart Lab data and design materials for the book as part of the open educational resource. Data were downloaded from the United Nations SDG Indicators Database, which is continuously updated and maintained. Archived datasets reflect the version used for figures in *Mapping for a Sustainable World* to enable their exact replication from the book.

The UW Cart Lab also provides the *Mapping for a Sustainable World: QGIS Technical Supplement* to walkthrough how to recreate these figures using the QGIS open source mapping software. All archived materials, including the QGIS Supplement and contents of the Mapping for a Sustainable World cartography book, are available for download as PDFs and Zipped files.