



UvA-DARE (Digital Academic Repository)

The language of graphics

von Engelhardt, Y.

[Link to publication](#)

Citation for published version (APA):
von Engelhardt, J. (2002). The language of graphics

General rights

It is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), other than for strictly personal, individual use, unless the work is under an open content license (like Creative Commons).

Disclaimer/Complaints regulations

If you believe that digital publication of certain material infringes any of your rights or (privacy) interests, please let the Library know, stating your reasons. In case of a legitimate complaint, the Library will make the material inaccessible and/or remove it from the website. Please Ask the Library: <http://uba.uva.nl/en/contact>, or a letter to: Library of the University of Amsterdam, Secretariat, Singel 425, 1012 WP Amsterdam, The Netherlands. You will be contacted as soon as possible.

The Language of Graphics

**A framework for the analysis of syntax and meaning
in maps, charts and diagrams**

The Language of Graphics

A framework for the analysis of syntax and meaning
in maps, charts and diagrams

ACADEMISCH PROEFSCHRIFT

ter verkrijging van de graad van doctor
aan de Universiteit van Amsterdam
op gezag van de Rector Magnificus
prof. mr. P.F. van der Heijden
ten overstaan van een door het college
voor promoties ingestelde commissie,
in het openbaar te verdedigen
in de Aula der Universiteit
op vrijdag 13 september 2002, te 14.00 uur

door

Jörg von Engelhardt

geboren te Hannover, Duitsland

Promotiecommissie

Promotores: Prof. dr. ir. Remko Scha
Dr. Peter van Emde Boas

Overige leden: Prof. Thijs Chanowski
Dr. Theo Janssen
Prof. Paul Mijksenaar
Prof. dr. Clive Richards
Prof. dr. ir. Arnold Smeulders

Faculteit der Natuurwetenschappen, Wiskunde en Informatica
Universiteit van Amsterdam

The financial support for this research project was provided by the National Institute for Public Health and the Environment (RIVM) in Bilthoven, and by the University of Amsterdam.

Copyright © 2002 by Yuri Engelhardt.

Cover design by Niels van der Sluijs.

Cover illustration: U.S. population in 1979, plotted by the Havard Laboratory for Computer Graphics Mapping Service. This is an example of a 'composite meaningful space', see also figure 2-30.

ISBN 90-5776-089-4

To Lieve Witteveen

the most amazing person on this planet

