
Google Hands

Vorgestellt von ULRIKE BERGERMANN

Zuerst die Hände. Auf den Bildern liegen Register ineinander, die sonst sowohl als einzelne ungesehen bleiben als auch als getrennte gelten: die Handarbeiten in der digitalen Reproduktion. Bevor ein Buch maschinell automatisiert verfügbar ist, muss es angefasst worden sein, in mühsamer und zeitraubender Kleinarbeit sind die Seiten umgewendet und vielleicht fixiert worden, bevor der Scanner sie berührungslos abtastet. Unschärfen und *glitches* erinnern daran, dass auch die Zeit und Bewegung der Arbeit im Scan nicht mehr sichtbar ist. Sind es belesene oder ungelernte Arbeitskräfte, die diese Arbeit am Papier tun? Ihre Spuren tauchen auf den Scans nur als Fehler auf – weil sie den Text verdecken, um den es geht, aber auch, weil sie ein Bild abgeben statt Lettern und weil sie Paratexte zur Entstehung des digitalen Buchs liefern, die ungesagt bleiben sollen, weil Computerkonzerne ihre Personalkosten gerne in Niedriglohnländern oder mit einheimischen Geringverdiener_innen einsparen.

Zweitens die Handschuhe. Kunstwerke werden mit Baumwollhandschuhen angefasst, Papier voll Druckerschwärze mit Kunststoffhandschuhen. Muss das Papier vor menschlichem Fingerschweiß geschützt werden oder der Finger vor der Säure des Papiers? Wer kann wen vergiften oder anstecken? Die Handschuhe legen Assoziationen nahe an medizinische Untersuchungen, an Schutz vor HIV, an Safer Sex. Unsichtbar gemachte Arbeit also und Kontagion, alte Materialität und ein Kontakt von Leser_in und Inhalt, die aus dem Scanergebnis verbannt sind und nur noch im Bereich der Kunst, die Fehler sammelt, ein Residuum haben.

Für eine Studienarbeit im Bereich Buchdesign sollte Benjamin Shaykin Material suchen. Er griff der Einfachheit halber zu digitalisierten Büchern – und fand eine braune Hand, «its index finger wrapped in a hot-pink condom-like covering.»¹ *Google Hands* ist eine Zusammenstellung zwölf einzelner handgenähter Bändchen, die jeweils eine bestimmte Art von *glitch*, von Scan-«Fehlern» versammeln.² Sie zeigen Berührungen, bringen den Körper in digitalen Prozessen ins Spiel, Haptik und Optik zusammen und markieren Machtverhältnisse in der Organisation von Arbeit. Google besetzt die Macht über die Autorisierungsketten ebenso wie es die Zugänglichkeit allen Wissens für alle im Programm hat. Google ist allerdings ein globaler Konzern und keine politische Weltöffentlichkeit, die über dieses Programm verfügt. Und so bildet sich auch die globale kapitalistische Arbeitsteilung ab.³

¹ Kenneth Goldsmith: The Artful Accidents of Google Books, in: The New Yorker, dort datiert 4.12.2013, online unter www.newyorker.com/books/page-turner/the-artful-accidents-of-google-books, gesehen am 20.7.16.

² Benjamin Shaykin benutzt die Bilder im Sinne des *fair use* und versteht das Ergebnis einer Auswahl und Bearbeitung von gefundenen Materialien als eine eigenständige Arbeit. Die zwölf Booklets wurden zusammengefasst in einem einzigen Printing-on-demand-Band. Shaykin hat der ZfM seine hochaufgelösten Bilder zur Verfügung gestellt. Vielen Dank an Annika Haas für die vorliegende Bildauswahl.

³ Eine längere Kommentierung der Arbeit und ihrer Rezeption findet sich online unter www.zfmediennwissenschaft.de/online.

occasionally. The exact number of borrowers using a library within the year of report, or at the date of report, is the only circumstance of any interest worth recording. To note, year after year, the total registration of borrowers, in such a way as to convey to the careless or ignorant reader the impression that more than half the population are users of the libraries may be very ingenious, but it is very misleading.

460. The classification of most public libraries varies so much that nothing of a definite character can be extracted from it. Certainly comparisons can never be fairly made while one librarian classes his periodicals as science, useful arts, etc., and another lumps his together as miscellaneous. Then some librarians carefully separate Juvenile from Fiction issues, with the idea of reducing their Fiction percentages. Indeed, the anomalies and divergences are so great in every department of library statistics that it is impossible to reduce them to anything like a common basis. Luckily the day seems to have passed when librarians issued comparative tables of issues, etc., with the design of showing how much more work a certain library did in a year than any of the libraries with which it was compared. It may be safely assumed that where very elaborate statistical tables are published, giving in minute detail every little point connected with a library and its branches, the work of such a library is probably of a kind which will not bear very close scrutiny. The fact of the matter is, nobody save the librarian-compiler himself cares a snuff about detailed statistics of this kind. All that the general public or committees require is the total operations in every department, and the state of the stock, (see Section 66.)

461. The statistics most in use are those which show monthly and yearly the operations of the library with regard to stock and issues. Monthly and some quarterly returns are sent to the local newspapers in many cases, which means a stimulating interest in the library, and a monthly or fortnightly statistics are generally prepared for the information of committees. The statistics prepared for the use of reports are generally far too elaborate, and show month by month and class by class in



THE TRYSTING ROCK.

through the North
with Mr Alston.
of beauty and lov-
an intimate friend
posed, had been
Laura. Circums-
tons returned ho-
mercifully upon her
ence to the strange
her agitation at all
all the incidents
assurance, that his
Achilles. Charle-
to all the arts and
more, than to see
feathery shafts, m-
who has affected a
inplacable little
Charles was in
heart of real kind
was required." H-
ness is the best hy-
from an exuberant
sophic indifference
inary trouble. He
Is it then a wonde-
own sex, and a un-
tion—among his fair
character, were add-

At Saratoga springs she had first met
She was there, as at home, the acknowledged queen
and among her conquests was Mr. Henry Morton
of Mr. Alston. Mr. Morton, it was generally sup-
made greater inroads upon the heart and fancy of
Rattleton called him suddenly to England; the Rattle-
places where for a time Charles rallied his sister so un-
adventure, that she assumed such perfect indiffer-
er, as to make the affair completely forgotten, until
remarks of Mr. Alston that evening, had recalled
to Charles' mind, and delighted him with the
sister was vulnerable at more points than the great
Rattleton believed himself perfectly inaccessible
stratagems of the boy-god, and nothing pleased him
his companions sinking under the inflictions of his
he particularly when the victim was one of those
indifference and contempt of the puissance of the
ity.
position, much like his sister. He possessed a
ess, and springs of deep feeling when the display
always acted upon the pretty maxim, "cheerful-
man to the deity," only his conduct sprung solely
and irrepressible flow of animal spirits; a philo-
real cares, and an utter contempt for mere im-
extracted pleasure from every incident of life
that he was an oracle among associates of his
rsal favourite and confident—dangerous distin-
Companions? particularly when to this attractiv

Very different from
we compare him in a
Lucy Staughton. H
his nativity was in th
his parents held resp
they still retained, ha
fated Staughtons. Ir
through the influence
heart, that suddenly
first contracted an ir
In his wanderings he
recovery he found he
was new to him; he
out of the question
an idea not for a mom
accustomed to think
enabled him so resolu
England—he determ
early youth he gave

[illegible]

With the last line, which
 their fate home, while
 'last, long, lingering look,
 his quotation produced from all an uncom-
 "Ah! ah!" he replied, "I see you
 happy, despite circumstance or place.
 right! and as for place, why should we
 spot as another? What say you very

was proposed to use the ins
second mirror to produce a
This device, now called a "c
for eclipse photography. E
Yerkes Observatory to cons
solar work. The work was s
Carnegie Institution Observ
extension of the same princip
telescope of that institution,
on the top of a skeleton bow
directed to a laboratory benea
and efficient reflecting telesc
inch instrument designed fo
Prof. G. W. Ritchey.

At the present time both scopes are in use and have both degrees of perfection. Just which is best to use, I cannot say. The old speculum metal is carded and glass, coated with glass. The glass is much superior to the metal in reflecting more accurately, and if tarnished, it can be polished without changing the figure.

Again, much study has been made of telescope known as the catoptric optical axis of the telescope. Earth and the light of the sun are reflected by two mirrors. Such an instrument is called a catoptric telescope. The Lick Observatory, has been very successful in this. One who can sit in his chair and observe the stars, he can use his microscope. The catoptric telescope is used by the double reflection of the light by the mirrors.

Terer'

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physicist, Professor Gustav Robert Kirchhoff. He it was who sent a beam of bright sodium vapor and discovered that the Fraunhofer lines, instead of being effaced by the flame, were deepened. The same held true with iron. He also found that sodium and iron were present in the glowing atmosphere of the sun. He also discovered that the particular wave length in passing through a medium was absorbed.

[illegible]

nce presented an enormous num-
not only of the Sun, but of various

It was soon applied to the observ-
mical telescope, so that the celestial
ectly at the slit of the spectroscope.
number of prisms the dispersion of
be increased, and a longer spectral
hich otherwise closely adjacent lines
arated. But in passing through a
ere is considerable loss of light by

CHAPTER II

THE EVOLUTION OF ASTRONOMICAL
METHODS—THE RISE OF ASTRONOMICAL
AND ITS MODIFICATION

issued to
for and not in use

To gain a knowledge of the celestial bodies is the
reference shelves
my. Unable to bring a fiction may not be

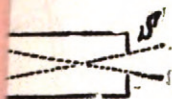
except in the rare case of general periodicals
laboratory for study are not reserved
in a study of the energy of heat rays. Strong
nd heat rays. Strong
s true a record of the or after 4 days will
le from the shelves.

ace or with the instrument called a
permanent record of the studies of the
White light is out in full, must be
which, takes in full, must be

NOT DETACH

25m]

upon the interfer-
the various minute light waves caused by a series
amounting to from ten to twenty thousand to the
led on a transparent or a reflecting surface. The



d toward source of
ender parallel rays
sm stands; L., lens
erving telescope.

is soon set to the
form of spectro-
a number of fine
transparent or a
ssess greater dis-
ng loss of light.
t grating depends
contains, so that
be as great for a

P R E S I D E N T,

REV. MR. ATLAY.

T R E A S U R E R,

MR. PIERREPONT.

L I B R A R I A N,

MR. NEWCOMB.

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III. The

