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GARDNERS' £2 2s. DINNER SERVICES.

Robinson's Patent Groats, the most esteemed and best-known preparation for making...

Vertical text on the right edge of the page, including fragments of various advertisements and notices.

ELLEN LUPTON

thinking with

theory **type** practice *entertaining economical essential*

how why

A CRITICAL GUIDE FOR DESIGNERS, WRITERS, EDITORS, & STUDENTS

A DESIGN HANDBOOK

WALNUT SUITE DRAWING-ROOM FURNITURE, a great bargain, of sterling quality, equal to new; the price, 46 guineas, half its value; consisting of a fine oval l... table, an occasional d... of, chiffonier, with plate-glass back

LIGHT-BROWN COD-LIVER OIL, prescribed by the most eminent Medical Men throughout the World as the safest, speediest, and most effectual remedy for CONSUMPTION, CHRONIC BRONCHITIS, ASTHMA, COUGHS, WHEEZING, GOUT, GENERAL DEBILITY, DISEASES

GRID

HISTORIA NATURALIS
Book, 1472; printed by
Nicolas Jenson, Venice
Collection of the Walters Art
Museum, Baltimore
During the first century of
printing, the French-born
printer Nicolas Jenson
established a printing business
in Venice, a thriving commercial
center. This book features an
elegant, unbroken text block set
in one of the first roman
typefaces. The page has no line
breaks or indents.

Plauti fabulae sunt iudicio. Sanguine canino contra toxica nihil perstantius putatur.
Vomitiones quoque hoc animal mouisse uidetur. Et alios usus ex eo mire laudatos
referemus suis locis. Nunc ad statum ordinem pergemus. Aduersus serpentium ictus
efficacia habentur sumum pecudis recens in uino decoctum illi namque. Mures disiecti
et impositi quoque natura non est spernenda praecipue in ascensu syderum ut diximus:
cum lumine lunae fibratum numero crescente atque decrecente. T radii magis nocere
muri dato potius in fico sequi dantem id animal. In homine quoque similiter ualere.
sed resolui cyatho olei potio. Mustelari duo genera. Alterum siluestre. Distat magni-
tudine. Graeci uocant ichdes. I haru sel contra aspidas dicitur efficax: cetero uentem.
Haec autem quae in domibus nostris obrant et catalos suos (ut auctor est Cicero) quon-
die trahunt: muratque sedem serpentes prosequuntur. Ex ea inueterata sale denari podus
in cyathis tribus datur percussus: aut uentemulus coriandro farrus inueteratque et in
uino potus. Et castulus mustelae ena efficax. Quaedam pudenda dicti tanta aucto-
ritate asseruatore commendantur: ut praesente fas non sit. Si quidem illa concredita
rerum aut repugnanti medicinae giuntur. Veluti omicum animalis feudissimi: et
dicti quoque falsi hedi natura contra serpentium morsus et praecipue aspidum ualere
dicitur. Item contra uenena omnia. Argumento quoque dicitur gallinae quo die id edidit no-
stertici ab aspidi. Carnes quoque caru percussa plumum prodesse. Ex his quae tradunt
humanissimum illi uere morsibus cum sanguine testudinis. Item suffitu coru abigere
sanguisugae adherentes: hausta quoque ab animalibus restinguere in potu datos. Quia
et oculos quidam is unguentis cum sale et lacte mulierum. Aure quoque cum melle
et rosaceo ammittit. Bos qui a gressis sintet in malis nascantur crematos cinere p-
mieno rosaceo insundunt auribus. Cetera quae de his traduntur uomice et quartanaru
remedia: aliorumque morborum quiaq ouo aut cera aut faba inclusos censent deosaridos
falsa nec referenda arbitror. Lethargi tamen medicinae cum argumento adhibenti
quoniam uncatu aspidum somnifera us. septenos cyatho aquae dantes puerilibus
annus quatermos. Et stranguria fistulae quoque inposuere: adeo nihil illa rerum omnium
patens sine ingentibus caulis genuit. Quae et adalgatas leuo brachio binos lana
fibrepta palatibus resistere nocturnis febribus proderunt: et dums in rosaceo panno.
Rursum aduersus facie scolopendri suffitu quoque necat. Aspides percussos corpore de som-
no necant: omnium serpentium minime sanabis. Sed et uentem earum si sanguis
attingatur recens uulnus statim sanant. Inueteratu ulcus tardius. De cetero potu
quantalibet copia non nocet. Non enim est rabifica uis: itaque occisa morsu earum
animalia obis innoxia sunt. Contra in proficendo ex his remedia nisi. M. Varrone
forem. Iccia: uix anno prodidisse aspidu ictus efficacissime curari hausta a passis
iporum urina. Basaltes quem etiam serpentes ipsi fugunt alius olfactu necantem:
qui hominem uel si aspiciat tantum dicitur interuenere: sanguinem magis miris laudis
bus celebrant coenentem pice modo et colore dilutum cinnabari clarioris fieri. Tri-
buunt et et successus pettoorum a potestantibus: a die etiam: precum: morborum
remedia beneficiorum munere. Quia uel Sanitum sanguinem appellant. Draco no-
n habet uenena. Caput eius linitu amaranum subditum propitatis oratione dicit foris/
natam domum facere prominentur. Oculis eius sueratis et cum melle tritis iunctis
non pauescere ad nocturnas imagines etiam pauidos cordis. Pingue in pelle dorcardu
neris tenuis adaligatum in lacteo censere iudiciorum uisionem. Demit spody-
lum aditus potestatum muliere. Dentes eius illigatos pellibus caprarum certum
neris imites pestilare dominos: potestantibus quoque eorabiles. Sed super omnia est copos-
tio quoque inuictis faciunt magorum mendacia. Cauda draconis et capite uillis leonis
e fronte et medulla ouis equi uictoris spuma canis unguibus adalligatis certum
conuenerit quoque certu alternatis et dorcardis. Quae arguisse non minus referri: contra
serpentes remedia demonstrasse equoniam hae morborum beneficia sunt. Draconis

GRID

A GRID BREAKS SPACE OR TIME INTO REGULAR UNITS. A grid can be simple or complex, specific or generic, tightly defined or loosely interpreted. Typographic grids are all about control. They establish a system for arranging content within the space of page, screen, or built environment. Designed in response to the internal pressures of content (text, image, data) and the outer edge or frame (page, screen, window), an effective grid is not a rigid formula but a flexible and resilient structure, a skeleton that moves in concert with the muscular mass of information.

Grids belong to the technological framework of typography, from the concrete modularity of letterpress to the ubiquitous rulers, guides, and coordinate systems of graphics applications. Although software generates illusions of smooth curves and continuous tones, every digital image or mark is constructed—ultimately—from a grid of neatly bounded blocks. The ubiquitous language of the GUI (graphical user interface) creates a gridded space in which windows overlay windows in a haphazard way.

In addition to their place in the background of design production, grids have become explicit theoretical tools. Avant-garde designers in the 1910s and 1920s exposed the mechanical grid of letterpress, bringing it to the polemical surface of the page. In Switzerland after World War II, graphic designers built a total design methodology around the typographic grid, hoping to construct with it a new and rational social order.

The grid has evolved across centuries of typographic development. For graphic designers, grids are carefully honed intellectual devices, infused with ideology and ambition, and they are the inescapable mesh that filters, at some level of resolution, nearly every system of writing and reproduction.

capillis. Inq̄ manus charte nodosaq̄ venit harundo.
Purpurcus. l. color purpuro picturatis. purpura aut
by sanguis est color. Finalibz. l. capitalibz. i. grossio lit
teris. sicut soler fieri in finitjs librop̄. i. id. p̄p̄ grossitatem
lfe possunt onera q̄ codices. Et vncialibz. l. vnciā auri

libros vñ mēbānis pur
purtis auro argentoq̄ de
scriptis: vel vncialibus vt
vulgo aiunt. sicut onera ma
gis exarata q̄ codices: dū
mō mihi meisq̄ permittat
paupes habere scdulas z
nō tūmpulcros codices q̄
emendatos. Ultraq̄ autez
editio et septuaginta iuxta
grecos: et mea iuxta hebre
os: in latinum meo laboze
trāsllata ē. Ligat vñq̄sq̄
q̄ vult z studiosū me labo
ris q̄ maluolum probet.

Incipit argumentum in
librum Job.

In terra q̄dem bitasse
iob vñ dicit i finibz. Idu
meez arabie: et erat ei
ante nomen iobabl. Et acce
pit vrorē arabissam: et ge
nuit filium quez vocauit en
nō. Erat autē ip̄e filius iob
de iareth de esau filius iob
de matre iob: ita vt sit
quintus ab abraham. Et hi
sunt reges qui regnauerūt
in edom. in q̄ et ip̄e regna
uit: sed p̄m. Ica regnauit
balach filius beoz: z nome
ciusdez ciuitatis nachaba.
Post hunc autem balach.
Post eum iob ab: qui voca
tur iob. Post iob autez cuf
ram qui erat dux et thema
nouz regione. Et post illū
regnauit adar filius beath
qui exiit i madian in cam
pō moab: et nomen ciuita
tis eius cetheauith.

Explicit argumentum.

Explicit qualicumq̄ expositio istius prologi.

Postilla Nicolai de lyra super Job incipit.

Attentiā habet in me z omnia reddā nōi Marbet
p̄ vñq̄. Quis verbū. postro strerūā serui ad dñm
tū p̄r accipi ecōuerso: vt sit vbi dei ad sanctuz
iob seruū suū. q̄. p̄r cōtentionē fidelū ad deū tū
q̄ membroz: ad caput suū. q̄ dicit de vno p̄r intellit d̄ ad
tero z ecōuerso. sicut dicit. it. ois dixit. saule saule q̄ me p̄
sequeris: ita q̄ p̄secutionē fidelū dixit suū: z ecōuerso pau
lus ap̄s ad Gal. ij. dixit d̄. hūmo p̄ncipis saj cruci passionē
sū capitis suū dicitō p̄ passionē z imitationē. Sic iḡl vt
bū passūm p̄ncipiter potest accipi: vt sit verbus dei ad
sanctū iob sibi p̄ fidē in corpore. in q̄ quidē verbo duo mo
tū in q̄bus p̄cessit in vñq̄bz z materia p̄sentit. vñq̄ est
sancti iob stabilitas in adterseccō dicit. P̄sententiā habe
scundū ē dei liberalitas in p̄mis reddēdā: cui d̄. Et ois
reddā tibi. vñ d̄. j. vñ. ca. Dñs autē b̄ dicit nouissimū iob
magis q̄ p̄ncipio q̄. z de vnoq̄q̄ s̄toz p̄r accipi illud. Et
dicit. j. ca. Esq̄ ip̄s sustinebit panēs z postea reddēdo iob
cūditatis. q̄s autē sustinēdā patēret ē vñq̄ ad terminū dñi
nō b̄ placet q̄d fecit iob. vt parit̄ ex decursu libri z secūda
ē reditio locūditatis. q̄ de vñq̄ b̄ p̄ncipit̄ p̄nt bona ter
rena. z in futuro sibi retribuūt celestia. de p̄ autē. de patē
tia iob in aduerso agit in b̄ libro a p̄ncipio vñq̄ ad vñmū
ca. excludit. de sebo. s. de vñna remuneratione agit vñ. ca.
sic magis videb̄ inferi in liba d̄uisione dño concedēte.
Dicit autē vñq̄ d̄. d̄. am? ad litterā exponēdā vno sunt p̄
nitēdā. p̄mū ē vñq̄ illud q̄ in hoc libro ē tractatū sunt
parabola vñ res gesta. Ad q̄ dicitur aliq̄ inde q̄ ē para
bola: z q̄ moyses scripsit libz istū: vt habet in libro q̄ ap̄d
hebreos ē babababab. z ad declarandā conditionē vñmū
tis patēret ē et retribuitionē sicut hōiem noie Job multū
p̄scit flagellatū. z amicos q̄ ad p̄solandū eum venerūt
numeros ad oppositū. ad ostēdendū q̄ iniquit. z p̄ pecca
tū p̄sentis a deo merito flagellatū. s̄m q̄ iob respondēt
tandē obsecrationibz: eos subindiget. sicut auctoz libellū quē
incipit. Et iob p̄ tertas ē. ad declarandū antitēdā sacre
scripturē z et vñq̄ reserect respectu fictionū: potest p̄nter vñā
vñq̄m noie atq̄ba q̄d nomen iū greco veritate signat in
latino: z quēdā pastorē cuius nōmē p̄tendit. i. salus vñ sal
sitas in greco adiuuatē vñq̄ p̄tendit de sacre scripture hysto
rijs z poetarū fabulis. Sed b̄ dicit nō videt sacre scripturē
re p̄sonā. p̄mū. q̄ in p̄ncipio hūi vñq̄ p̄ncipit̄ eius pa
triamores: possessiones. et proles tāq̄ d̄e res gesta exp̄mēs
cōditiones z s̄r loquit̄. i. de amicis iob. Item Ecce. xij.
dicit ex p̄sona dei. S̄r fuerim treuorū istū in medio et nō
daniel: iob: istū iusticia sua liberabit aias suas. certū ē au
tē noe z danielē fuisse hoies veros in rerū natura. Et quo
p̄clud̄ i idē fuisse de iob a deo cis cōnumerato. Item Jaco.
v. Ecce beatū cam? eos q̄ sustinuerūt. sufficienti iob audē
tia. z hūe dñi vidit̄is et. ex q̄ credēdā ē iob fuisse verus
hōiē in rerū natura: sicut ip̄s verus hō passus ē in na
tura hūana secūdū aut p̄mitendū ē de inenitēte ē in na
tura. q̄ et hoc dependet intellectū hūi: s̄m q̄ plenū
intelligendū. sciendū q̄ aliq̄ antiquū p̄nt dei p̄ndentiam
negauerūt: sicut democritus z ep̄curi nēces mundi esse
factū a calu. aliq̄ vō licet vñq̄m in corruptibilia z super
ora regi diuina. p̄ndēt̄ ab h̄m excluderunt inferioza cor
ruptibilia. ex quo p̄sona d̄. j. xxi. z. ubo lotibulū eius
z circa cardines celi pambulat: nec nostra p̄siderat. aliq̄ vō
corruptibilia q̄ cūsa nature p̄sentit. dicit̄ regi diuina
p̄ndentia tū ab hoc excepit̄ actus hūanos ex libro ar
bitrio. p̄cedētes. de q̄bus d̄ nullū fuisse z b̄ inter alia mo
uebat̄ ad hoc. q̄ nō videb̄t̄ qualiter in fallibilia diuine
p̄ndentia staret cum liberi arbitrii veritibitate. Item q̄s
videbant vt frequēt̄ malos hominē p̄p̄erāt z bonos
tribularē: quod nō videbant̄ conueniēs. p̄ndēret̄ in q̄
tū persona dicit Boetius. j. de cōsolatione. loquens ad do
minū. Omnia certo hūc gubernas: hominū solos respis
actus. Sed hoc t̄mū est fidei: moribus contrariū. quia
tollit penas z p̄mia a deo. p̄ demeritis et meritis reddēdas
z p̄ pio timōe dei patit̄ z amōre. p̄pter q̄ dicit b̄ d̄. d̄.

Alte.

Scilicet.

Scilicet.

Num.

Alte.

LATIN BIBLE (LEFT)
Book page, 1497
Printed by
Anton Koberger
A two-column grid engulfs
a second set of columns.
Each page is a dense mass
incised with narrow gutters
and open spaces where
illuminated capitals would
have been added by hand.
The layout changes from
page to page.

GRID AS FRAME

Alphabetic writing, like most writing systems, is organized into columns and rows of characters. Whereas handwriting flows into connected lines, the mechanics of metal type impose a stricter order. Each letter occupies its own block, and the letters congregate in orderly rectangles. Stored in gridded cases, the characters become an archive of elements, a matrix of existing forms from which each page is composed.

Until the twentieth century, grids served as frames for fields of text. The margins of a classical book page create a pristine barrier around a flush, solid block of text. A page dominated by a solitary field of type remains today's most common book format, although that perfect rectangle is now broken with indents and line breaks, and the margins are peppered with page numbers and running heads (text indicating the book or chapter title).

In addition to the classical norm of the single-column page, various alternative layouts existed during the first centuries of printing, from the two-column grid of Gutenberg's Bible to more elaborate layouts derived from the medieval scribal tradition, where passages of scripture are surrounded by scholarly commentary. Polyglot (multilingual) books display a text in several languages simultaneously, demanding complex divisions of the surface.

Such formats permit multiple streams of text to coexist while defending the sovereignty of the page-as-frame. The philosopher Jacques Derrida has described the frame in Western art as a form that seems to be separate from the work yet is necessary for marking its difference from everyday life. A frame or pedestal elevates the work, removing it from the realm of the ordinary. The work thus depends on the frame for its status and visibility.

Typography is, by and large, an art of framing, a form designed to melt away as it yields itself to content. Designers focus much of their energy on margins, edges, and empty spaces, elements that oscillate between present and absent, visible and invisible. With print's ascent, margins became the user interface of the book, providing space for page numbers, running heads, commentary, notes, and ornaments.

The frame...disappears, buries itself, effaces itself, melts away at the moment it deploys its greatest energy. The frame is in no way a background...but neither is its thickness as margin a figure. Or at least it is a figure that comes away of its own accord. Jacques Derrida, 1987

CHAPITRE SECOND.

I. La colonne de Pompée. II. On ne convient pas sur ses mesures. III. Colonne d'Alexandre Severe.

LA fameuse colonne de Pompée est auprès d'Alexandrie : on ne fait pour quelle raison elle porte le nom de Pompée ; je croirois volontiers que c'est par quelque erreur populaire. Plusieurs voyageurs en ont parlé, tous conviennent qu'elle est d'une grandeur énorme. Deux des plus modernes en ont donné le dessin & les mesures ; mais ils diffèrent considérablement entre eux sur la hauteur du piedestal, de la colonne & du chapiteau : cependant tous deux disent qu'ils l'ont mesurée.

„ Pour ce qui est de la colonne, dit l'un, (c'est Corneille Brun p. 241.)
 „ elle est sur un piedestal quarté, haut de sept ou huit pieds & large de qua-
 „ torze à chacune de ses faces. Ce piedestal est posé sur une base carrée,
 „ haute d'environ un demi pied, & large de vingt, faite de plusieurs pierres
 „ maçonnées ensemble. Le corps de la colonne même n'est que d'une seule
 „ pierre, que quelques-uns croient être de granit ; d'autres disent que c'est
 „ une espèce de pâte ou de ciment, qui avec le tems a pris la forme de pierre.
 „ Pour moi je croi que c'est une vraie pierre de taille, du moins autant que
 „ j'ai pu le reconnoître par l'épreuve que j'en ai faite. Et si cela est vrai, com-
 „ me personne presque n'en doute, il y a sujet de s'étonner comment on a
 „ pu dresser une pierre de cette grandeur : car après l'avoir mesurée, j'ai trou-
 „ vé qu'elle a quatre-vingt-dix pieds de haut, & que sa grosseur est telle, que
 „ six hommes peuvent à peine l'embrasser ; ce qui revient, selon la mesure
 „ que j'en ai prise, à trente-huit pieds. Au haut il y a un beau chapiteau pro-
 „ portionné à la grosseur de la colonne, mais fait d'une pièce séparée.

L'autre, qui est M. Paul Lucas, en parle en cette manière : „ Un de mes
 „ premiers soins fut d'aller examiner la colonne de Pompée, qui est près d'A-
 „ lexandrie du côté du couchant, & je croi qu'il seroit difficile de rien ajou-

CAPUT SECUNDUM.

I. Columna Pompeii. II. De ejus mensuris non conveniunt inter eos qui hęc loca allerunt. III. Columna Alexandri Severi.

Celeberrima est illa Pompeii columna prope Alexandriam erigitur. Cui Pompeii columnam vocent, ignoratur. Libenter crederem hujusmodi denominationem ex populari errore mansisse. Ex peregrinationibus nostris enotatis magnitudinis esse narravi. Dum recentiores et figuram & mensuras desiderant, ad inter illos non convenit de stylobate, columnæ & capitelli magnitudine. Attamen arithmetici se mensuras excepisse.

Quantum ad columnam, inquit Corneilius Brunus p. 241, ea inscripta est quadrato stylobate ne cujus altitudo est licet octavo pedum, latera vero singulis in facibus sunt quadrato pedum. Stylobates autem ille quadrato basi in-

„ ponitur, altitudine dimidii pedis, ex lapidibus
 „ plurimis structa basis est, longitudinis circumscribitur
 „ equaque viginti pedes habens. Columna ex uno
 „ lapide est, plurimi putant ex marmore parvo
 „ esse, alii vero quasi carrenum & confectam
 „ mententiam esse, que procedente tempore, lestrata
 „ lapidis sumerit. Puto ego esse lapidem quantum
 „ saltem experiri licuit. Quod si ita sit, id autem
 „ nemo hodie in ducibus vocat; plane miramur
 „ quo pacto tantum lapidem erigere poterant.
 „ Nam cum mensuram dassetis, nonnulla pedes
 „ altitudinis habere comperi, tantaque ejus est spi-
 „ rando, ut sex viri simul vix illum amplecti possent,
 „ sicut, id quod ad menturam a me sumitur redu-
 „ citur, circuitus enim ejus est triginta & octo
 „ pedum. In columnæ capitellum est ex uno lapide
 „ levatur columnæ proportionem.

Alius, nempe Paulus Lucas, columnam sic describit, „ Ubi primam partem columnam Pompeii adit, que prope Alexandriam est vestis occidentem. Difficile autem est ejus mensuras

SUPPLEMENT AU LIVRE DE L'ANTIQUITÉ (LEFT) Book, Paris, 1724

The two-column grid devised for this bilingual book provides a large, single-column block for the French text, with two columns below for the Latin. The quotation marks serve as a frame along the left edge of the quoted passage.

THE ILLUSTRATED LONDON NEWS (RIGHT) Newspaper page, 1861

Early newspaper advertisements were designed by the paper's printer, not supplied by the client or an advertising agency. This dense field of entries occupies a four-column grid, with ruled lines to create order.

HOSPITALS FOR CONSUMPTION AND
...of the ... London ...

LONDON HOMOEOPATHIC HOSPITAL
...of the ... London ...

ROYAL ANTIQUARIAN SOCIETY
...of the ... London ...

THE PALACE HOTEL
...of the ... London ...

NATAL, South Africa
...of the ... London ...

EDUCATION - RICHMOND HILL
...of the ... London ...

RIDING LESIONS DURING THE HOLIDAYS
...of the ... London ...

THE IRON BEIDGE ASSOCIATION
...of the ... London ...

CHEMISTRY - FIBRES, TOBACCS, MACHINES
...of the ... London ...

SEWING MACHINES
...of the ... London ...

W. P. THOMAS AND CO'S PATENT
...of the ... London ...

SEWING AND HEMBROIDERING
...of the ... London ...

HAIR JEWELLERY - GEORGE HOOPER
...of the ... London ...

MOHNING JEWELLERY - A Large and
...of the ... London ...

WALLERS' PROTECTIVE HAIR FINISH
...of the ... London ...

DEEPER YOU HAVE YOUR LIVERIES
...of the ... London ...

LADIES' GORM BIRN'S - A beautiful
...of the ... London ...

NOVELTIES AND EMBROIDERIES
...of the ... London ...

DEPT'S DIMENSIONAL WATCHES
...of the ... London ...

PLATE - A. R. SAVOYI and BOSS
...of the ... London ...

CARMINES 22 50, DENNOR SERVICES
...of the ... London ...

CARMINES LAMP is the BEST - The
...of the ... London ...

OVERSEAS - H. G. GARDNER
...of the ... London ...

WILLIAM R. HUGHES'S GENERAL
...of the ... London ...

J. MAPLE and CO'S FIRST-CLASS
...of the ... London ...

DINING and DRAWING ROOM
...of the ... London ...

TURKEY CARPETS
...of the ... London ...

J. MAPLE and CO for CARPETS and
...of the ... London ...

CLAUDE - SMITH'S SPRING MATTRESS
...of the ... London ...

WALNUT BATH DRAWING ROOM
...of the ... London ...

MASSER R. GREEN and CO, 24, North
...of the ... London ...

FURNITURE
...of the ... London ...

FRAL and SON'S BIRKENHEAD QUILTS
...of the ... London ...

LONDON CARPET WAREHOUSE
...of the ... London ...

WASHING, WRINGING, MANGLES -
...of the ... London ...

CHUBB'S LOCKS and FIREPROOF PAPERS
...of the ... London ...

THE IMPERIAL WINE COMPANY, 314
...of the ... London ...

PAUL-IRVIN - This Pure PAIR BRANDY
...of the ... London ...

ROBINSON'S PATENT BARLEY
...of the ... London ...

OSWEGO PREPARED CORN
...of the ... London ...

HOMOEOPATHIC COCOA
...of the ... London ...

WOTHERPOON'S VIOLETTA
...of the ... London ...

GLENFIED
...of the ... London ...

JADIE'S PERMANENT MAKING IRON
...of the ... London ...

ASTHMA SPECIFIC - BATHIA PATENT
...of the ... London ...

DR. HORNBY'S FLUID MAGNESIA
...of the ... London ...

SIR J. MURRAY'S PATENT FLUID
...of the ... London ...

LIONT-HROWN COD-LIVER OIL
...of the ... London ...

THE GREATEST NOVELTY OF THE AGE
...of the ... London ...

STOODING OF THE SHOULDER has been
...of the ... London ...

CORNS - YONGE'S IMPROVED
...of the ... London ...

GLENFIED PATENT STARCH
...of the ... London ...

WASHING, WRINGING, MANGLES -
...of the ... London ...

WASHING, WRINGING, MANGLES -
...of the ... London ...

WASHING, WRINGING, MANGLES -
...of the ... London ...

HOUSHOLD LINEN DEPARTMENT
...of the ... London ...

GENERAL MOURNING FURS - Ashtaken
...of the ... London ...

GENERAL MOURNING
...of the ... London ...

BLACK MOIRÉ ANTIQUES - MORRIS
...of the ... London ...

LADIES' BLACK PERFECTIONS
...of the ... London ...

NEW DRAPERS in FINEST PATTERNING
...of the ... London ...

TO THE LADIES - NEW HATS
...of the ... London ...

ADAM'S PAIR'S BONNETS - Adm.
...of the ... London ...

LADIES WATERPROOF TWEED COATS
...of the ... London ...

JAMES SPRENGER'S
...of the ... London ...

WIDOW'S CAPS - The Ladies of the
...of the ... London ...

BABIES' BIRKENHEADS
...of the ... London ...

CHRISTMAS BONES for PRESENTS
...of the ... London ...

MARRIAGE SUIT FITS
...of the ... London ...

LADIES' RIDING HABITS
...of the ... London ...

BIRKENHEAD PATENT COATS - These
...of the ... London ...

THE GREATEST NOVELTY OF THE AGE
...of the ... London ...

CANADA OUTFITS - Coloured Flannel
...of the ... London ...

WASHING, WRINGING, MANGLES -
...of the ... London ...

DIVIDING SPACE

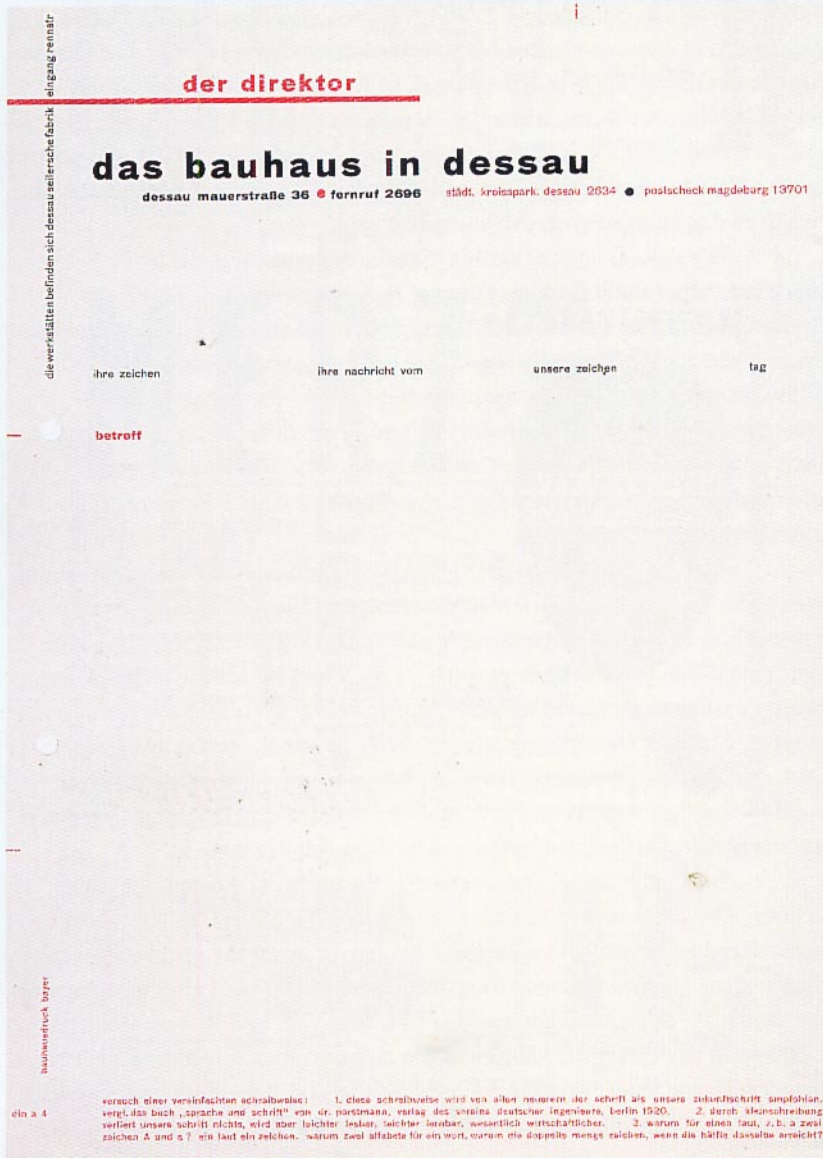
In the nineteenth century, the multi-columned, multimedia pages of newspapers and magazines challenged the supremacy of the book and its insular edge, making way for new typologies of the grid. By questioning the protective function of the frame, modern artists and designers unleashed the grid as a flexible, critical, and systematic tool. Avant-garde artists and poets attacked the barriers between art and everyday life, creating new objects and practices that merged with urban experience.

The assault against print's traditional syntax was led by F. T. Marinetti, who established the Futurist movement in 1909. Marinetti devised poems that combined different styles and sizes of type and allowed lines of text to span multiple rows. Marinetti's ingenious manipulations of the printing process work against—but inside—the constraints of letterpress, exposing the technological grid even while trying to overturn it. Dada artists and poets performed similar typographic experiments, using letterpress printing as well as collage, montage, and various forms of photo-mechanical reproduction.

Constructivism, which originated in the Soviet Union at the end of the 1910s, built on Futurist and Dada typography, bringing a more rational approach to the attack on typographic tradition. El Lissitzky employed the elements of the print shop to emphasize the mechanics of letterpress, using printer's rules to make the technological matrix actively and physically present. Constructivism used rules to divide space, throwing its symmetry into a new kind of balance. The page was no longer a fixed, hierarchical window through which content might be viewed, but an expanse that could be mapped and articulated, a space extending beyond the edge.

For Dutch artists and designers, the grid was a gateway to the infinite. The paintings of Piet Mondrian, their abstract surfaces crossed by vertical and horizontal lines, suggest the expansion of the grid beyond the limits of the canvas. Theo van Doesburg, Piet Zwart, and other members of the Dutch De Stijl group applied this idea to design and typography. Converting the curves and angles of the alphabet into perpendicular systems, they forced the letter through the mesh of the grid. Like the Constructivists, they used vertical and horizontal bars to structure the surface of the page.

Typography is mostly an act of dividing a limited surface. Willi Baumeister, 1923



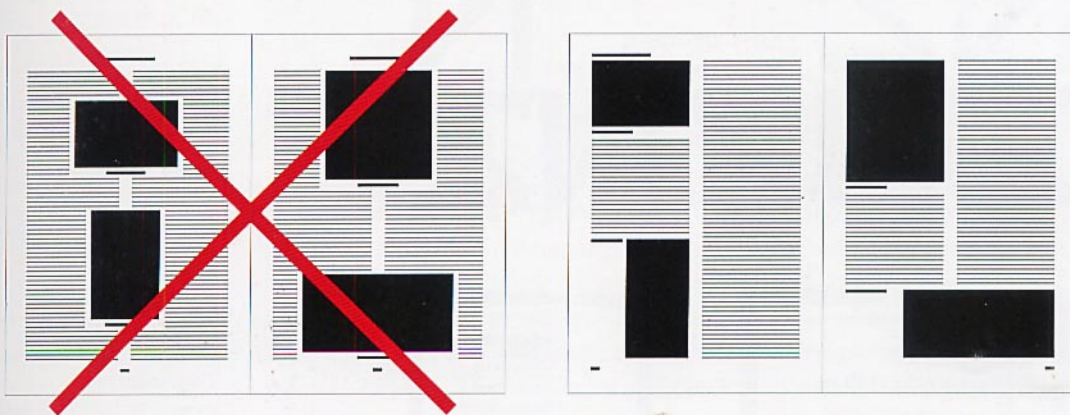
DAS BAUHAUS IN DESSAU
 Letterhead, 1924
 Designer: Herbert Bayer
 Collection of Elaine Lustig
 Cohen

Herbert Bayer's letterheads for the Bauhaus are manifestos for a new typographic order. Rather than provide a decorative frame or a centered title, Bayer treated the entire page as a surface to be divided. Points, short hatches, and lines of type indicate axes for folding the sheet and positioning text. This letterhead also promotes Bayer's idea that all letters should be lowercase, a point expounded in small print across the bottom.

The new typography not only contests the classical "framework" but also the whole principle of symmetry. Paul Renner, 1931

Jan Tschichold's book *The New Typography*, published in Germany in 1928, took ideas from Futurism, Constructivism, and De Stijl and conveyed them as practical advice for commercial printers and designers. Functionally zoned letterheads using standard paper sizes were central to Tschichold's practical application of modernism. Whereas Futurism and Dada had aggressively attacked convention, Tschichold advocated design as a means of discipline and order, and he began to theorize the grid as a modular system based on standard measures.

By describing the expansion of space in all directions, the modern grid slipped past the classical frame of the page. Similarly, modern architecture had displaced the centered facades of classical building with broken planes, modular elements, and continuous ribbons of windows.



THE NEW TYPOGRAPHY
Diagram, 1928
(redrawn)
Designer and author:
Jan Tschichold

Tschichold's diagram of good and bad magazine design advocates staggering images in relation to content instead of forcing text to wrap around blocks moored at the center of the page. Explaining this experiment, Tschichold wrote that his redesigned pages would be even more effective if the photographic halftones (called "blocks") were produced in fixed rather than arbitrary sizes.

I have intentionally shown blocks of different and "accidental" widths, since this is what usually has to be contended with (although in the future, with standard block-sizes, it will happen less often).

Jan Tschichold, 1928

GRID AS PROGRAM

Classics of Swiss design theory include Josef Müller-Brockmann, *Grid Systems in Graphic Design* (Switzerland: Ram Publications, 1996; first published in 1961) and *The Graphic Artist and his Design Problems* (Switzerland: Arthur Niggli Ltd., 1961); and Karl Gerstner, *Designing Programmes* (Switzerland: Arthur Niggli, 1964). See also Emil Ruder, *Typography* (New York: Hastings House, 1981, first published in 1967).

During the post-World War II period, graphic designers in Switzerland honed ideas from the New Typography into a total design methodology. It was at this time that the term “grid” (*raster*) became commonly applied to page layout. Max Bill, Karl Gerstner, Josef Müller-Brockmann, Emil Ruder, and others were practitioners and theorists of a new rationalism that aimed to catalyze an honest and democratic society. Rejecting the artistic clichés of self expression and raw intuition, they aspired to what Ruder called “a cool and fascinating beauty.”

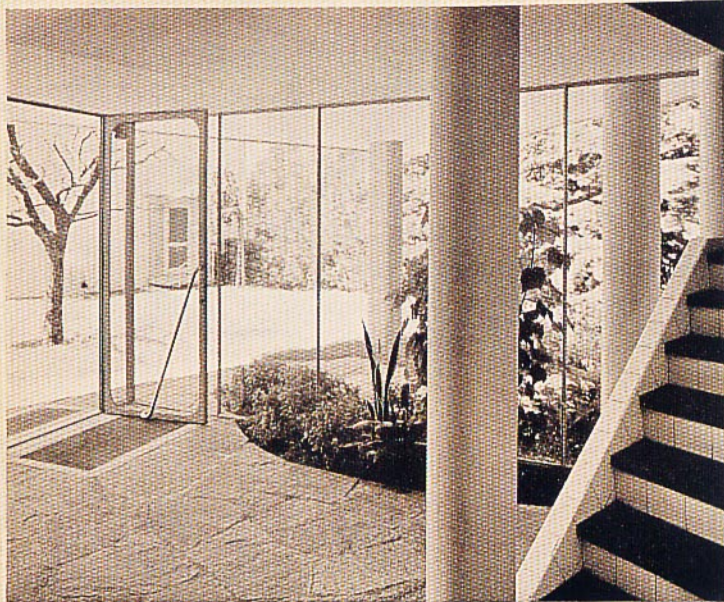
Karl Gerstner’s book *Designing Programmes* (1964) is a manifesto for systems-oriented design. Gerstner defined a design “programme” as a set of rules for constructing a range of visual solutions. Connecting his methodology with the new field of computer programming, Gerstner presented examples of computer-generated patterns that were made by mathematically describing visual elements and combining them according to simple rules.

Expanding on the pioneering ideas of Bayer, Tschichold, Renner, and other designers of the avant garde, the Swiss rationalists rejected the centuries-old model of the page-as-frame in favor of a continuous architectural space. Whereas a traditional book would have placed captions, commentary, and folios within a protective margin, the rationalist grid cut the page into multiple columns, each bearing equal weight within the whole, suggesting an indefinite progression outward. Pictures were cropped to fit the modules of the grid, yielding shapes of unusual proportion. Constructing ever more elaborate grids, the Swiss designers used the confines of a repeated structure to generate variation and surprise. Such grids could be activated in numerous ways within a single publication, always referring back to the root structure.

This approach, which quickly became known as “Swiss design,” found adherents (and detractors) around the world. Many American designers dismissed Swiss rationalism as irrelevant to a society driven by pop culture and hungry for rapidly transforming styles. Programmatic thinking is now being revived, however, as designers today confront large-scale information projects. The need is greater than ever for flexible “programs” accommodating dynamic bodies of content.

The typographic grid is a proportional regulator for composition, tables, pictures, etc.... The difficulty is: to find the balance, the maximum of conformity to a rule with the maximum of freedom. Or: the maximum of constants with the greatest possible variability.

Karl Gerstner, 1961



14. Eingangshalle

2 Mehrfamilienhäuser im Doldertal Zürich

Räumliche Organisation

Situation: Die beiden Mehrfamilienhäuser liegen im Villenviertel, auf halber Höhe des westwärts abfallenden „Zürichberg“ [4]. Längs dem Grundstück verläuft auf der Nordwestseite eine öffentliche Parkanlage mit einem dichten Baumbestand. Die Zufahrtsstrasse genannt „Doldertal“ hat ein Gefälle von 10% und ist nicht durchgehend. Die Schräglage der Blöcke zur Baulinie ergibt eine verbesserte Südlage für die Wohnräume, eine Abdehnung der Schlafräume von der Strasse und eine lockere Gesamtanlage, ohne gegenüberliegende Schmalstellen. [5] (Siehe auch baugesetzliche Sonderheiten.)
Raumprogramm: Es ist versucht worden, die Vorzüge des Einfamilienhauses soweit als möglich auf die Eigenwohnung zu übertragen (freies, schallreduziertes Wohnen, Einbeziehung der Landschaft, grosse Wohlerlassen, weitgehende innere Ausstattung). Im Untergeschoss: gedeckter Vorplatz mit zwei Garagen, Eingangshalle mit Treppenaufgang, Abstellräume, Vorratskeller, Waschküche und Trockenraum, die beiden letzteren nur im unteren Haus. Unter der Eingangshalle mit besonderem Eingang [8] liegen Heizung und Kohlenraum. Im Parterre: eine vierzimmerige Wohnung mit Mädchenzimmer und ein Einzimmer-Apartment mit direktem Eingang vom Garten. Im Obergeschoss: eine 5/0-Zimmerwohnung mit Mädchenzimmer. Zu dieser

2 Mehrfamilienhäuser im Doldertal Zürich

Wohnung gehört noch ein auf Höhe Dachgeschoss liegendes Sonnenbad [12] (16), durch eine Eisentreppe von der Terrasse erreichbar. In beiden Wohnungen liegen Treppe und Küche ausserhalb der eigentlichen Wohnfläche (Schallsolotat); dennoch hat die Küche eine betriebstechnisch zentrale Lage (Verbindung mit der Terrasse, je eine Durchreiche nach Essplatz und Treppenhaus). Im Dachgeschoss ein grosses und ein kleines Atelier, Abstellräume im Treppenbau.

Technische Durchbildung

(vgl. Technische Details)

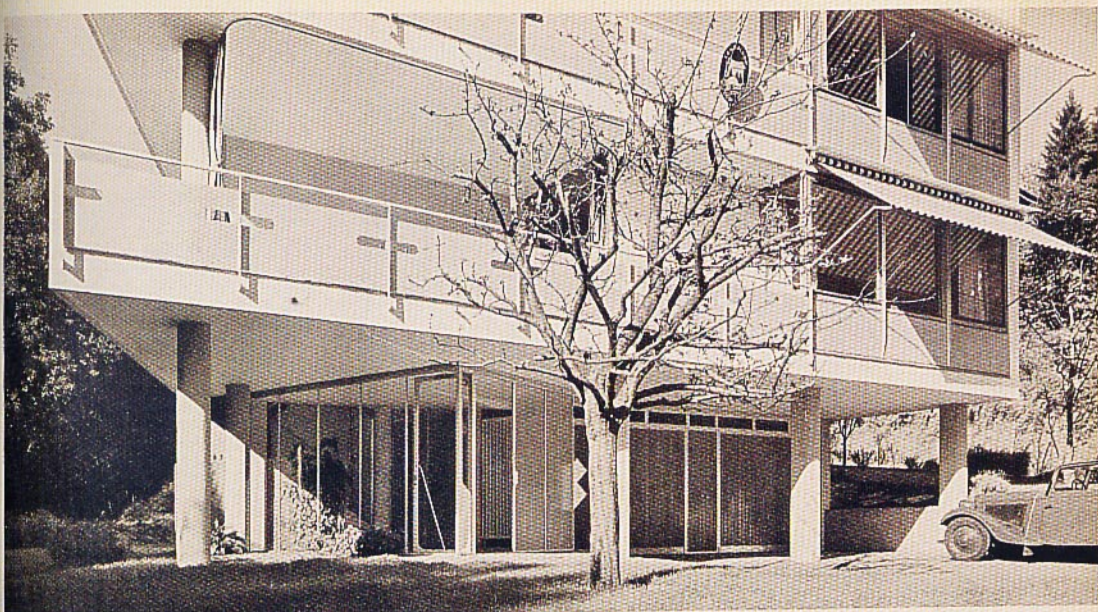
Konstruktionsprinzip: Eisenskelet, Eisenbeton-Zwischendecken, Fassadenmauerung mit gebrannten Hohlsteinen, hintermauert mit Gipsdämmen. Die Fassaden sind konstruktiv von den Zwischendecken getrennt. Das zurückgesetzte Dachgeschoss besteht aus Holz mit einer äusseren Eierkorn-Heildung. Zur Fertigstellung des Aussen sind ausschliesslich Materialien mit unterhaltsloser Oberfläche verwendet worden: Edelputz (wulstiger Zement, Natursteinputz), ohne Farbgebung; Eternit für Rolllädenkasten, Brüstungen, Sonnen-Storen-Vordach und Dachgeschoßüberbau; lackiertes Holz für Rollläden und Gorgentiere; Kupfer für sämtliche Spritzgussarbeiten; feuerverzinktes Eisen für Fensterbleche, Geländer. Getrichen sind lediglich die Fenster und gewisse Metallteile aus architektonischen Gründen. Fensterflächen: Horizontal-Schiebefenster in Föhrenholz in den Woh-

52



15. Treppe

nungen. Grösse des Normalfensters 210 x 120 cm, zusammengebaut mit dem Rolllädenkasten; fester Teil einwärts klappbar zum Putzputz. Die Schiebefenster des Wohnraumes sind mit der Brüstung zusammengebaut (vgl. [21], [22], [23]). Die Küchenfenster sind doppelt, die übrigen Fenster am Bau sind einfach verglast. Die Alufenster haben durchgehende 45 cm hohe Oberlichter unter der Decke mit Lüftungslappen, sowie gewisse fest verglaste Fenster mit normaler Brüstung. Verglasung: Wohnraumfenster Spiegelglas 477 mm, Atelier-Studiofenster Rohglas, Treppenhausefenster Drehtglas. Sonnenschutz: für die Wohnzimmerfenster vor die Fassade gefaltete Sonnenrollläden [21] (11), für die Schlafzimmer Rollläden. Heizung: Jedes Haus hat seine eigene Warmwasserheizung für Kleinkaliberkessel, die gleichzeitig für die Warmwasserbereitung benutzt wird. Pro Haus ein Warmwasserboiler mit 2000 Liter Inhalt.
Wohnungsausstattung: Die beiden Häuser sind für anspruchsvolle Mieter, jedoch ohne Luxus ausgestattet. Die Zimmer sind dementsprechend geräumig dimensioniert (Wohnraum 35,00 m², Terrasse 20,00 m²). Die Skelettkonstruktion erlaubt jederzeit eine den Wünschen der Mieter entsprechende Variabilität des Grundrisses. Im Wohnraum befindet sich ein offener Kamin und ein breites Fensterbrett für Blumen. Eingebaute Schränke im Korridor, in den Zimmern, kleiner Abstellraum. Fussböden: In den Wohnungen Holzbohlen (Esche im Wohnraum, Eiche in den übrigen Räumen und im Korridor).



16. Teilansicht von Südwest mit Eingang und Garagen

In den Küchen sind Steinzeugplatten, verschwammschale Linoleum; in den Bädern Terrazzo, schwarz, mit weissen Karmarksteinen. Die Treppentritte und Podeste bestehen ebenfalls aus Terrazzo (Tritte fertige Platten, Podeste im Bau gegossen und geschliffen). Die Stufen der Tritte und die Sockel sind mit weissen, hartglänzenden Platten belegt. Wandbehandlung: Gipsverputz in sämtlichen Räumen, Kalk- oder Leinwand gestrichen, mit Ausnahme derselben in den Wohnräumen und Gängen (abgedeckt mit Grundpapier und Leinwandstrich, oder Ölmalerei auf Stoffbespannung). In den Ateliers Verkleidung der Wände in Holzkonstruktion mit Sperrplatten (gewachsene finnische Birke).

In Treppenhäusern: Aussenwand stoffbespannt, mit Ölmalerei gestrichen, innere Brüstungswand gestrichelt und Hochglanz mit Ripolin gestrichen; der Handlauf in Eisen, im Feuer wetter emalliert. Fenstersimsen: Diese bestehen in allen Räumen der Wohnungen aus perforierten, 3 cm starken Schieferplatten. Ausstattung der Bäder und Küchen: Grösse des Bades in den Wohnungen 6 m² mit Badwanne, Bidet und zwei Lavabos, W.C. Der Spiegel über den Lavabos ist gegen die falsche Fälschung geschützt (Licht auf das Gesicht). Die Küchen sind vollständig ausgestattet, die Durchreiche ins Treppenhäuser und in den Wohn-Essraum, zweifelliger Aufwaschtisch in Chrom-

nickel-Stahlblech, Kühtischchen, Arbeitsflächen in Ahornholz. Elektrische Beleuchtung: Diese ist in allen Wohn- und Schlafräumen, Gängen, Küchen, Ateliers eine indirekte.

Ökonomische Angaben

Die beiden Häuser sind Privatbesitz von Herrn Dr. S. Gleidon, Zentralsektor der Internationalen Kongresse für Neues Bauen. Die Baukosten inkl. Architektenhonorar betragen: 43,5 Maurerstunden pro m² ungebauten Raumes bei total 1985 m³ pro Haus, offene Halle im Parterre zur Hälfte ungebaut. Die durchschnittlichen Baukosten für normale Wohnbauten in Zürich, ohne besonderen Ausbau, betragen 38 bis 40 Maurerstunden pro m² ungebauten Raumes. (1 Mkld.—Fr. 1.72 1935/36)

Ästhetischer Aufbau

Die Schrägstellung der Blöcke ergibt einerseits eine lockere Gesamtanlage und erhöht andererseits deren plastische Selbständigkeit. Der zweigeschossige Charakter der Häuser (Bauweiseimung der betreffenden Zone) wird durch das Lösen des Baukörpers vom Terrain und durch das Zurücksetzen des Dachgeschosses gewährt. Dieser Eindruck wird verstärkt durch die vom Hauptbau abweichende Konstruktion des Dachgeschosses (Holz und Eternit). In der Südfassade ist durch Weglassen der gemauerten Brüstungen ein äusseres Zusam-

menfassen von Wohnraum und Wohnterrasse erreicht. In der räumlichen Gliederung treten vielfach schräg verlaufende Wände auf, wodurch eine gewisse Auflockerung der Rhythmisiertheit erreicht wird. Die Eingangshalle ganz in Glas hat eine freie Form und lässt den Durchblick in den rückwärtsliegenden Park frei.

Der Garten reicht über die weitgeführten Gartenplatten (Granit) bis zum Treppenaufgang. In den Wohnräumen und Ateliers reichen die Fenster bis zur Decke, in den Schlafräumen ist ein Sturz von 40 cm. In der Dimensionierung von Bauteilen und Ausstattungsdetails ist eine dem beiräufenden Material entsprechende Sparsamkeit sowie eine organische und gepflegte Formgebung beachtet worden.

Materialbehandlung und Farbgebung: Aussen wirken die Baustoffe in ihrer natürlichen Struktur und Farbe: Edelputz (weisser Zement mit roten, schwarzen und glimmernden Steinsplittern), Eternit, lackiertes Holz, Eisenblech feuerverzinkt, mit Aluminiumfarbe gestrichen. Farbe an folgenden Stellen: Fenesterrahmen dunkelgrau, Geländerrohre, Abdeckbleche weissgrau, die sichtbaren Kellerräume und Säulen sind normal verputzt und hellgrau gestrichen. Im Internen: Die Wände im Treppenhäuser, in den Gängen und Nebenräumen sind weissgrau, ebenso das gesamte Holzwerk, Radiatoren, Leuchten. Die Wände der Wohn- und Schlafräume sind hell getönt (beige, rosa, hellblau, grau). Besondere farbige Akzente kommen weder aussen noch innen vor; es ist damit der wechselnden Bewohnung des Mietshauses Rechnung getragen worden.

DIE NEUE ARCHITEKTUR/
THE NEW ARCHITECTURE
Book, 1940
Designer: Max Bill
Author: Max Roth
Photograph: Dan Meyers

Designed by Max Bill in 1940, this book is considered the first use of a systematic, modular grid. Each image is sized to fit the column structure—as Jan Tschichold had predicted in 1928—filling one, two, or three zones. Acknowledging the originality of its layout, the author credits Bill as “the creator of the typographical structure of the book.”

Der New-York-Times-Prospekt zeigt die Lösung einer komplexen Aufgabe; zeigt, wie eine Idee, ein Text und die typographische Darstellung über mehrere Phasen hinweg integriert werden. Darüber hinaus kann sich die Aufgabe stellen, Prospekte wie diesen wiederum mit anderen Werbemitteln und Drucksachen zu integrieren. Denn heute brauchen Firmen mehr und mehr nicht bloss hier einen Prospekt, da ein Plakat, dort Inserate usw. Heute braucht eine Firma etwas anderes: Eine Physiognomie, ein optisches Gesicht.

Die Beispiele dieser Seiten geben die Physiognomie der boîte à musique, eines Grammophongeschäfts in Basel, wieder. Die boîte à musique hat ein Signet und einen firmeneigenen Stil – und doch wiederum, wenn man unter dem einen ein starres, nachträglich überall dazugesetztes Zeichen und unter dem anderen ein bloss ästhetisches Prinzip versteht. Vielmehr: Die einmal definitiv festgelegten, aber jeweils den verschiedenen Funktionen und Proportionen angepassten Elemente selber bilden das Signum und den Stil in einem.

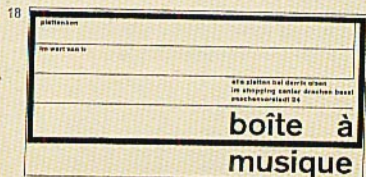
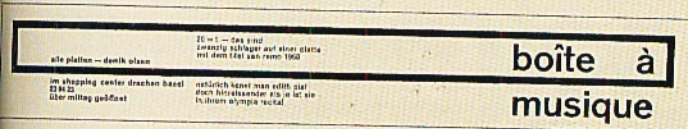
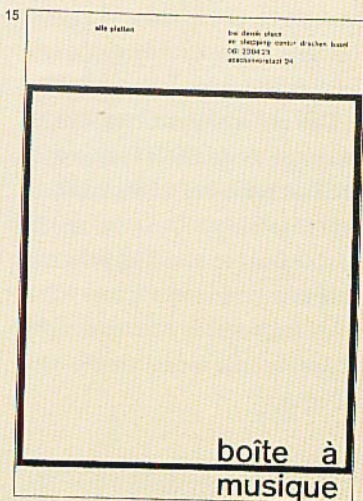
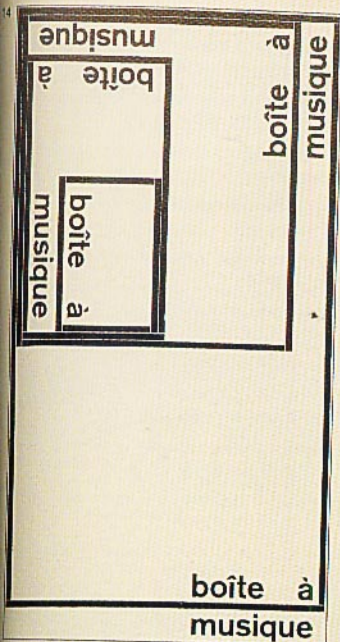
Abbildung 13 zeigt die Struktur. Fixiert sind die Elemente Schrift und Rahmen; ferner die Verbindung von beiden und das Prinzip der Variabilität: der Rahmen kann, ausgehend von der Ecke unten rechts, nach oben sowie nach links beliebig um ganze Einheiten vergrössert werden. Einen in sich proportional hervorragenden Fall gibt es nicht. Es gibt nur wertgleiche Varianten; und hervorragend ist die Variante dann, wenn sie der jeweiligen Aufgabe am besten angemessen ist.

Abbildung 14 zeigt die Neujahrskarte mit gleichzeitig verschieden proportionierten Varianten: 15 den Briefbogen, wo das Signum dem (gegebenen) Din A4 Format angepasst ist; 16 und 17 Inserate, wieder entsprechend dem zur Verfügung stehenden Insertionsraum bemessen; 18 ein Geschenkbon.

13



boîte à
musique



PROGRAMME ENTWERFEN
(DESIGNING PROGRAMS)
Book, 1964
Designer and author:
Karl Gerstner
Publisher: Arthur Niggli
Photograph: Dan Meyers
*Karl Gerstner's book Designing
Programs is a design theory
classic whose relevance has been
renewed in the age of networked
media. Shown here is Gerstner's
identity for Boîte à Musique
(Music Box), in which a system
of elements changes in response
to its context.*

GRID AS TABLE

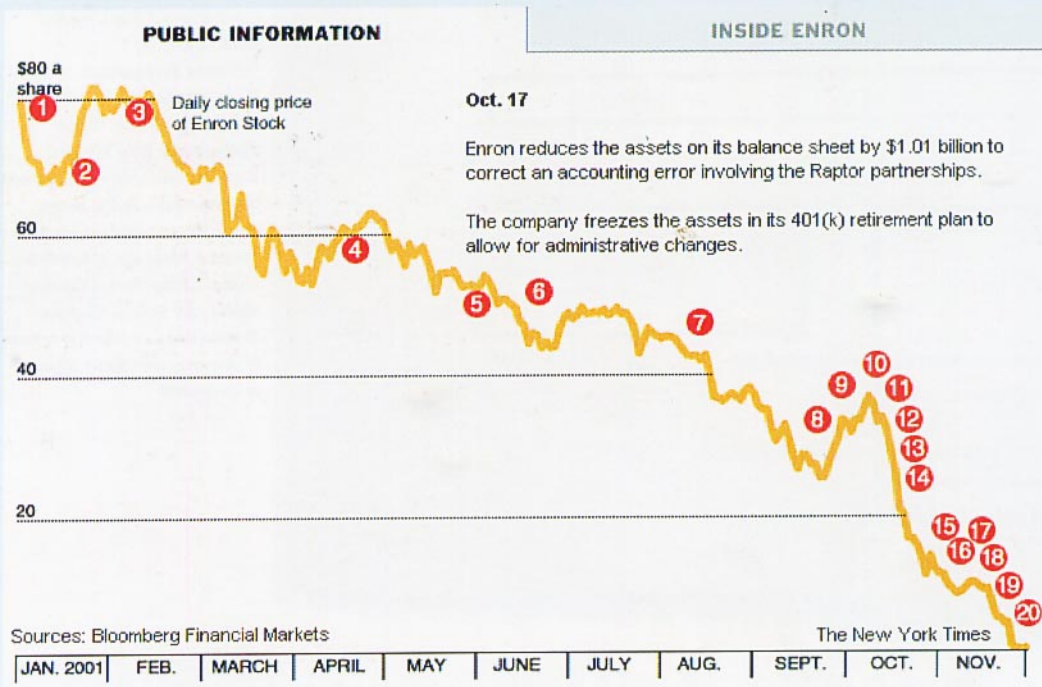
Tables and graphs are a variant of the typographic grid. A table consists of vertical columns and horizontal rows, each cell occupied by data. A graph is a line mapped along the x and y axes of a grid, each dimension representing a variable (such as time and stock value, shown below). As explained by Edward Tufte, the leading critic and theorist of information design, tables and graphs allow relationships among numbers to be perceived and rapidly compared by the eye. In tables and graphs, the grid is a cognitive tool.

Tables are a central aspect of Web design. The table feature was incorporated into HTML code in 1995 so that Web authors could present tabular data. Graphic designers, eager to give shape to the Web's wide and flacid text bodies, quickly devised unauthorized uses for the HTML table, transforming this tool for representing data into nothing more nor less than a typographic grid. Designers have used the table feature to control the placement of images and captions and to build margins, gutters, and multicolumn screens. Designers also use tables to combine multiple styles of alignment—such as flush left and flush right—within a document, and to construct elegantly numbered and bulleted lists.

COLLAPSE OF ENRON (BELOW)
Interactive information
graphic, 2002

NYTimes.com; courtesy of
The New York Times

This on-line data graphic links a timeline of events leading to the financial collapse of the Enron Corporation with a graph of the company's stock price. As the user's cursor passes over each red circled number, text appears describing an event that occurred at that time. For example, in October the company's CEO froze his employees' 401(k) retirement funds as the company's stock was plummeting.



On the aesthetics and ethics of information design, see Edward Tufte, *Envisioning Information* (Cheshire, Conn.: Graphics Press, 1990).

On designing accessible Web sites, see Patrick Lynch and Sarah Horton, *Web Style Guide: Basic Design Principles for Creating Web Sites* (New Haven: Yale University Press, 2001). See also the site www.webstyleguide.com.

By creating cells that span multiple columns and rows, designers build layout structures that bear little relation to the logically ordered fields of a data chart. A master table typically establishes areas for navigation, content, and site identity, and each region contains a smaller table—or tables—inside itself. Grids propagate inside of grids.

HTML purists reject such workarounds as spurious, even unethical, design tactics. Visually driven, illogical layout tables can cause problems for sight-impaired users, who implement various devices to translate digital pages into sound, cell by cell, row by row. Assistive screen readers “linearize” digital text into a stream of spoken words. Accessibility experts encourage Web designers to “think in linear terms” wherever possible, and to make sure their tables make sense when read in a continuous sequence. Accessible Web sites also consider the needs of users working with older software or text-only browsers. Linear thinking helps not only non-sighted audiences but also the users of cell phones, hand-held digital appliances, and other devices where space is tight and text is dominant.

MICA.EDU

Web site, 2004

Designers: Carton Donofrio
Partners

Publisher: Maryland Institute
College of Art

*HTML tables, with their borders
gently expressed, are an element
of this neatly gridded Web page.*

1. Main Menu 2. Calendar 3. Contact Us 4. Site Map 5. Search 6. Apply Online 7. FAQ's

mica:

MARYLAND INSTITUTE COLLEGE OF ART : NEWS

DATE	ITEM
04.16.04	MICA Sculpture Faculty Member Michael Rakovitz Launches Book >>>
04.12.04	Designers Flaunt Their Fashions at MICA's Annual Fashion Show on April 24 >>>
04.12.04	Third in MICA's Annual Series of Graduate Thesis Exhibitions Showcases Twelve Artists and a Group Show from Four of MICA's Graduate Programs >>>

one of five paintings from senior thesis

a.

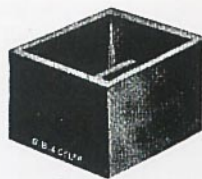
BEYOND HTML

HTML, the technology that allowed the Internet to become a global mass medium, is the virtual counterpart to letterpress, which mechanized the production of the book and cleared the ground for a world culture of print. Like letterpress, HTML is a text-hungry medium that can be coaxed, with some resistance, to display images. It is fundamentally driven by text, from its open, readable source code to the type of content it is designed to display.

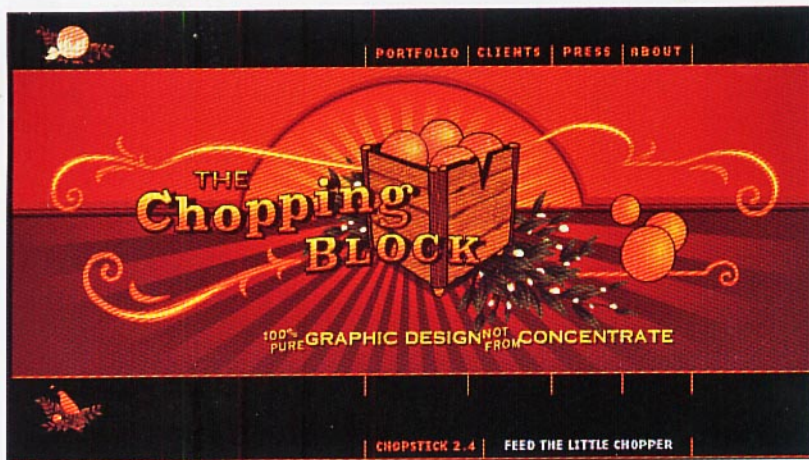
HTML coexists with other languages on the Web, just as alternative technologies appeared alongside letterpress. Lithography, invented for the manufacture of images in the eighteenth century, quickly became an advertising medium that incorporated words as well as pictures, just as letterpress made space in its mechanical grid for woodcuts, engravings, and photographic halftone blocks. In the twentieth century, lithography replaced letterpress as the world's dominant printing method; used with digital or photographic typesetting, it conveys text and pictures with equal comfort.

Lithography is not governed by grids as relentlessly as letterpress; neither is Macromedia Flash, the animation software that became a common Web-design tool. Flash was originally designed for the creation of vector-based cartoons. Although its primary purpose was pictorial, it is now used to construct the interface and content, both graphic and textual, of entire Web sites.

Although Flash scripting manipulates objects in a field of x and y coordinates, the sites created with this technology often appear less tightly controlled by grids than the tabulated pages of HTML. The Flash sites that became, in the late 1990s, icons of a new Web aesthetic are more cinematic than typographic, and often feature a painterly mix of word and image.



Hand-coding HTML is as slow and deliberate as setting metal type. Empty table cells are used to out areas of open space, but HTML makes these collapse if the cells are truly empty, causing the grid to implode. The transparent images that often fill these spaces are virtual equivalents to the blank spacing material of metal type.



THE CHOPPING BLOCK

Web page (detail)

Designers: Thomas Romer, Jason Hillyer, Charles Michelet, Robert Reed, and Matthew Richmond, The Chopping Block

This Web site reprises the design of early twentieth-century fruit-crate labels, which were produced as lithographic prints that merge text and image. The Web page is animated, loading elements over time.

WILLIAM GIBSON'S 1984 NOVEL *Neuromancer* envisions cyberspace as a vast ethereal grid. Gibson's data cowboy leaves behind the "meat" of his body and drifts off into a "transparent 3D chessboard extending to infinity." The image of this grid is projected on an internal surface of the mind, bound by no screen or window.

The grid as infinite space—defying edges and dominated by mind rather than body—is a powerful instrument within modernist theory, where it is a form both rational and sublime. In the early twentieth century, avant-garde designers exposed the grid in order to dramatize the mechanical conditions of print. After World War II, Swiss designers built a total design methodology around the grid, infusing it with ideological intention. The grid was their key to a universal language. With the postmodern turn toward historical, vernacular, and popular sources in the 1970s and 1980s, many designers rejected the rationalist grid as a quaint artifact of Switzerland's own orderly society.

The rise of the Internet has rekindled interest in universal design thinking. The Web was invented in the early 1990s (in Switzerland) to let scientists and researchers share documents created with different software applications. Its inventor, Tim Berners-Lee, never guessed it would become a design-driven medium connecting vast numbers of differently abled and divergently motivated people around the globe.

Universal design systems can no longer be dismissed as the irrelevant musings of a small, localized design community. A second modernism has emerged, reinvigorating the utopian search for universal forms that marked the birth of design as a discourse and a discipline nearly a century earlier. Against the opacity and singularity of unique visual expressions—grounded in regional preferences and private obsessions—ideas of commonality, transparency, and openness are being reborn as information seeks to shed its physical body.

On the invention of the Web, see Tim Berners-Lee, *Weaving the Web* (New York: HarperCollins, 1999). For a contemporary account of universal design thinking, see William Lidwell, Kritina Holden, and Jill Butler, *Universal Principles of Design* (Gloucester, Mass.: Rockport Publishers, 2003). See also William Gibson, *Neuromancer* (New York: Ace Books, 1984).

To produce designs that are objectively informative is primarily a socio-cultural task. Josef Müller-Brockmann, 1961

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more studio information soon

contact information

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news

We've just uploaded a few demos of Vector Video Suite 2, which re-compiles video in halftone format, again using custom vector assets. However, the halftone format scales the vector assets to create pools of light and dark. [Click here](#) for more info.

Partners, Branden Hall and Joshua Davis, have developed a suite of software that re-compiles video, using any vector based assets fed into the system. Vector Video Suite 1 has the ability to associate a scope of vector assets to specific ranges of color, as in the first typeface example. [Click here](#) for more info.

We just finished a nine minute random generative DVD, commissioned by LI Edelkoort, produced for her upcoming biennial "Armour, the fortification of a wall". [Click here](#) for more info.

vector video suite 2



play 3.5 meg : video

play 3.8 meg

page : 1 2 3

Our studio has developed a suite of software that re-compiles video, using any vector based assets fed into the system. Contact us via e-mail for further information on software services.

JOSHUADAVIS.COM

Web site, 2004

Designed by Joshua Davis
The anonymous coolness of
"old school" Swiss rationalism
resurfaced in Web design, as seen
in the use of flush left, lowercase
Helvetica and consistent grid
systems.

Flash guru Joshua Davis, who
designs serene screen layouts with
scripted animations, is a leader
in this return to the rational roots
of mid-century graphics, now
inflected with the voice of new
media.

wird wirkend, dem Lennéschen Ideal folgende, baumreiche Naturgarten weicht englischen Rasenflächen, die sich mit nur noch wenigen Baum- und Strauchgruppen und gepflegten Blumenbeeten abwechseln. Mit dieser Veränderung, so der dritte Direktor des Zoos, Heinrich Bodinus, soll es möglich werden, den belebenden und erwärmenden Strahlen der Sonne Zutritt zu verschaffen. Anders als zuvor finden sich in den Berliner Zeltungen nun immer häufiger positiv gefärbte Erlebnisberichte. Vorläufiger Höhepunkt und nicht zu unterschätzender rite de passage für die breite Anerkennung des Gartens war das OBER-KAISERTREFFEN im Herbst 1872: Kaiser Wilhelm, Kaiser Alexander II. von Rußland und Kaiser Franz-Joseph von Österreich-Ungarn werden in einem zwanzig Wagen umfassenden Zug über das Zoogelände kutschiert. Obwohl der Zoo zu dieser Zeit noch außerhalb der Stadt gelegen ist, ist dessen neuartige Gestaltung schon ein Zeichen dafür, daß die preußische Hauptstadt um die Anbindung an die Kultur der großen europäischen Metropolen bemüht ist. Die Bevölkerungszahl Berlins steigt mit der industriellen Entwicklung jener Jahre erheblich, und dem Zoo kommt neben den Stadtparks; zunehmend ein Erholungswert zu, der durch eine Reihe von technischen Neuerungen gesteigert werden kann: eine Dampfmaschine sorgt für Wasserzirkulation und verwandelt die früher im Sommer überfließenden Gewässer des Gartens in belebte Weiher. Hinzu kommt die Erleichterung von An- und Abreise. Ab 1875 verbindet eine Pferdebahnlinie Berlin mit dem Zoo. Im Jahre 1881 folgt die Installation elektrischer Beleuchtung, die eine Ausdehnung der Öffnungszeiten bis in die Abendstunden zuläßt. Kinderspielflächen und -plätze werden eingerichtet. Wo sonst könnten sie sicher vor dem Getümmel der Weltstadt in frischer Luft ihre Glieder üben und ihre Lungen weiten? heißt es im Programmheft des Jahres 1888. Der Zoo entwickelt sich deutlich zu einem integralen Bestandteil der städtischen Kultur. Anders als in den Stadtparks — etwa dem Humboldtthain — stellt hier der Eintrittspreis sicher, daß die das Verfügen schmierenden Obdachlosen und Bettler vor den Toren bleiben. Zoofreunde werben um die Gunst von Kolonialoffizieren, die helfen sollen, die Tierbestände zu erhöhen und die in der Folge tatsächlich zunehmend als Donatoren fungieren. Forschungsreisen und Expeditionen in viele Regionen der Erde — häufig unter maßgeblicher Regie der Zoodirektoren — führen zur Entdeckung bislang unbekannter Tierarten. Die intensive Kooperation von Zoo und Naturkundemuseum setzt sich fort, so daß der Bestand des Museums 1884 auf etwa 2 Mio. Tiere, darunter etwa 500 Wirbeltiere, angewachsen ist. Der Berliner Zoo wird in den letzten Jahrzehnten des 19. Jahrhunderts zu einem repräsentativen Treffpunkt und zu einem Raum, in dem sich preußische Mentalität wenn auch nicht aufhebt, so doch relativiert. Fremdartige Tierwelt und eine Architektur des Orient, des Fernen Osten und der Savannen, verbindet sich in einiger Entfernung vom hektischen und geschäftigen Leben der Stadt, zu einem den Stadtbewohnern bis dahin unbekanntem Ambiente. Hier entwickelt sich Natur zum Unterhaltungsgegenstand. Die von Zirkussen, Menagerien und Märkten bekannten sensationellen und theatralischen Aspekte gehen mit dem zoologischen Erkenntnisinteresse eine eigenartige Symbiose ein. Gegenüber wird diese Entwicklung nicht zuletzt

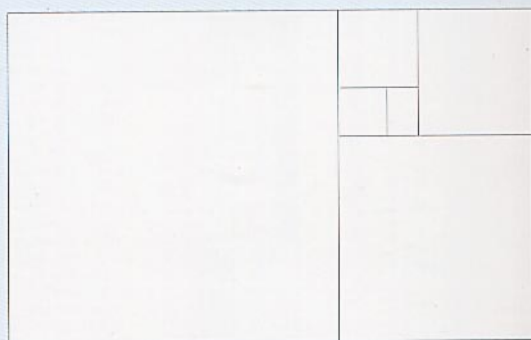
90 von ökonomischen Zwängen; immer wieder

kämpft die Zoogesellschaft um ihre Existenz. Der Zoo wird zu einem der Plätze der Stadt, wo sich Vorstellungen einer noch in Entwicklung begriffenen Weltstadt, am ehesten materialisieren; kein Wunder, daß immer deutlicher auch Künstler und Gelehrte sich von diesem Raum angezogen fühlen. Neben einer Musiktribüne hilft ein erweiterter Restaurationsbetrieb den Aufenthalt in den meist nur unzureichend belüfteten Gebäuden aufzulockern. Ein Zeitgenosse beschreibt diese Bereicherung: Durch das neue Restaurationslokal ist die Zahl der großen Festsäle um ein Meisterwerk der Baukunst vermehrt worden. Wenn hier eine vortreffliche Militärkapelle ein Concert ausführt, dann bildet, in Folge des erhöhten Eintrittspreises, die elegante Welt die Mehrzahl der Besucher: Draußen dehnt sich eine lange Reihe Enquagen bis in die Winkel des Tiergartens; drinnen sind alle Plätze im weiten Umkreise des muschelförmig gebauten Orchesters besetzt; beim Klänge der Instrumente, beim Geplätscher der Fontänen sitzt man, sich erfrischend, rauchend, plaudernd und scherzend unter den schattigen Bäumen und blickt in das abwechselnde, stets rasge Tierleben hinaus, wie es sich in den benachbarten Gärten, auf Aesten und Teichen kund gibt. Die Auswahl der Tiere und der Situationen, in denen sich ihre Präsentation bewegte, erfolgt sorgfältig und bedacht, die Kuratoren entscheiden sich für besonders exotisch wirkende, kuriose, lückerliche, niedliche Tiere: Dabei gilt es stets, die Konfrontation mit potentiell Abscheu oder starkes Befremden erregenden tierischen Verhalten zu verhindern. Die zunehmende Popularität der Zoos korreliert mit dem Verschwinden von Tieren aus dem Alltagsleben des städtischen Menschen. Das Tier ist entweder Haustier, also Mitbewohner der Wohnung, oder drastisch auf seine Rohstofffunktion reduziert und fristet in fabrikkartigen Hallen absalts der Städte sein ökonomisch optimiertes Dasein. Mit dem zoologischen Gärten beginnt ein Verdrängungsmechanismus, der sich später auch auf Naturparks und Reservate erstreckt; die Gefangenschaft erscheint angesichts der systematischen Zerstörung der Lebensräume als ein Schutz der Natur und dient dazu, das unterschiedlich vorhandene schlechte Gewissen zu beruhigen.

ALBERT H. RASCHLONER, BERLINER ZOOLOGISCHES MUSEUM

U. R. Sommer, Berlin. Die deutsche Kaiserliche Zoologische Gesellschaft, die im Jahre 1888 gegründet wurde, hat sich zum Zweck gegründet, die zoologische Wissenschaft in Deutschland zu fördern und die zoologische Gesellschaft, die im Jahre 1888 gegründet wurde, hat sich zum Zweck gegründet, die zoologische Wissenschaft in Deutschland zu fördern.





The golden section, which appears in nature as well as in art and design, has many surprising properties. For example, when you remove a square from a golden rectangle, the remainder is another golden rectangle, a process that can be infinitely repeated to create a spiral.

No book about typography would be complete without a discussion of the *golden section*, a ratio (relationship between two numbers) that has been used in Western art and architecture for more than two thousand years. The formula for the golden section is $a : b = b : (a+b)$.

This means that the smaller of two elements (such as the side of a rectangle) relates to the larger element in the same way that the larger element relates to the two parts combined. In other words, side *a* is to side *b* as side *b* is to the sum of both sides.

Expressed numerically, the golden section is 1 : 1.618

Some graphic designers are fascinated with the golden section and use it to create various grids and page formats—indeed, entire books have been written on the subject. Other designers believe that the golden section is no more valid as a basis for deriving sizes and proportions than other methods, such as beginning from standard industrial paper sizes, or dividing surfaces into halves or squares, or simply picking whole-number page formats and making logical divisions within them.



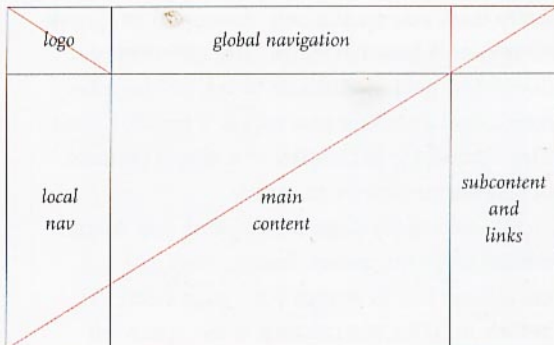
Golden rectangle of text on 8.5 x 11-inch page (U.S. standard)



Golden rectangle of text on A4 page (European standard, 210 x 297 mm)

Commercial printers generally prefer to work with pages trimmed to even measures rather than with obscure fractions. However, you can float golden rectangles within a page of any trim size.

For a more detailed account of design and the golden section, see Kimberly Elam, *Geometry of Design* (New York: Princeton Architectural Press, 2001). For an emphasis on applying the golden section to typography, see John Kane, *A Type Primer* (London: Laurence King, 2002).



It may well be absurd to base a Web site on the golden section, but here, nonetheless, is a design for one. This wire frame diagram describes a Web page that is 500 x 809 pixels. The "golden screen" is then divided with squares and golden rectangles.

	GRID SYSTEMS	PAGE ONE
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This standard, 8.5 x 11-inch page has even margins all the way around. It is a highly economical, but not very interesting, design.

This page is an inch shorter than a standard US office sheet. The text block is a square, leaving margins of varying size.

Every time you open a new document in Quark XPress or Adobe InDesign, you are prompted to create a grid. (Microsoft Word, on the other hand, doesn't ask; it just makes a grid for you.) The simplest grid consists of a single column of text surrounded by margins.

By asking for page dimensions and margin widths from the outset, layout programs encourage you to design your page from the *outside in*. (The text column is the space left over when the margins have been subtracted.)

Alternatively, you can design your page from the inside out, by setting your margins to zero and then positioning guidelines and text boxes on a blank page. This allows you to experiment with the margins and columns rather than making a commitment as soon as you open a new document. You can add guidelines to a master page after they meet your satisfaction.


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In this symmetrical double-page spread, the inside margins are wider than the outside margins, creating more open space at the spine of the book.

Books and magazines should be designed as *spreads* (facing pages). The two-page spread, rather than the individual page, is the main unit of design. Left and right margins become inside and outside margins. Page layout programs assume that the inside margins are the same on both the left- and right-hand pages, yielding a symmetrical, mirror-image spread. You are free, however, to set your own margins and create an asymmetrical spread.

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In this asymmetrical layout, the left margin is always wider than the right margin, whether it appears along the inside or outside edge of the page.

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There are numerous ways to use a basic column grid. Here, one column has been reserved for images and captions, and the others for text.

In this variation, images and text share column space.

While single-column grids work well for simple documents, multi-column grids provide flexible formats for publications that have a complex hierarchy or that integrate text and illustrations. The more columns you create, the more flexible your grid becomes. You can use the grid to articulate the hierarchy of the publication by creating zones for different kinds of content. A text or image can occupy a single column or it can span several. Not all the space has to be filled.

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Elements of varying width are staggered within the structure of the grid.

<p>Grid systems</p>		<p>The typographic grid is a prescriptive regulator for composition, tables, pictures, etc. It is a formal programme to accommodate a well-defined theme.</p>	
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A horizontal band divides a text zone from an image zone. Elements gravitate towards this line, which provides an internal structure for the page.

In addition to creating vertical zones with the columns of the grid, you can also divide the page horizontally. For example, an area across the top can be reserved for images and captions, and body text can “hang” from a common line. In architecture, a horizontal reference point like this is called a *datum*.

<p>Grid systems</p>		<p>The typographic grid is a prescriptive regulator for composition, tables, pictures, etc. It is a formal programme to accommodate a well-defined theme.</p>
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Columns of text hang from a datum, falling downward with an uneven rag across the bottom.

Ifang Leisalpa
(Schloss).
2090 Meter

und verdichtet, wie dies im Betonbau üblich ist. Da der Beton bei diesem Vorgang die Vor- und Rücksprünge der Rückseite der Steinplattenwand umfließt, entstand eine vorzügliche Verzahnung und Verbindung der beiden Materialien Kunststein (Beton) und Naturstein.

Allerdings konnten die Wände nicht in ihrer ganzen Höhe auf einmal hintergossen werden. Das musste in Höhenetappen von 50 cm erfolgen. Erst wenn der Beton einer Lage eine bestimmte Festigkeit erreicht und sich mit dem Mauerwerk verbunden hatte, konnte die nächste Lage von 50 cm darüber betoniert werden. Eine höhere Schüttmasse von flüssigem Beton hätte die freistehenden Steinplattenwände seitlich weggedrückt.

Insgesamt wurden für die Wände der Therme 450 m³ oder 1300 Tonnen Valsler Quarzitplatten zu 3100 m² Wandfläche in 20 Schichten pro m² verarbeitet. Die Länge aller verwendeten Plattenstreifen zusammen ergibt ein Total von 62.000 Laufmetern, was der Strecke von Vals nach Haldenstein entspricht.

Peter Zumthor

Valsler Quarzit

Druckfestigkeit:
etwa 217 N/mm²
Rohdichte:
2.698 kg/m³
Wasseraufnahmekoeffizient:
Masse -% 0,25
Gefräste Steinplatten: Stärken
6, 3, 4, 7 und 3,1cm
Toleranz: 1 mm
Breiten: 12 - 30 cm
Längen: bis 3,20 m
über 60.000 lfm
Fugenbreite:
etwa 2 mm

Boden

Breiten der
Bahnen: 8 - 110 cm
Längen: bis 3,20 m,
je Platte zum Teil
über 3 m² in einer
Stärke von 2 cm
Oberflächen:
poliert, gefräst,
gestockt, geschliffen in allen
Möglichkeiten
und einer Fugenbreite von 1 mm

Fugen und

Mörtelmasse
EMACO R 304
BARRA 80 Firma
MBT | Eckverbindungen, Schwel-
len, Sturzplatten,
Treppenunter-
sichte und Tritte,
Sitze als einzel-
ne Werkstücke
gefertigt | minimale
Toleranzen (welt
unter sIA-Norm)
beim Schneiden
und Vermauern
der Steine, wie zum
Beispiel auf 8 m
Höhe weniger als
5 mm Toleranz

Grotten

Trinkstein:
polierte Quader
aufeinander-
geschichte Größe
etwa 0,5 - 1 m³
Quellgrotte:
gebrochener
Stein im Innern
Schwitzstein:
eingefärbter und
polierter Beton
Steininsel:
grossformatige
gespaltene Platten
bis zu 3 m² je
Platte



STEIN UND VASSER,

WINTER 2003|04

Booklet, 2003

Designer: Clemens Schedler,

Büro für konkrete Gestaltung

Publisher: Hotel Therme,

Switzerland

This publication for a spa in Switzerland uses a five-column grid. The main text fills a four-column block, and the smaller texts occupy single columns.

General
Non-Fiction

Art

Photography

Collector's
Editions

Film

Architecture

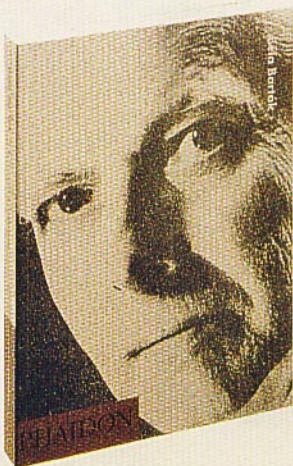
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Béla Bartók

Kenneth Chalmers



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- Covers the full range of his work from his early explorations of the folklore of Hungary to his Third Piano Concerto composed on his deathbed in the United States
- Brings out the singular nature of his genius and the originality of his contribution to music

Kenneth Chalmers is an author, translator and composer who has written on Bartók, Berg, Stravinsky, Verdi and Weill, and collaborated on Decca's 20-volume Mozart Almanac

Design

Fashion &
Contemporary
Culture

Decorative Arts

Music &
Performing Arts
20th Century
Composers

Video

Index

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The Beatles

Allan Kozinn



- Follows the extraordinary development of the four self-taught musicians from Liverpool from their beginnings until the break-up in 1970
- Examines why the innovative music of the Beatles – created, at least initially, as ephemera – has remained so durable
- Considers not only the commercially released disks but also studio outtakes, demos, unreleased recordings and broadcast performances
- Sets the group's evolution against the backdrop of the popular culture explosion of the 1960s

Allan Kozinn has written musical criticism for the *New York Times* since 1977 and won ASCAP awards for his work, including the book *Mischa Elman and the Romantic Style*

'A well-rounded, readable account. Makes a convincing case for putting the Beatles on the shelf between Bartók and Boulez.' (*The Sunday Times*)

PHAIDON: FALL 2003
Catalogue, 2003
Designer: Hans Dieter Reichert
Publisher: Phaidon
Photograph: Dan Meyers
This catalogue for a book publisher provides a rational and elegant structure for displaying hundreds of different books, each one presented as a physical object annotated with documentary data. The margins act as a navigational interface for the catalogue. Divisions occur both horizontally and vertically.

Play serves learning though experimentation without risk. Learning occurs through quick, imprecise actions, conducted within understood rules of a game, and free from threat or consummation. Play does not use up so much as build.

military-industrial world of computing, one important way to do so is to play. Play takes many forms. For example, it can be individual or social. According to one classic

taxonomy, individual play includes pursuit of sensations, exercise of motor apparatus and experimentation with higher mental powers. This mental play includes exercise of attention, emotion and will. Attention play includes tests of memory, imagination, focus and reason. On the other hand, social play includes fighting and rivalry, loving and courtship, imitation and status seeking. Imitative play includes movements, drama, behavioural constructions and emulation of inner states.²

Crafts and craft learning embrace quite a range of these playful forms. Arguably, no productive process combines so many so well. Sensation, skilled motion, attention, involvement, will — all must be balanced, and this is the basis for craft as recreation. Craft learning is a form of imitative social learning. Movements are physical skills taught directly, whether by demonstration or coaching. Drama is a lesser component here, although it may be understood in the willful suspension of disbelief that allows participation in an abstract medium. Constructions are the artifacts. They are the plastic play, the visual examples, the operational learning. Finally the inner state is the patience, reflectivity and intent that distinguish the master.

Play serves learning though experimentation without risk. Play often lacks any immediately obvious aim other than the pursuit of stimulation, but functions almost instinctively to serve the process of development. Learning occurs through quick, imprecise actions, conducted within understood rules of a game, and free from threat or consummation. Play does not use up so much as build. One thing it

builds is common sense. Play's endlessly variable series of awkward, exaggerated motions seeks out the approximate arena for later development of true competence.

There is much to be said for play in a medium. If a medium is defined by its affordances and constraints, then learning consists of exploring these properties. Experimentation is especially useful for becoming familiar with constraints: we learn from our mistakes. We must accept that beginning work in a new medium will be full of setbacks. There will also be fortuitous discoveries, however particularly of affordances. Design is not only invention, but also sensitivity to a medium. Craft cannot be merely in service of technique, or of inappropriately conceived ends. The craftsman must begin to feel something about the artifacts, and only certain moves will feel right.

Of course when it comes to computation, we all must learn. In a sense, we're all children—the medium is *that* new. And of course, the most fluent experts here are often quite young. As all of us learn about this promising new domain, a chain of developments should be clear: play shapes learning; learning shapes the mind; mental structures shape software; and software data structures afford work and play.

Structure and Improvisation

The master at play improvises. Consider the jazz pianist. In *Ways of the Hand — The Organization of Improvised Conduct* (1978), the musician David Sudnow gives us a rare description of otherwise tacit knowledge in action. Improvising on a piece takes much more talent than simply playing from a notation or learning by rote, Sudnow explains. Moreover, improvising begins with a sense of structure, from which it builds a cognitive map. For example, the 'way in' to an arpeggio is mentally mapped. The structure of the keyboard presents a physical map of a chord, which may be modified in countless ways by physical moves. One could play the adjacent keys, for example, or one could translate by any arbitrary interval. One could transpose or invert. One could change the order in which the notes were played, or the

² Karl Groos, *The Play of Man*. New York: Appleton and Co., 1901

the same pitches as the first, the doubled back and went fast again, but over different pitches... There were innumerable variations possible; looking at 'structure' in this way and corresponding to various continuity practices, ways of the hand were cultivated that were suited to the performance of such manoeuvres...

Transposition of such a figure to a new segment and correct repetition with respect to pitch, without slowing it down or slowing down parts of it, involved coping with the topography of the terrain by the hand as a negotiative organ with various potentials and limitations.³

tempo, or the attack and decay. Of course one could substitute dominant, major and minor chords.

Sudnow argues that because these variations are sequences of physical positions, they are learned as active skills no longer necessary to be understood at a mental level. Each becomes a handful. That the hand gets a hold of a variation on a chord is indicated by observed tendencies to start into particular sequences with certain fingers on certain keys. The manoeuvre is known by the hand, and the mind only maps the way in. The ability to modify the run note by note — which would require conscious attention — only comes later. Even without attentive intellectual guidance, however, the natural tendency of the hand is not to repeat itself, even in a series of figural repetitions. Thus once a sufficient repertoire of runs is learned, this tendency inherently ensures a richness to the sound. The hand searches its territory for sequences, which process replaces a faithfulness to the score, and that makes jazz. For example:

The new run could be in various other ways — only 'essentially related' to the preceding run. Say the first started slow and went up fast, then doubled back and went fast again, while the second started slowly and came back down through

Although jazz is the obvious case, it is hardly alone. Improvisation plays a role in many contemporary practices, and in many traditional crafts. Few of these worlds employ such a singular instrument as the piano; few are able to turn so much over to the hands, but all involve playful response to a structure. For example, of industrial design, Herbert Read insisted that 'Art implies values more various than those determined by practical necessity.'⁴ As a modernist and industrialist, he felt admiration for fundamental structural laws, such as the golden section also admired by his contemporary Le Corbusier. He was convinced, however, that metrical irregularities based on a governing structure, rather than slavish adherence to the laws in their precision, was the basis for pleasurable expression. He cited Ruskin's line that 'All beautiful lines are drawn under mathematical laws organically transgressed.'⁵ He held that this was the case even in the useful (industrial) arts.

Consider the case of processing a digital photograph. The makeup of the raster image file, the various tone scale and filtration operators, provides a very clear structure in which to work but demands no particular order of operation. The complex microstructure of the sampled pixels provides a sub-

The natural tendency of the hand is not to repeat itself, even in a series of figural repetitions. Thus once a sufficient repertoire of runs is learned, this tendency inherently ensures a richness to the sound. The hand searches its territory for sequences, which process replaces a faithfulness to the score, and that makes jazz.

³ David Sudnow, *Ways of the Hand—The Organization of Improvised Conduct*, Cambridge, MA: Harvard University Press, 1978, p. 1.
⁴ Herbert Read, *Art and Industry—The Principles of Industrial Design*, New York: Horizon Press, 1954 [1934].
⁵ *Ibid.*

IF/THEN PLAY:
DESIGN IMPLICATIONS
OF NEW MEDIA
Book, 1999

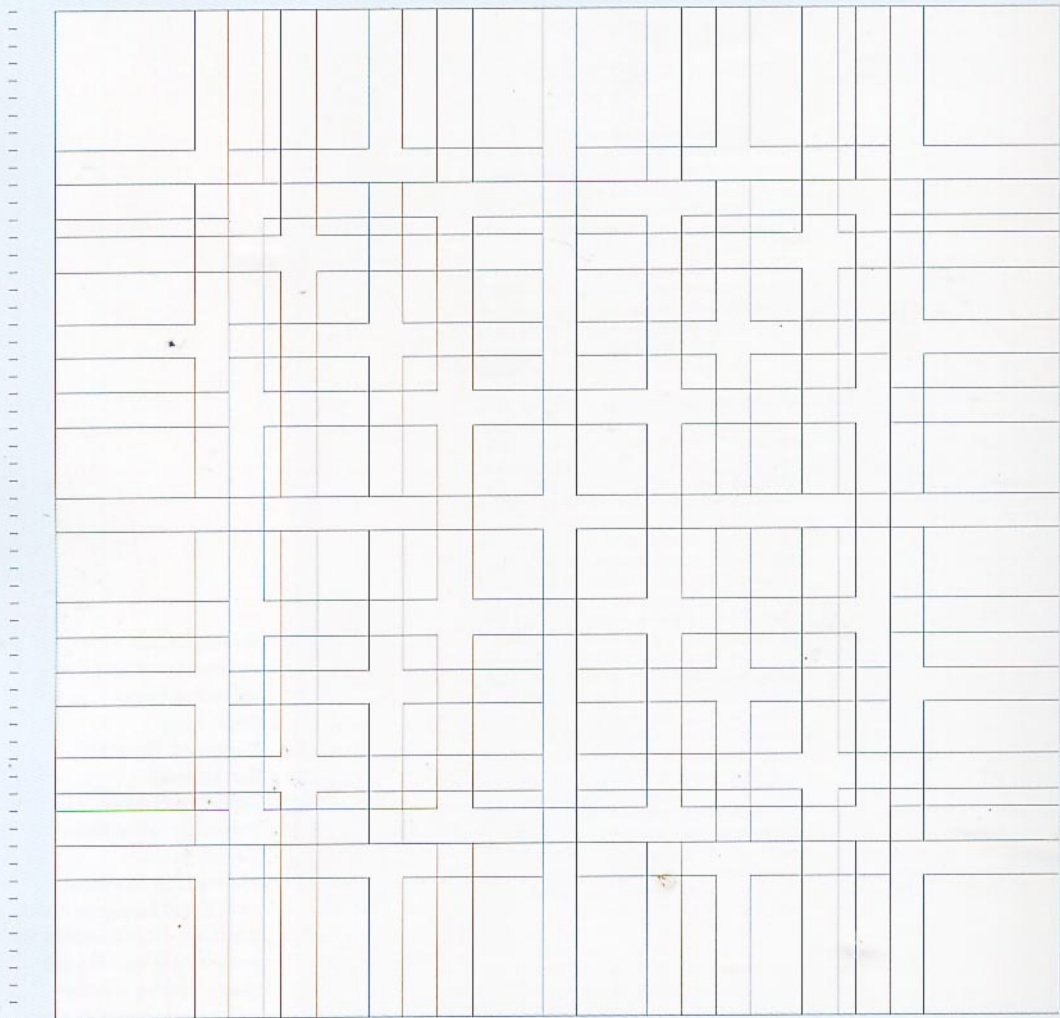
Designers: Mevis and
Van Deursen

Editor: Jan Abrams

Publisher: Netherlands
Design Institute

Photograph: Dan Meyers

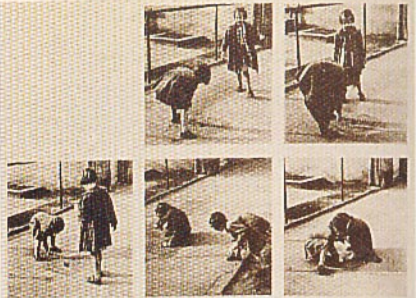
In this book about new media, a two-column grid contains the main body of text. The pull quotes, running across two columns, are framed in thinly ruled boxes that suggest the overlapping "windows" on a computer screen. The top margin, which resembles the tool bar in a browser, provides an interface to the book.



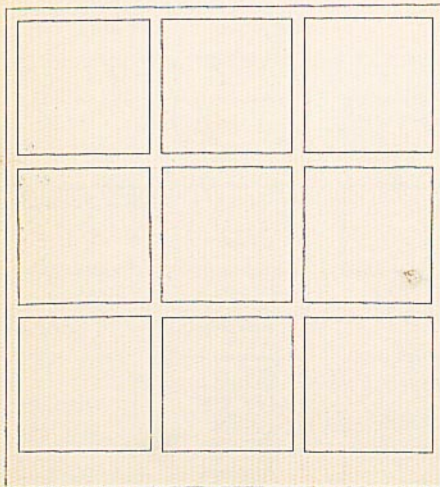
DESIGNING PROGRAMS
Grid diagram, 1963 (redrawn)
Designer: Karl Gerstner
Arthur Niggli, Zurich

This square grid consists of six vertical columns and six horizontal modules, overlaid by grids of one, two, three, and four units.

Vertically, the grid is governed by a 10-point measure, which would determine the spacing of type from baseline to baseline.



Es gibt keine feste Reihenfolge der Bilder, sondern sie sind in einem Raster angeordnet. Auf der linken Seite ist ein Foto von einem Kind, das mit einem Hund spielt. In der Mitte ist ein Foto von einem Kind, das mit einem Hund spielt. Rechts ist ein Foto von einem Kind, das mit einem Hund spielt. Die Bilder sind in einem Raster angeordnet, so dass sie in einer bestimmten Reihenfolge betrachtet werden können. Die Größe der Bilder variiert, was zu einer interessanten Komposition führt. Die Bilder sind in einem Raster angeordnet, so dass sie in einer bestimmten Reihenfolge betrachtet werden können. Die Größe der Bilder variiert, was zu einer interessanten Komposition führt.



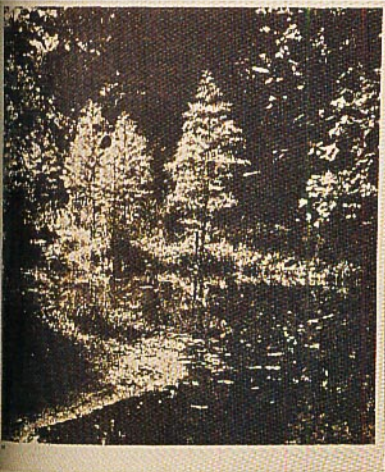
Seiten 226/227/228
 Ein Bild- und Textbuch, auf der Grundlage eines Rasteres von 9 Quadraten aufgebaut. Die Raster ist hier das Mittel, das die unterschiedlichen Textmengen, unterschiedlichen Bildgrößen und Bildformate zu einer formalen Einheit zusammenfasst. Im Endergebnis soll der Raster nicht auffallen, er soll von der Verschiedenheit der Werte und Bildformen überbört werden.

Pages 226/227/228: A book containing pictures and text based on a grid pattern of nine squares. This pattern is the means of establishing a formal unity between the different amounts of text and different sizes and shapes of picture. The pattern should not be conspicuous in the final result but rather be concealed by the diversity of pictorial subjects and typographical values.

Pages 226/227/228
 Un livre illustré construit sur la base d'une trame de 9 carrés. La trame est ici l'élément d'unité reliant entre eux les divers textes et formats d'images. Dans le résultat définitif, la trame ne doit pas être trop frappante, mais seulement perceptible à travers la diversité des valeurs et des sujets d'illustration.



Emil Ruder zeigt den Kindern die Schriftarten der Buchstaben. Die Kinder sitzen auf dem Boden und schauen zu. Die Buchstaben sind in verschiedenen Größen und Farben dargestellt. Die Kinder sind in einem Park oder Garten. Die Buchstaben sind in verschiedenen Größen und Farben dargestellt. Die Kinder sind in einem Park oder Garten.



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TYPOGRAPHY
 Book, 1967
 Designer and author:
 Emil Ruder
 Publisher: Arthur Niggli
 Photographer: Dan Meyers

*In this classic design text,
 Emil Ruder demonstrates the
 use of a modular grid.*

Common typographic disorders			
Various forms of dysfunction appear among populations exposed to typography for long periods of time. Listed here are a number of frequently observed afflictions.			
typophilia An excessive attachment to and fascination with the shape of letters, often to the exclusion of other interests and object choices. Typophiliacs usually die penniless and alone.			
typophobia The irrational dislike of letterforms, often marked by a preference for icons, dingbats, and—in fatal cases—bullets and daggers. The fears of the typophobe can often be quieted (but not cured) by steady doses of Helvetica and Times Roman.			
tychondria A persistent anxiety that one has selected the wrong typeface. This condition is often paired with okd (optical kerning disorder), the need to constantly adjust and readjust the spaces between letters.			

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Use a modular grid to arrange a text in as many ways as you can. By employing just one size of type, flush left only, you will construct a typographic hierarchy exclusively by means of spatial arrangement. To make the project more complex, begin adding variables such as weight, size, and alignment.

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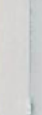


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ORTHOGONAL

94	41	55	57	62	75	83
						
SHREDDED WHEAT	RICE CHEX	FR. SHREDDED WHEAT	FROSTED MINI-WHEAT	LIFE	CRUNCHY CORN BRAN	CRIS
02	24	28	52	55	61	73
						
CORN FLAKE	WHEATIE	RAISIN BRAN	FROSTED FLAKE	SPECIAL K	TOTAL	100%
02	04	28	50	54	58	69
						
PUFFED RICE	PUFFED WHEAT	RICE KRISPIE	CORN POP	SUGAR SMACKS	COCOA KRISPIES	FRUIT
37	41	58	63	64	79	84
						
KIX	CHEERIO	COCOA PUFF	FROOT LOOP	APPLE JACK	HONEY NUT CHEERIO	HONEY
54	57	61	64	68	69	76
						
TRIX	ALPHABITS	FRANKENBERRY	LUCKY CHARMS	CRUNCHBERRIES	KABOOM	HONEY

YEAR INTRODUCED	MARKET SHARE	PRICE PER LB	MAKER
00	15	3.01	P
G			SUGAR (1)
K			FIBER (4)
P			PROTEIN (4)
Q			SODIUM (0)

PERIODIC BREAKFAST TABLE
 Magazine page (detail)
 Designer: Catherine Weese
 Photography: John Halpern
 Publisher: Patsy Tarr,
 Twice Magazine

This chart organizes breakfast cereals by shape and annotates them according to a dozen characteristics, from fiber content to price per pound. Visual displays of data allow readers to quickly compare items. One might observe, for example, that in breakfast cereals, intensity of sugar is usually accompanied by intensity of color.

Train No.	3701	3301	3801	A 07	3 3803	3 3201	A3 51	3 3703	3 3807	3 3203	A3 61	3 3809	A3 47	3 3901	3 3811	3 3903	3 3813	3 3205	3615	3617	3619	3207	3821	3823	3825	3209	3827	3829	3831	
New York, N.Y.	A M	A M	A M	A M	A M	A M	A M	A M	A M	A M	A M	A M	A M	A M	A M	A M	A M	A M	A M	A M	A M	A M	A M	A M	A M	A M	A M	P M	P M	P M
Newark, N.J. P	12.24	12.55	1.44	4.07	5.04	6.24	6.38	6.49	7.04	7.24	7.45	7.47	7.59	8.04	8.19	8.39	8.54	9.04	9.24	9.54	10.24	10.39	10.54	11.24	11.54	12.04	12.24	12.54	1.24	
North Elizabeth	12.31	1.03	1.51	5.11	6.31	6.56	7.11	7.32	7.54	8.10	8.13	8.26	8.46	9.01	9.11	9.31	10.01	10.31	10.46	11.01	11.31	12.01	12.11	12.01	12.11	12.31	1.01	1.31	1.31	
Elizabeth	12.31	1.03	1.51	5.11	6.31	6.56	7.11	7.32	7.54	8.10	8.13	8.26	8.46	9.01	9.11	9.31	10.01	10.31	10.46	11.01	11.31	12.01	12.11	12.01	12.11	12.31	1.01	1.31	1.31	
Linden	12.36	1.56	2.00	5.16	6.36	7.01	7.15	7.37	7.59	8.18	8.31	8.51	9.06	9.18	9.36	10.06	10.36	10.48	11.06	11.36	12.06	12.16	12.06	12.16	12.36	1.06	1.36	1.36	1.36	
North Rahway	12.40	1.11	2.00	5.20	6.40	7.03	7.19	7.39	7.59	8.20	8.33	8.54	9.10	9.18	9.40	10.10	10.40	10.53	11.10	11.40	12.10	12.18	12.10	12.18	12.40	1.10	1.40	1.40	1.40	
Rahway	12.40	1.11	2.00	5.20	6.40	7.06	7.20	7.42	8.03	8.24	8.36	8.57	9.10	9.18	9.40	10.10	10.40	10.53	11.10	11.40	12.10	12.18	12.10	12.18	12.40	1.10	1.40	1.40	1.40	
Metro Park (Iselin)	12.44	2.04	2.04	4.26	5.24	6.56	7.10	7.25	8.04	8.07	8.15	8.40	9.14	9.18	9.44	10.14	10.44	10.48	11.14	11.44	12.14	12.14	12.14	12.14	12.44	1.14	1.44	1.44	1.44	
Metuchen	12.45	2.08	2.08	5.28	6.40	7.14	7.29	7.52	8.11	8.44	8.44	9.18	9.48	10.18	10.48	11.18	11.48	12.18	12.18	12.18	12.18	12.18	12.18	12.18	12.48	1.18	1.48	1.48	1.48	
Edison	12.51	2.11	2.11	5.35	6.40	7.17	7.32	7.55	8.14	8.47	8.47	9.21	9.21	10.21	10.21	11.21	11.21	12.21	12.21	12.21	12.21	12.21	12.21	12.21	12.51	1.21	1.51	1.51	1.51	
New Brunswick	12.55	2.15	2.15	5.35	6.40	7.05	7.21	7.35	8.18	8.25	8.25	8.50	9.25	9.25	9.54	10.25	10.54	11.25	11.54	12.25	12.25	12.25	12.25	12.25	12.54	1.25	1.54	1.54	1.54	
Jersey Avenue	1.02	2.18	2.18	5.38	6.40	7.28	7.42	7.58	8.21	8.21	8.21	8.95	9.28	9.28	10.28	10.28	11.28	12.28	12.28	12.28	12.28	12.28	12.28	12.28	12.58	1.28	1.58	1.58	1.58	
Princeton Jct. S	2.31	5.50	5.50	7.19	7.50	8.34	8.41	9.05	9.41	10.09	10.41	11.09	11.41	12.09	12.41	1.09	1.41	2.09	2.20	2.20	2.20	2.20	2.20	2.20	2.50	1.20	1.50	1.50	1.50	
Trenton, N.J.	2.42	4.58	6.03	7.28	8.01	8.31	8.44	8.52	9.16	9.52	10.15	10.52	11.19	11.52	12.19	12.52	1.22	1.52	2.20	2.20	2.20	2.20	2.20	2.20	2.52	1.22	1.52	1.52	1.52	

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New York, Ny	12.10	12.40	1.30	3.52	4.50	6.10	6.25	6.35	6.50	7.10	7.30	7.33	7.45	7.50	8.05	8.25	8.40	8.50	9.10	9.40	10.10	10.25	10.40	10.54	11.10	11.40	11.40
Newark, N.J.	12.24	12.55	1.44	4.07	5.04	6.24	6.38	6.49	7.04	7.24	7.45	7.47	7.59	8.04	8.19	8.39	8.54	9.04	9.24	9.54	10.24	10.39	10.54	11.24	11.54	12.04	12.40
North Elizabeth	12.31	1.03	1.51	5.11	6.31	6.56	7.11	7.32	7.54	8.10	8.13	8.26	8.46	9.01	9.11	9.31	10.01	10.31	10.46	11.01	11.31	12.01	12.11	12.01	12.11	12.31	1.31
Elizabeth	12.31	1.03	1.51	5.11	6.31	6.56	7.11	7.32	7.54	8.10	8.13	8.26	8.46	9.01	9.11	9.31	10.01	10.31	10.46	11.01	11.31	12.01	12.11	12.01	12.11	12.31	1.31
Linden	12.36	1.56	2.00	5.16	6.36	7.01	7.15	7.37	7.59	8.18	8.31	8.51	9.06	9.18	9.36	10.06	10.36	10.48	11.06	11.36	12.06	12.16	12.06	12.16	12.36	1.36	1.36
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Rahway	12.40	1.11	2.00	5.20	6.40	7.06	7.20	7.42	8.03	8.24	8.36	8.57	9.10	9.18	9.40	10.10	10.40	10.53	11.10	11.40	12.10	12.18	12.10	12.18	12.40	1.40	1.40
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Metuchen	12.45	2.08	2.08	5.28	6.40	7.14	7.29	7.52	8.11	8.44	8.44	9.18	9.48	10.18	10.48	11.18	11.48	12.18	12.18	12.18	12.18	12.18	12.18	12.18	12.48	1.48	1.48
Edison	12.51	2.11	2.11	5.35	6.40	7.17	7.32	7.55	8.14	8.47	8.47	9.21	9.21	10.21	10.21	11.21	11.21	12.21	12.21	12.21	12.21	12.21	12.21	12.21	12.51	1.51	1.51
New Brunswick	12.55	2.15	2.15	5.35	6.40	7.05	7.21	7.35	8.18	8.25	8.25	8.50	9.25	9.25	9.54	10.25	10.54	11.25	11.54	12.25	12.25	12.25	12.25	12.25	12.54	1.54	1.54
Jersey Avenue	1.02	2.18	2.18	5.38	6.40	7.28	7.42	7.58	8.21	8.21	8.21	8.95	9.28	9.28	10.28	10.28	11.28	12.28	12.28	12.28	12.28	12.28	12.28	12.28	12.58	1.58	1.58
Princeton Junction	2.31	5.50	5.50	7.19	7.50	8.34	8.41	9.05	9.41	10.09	10.41	11.09	11.41	12.09	12.41	1.09	1.41	2.09	2.20	2.20	2.20	2.20	2.20	2.20	2.50	1.50	1.50
Trenton, NJ	2.42	4.58	6.03	7.28	8.01	8.31	8.44	8.52	9.16	9.52	10.15	10.52	11.19	11.52	12.19	12.52	1.22	1.52	2.20	2.20	2.20	2.20	2.20	2.20	2.52	1.52	1.52

TRAIN NUMBER

NOTES

NEW JERSEY TRANSIT, NORTHEASTERN CORRIDOR TIMETABLE

Original schedule with redesign by Edward Tufte

From Edward Tufte, *Envisioning Information* (Cheshire, Conn.: Graphics Press, 1990).

The original design (top) is organized with heavy horizontal and vertical divisions. Tufte calls this a "data prison." His redesign uses the alignment of the typographic elements themselves to express the table's underlying structure.

The design of charts and graphs is a rich and subtle area of typographic practice. In a data table, the grid acquires semantic significance. Designers (and software defaults) often over-emphasize the grid, rather than allowing the data to command the page and stake out its own territory.

TYPE CRIME:

DATA PRISON

The rules and boxes used in data tables should illuminate the relationships among data, not trap each entry inside a heavily guarded cell.

ACCOUNT	ACCOUNT NAME	TOTAL FOR ACCO
101001	Instructional Supplies	\$3,65
101002	Office Supplies	\$46
102004	Equipment - Non-Capital	\$1,28
105009	Travel-Conference Fees	\$56
110004	Miscellaneous Entertainment	\$8
114006	Postage/Shipping-Local Courier	\$21
151108	Temp Staff-Contractual	\$7
151181	Honoraria-Critics/Vis Artist	\$1,00
	DEPARTMENTAL EXPENDITURES	\$7,36

118 BEHAVIOUR TO INTOXICATED FRIENDS.

Tabular View.—Experiments on Ants under Chloroform and Intoxicated.

CHLOROFORMED ANTS.						
FRIENDS			STRANGERS			
	To Nest	To Water	Unre-moved	To Nest	To Water	Unre-moved
Sept. 10	...	...	4	...	4	...
14	...	4	...	2 and brought out again	2	...
15	1 and brought out again	1	...	...	2	2
29	...	5	...	...	4	...
Oct. 2	...	5	...	1 and brought out again	4	...
6	...	5	...	...	4	...
	1	20	4	3	20	2
INTOXICATED ANTS.						
Nov. 20	3	2	...	...	5	1
22	2	...	2	...	8	...
In these cases some of the Ants had partly recovered; in the following they were quite insensible.						
Dec. 1	7 none brought out again	2	...	3 all these brought out again	6	...
8	16 none brought out again	5	...	3 all these brought out again	15	...
Jan. 15	...	...	4	...	3	1
17	4 none brought out again	...	...	3 one brought out again	6	...
	27	7	4	2	30	1

INTOXICATED FRIENDS

Data table from Sir John Lubbock, *Ants, Bees, and Wasps* (New York: D. Appleton and Company, 1893).

The author of this experiment studied how ants responded upon meeting either "friends" (members of their own colony) or "strangers." In the first experiment, the friends and strangers were rendered unconscious with chloroform.

In the second experiment, the ants were merely intoxicated. The chloroformed ants—whether friends or strangers—were usually taken for dead and pitched into a moat of water surrounding the colony.

The intoxicated ants were treated with more discrimination. Many of the drunken friends were taken back to the nest for care and rehabilitation, whereas drunken strangers were generally tossed into the moat. Ants, one might conclude, should not rely on the kindness of strangers.

	FRIENDS				STRANGERS				
	LEFT ALONE	TAKEN TO NEST	THROWN IN WATER	BOTH NEST AND WATER	LEFT ALONE	TAKEN TO NEST	THROWN IN WATER	BOTH NEST AND WATER	
SEPT 10	••••						••••		CHLOROFORMED ANTS
14			••••				••	••	
15			•	•	••		••		
29			••••				••••		
OCT 02			••••				••••	•	
06			••••				••••		
TOTAL	04		20	01	02		20	03	
NOV 20		•••	••		•		•••••		INTOXICATED ANTS
22	••	••					•••••••		
DEC 01		••••••	••				•••••	•••	
05		••••••••	•••••				••••••••	•••	
JAN 15	••••				•		•••		
17		••••				••	•••••	•	
TOTAL	06	32	09		02	02	43	07	

Find a chart from an old science book or other source, and redesign it. Shown at left is a nineteenth-century table documenting an experiment about ants. The old design emphasizes vertical divisions at the expense of horizontal ones, and it jumbles together text and numbers within the table cells.

The redesign (above) eliminates many of the ruled lines, replacing them, where needed, with a pale tone that unifies the long horizontal rows of data. The redesigned chart also replaces most of the numerals with dots, a technique that lets the eye visually compare the results without having to read each numeral separately.

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Latest updates:

- Fedra Sans 2.0 released (16 Jul 2003)
- Fedra reviewed by Andy Crewdson (16 Jul 2003)
- Letterletter by Gerrit Noordzij with a 30% discount (09 Jul 2003)
- The Elements of Typographic Style now available (06 Jul 2003)
- A Short History of the Printed Word now available (06 Jul 2003)
- Jigsaw out (18 Jun 2003)

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Fedra Sans 2.0

Light Book Normal Medium Bold

Version 2.0 of Fedra Sans improves the consistency of the font and adds new versions to the type family. Details of the revision are explained in this PDF file.

The articles section is our attempt to collect relevant published and previously unpublished texts, not directed exclusively to academic peers and students, but to a broader audience of individuals with an interest in design criticism, typography and graphic design. At the moment the collection contains over 80 texts in four categories: features, reviews, interviews and essays.

A Try our interactive Font Tester with memory. You can preview and try our complete library of fonts, as well as chat with your friends. Works also with special characters and characters with diacritics.

EBFE 2003

Fedra Serif Greek won the first prize at this year's Greek Graphic Design & Illustration Awards. Both monotypic and polytonic versions are coming soon.

设计将
竞争 Giving you an un
over your compete

Examples of Typotheque fonts in use.






Besides fonts, we offer a small selection of books on type design and typography.

TYPOTHEQUE.COM

Web site, 2003

Designer: Peter Bilak

Multi-column grids provide a logical way to organize Web pages. Content occupies the center; the top and left "margins" are reserved for branding and navigation.

	Fonts Merchandise LetterSetter Free Catalog News	Licensing Tech Support Contact Custom Work Free Fonts	Search: <input type="text"/> <input type="button" value="Find It"/> <input type="button" value="Jump to font kit"/>	Try fonts before you buy, with... 
Your Account				
<p>HOUSE-A-RAMA: \$100</p> <p>View Fonts</p> <p>View Font Specimens</p> <p>View Illustrations</p> <p>View Patterns & Dingbats</p> <p>Try Fonts with LetterSetter</p> <p>HOUSE-A-RAMA</p> <p>BUY IT NOW!</p>	<div style="text-align: center;">  </div> <h1 style="text-align: center;">STRIKE!</h1> <p style="text-align: center;">House-a-Rama Font Kit \$100</p> <ul style="list-style-type: none"> ▪ Three Fonts ▪ 54 Dingbats ▪ 14 Illustrations ▪ Four Patterns <p style="text-align: center;">BUY IT NOW!</p>			

HOUSEIND.COM

Web site, 2004

Designs: Andy Cruz, Tal

Leming, Ken Barber, Rich

Roat, and Bondé Prang

Publisher: House Industries

Like many Web sites, this one places local navigation in the left column and reserves space for branding and global navigation across the top. These components serve as a frame for the content at the center.



AIGA: JAMBALAYA
 Poster, 1997
 Designer: Stefan Sagmeister
 Publisher: American Institute
 of Graphic Arts
*Letters can be made from
 nearly anything, even chicken feet.*