## **GRIDS**

AND PERPENDICULAR LINES FOR LOCATING
POINTS BY MEANS OF COORDINATES; LINES THAT
DEFINE UNIFORM AREAS IN A LAYOUT; A PLAN FOR
DESIGNING FORMATS.

MODULE A STANDARD OR UNIT OF MEASUREMENT;

THE SIZE OF SOME ONE PART TAKEN AS
A UNIT OF MEASURE BY WHICH THE PROPORTIONS
OF A COMPOSITION ARE REGULATED; REPETITIVE
UNITS OF SPACE OR MASS.

SYSTEM · INTERACTING, INTERDEPENDENT, GROUP OF ITEMS FORMING A UNIFIED WHOLE; A MANNER OF CLASSIFYING, SYMBOLIZING, OK SCHEMATIZING; ORDER FROM ARRANGEMENT.

WHY GRIDS? THERE ARE MANY WAYS TO APPROACH
DESIGN PROBLEMS. NO ONE METHOD IS
BEST. GRAPHIC DESIGNERS SHOULD AT LEAST
CONSIDER GRIDS AND HAVE AN INTIMATE WORKING
KNOWLEDGE OF THEM. THEY WON'T HELP SOLVE
EVERY VISUAL PROBLEM BUT OFTEN WILL SUGGEST
A RATIONAL APPROACH.

- ■GESTALT DATA REVEALS THAT HUMANS TEND TO PREFER ORGANIZED VISUAL AND VERBAL INFORMATION. GRID SYSTEMS ALLOW THE DESIGNER TO SATISFY VIEWER GROUPS WITH RESPECT TO EQUILIBRIUM, SIMILIAR/TY, AND CONTINUATION. THBY HELP THE DESIGNER TO AVOID VISUAL AMBIGUITY.
- EGRID SYSTEMS ARE VALUABLE FOR BUILDING "FAMILY RESEMBLANCE" INTO A SERIES OF VISUAL PIECES. CORPORATIONS WHICH PRODUCE HUNDREDS OR EVEN THOUSANDS OF DIFFERENT PRODUCTS MUST DEAL EFFECTIVELY WITH UNIFIED METHODS OF CATALOGING AND PROMOTING THEM THROUGH BROCHURES, SALES SHEETS AND ADVERTISING. IBM AND WESTINGHOUSE UNDER THE GRAPHIC GUIDANCE OF PAUL RAND, HAVE LONG USED GRID SYSTEMS TO BRING ORDER TO THEIR THOUSANDS OF PRINTED PIECES DEVELOPED EACH YEAR. SWISS AND GERMAN GRAPHIC DESIGNEES WITH THEIR DESTILL BAUHAUS ROOTS ARE EXPONENTS OF ORID DESIGN. THE JAPANESE, WITH THEIR TATAMI MAT MODULAR BUILDING SYSTEM HAVE LONG BEEN GRID SENSITIVE, MOST NEWSPAPERS THROUGHOUT THE WORLD HAVE USED GRID-LIKE SYSTEMS TO SPEED LAYOUT AND GIVE A CONSISTENT APPEARANCE.
- ■GRID SYSTEMS CAN WORK WELL FOR SINGLE PRINTED PIECES. WHEN AN ABUNDANCE OF VISUAL MATERIAL (PHOTOS, ILLUSTRATIONS, TEXT, HEADS) MUST BE UNITED

ON A SINGLE FORMAT, GRID SYSTEMS OFFER A
POTENTIAL SOLUTION. ADS, NEWSLETTERS, BROCHURES
ANNUAL REPORTS, MAGAZINES, BOOKS POSTERS, SIGNAGE
AND FILM/TELEVISION GRAPHICS FIT THIS CATEGORY.

- ■GRID SYSTEMS CARRY WITHIN THEM THE ORGANIZATION POTENTIAL TO MAKE EXTREMELY COMPLEX INFORMATION UNDERSTANDABLE. LISTS, TABLES, SCHEDULES, FINANCIAL MATERIAL, SCIENTIFIC DATA, AND LEGAL INFORMATION CAN BE MORE EASILY HANDLED BY USING GRIDS.
- BORING, VISUAL IMAGES AS SOME MIGHT SUGGEST.

  IF A GRID IS LOGICALLY DESIGNED, AND VISUAL

  ELEMENTS ARE EXCITING, THEN THE GRID-DERIVED

  SOLUTION CAN BE EFFECTIVE. GRIDS GIVE YOU

  A PLACE TO PUT THINGS. THE GRID SOLUTION BUILDS

  IN ORGANIZATION. VIEWERS SHOULD FEEL COMFORTABLE

  WITH GRIDS (GESTALT). DESIGN PLACEMENT POSITIONS

  ARE CUT DOWN DRASTICALLY, SPEEDING LAYOUT

  TIME. THUMBNAILS COME QUICKER WITH GRIDS.

  MARGINS, TYPE SIZE, LINESPACING, LINE LENGTH,

  AND PAGE NUMBERING CAN ALL LOGICALLY DERIVE

  FROM A CAREFULLY CONCEIVED GRID SYSTEM.

WHAT IS THE GRID? • THE GRID IS A SKELETAL

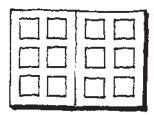
UNDERSTRUCTURE TO BRING

COHESIVENESS TO A VISUAL PIECE, IT'S AN ORGANIZER

AND TIMESAVER AND HELPS BUILD CONTINUITY.



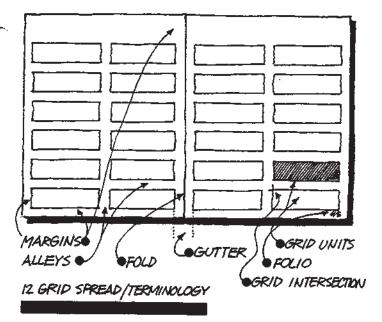
●GIVEN A FORMAT SIZE, LAYOUT A SPREAD (TWO OPEN PAGES). ANALYZE INFORMATION PHOTOGRAPHS, HEADS, CAPTIONS, ETC. REQUIRED.



●DESIGN A GRID. APPLY IT TO THE SPREAD. THIS IS A SIX UNIT GRID. IT DETERMINES MARGINS, GUTTERS, ALLEYS, ETC. THIS IS SKELETON FOR LAYOUT.



●FINALLY, POSITION ELEMENTS
ON THE GRID: HEADLINES,
TEXT TYPE, PHOTOS, ETC. THE
GRID DEFINES, RELATES, AND
SEPARATES VISUAL/VERBAL
INFORMATION



MARGINS. THESE OUTSIDE BOUNDARIES AROUND PAGE
CONTENT CAN BE UNEQUAL IN DIMENSION.
THEY FRAME PAGE OR PANEL CONTENT AND PROVIDE
A VIEWING GROUND FOR IT.

GUTTER . "INSIDE MARGIN", SPACE ON EITHER SIDE

OF THE FOLD. PROVIDES SPACE FOR
BINDING, AND SEPARATES PAGES. ARBITRARY.

ALLEYS. INSIDE HORIZONITAL AND VERTICAL SPACE
CHANNELS WHICH SEPARATE GRID UNITS.
AGAIN, ARBITRARY, THEY HELP SEPARATE HEADS,
TEXT, PHOTOS, AND ILLUSTRATIONS.

GRID UNITS. SPACE MODULES WHICH SET THE BASE

SIZE AND PROPORTIONS FOR PHOTOS,
THE PICA LINE WIDTH FOR TEXT TYPE AND HEADS,
AND RHYTHM FOR THE PANEL OR PAGE.

GRID INTERSECTIONS. WHERE HORIZONTAL AND

VERTICAL LINES CROSS, THEY

CONTROL THE POSITION OF TYPE, PHOTOS, ILLUSTRATIONS.

THEY SERVE AS GUIDENNES FOR PASTE-UP.

FOLIO · PAGE NUMBER AND SOMETIMES VOLUME/DATE
WHICH ARE NEARLY ALWAYS PLACED
CONSISTENTLY (SOMEWHERE) IN THE OUTSIDE
MARGIN.

FOLD. LINE ALONG WHICH THE PAGE IS BOUND.

CENTER OF THE GUTTER, INSIDE

BUINDARY OF PAGE OR PANEL. INTERRUPTION OF

THE SMOOTH PAGE SURFACE. BE CAREFUL ABOUT

RUNNING TYPE OR IMAGES ACROSS THE POLO.

NAMING THE GRID. GRIDS ARE LABELED SIMPLY BY

THE NUMBER OF GRID UNITS IN

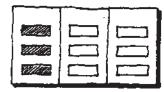
A PANEL. DON'T CONFUSE THE PANEL WITH THE

SPREAD, WHICH IS TWO PANELS OR PAGES. THE

GRID ON THE LEFT IS A 12 UNIT GRID, BUT THE

SPREAD HAS 24 GRID UNITS.





●2UNIT VERTICAL GRID ON A 2PANEL SPREAD

ON A 3 PAVEL SPREAD

NOTICE NEITHER OF THE ABOVE GRIDS IS DIVIDED BOTH VERTICALY AND HORIZONTALLY. THE VERTICALY ONLY GRID HAS COMMON USE IN NEWSPAPERS, NEWSLETTERS, BOOKS, AND MAGAZINES.

DESIGNING GRIDS · GRIDS ARE ARBITRARY, DESIGNERS.

CONTROL THEM, NOT VICE VERSA.

GRIDS ARE ONLY IMPOSED ON THE DESIGNER WHERE

AN EFFECTIVE LAYOUT SYSTEM IS A TRADITION (LIKE
A NATIONAL MAGAZINE WITH A TRACK RECORD), IN

ALMOST EVERY OTHER INSTANCE IT IS THE DESIGNER'S

ROLE TO CREATE A GRID TO SOLVE THE PROBLEM

AT HAND. GRID DESIGN IS REALLY THE KEY TO

SUCCESSFULLY USING THE GRID SYSTEMS APPROACH.

AN INFINITE NUMBER OF DIFFERENT GRIDS ARE

POSSIBLE, BUT ONLY A FEW WILL PROVE REALLY

EFFECTIVE. HOW DO WE FOCUS ON THOSE THAT

PROMISE SUCCESS?

- ■CAREFULLY EXAMINE THE GIVEN VISUAL INFORMATION; HEADS, TEXT, PHOTOS, ILLUSTRATIONS, GRAPHS, ETC.
- ■LOOK FOR SIZE SIMILIARITIES WHERE ITEMS CAN BE GROUPED. POCUS ON PHOTOS AND ILLUSTRATIONS RATHER THAN TYPE HEADS AND TEXT. TYPE IS FLEXIBLE!
- THE SMALLEST PHOTOS OR ILLUSTRATIONS WILL HELP DEFINE THE GRID. THE KEY IS THE SMALLEST USABLE GRID UNIT, WHICH BECOMES THE SYSTEM BUILDING BLOCK.
- ■DIVIDE YOUR FORMAT INTO GRID MULTIPLES, BACH GRID UNIT SHOULD BE THE SAME SIZE, SHAPE (USUALLY RECTANGULAR), SEPARATE THEM WITH ALLEYS, GUITTER.
- BUSE DRAFTING INSTRUMENTS FOR PRECISION. MEASURE EXACTLY IN PICAS. DIVIDERS ARE VERY USEFUL.
- ■LAY GRID ON PASTE-UP SURFACE AND PREPARE

  CAMERA-READY ART. FOR REPETITIVE GRID USE, INK

  THE GRID PRECISELY AND HAVE MULTIPLES PRINTED

  IN NON-REPRO BLUE INK.

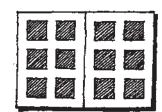
## GRIDS

ABOUT GRID SIZE . A STRONG REASON FOR USING A GRID IS TO PROVIDE PERCEPTUAL ORGANIZATION FOR AN AUDIENCE. WHEN CHOOSING THE NUMBER OF GRID UNITS BEWARE OF TOO MANY OR TOO FEW. DESIGNERS CAN NOT COMMUNICATE EFFECTIVELY ABOVE OR BELOW THE PERCEPTUAL LIMITS OF A VIEWING AUDIENCE. VIEWERS MUST BE ABLE TO DECIPHER A GRID AND SENSE ITS COHEREUCE TO BE COMPORTABLE. TWO OR THREE GRIDS PER PANEL ARE TOO FEW MODULES. 72 OR 124 ARE TOO MANY, AS THE AUDIENCE HAS GREAT DIFFICULTY SOFTING OUT THE ORGANIZATION. THE MORE GRID MODULES AND INTERSECTIONS, THE MORE LAYOUT POSITIOUS EXIST FOR THE DESIGNER, HOWEVER SMALL GRID UNITS ARE DIFFICULT TO CONSTRUCT, IMPEDE DECISION MAKING AND ARE NOT COMFORTABLE TO THE AUDIENCE. THE GOAL THEN IS TO ADJUST CONTENT TO THE NUMBER OF GRID UNITS WITHIN A ZONE OF PERCEPTUAL ACUITY. CHALLENGE THE AUDIENCE VISUALLY, BUT DON'T COMPLETELY REMOVE CLUES TO THE GRID.

USING GRIDS . IT IS IMPORTANT TO UNDERSTAND THAT **EVEN THE WELL-CONCEIVED GRID,** ACCURRATELY DRAFTED WILL NOT INSURE EFFECTIVE DESIGN. THE GRID CAN ONLY PROVIDE LOGICAL POSITIONS FOR PLACING VISUAL MATERIAL, NOTHING MORE, DESIGNERS MUST USE THE GRID CREATIVELY TO MAXIMIZE COMMUNICATIONS POTENTIAL. WHERE SHOULD I PUT IT?" IS A QUESTION THAT GRIDS CAN HELP ANSWER.

WHERE TO PLACE GRAPHICS . GENERALLY, KEEP CONTENT INSIDE THE ORID UNITS AND OUT OF THE MARGINS, GUTTER AND ALLEYS. THESE SKETCHES SHOW FULL EMPTY ZONES.





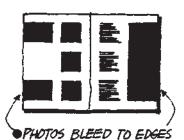
BALTHOUGH THESE GRIDS ARE YERY SIMPLE, THE INHERENT ORBANIZATION IS OBVIOUS. THE GRIDS ARE TOTALLY FILLED AND WE PICK UP THE PATTERN AND RHYTHM OF THE REPETITIVE MODULES. NOTICE HOW EACH GRID UNIT IS TOTALLY FULL, NOT PARTIALLY USED. OR HALF EMPTY.





BUSING THE IDENTICAL 6 UNIT GRID, NOTICE SOME SIMPLE VARIATIONS. PHOTOS EXPAND TO FILL 2 AND 3 UNIT HORIZONTAL GRIDS. THE LARGE PHOTO EXPANDS TO FILL 4 COMPLETE UNITS. NOTICE HOW THESE PHOTOS EXTEND ACROSS ALLEYS. ONE GRID IN THE LEFT HAND SKETCH IS EMPTY. ALL MODULES DO NOT HAVE TO BE FILLED. THE GRID AND ITS VISUAL COHERENCE ARE STILL APPARENT.





**●**PHOTOS BUTT TO GUITER

HERE WE USE THE SAME 6 UNIT GRID AND BLEED" OR RUN OUR PHOTO'S OFF THE EDGE OF THE SHEET.

WE ALSO BUTT OR RUN OUR PHOTOS TO THE FOLD LINE ACROSS THE GUTTER. SEE HOW THE TEXT TYPE BLOCK CAN ALSO FILL CONSECUTIVE GRIDS BY FLOWING ACROSS ALLEYS.



**CLARGE PHOTO BUTTS TO** GUTTER AND BLEEDS TOP AND RIGHT SIDE

PHOTOS BLEED TO TOP AND BOTTOM EDGES

MABOVE ARE TWO GREATLY DIFFERENT LOOKS USING THE SAME 6 UNIT GRID. BLEEDING AND BUTTING PHOTOS AND ILLUSTRATIONS ARE USEFUL TECHNIQUES FOR ADDING VARIETY TO GRID LAYOUTS, WHILE RETAINING VISUAL ORBANIZATION. REMEMBER, YOU CAN ALSO BLEED A VISUAL IMAGE AND COVER ONE OR TWO ENTIRE PANELS. NOTICE THE TEXT TYPE DOES NOT BLEED OFF THE PAGE, AS THAT MIGHT SERIOUSLY AFFECT CONTENT READABILITY.