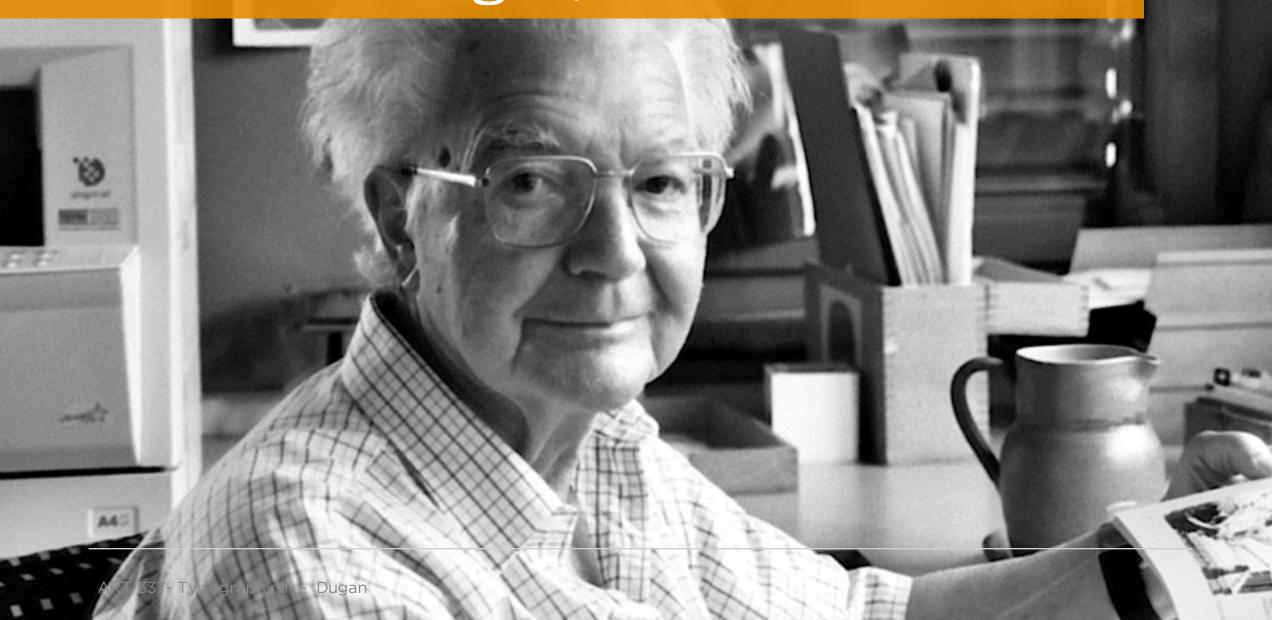
Grids and layout

Or: build your house on a strong foundation

Adrian Frutiger, 1928-2015



Adrian Frutiger, 1928-2015

Egyptienne (1956)

abcdefghijklmnopqrstuvwxyz 1234567890 ABCDEFGHIJKLMNOPQRSTUVWXYZ The quick young fox jumped over the lazy dog.

Univers (1957)

abcdefghijklmnopqrstuvwxyz 1234567890 ABCDEFGHIJKLMNOPQRSTUVWXYZ The quick young fox jumped over the lazy dog.

OCR-B (1968)

abcdefghijklmnopqrstuvwxyz 1234567890 The quick young fox jumped over

Frutiger (1976)

abcdefghijklmnopqrstuvwxyz 1234567890 ABCDEFGHIJKLMNOPQRSTUVWXYZ The quick young fox jumped over the lazy dog.

Centennial (1986)

abcdefghijklmnopqrstuvwxyz 1234567890 ABCDEFGHIJKLMNOPQRSTUVWXYZ The quick young fox jumped over the lazy dog.

Avenir (1988)

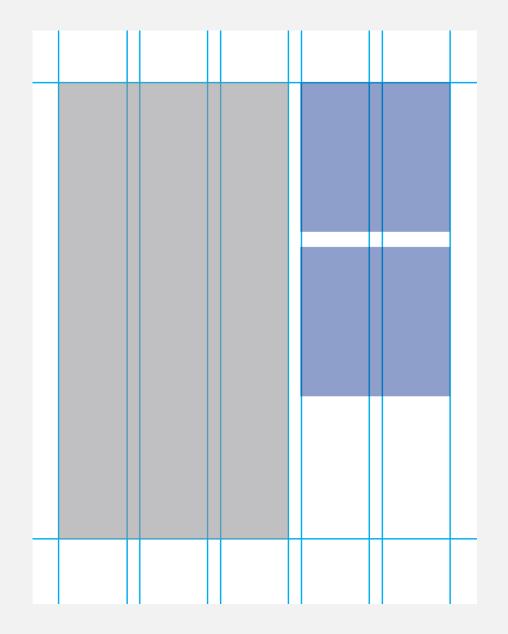
abcdefghijklmnopqrstuvwxyz 1234567890 ABCDEFGHIJKLMNOPQRSTUVWXYZ The quick young fox jumped over the lazy dog.

What are grids and why do I care?

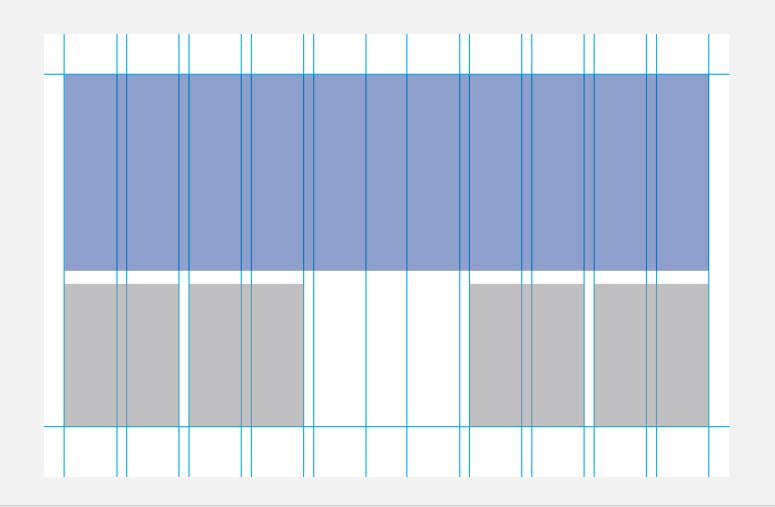
- Grids add consistency
- Grids add structure
- Grids add flexibility

Grids offer you the ability to BREAK THE GRID

Wow, grids!



Think about spreads vs. pages



Let's look at InDesign

Gold for calainques, brochures and leafers

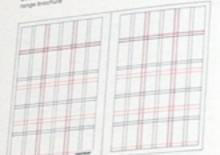
Rester für Kateloge, Prospekte and Enterprises. Doppelaette aus dem Produkte-

Programm-Prospekt

range of products Inside and outside page of an accessories brochure

Front and back page of a prochure featuring a company's

Vor- und Rückseite eines Produkte-Programm-Pro inner- und Aussenseite des Zubehör-Prospekter









Bedeutende Firmen haben das Erscheinungsbild mit seinen formalen und farblichen Aspekten in Form eines Design-Manual sachen, Formulare, Aussenasschriften, TV-Spots, Ausstellus, festpelegt und als verbindliche gen usw. Der für des Unternet-Richtlinie für die dafür verantmen charakteristischen Farbugh wortlichen Mitarbeiter bestimmt. kommt eine grosse Bedeuting zu

Leading companies have defined their corporate image in terms of its formal and colour aspects and recorded them in a design manual to which the staff responsible for such matters

Sefore a grid can be devised for a corporate image, all the firm's documents to which the design is going to apply must be made available.

If the firm wishes to have a new device or a word trademark devised, the role of such a device

Bevor der Raster für ein Erscheinungsbild konzipiert werden kann, müssen alle Unterlagen des Unternehmens. die pestellet werden sollen, zur Vertigung stehen. Wenn das Unternehmen ein neues Signel oder eine Wortmarke entworfen haben möchte, muss das Signet oder die Wortmarke auch im Hinblick auf das zu konzipierende Erscheinungsbild

mortage Districtable 570

überdacht werden. Zur Konzeption gehören die überlegungen indezug auf einheitliche Druck1.14 100 bright of product brochures





the display faces with the titles. on the following pages. Grid with 30 fields Typeface: display sans serif 4 colours Format: A 4, 29.7 × 21 cm

Titelseiten von Produktprospekten







Die Fotos alinieren mit den Abbildungen auf den innenseiten, ebenso die Titelschriften mit den Titeln der folgenden Seiten. Raster mit 30 Feldern. Sphrift: Aktidenz-Grofesk,

Die Umschlagseiten aller Prospekte sind, analog den Innenseiten, auf der Basis des für alle Drucksachen verbindlichen Rasters gestaltet. Schriftype und Schriftgrössen bleiben sich Die Broschüren mit dem gesam-Format: A.4, 29,7 x 21 cm. ten Produkte-Programm haben

in the conception of the design, thought must be given to uniformity of printed matter, forms, external notices. TV spots, exhibitions, etc. Particular importance also attaches to the selection of policyr as a characteristic of the firm.

ART 337- Typography II - Dugan

image to be designed.

school, industry etc.

of application; one-family house, housing development, district, The photos align with the Illusretions on the inside pages and

The cover pages of all brochures

ye like the inside pages, design-

ed on the grid which has been

laid-down for all printed matter.

The size and kind of typeface

For the cover of brochures devol-

ed to the whole product range

nater has been chosen which

gatepishes them pictorially

products. The products are

ton the brochures for individual

presented along with their fields

special photographic subject

remain the same.

für den Umschlag eine spezielle. Foliphematik, die sich eindeutig. von der Bildkonzeption der Prospekte für die einzelnen Produktdarstellungen unterscheidet. Die Produkte sind mit ihren Amendungsbereichen Einfamilierhaus. Siedlung, Quartier, Schule, Indu-

strie usw. präsentiert.

gleich.

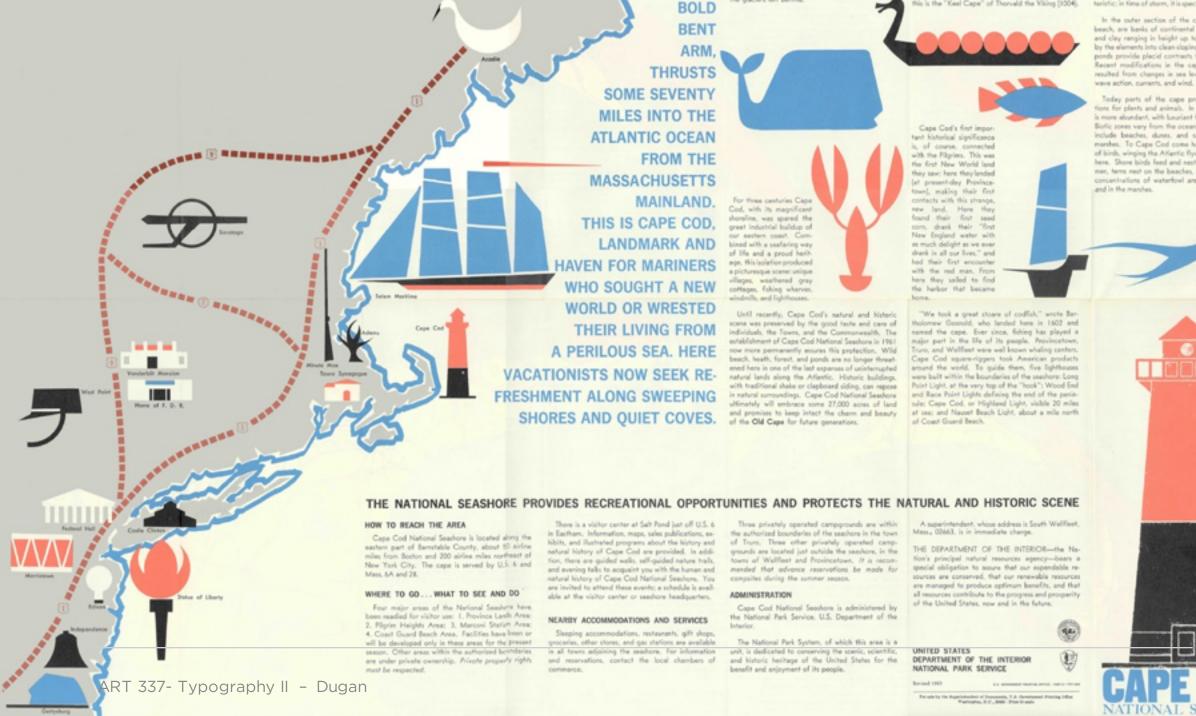
What is the Swiss Grid?

- Rose to prominence after the Second World War
- Uses a clear, concise grid structure
- Sans-serif type used almost exclusively
- Photography instead of illustration
- Non-justified type
- Basically a response to the overblown, highly decorated advertising design of the day.

Modular grid systems

The U.S. Park Service





this is the "Keel Cape" of Thorvald the Viking (1004). teristic; in time of storm, it is spectacular and dramatic

> In the outer section of the cape, rising from the beach, are banks of continental glacier gravel, sand. and clay ranging in height up to 175 feet and sliced by the elements into clean-sloping cliffs. Glacial kettle ponds provide placid contrasts to the nearby ocean. Recent modifications in the cape topography have resulted from changes in sea level and the forces of

Today parts of the cape provide rugged conditions for plants and animals. In protected areas, the is more abundant, with fusuriant forest in some places. Biofic zones vary from the ocean to the highlands and include beaches, dunes, and salt- and fresh-water mershes. To Cape Cod come hundreds of thousands of birds, winging the Atlantic flyway to neet or soloum. here. Shore birds feed and next on the flats: in summer, terms next on the beaches, and, in winter, major concentrations of waterfowl are found just offshore more comfortable than shorts.
Your uniformed National Park Service tour leader, trained in cave guiding, will explain the origin of Wind Cave and compare it with other caverns. He will explain its wind, or "breathing," the properties and origin of limestone and calcite, and the crystal formations, chert layers, and fossils.

The fee for each trip does not apply to adult-escorted children under 12 years of age, or to groups of elementary and high school students and accompanying adults responsible for their safety and conduct.



sea in the Mississippian period some 300 million years ago. Since deposition of this limestone, several periods of elevation and subsidence have occurred. During periods of submergence, the Pahasapa limestone was covered by other sediments, several hundred feet thick. The final uplift of the land here from beneath the sea began at the end of the Cretaceous period, some 60 million years ago. During this time, geologists believe, the formation of Wind Cave began. The limestone layer, subjected to uplift or warping, became fractured. Cracks close together served as the pattern for the characteristic "boxwork." The boxwork was formed when rainwater seeped down from the surface through decaying vegetation, absorbing carbon dioxide, which made the water acid and capable of dissolving limestone (calcium carbonate). This carbondioxide-bearing water took some of the limestone into solution; then, evaporation of the water caused the calcium carbonate to be deposited in the cracks and crevices below as calcite (the crystal form of calcium carbonate). Later the more soluble limestone, between the calcite plates, dissolved, leaving the formation of calcite "fins" we call boxwork. Besides the predominant boxwork formation, displays of unusual "frostwork" and "popcorn" are found. About 11/4 miles of the 41/2 miles of explored passages are electrically lighted along trails that descend some 326 feet to the lowest point. But most of this honeycomb of underground chambers remains in primitive condition and much is unexplored.

extensive diary in which he named the rooms, interesting formations, and chief routes, estimated distances, and
kept a record of explorations. A plaque
now marks his grave near the cave entrance.
In 1892, the elder McDonald, along with several others,
including John and Charles Stabler, formed the
"Wonderful Wind Cave Improvement Company" and
took over the property. This company opened
passages and built stairways.
These were years of controversy, much of it in the courts,
between the Stabler and McDonald families over

These were years of controversy, much of it in the courts, between the Stabler and McDonald families over ownership of the land. However, both families continued to operate the cave and guide visitors until administration of the area was assumed by the U.S. Department of the Interior. On January 9, 1905, President Theodore Roosevelt

On January 9, 1903, President Theodore Roosevelt signed a bill establishing Wind Cave National Park.



Camping. Please use the designated campground and keep it clean and sanitary. Place empty cans and garbage in containers provided for that purpose.

Caue trips. You are not permitted to enter the cave unless conducted by a uniformed National Park Service representative.

YOU and It is reckless and dangerous to approach a bison the on foot; it may turn impulsively and inflict serious injury.

BISON Do not feed, tease, frighten, or molest this animal in any way; such foolhardy acts are violations of park regulations.

Stay on the road in your car to observe the bison.

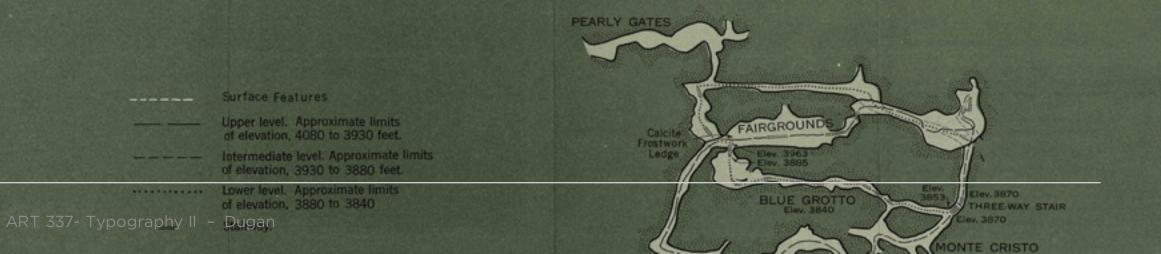
Hunting is not allowed in this wildlife sanctuary.

Firearms are permitted within the park
only if they are packed to prevent their use.

Pets must be physically restrained at all times. They are
not allowed in the cave or public buildings
within the park.

Traffic. Drive carefully at all times to protect yourself, other visitors, and wildlife. Please obey the speed limits posted along park roads. Do not drive off established roads; doing so damages the grasslands.

UNDERGROUND CAVERNS • WIND CAVE



and Sterra chinquapin are the most common struct



One of the loveliest seasons is early summer when Lassen's remarkable wildflower show begins. Among the earliest are the beautiful crimson-colored snowplants. These are soon followed by paintbrush, monkeyflowers, lupines, penstemons, bleedinghearts, and many others-a continuous display from June until late September.

There are over 700 varieties of plants in the park. For plant identification we recommend the Flowers of Lassen, Trees and Shrubs of Lassen, and A Flora of Lassen Volcanic National Park. These and other sales publications are available at the Manzanita Lake Visitor Center and park headquarters. (A list may be obtained from the Loomis Museum Association, Lassen Volcanic National Park, Mineral, Calif. 96063.)

Please leave the plants undisturbed for others to enjoy. They are protected for all to see.

Wildlife. National Parks are sanctuaries for the animals inhabiting them; as a consequence, the animals' instinctive fear of man has lessened. In mountain meadows on summer evenings, the black-tailed deer may semetimes be approached quite closely. Ground squirrels and chipmunks are numerous and usually unafraid of people. The raucous Steller's jays and tiny mountain chickadees will clean up crumbs from your picnic table.

Remember, however, that the animals are still wild and must not be fed, petted, or molested. If annoyed, deer may strike out with sharp front hoores and can inflict serious injury. The friendly squirrels and chipmunks may bite if you try to feed them, which can result in infection. Dangerous diseases are sometimes transmitted from these animals to humans.

Animals you might see along the roadside are marmots, tree squirrels, coyotes, and martens-and porcupines occasionally at night. Pikas, or conies, can be heard or seen on rocky hillsides; beaver, and sometimes bear, are found in Warner Valley.

More than 150 species of birds have been found in the park. The variety of habitat offers nesting sites, food, and cover for many different groups. Mallards and coots raise their families on Manzanita Lake; several species of woodpeckers may be seen or heard busily searching for food; and both golden and bald eagles sometimes sour majestically overhead.

o Buttle Lake

the country as a macksmith, he acquired a sarge parcer or land near the present town of Vina, Calif. During the gold rush days he guided emigrants from the east across the mountains into the Sacramento Valley, using the peak as a landmark and his rancho as a hostel.

Lassen Peak and Cinder Cone were designated as National Monuments on May 6, 1907. Eruptions in 1914 and 1915 drew nationwide attention to the mountain and expedited the establishment of the National Park on August 9, 1916.

The Indian story and history of the park are presented in Indians of Lassen, Lassen-His Life and Legacy, and A Pictorial History of Lassen Volcano.





programs are held at Manzanita Lake, Summit Lake, and Butte Lake campgrounds; talks on Indian lore are given at the museum; and an illustrated program is shown every half hour at the visitor center. Schedules are posted and are available at the visitor center and at ranger stations.

Self-guiding trails are near Butte Lake, Bumpass Hell, Sulphur Works, Warner Valley, and the Manzanita Lake Visitor Center. Guide leaflets are available at the respective trails. Pushbutton audio stations are located at Chaos Jumbles, Devastated Area, and the Lassen Peak trail parking area, telling the story of these features.

Driving. Many of the important features of the park can be seen from the Park Road, which half encircles Lassen Peak. Numbered posts are keyed to brief descriptions in the Park Road Guide-for sale at entrance stations.

Be careful of the many sharp curves, and do not exceed speed limits (maximum 45 miles per hour). Watch for animals crossing the road, particularly at night. Help prevent fires-use your ashtray; deposit all trash in a litterbag until you come to a trash barrel.

Comping and plenicking. Four campgrounds and five picnic sites are located along the Lassen Park Road. Others are at Butte Lake, Juniper Lake, Horseshoe Lake, and Warner Valley. The campgrounds at Manzanita Lake, Summit Lake, and Butte Lake have modern conveniences and spaces for trailers (no hookups for electricity, water, or sewage). Camping is available from mid-May to October-depending on the length of the winter season

volcanoes, and lava flows. Trails are well marked and easily followed. The booklet Lassen Trails and a copy of the topographic map of the park are helpful in deciding which trails to take in an allotted time. For your own safety and to help maintain the trails, please avoid taking shortcuts. No pets or vehicles, including bicycles, are allowed on the trails.

Fishing. Many of the lakes and streams in the park are stocked with rainbow, brook, and brown trout. You may fish anywhere except in Emerald Lake, Manzanita Creek, and within 150 feet of the inlet to Manzanita Lake. You'll need a California fishing license, obtainable at Manzanita Lake Lodge. Complete fishing regulations should be read before starting to fish.

Souting. Rowbouts, canoes, and other craft may be used on any lake except Reflection, Emerald, Helen, and Boiling Springs. (Motorbouts are prohibited on all lakes in the park.) Follow the safety rules of boating; large lakes can become quite rough in windy weather.

Firearms must be sealed, cased, broken down, or otherwise packed to prevent their use while in the park.

Pets are allowed in the park if they are kept under physical restraint at all times and do not create a nuisance.

As a reminder. So that others may enjoy what you have seen, do not break any formation or take any mineral or rock specimen; do not injure, molest, or disturb any animal or plant.



DISTANCES IN THE PARK

The state of the s		hwest ance	
Miles	Feature	Miles	
0.0	Southwest boundary. Raker Memorial Gateway.	29.7	
.4	Southwest entrance station. Obtain auto per- mit and declare firearms on entering.	29.1	
2.0	Sulphur Works. Thermal area, steam vents, mud pots, self-guiding trail.	27.7	
4.0	Road winds about Diamond Peak. Fine vistas.	25.7	
6.7	Emerald Lake. Rainbow trout can be seen from the shore. No fishing.	23.0	
7.1	Bumpass Hell Self-guiding Trail. 1.3-nile walk to largest hot springs area in the park; 1 1/2- to 2 1/2-hour round trip; alpine flowers along trail.	22.6	
7.2	Lake Helen. Named for Helen Brods, first	22.5	
	white woman to climb Lassen Peak, 1864.		
7.9	Lassen Peak Trail. A 2 1/2-mile trail to sum-	21.8	

mit, elevation 10,457 feet; 3- to 5-hour

summer. Take your time hiking at this

high elevation?

LASSEN VOLCANIC NATIONAL PARK Campground Payed Road Ranger Station Gravel or Dirt Road Fire Lookout Trail SUTTE LAKE N Neture Trail Development LOCKED GATE VISITOR CENTER round trip Animalia Conference VID Graphy II - Dugan

Yisiting HTKIO



he Indians lived in Death Valley through all the seasons. Like them, you can enjoy the valley floor in winter and the mountains in summer. For a few weeks in spring and autumn the weather is equally pleasant throughout the monument. The season is at its height in winter when the weather in Desert some the valley is finest, with warm days and cool, bracing nights. In summer,

the heat in the valley becomes so intense that some of the side roads are closed for public safety. However, the main roads are patrolled frequently, and you can drive safely and comfortably to the valley and into the mountains,

Summer travel to Death Valley National Monument is on the increase; there are now about 15,000 visitors per month even during the hottest weather. You are advised to visit the lower elevations before noon and the higher elevations, which are delightfully cool, in the afternoon.

During the summer pick up the mimeographed sheet HOT WEATHER HINTS-at distribution boxes at the entrances to the National Monument, or at the visitor center. These hints will help make your summer visit a safe and pleasant one.

SIGHTS AND SIDE TRIPS

■ Park Village at the Furnace Creek easis is the main center of visitor activity and includes accommodations at Furnace Creek Inn and Ranch, bur, grocery store, service station, curio shop, Borax museum, the National Monument headquarters and visitor center, and two campgrounds. During the summer, only the campgrounds, gas station, and visitor center are

The visitor center museum gives you a survey of the netural history and the history of Death Valley National Monument. Publications, including trail guides, are sold at the information desk in the lobby. Evening programs are offered in the auditorium in winter.

The Borax Museum, operated by the U.S. Borax and Chemical Corporation, presents the story of mining in Death Valley. Mining machinery and equipment are on display outside.

■ Dentes View is 60 miles round trip from Park Village, including three side trips on the way. Allow 2 or 3 hours. Going east on Calif. 190 you come to a short spur road to Zabriskie Point. The overlook offers a view of the valley and a study of colorful lake sediments.

A few miles further southeast brings you to the one-way entrance to the loop through 20-Mule Team Canyon, Beyond this, the side trip to Ryan will provide you with a good view of

the Furnace Creek Wash area and the colorful footbills. At Ryan you will also have a chance to see a mining town in moth balls,

Another 12 miles of climbing will take you up to Duntes View. The great expanse of the valley extends north and AR, heary 3/00 to type our 2000/sches from Digg 3/0c, the Panamint mountains build up to Telescope Peak, a mile higher than where you stand. Directly below is Badwater, the lowest point in the United States.



Salt Creek

LEGEND

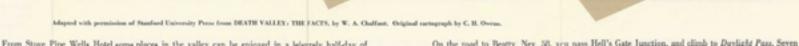
Ranger Station

Paved Road -

Secondary Campground A

Gravel or Dirt Road ----

Campground A





Massimo Vignelli

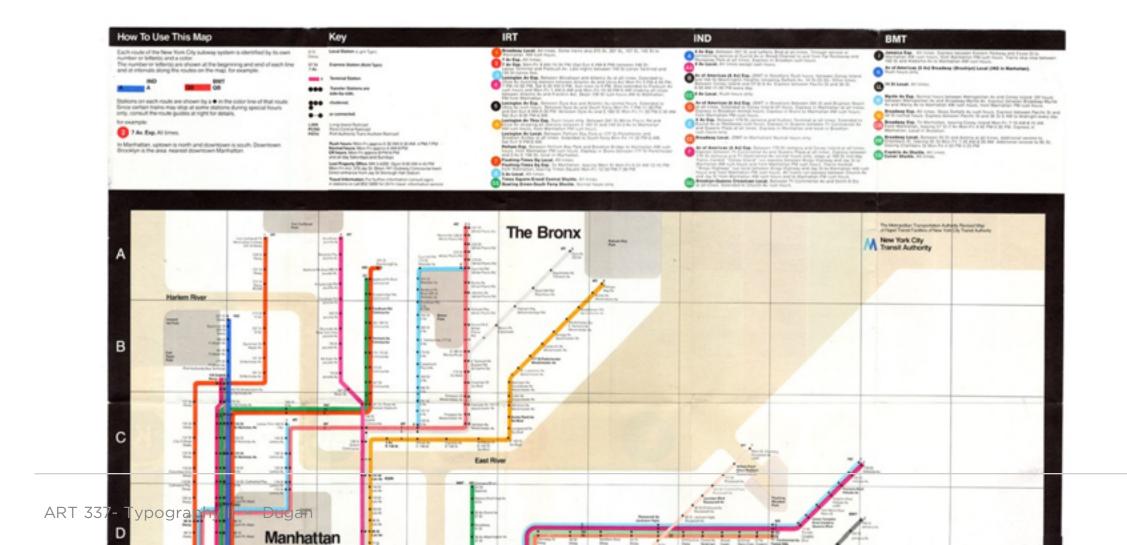
- Born in 1931
- Founded the US office of Unimark International
 - Ford Motor Company
 - New York Transit Authority
 - Knoll
 - Bloomingdale's



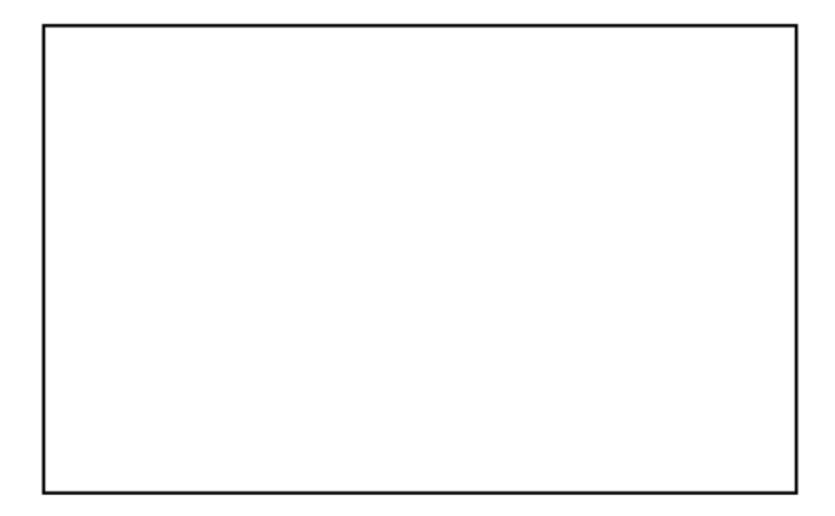




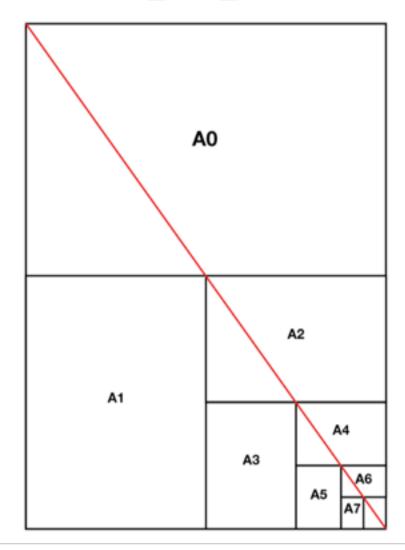
Recognize that?

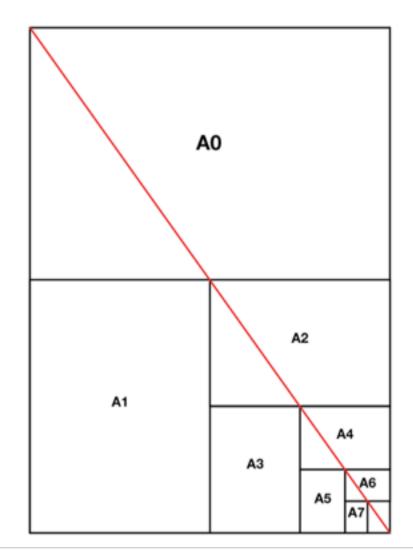


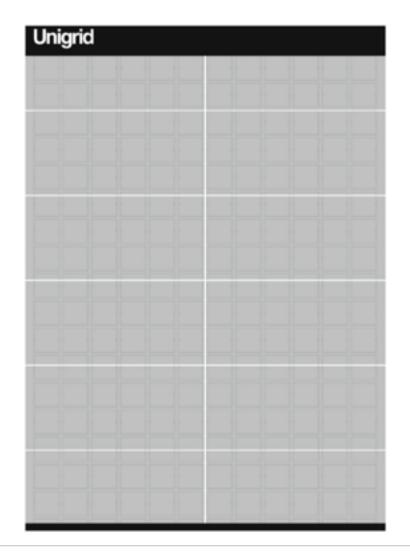
The Golden Section



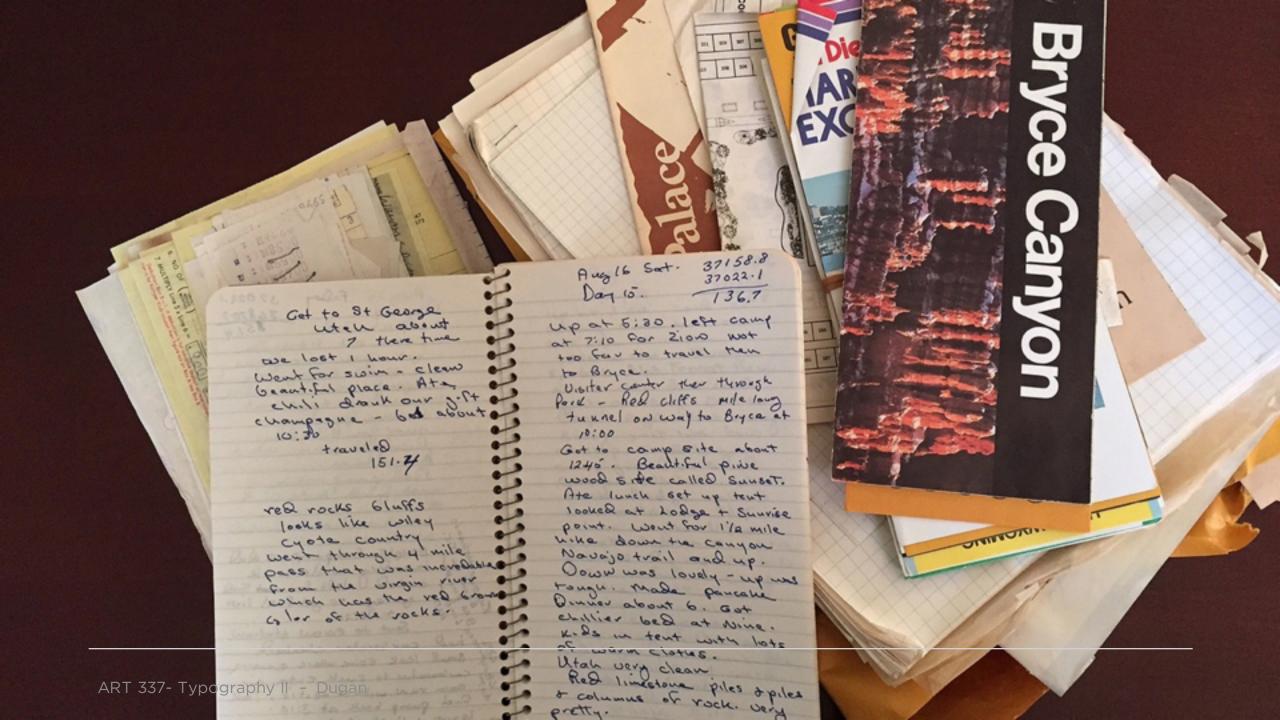
The A paper sizing standard







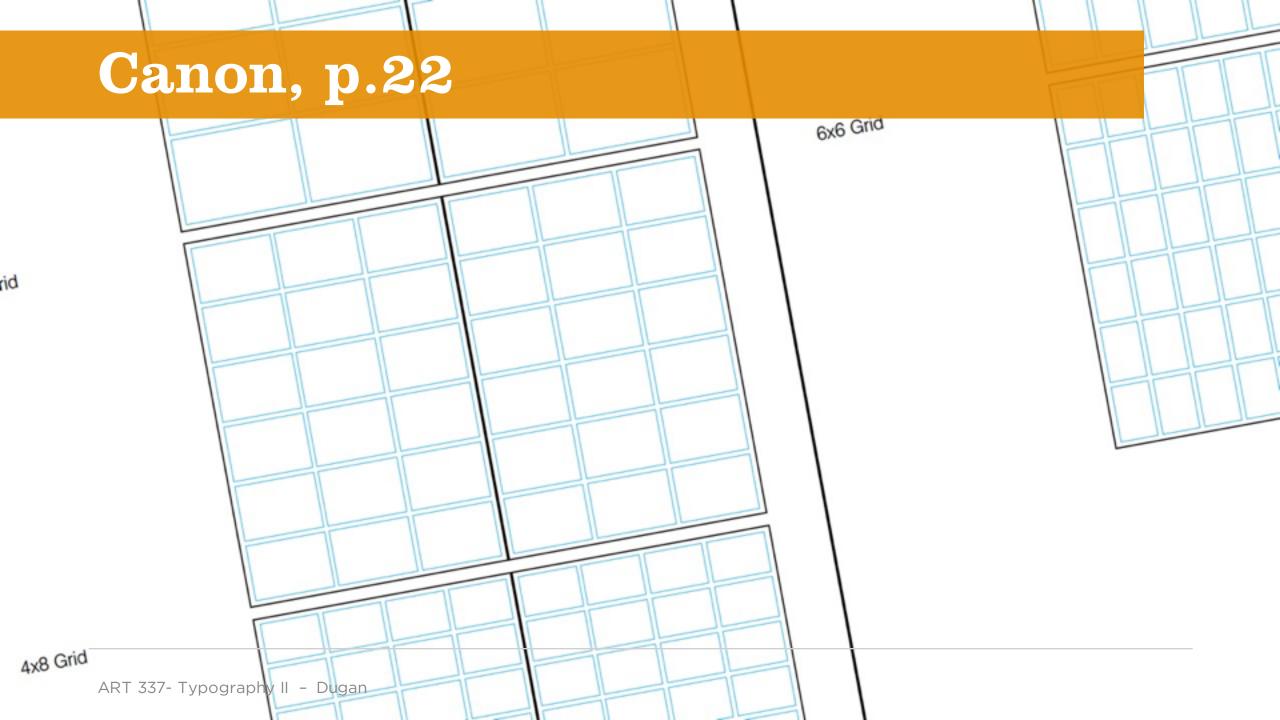




Vignelli:

"The grid represents the basic structure of our graphic design, it helps to organize the content, it provides consistency, it gives an orderly look and it projects a level of intellectual elegance that we like to express."

-Canon



Grids are also fundamental for web design

- <u>Skeleton</u> responsive framework
- The Washington Post

Bibliography

- Ellen Lupton, Thinking with Type
- Josef Müller-Brockmann, *Grid Systems in Graphic Design*
- http://npshistory.com/brochures/unigrid/index.htm
- Kimberly Elam, Geometry of Design, Grid Systems, Typographic Systems
- Massimo Vignelli, Canon