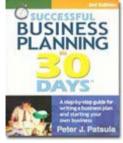
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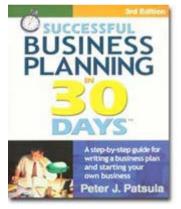
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This is a must read for anyone before starting your own business.

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### "Harry, you better not be up to no good in there!"

Smallbusinesstown.com

## **CREATING "EYE CATCHING" GRAPHICS**

IT is not uncommon for an advertising agency to spend over \$10,000 for the production of one photograph to be used as the main visual for an ad.

Although this may seem like an inordinate amount of money to someone not familiar with the advertising business, when you consider that a further \$100,000 can easily be spent securing national advertising, this initial amount isn't much.

However, if you don't have \$10,000, let alone \$100,000, and you still want to create an interesting visual for a local flyer or newsletter, you are pretty much out of luck.

**Unless . . .** you master a few tricks of the trade yourself.



## TAKING YOUR OWN PHOTOS

TAKING YOUR own photos will allow you to indulge your creative instincts and in the process learn what A beautiful photomakes a good photo work. This graph in an art book skill will also enable you to make is worth at least a more intelligent ad design decithousand words. But sions. You should also consider in an advertising taking your own photos for the piece, if a beautiful following three reasons: photograph doesn't

- Professional photographers are expensive and put you at the mercy of their schedule not yours.
- So called free lance photographers are typically not much better than you except they have better equipment.

**3.** When starting out, you may have time to kill, but not money.

**NOTE** In Guidebook #62, you will find 21 kinds photos and visuals you can use to

complement the content of your ads. In this guidebook, however, you will learn more specifically, how to create your own photos and visuals from scratch.

#### Selecting the Proper Equipment

*exactly* The major prerequisite for taking a decent business photo is decent equipment, not an uncanny eye for detail or beauty. For starters, you will need:

a camera

sell, it's worth exactly

one word. "NEXT!"

**FUNQUOTE** 

• a hand held exposure meter

- an assortment of lenses
- assorted lighting equipment
- slave trigger units
- a long distance triggering mechanism
- a rock solid tripod

Camera – Purchase a Canon,to talOlympus or Pentax 35mm work-<br/>horse, with automatic focus. Thesepredbrand name cameras and onescidesimilar in price and quality offer you<br/>the range you need. Also, considerlight<br/>the spurchasing a good quality Polaroid<br/>camera. Polaroid cameras can give<br/>you instant pictures, making them<br/>very handy for research purposes (e.g.,<br/>spying on the competition, analyzing loca-<br/>tions and surveying customers), recording

All professional photographers use a hand held exposure meter to take more precise measurements on incident light – the light falling on the subject – to create the exact effect they want.

inventory and capital acquisitions, experimenting with photo composition before taking final pictures, and helping express your design ideas to a real photographer. And besides that, their fun.

**Exposure Meter** – Although most cameras have exposure meters built in, these meters are limited in their use. They measure only the reflected light off the brightest part of the photo being taken. All professional photographers thus use a handheld exposure meter to take more precise measurements on incident light - the light falling on the subject – to create the exact effect they want. This kind of meter has a translucent plastic dome or disk to diffuse the light before it reaches a light-sensitive

metering cell, thereby producing a miniat-

turized version of what is called "18 percent gray" for the cells examination. To meter accurately in this mode, you need to stand in front of the camera and point the meter back at the lens.

**NOTE** Many handheld meters are designed to take both incident and reflected light readings. However, in this case two separate lightsensitive cells are required.

Lenses – For commercial photography, it is paramount that you have a high quality macro and wide angle lens for close-ups and pictures of buildings. For fashion photography however, you will also need a telephoto lens – minimum is 85mm although 180mm is preferred.

For commercial photography, it is paramount that you have a high quality macro and wide angle lens for close-ups and pictures of buildings.

Many fashion photographers prefer using a telephoto lense for the following reason: the greater the focal length of the lens, the greater the compression of the image. This compression effect removes perspective and flattens the subject. It prevents a model's arms and legs from appearing out of proportion when she walks towards the camera. It also concentrates more image into the frame and as a result draws more attention to the fashion. Another strength of the telephoto lens lies in its ability to control space. To frame a picture properly, you won't have to move back and forth.

*Fisheye Lens* – A lens with extreme angle of coverage varying from about 120 to 180 degrees.

*Macro Lens* – General term for a lens designed for clasp photography but also capable of good results at unit magnification (lifesize).

Barn Doors -

tached to the

and used to

control light

spread, for

keep flare-

causing light

from entering

the camera.

Opaque flaps at-

edges of a light

shading effects

in the set, and to

*Macro-Zoom Lens* – A type of zoom or varifocal lens that offers an additional feature of a close-focus capability but almost never approaching same-size imagery that would truly qualify it for the Macro title.

*Telephoto Lens* – A long focus lens. A super telephoto lens has a focal length from 200 to 800 mm.

Zoom Lens – A lens that can vary its focal length. Zoom ratios of 2:1 to 6:1 are available for 35-mm still photography.

NOTE If you can only afford one lens,

purchase a 28 mm to 100 macro zoom lens. The 28 mm allows you to take scenery pictures, the 100 mm telephoto can

> give you enough compression to flatten images as well as the capacity to move in very close, and the macro allows you to take close-ups of objects.

Lighting Equipment – Basic lighting equipment includes two 1400watt power packs with three strobe heads; one wide-angle reflector; one narrow reflector; one pair of barn doors; and a snoot. You also may need: a strobe soft-light; one silver umbrella; and six white foam core reflector pads.

Barn Doors – Opaque flaps attached to the edges of a light and used to control light



spread, for shading effects on the set, and to keep flare-causing light from entering the camera. Two, with one on each side, or four with additional top and bottom flaps, are typically used. The flaps are hinged and blackened so the light spread can be continuously restricted.

Snoot – A tube fitted over a light source to concentrate light on a small area. Snoots for studio lights are usually made of metal to withstand heat and are straight or coneshaped with light openings of various sizes. A flexible, folding snoot can be used on the head of an on-camera electronic flash unit.

**Slave Trigger Units** – In order to sync your lighting equipment, you will need an accessory slave trigger unit that can be

When shooting with slow speed film or at night, you will need a tripod.

plugged into the synchronizing lead of a flashgun. A slave unit then reacts to light from another flash usually your camera, and instantaneously fires in full synchronization.

#### **Triggering Mechanism** – An extension

triggering mechanism allows you to observe as many factors as possible while your are taking a photo to make sure that all the lightening equipment has functioned properly and the desired effect achieved. It also prevents accidental jarring of the camera and distortion of the image caused by the pressure of the finger on the camera button.

**Tripod** – When shooting with slow speed film or at night, you will need a tripod. Tripods are also good for getting exactly the same shot at different exposures. This is particularly important when shooting products by themselves for packaging covers or PR media kits.

#### Choosing the Right Kind of Film

All photographers would like to have the use of an ultra-fast, ultra-sharp, ultra-vivid film, preferably one that would also counteract underexposure and overexposure without complaint. However, this is scientifically impossible. Film producers instead, offer an extensive variety of films to keep the professionals as well as the rest of the world's film users happy.

All photographers would like to have the use of an ultra-fast, ultra-sharp, ultra-vivid film, preferably one that would also counteract underexposure and overexposure without complaint. However, this is scientifically impossible.

This means that when choosing a film for a certain project, you will need to first perform a bit of juggling. You will need to balance between film speed, grain, sharpness, color, and latitude. For ex-

ample, if you want more speed, your sharpness and color are likely to suffer. And if you go for fine grain and greater clarity, the film's sensitivity to light will decline.

#### ISO/ASA Film Speed Stan-

**dards** – The film speed number was originally intended to measure the fundamental sensitivity of a negative or positive semi-

transparent photographic material as set out by ASA (American Standards Association). Now, it is an index value on a scale for use by photographers in determining the camera settings that will yield a satisfactory image as set out by the ISO (International Standards Organization).

ISO standards take into consideration the color and intensity of the light on the subject, the subject itself, the The larger the type of light meter, and the method of use, the film processing, the printing technique and the criteria of sitivity to light image quality. However, for all inand hence tensive purposes 100 ASA speed film equals 100 ISO speed film. The two are now used interchangeably.

**NOTE** The film speed is marked on the film box and on the cassette.

Many newer cameras set the speed automatically when the cassette is inserted. Other models have a film speed dial that must be set manually to match the speed



of the film loaded.

sharpness.

#### Selecting the Right Film Speed –

Normally film speeds are selected between an ISO/ASA of 120 or 400. The larger the ISO/ASA rating the greater sensitivity to light and hence faster exposure times, however you also lose ISO/ASA rating sharpness. ISO rated 400-speed the greater senfilm should be used for outside shoots on a sunny day while ISO rated 120-speed film is for inside faster exposure use with a flash. times, however

you also lose **Using Pro Film** – Regular films are usually shipped green with the idea they will peak just when you take your picture. However, professionals need to get things right without variation. They need film with consistency of coloration and an accurately rated film speed. To



meet their needs, film companies make a professional quality film costing about 25 percent more than the regular emulsion. Unlike regular films, professional films are shipped at their peak and are kept refrigerated to inhibit naturally occurring changes in the color balance of the emulsion. They should be used the same day that you take them out of the refrigerator *Fuji a* and ideally processed within twenty- *profe* four hours.

**NOTE** Fuji and Kodak professional films are the choice of the professionals.

**Using Print Film** – Print film is for tourists. Film producers compromise on sharpness and grain in an effort to maximize film speed, and provide a good cushion for exposure errors.

#### Using Kodak's Gold Film – Kodak Gold

is a general all round purpose film that comes in ISO/ASA speeds of 100, 200, 400 and 1600. 100 ISO/ASA provides the sharpest grain and best coloration. 1600 ISO/ASA is for taking pictures at night.

Fuji and Kodak professional films are the choice of the professionals. Using Kodak's Ectar 25 Film –

dakEctar 25 is a high quality color-<br/>negative film balanced for optimum<br/>grain, sharpness and color. Its abil-<br/>ity to create incredibly sharp en-<br/>largements is offset by its slow<br/>speed and whisker-thin exposure<br/>latitude. Because of this, Kodak recom-<br/>mends that it be used only in a single-lens<br/>reflex camera, not in point and shoot cam-<br/>era. When using this film you will need a<br/>tripod – Ectar increases "camera shake."

NOTE Most of the photographers who ex-



hibit color prints in museums and galleries use Ectar 25.

Using Fuji's Reala 100 Film – This film is for making high quality colorprints and hopes to give Kodak's Ektar Films a run for the premium film buyers dollar. Reala is said by Fuji to be the first film "Reala" is said to reproduce colors as they are by Fuji to be the seen by the human eye. They do first film to rethis by adding an extra blue-green produce colors layer that is said to control excess as they are seen reds in a manner that mimics human by the human physiology. eye.

#### Using Kodak's Ectar 1000 Film

- This is the first 1000-speed film that manages to retain color in the shadow areas of the print. Its grain seems less noticeable than that of other 1000-speed film although it remains obvious even in snapshot size.

#### Using Kodak's Kodachrome Slide

**Film** – Kodachrome 25 Slide Film is beloved by meticulous pros while Ko-

> dachrome 64 is popular as a slightly speedier alternative. Those who like their reds redder than red use nothing but Kodachrome. Kodachrome's are also remarkably resistant to fading.

**NOTE** You have to send away to get Kodachrome developed.

#### Using Ektachrome Film – For

photo hobbyists who want to develop their own color films, Ektachromes can be processed by almost anyone. Consequently color slide processing equipment stores have sprung up in practically every town and city, and professional photographers can process their own exposed films and deliver them to their clients in under two hours. Ectachrome 100 HC and Fuji's Fujichrome 100 are both good all purpose slide film. However, 100 Speed Pro Ektachrome is the professional's first choice.

**NOTE** A frequent problem associated with Ectachromes is a bluish haze. This can be corrected by using a light-yellow filter.

#### **Getting Correct Exposures**

No matter how simple or sophisticated, virtually all exposure meters see the world as a dreary blanket of gray. In technical terms, this means that they see what is called 18 percent gray. Eighteen percent gray represents the mean (or average) light reflectance of an "average real-life scene" as determined by Kodak and other trustworthy authorities on the subject. Reality, however, is not so monochromatic and monotonous, as meters would like it to be. This is where exposure mistakes creep

> in. For example, if the overall scene in front of your lens is either darker or lighter than the average shade the camera's meter presumes, slavishly following its idea of correct exposure will invariably give you either an overexposed or underexposed picture.

Four Methods for Getting the Correct Exposure – Getting correct exposure is achieved using cold hard science and experience, not artistic instincts. Technically speaking, this means allowing the exact right amount of light to affect the

Getting correct exposure is achieved using cold hard science and experience, not artistic instincts. film's emulsion, so that after processing the whole range of image tone values from important dark shadows to important bright highlights - is recorded (over and under exposure effects are achieved in the dark room, not in the field).

Practically speaking, this means learning how to use your camera's light meter, often in conjunction with a handheld meter, to come up with the right setting of lens "f" stop number (light intensity) and shutter speed (time) to suit the particular subject conditions and ISO/ASA rating of the film.

There are four basic ways of doing this:

- taking a reflected light reading
- taking an incident light reading

This requires the skill of looking for the midsubject.

- taking an average of shadow and highlight readings
- taking a reading using a Kodak Gray Card

*Reading Reflected Light* – Point your camera or light meter towards the subject and measure the reflected light off the subject. Make sure you pick the right spot from which to take your reading, being that light reflects tone value of the more or less intensely off different colors and surfaces. This requires the skill of looking for the mid-tone value of the subject. This mid-tone is usually the 0.7 density in the center of a Kodak Gray Scale (18% gray). If you take a spot reading from an area in your picture which is equivalent to this mid-tone value, and use it to base your exposure on, you

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will produce the same range of tones shown on the gray scale providing the fullest tonal range for reproduction.

**NOTE** To learn what 18% gray look like, Kodak and others have obliged by selling what are called gray cards, which have been printed the exact shade a meter expects to see (use of gray cards are discussed further later on). Incidentally, 18% gray (composed of 18% black and 82% white) is also a good shade to have on your living room wall, especially if you like to display framed photographs there.

Reading Incident Light – Hold your handheld meter in front of the subject and point it back towards the camera to read the average amount of light falling

To learn what 18% gray look like, Kodak and others have obliged by selling what are called gray cards which have been printed the exact shade a meter expects to see.

onto the subject. Since the amount of incident light is independent of the tones of the subject, it accurately represents the average amount of light in the scene.

> However, before setting your final exposure take into account that this method does not allow for the brightness range or reflectance from the subject itself. It does not take into consideration for example that yellow reflects more light than blue and that a shiny surface is twice as reflective as a matte surface.

In other words, when a subject is made up entirely of light tones or dark tones, the incident light reading cannot compensate for an imbalance of tones, and may cause you either to overexpose or



underexpose (remember, incident exposure meters see everything as 18 percent gray). In this case, it is important to compare both incident and reflected light readings or make adjustments for very Camera expodark subjects (less exposure) and very bright subjects (more expomeasure resure).

flected light

generally be

used to take

and incident

both reflected

whereas hand-

**NOTE** Camera exposure meters only measure reflected light whereas handheld meters can generally be used to take both reflected and incident light readings.

#### Averaging Shadow and Highlight

light readings. *Readings* – Taking a light reading from the shaded areas of a main subject gives good shadow detail but leads to over-exposure of the more brightly lit areas. However, exposing for the brightly-lit

areas causes loss of detail in the shaded areas of the face and hair. Therefore, the best solution is to take an average of the shadow and highlight readings to give you good mid-tone detail and acceptable coverage of both shadow and high sure meters only areas of the scene.

Using a Kodak Gray Card Reading For Getting the Right Exposure – If you don't mind carrying an 8-by 10 held meters can inch piece of gray cardboard with you at all times, and if you have the patience to actually use it, a Kodak Gray Card is an inexpensive, immensely helpful aid for determining precise exposure as well as helping to train your eye to recognize the 18% gray or .70 density tone in scenes, talked about earlier.



A Gray Card can be used this way: Once you've selected what you want to shoot, simply put the gray card in front of the lens and in the same light as your subject, and take a meter reading from its surface. Since the gray card reflects the amount of light that the meter assumes is average (18% gray), the exposure will be right on the button.

In extremely dark or light scenes place the gray card in an area which receives the same amount of light as that falling onto the overall subject.

If the scene you are photographing covers a large area, hold the card up in front of you and visually compare the mid-tone you have selected with

Once you've selected what you want to shoot. simply put the gray card in front of the lens and in the same light as your subject, and take a meter reading from its surface.

the tone of the gray card.

After taking your measurements, judge whether the subject is predominantly lighter or darker than 18 percent e se- gray. Then if it is lighter – say, a *you* sandy beach or a snow covered lane – additional exposure is in order. But, if it is darker – like a black cat in a coal bin – then less expolens sure is needed.

#### **Five Strategies for Getting Better Exposures** – To refine your method for getting the right exposure, use the following 5 strategies.

#### Overexpose rather than underex-

*pose.* Print quality diminishes quickly with one stop underexposed but still looks good up to three stops overexposed. Therefore, when choosing your settings, keep in mind that it is better to be overexposed that underexposed.

No picture should contain an object with an exposure rating of greater than five stops between its brightest and darkest spot. To get a picture of a subject that neither looks over exposed or under exposed, using black and white film, no object should not have an exposure rating of greater than five stops between its brightest and darkest spot; color negative film should not exceed four f-stops; and color print film, which has even less latitude, should not exceed three f-stops.

**NOTE** A correctly exposed color transparency, when viewed on a light box rated at 5500 degree K should not require any lightening or darkening to reveal all its the details. This is the standard in commercial photography of achieving successful reproduction.

#### Take multiple shots at different exposures.

If you're not sure, which exposure setting is correct, take several shots at dif*di*-ferent settings and then pick the *lickly* best one.

*Watch out for backlit areas in your photo.* In certain situations, such as those that are backlit, reflected light meters can be fooled. Some cameras have backlight buttons to compensate for this situation, while others have sophisticated multi-area metering systems that take back-lighting into account.

#### *Create contrast through color not exposure.* For maximum color saturation, light-

Print quality diminishes quickly with one stop underexposed but still looks good up to three stops overexposed. ing should be kept to within a contrast ratio of two f-stops. Create contrast instead through the use of color.

#### Utilizing Basic Lighting Techniques

All lighting fits into a scale ranging from beautiful soft, diffused light streaming through a window, to the harsh, glaring light of a bare bulb. Below are 8 basic forms of lighting, which can be used separately or in combination with each other to produce the desired effect.

#### Soft Diffused Lighting –

Soft diffused lighting recreates the same kind of soft, delicate north window light that has inspired painters for centuries. A diffuser such as tracing paper is

The retina of the human eye is so sensitive that the total range of tones it can perceive is in the order of 1:1,000,000. However, black and white film can only record a brightness range of up to 1:1000 while color film is limited to a brightness range of 1:200. **FUNFACT** 

placed over a flash-head or light source to scatter the light and soften its quality. Shadows are softer and the reduction of

light with distance is less marked.

Diffused lighting can also be created by bouncing light into a reflector and then diffusing it through a sheet of frosted acetate or mylare. Layers of tracing tissue may also be used to diffuse light. Or even bed sheets.

while<br/>ted to a<br/>e ofNOTE In commercial photogra-<br/>phy, transparencies need the<br/>maximum degree of color satura-<br/>tion if the ultimate in color repro-<br/>duction is to be attained. The<br/>most effective way to achieve<br/>this is with soft, diffused lighting.

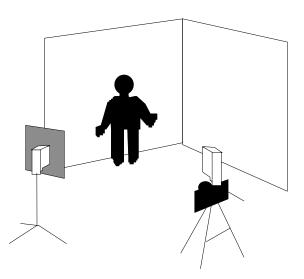
**Direct Lighting** – A light source or flashgun is aimed directly at the subject and illuminates it like a search light. The hard flat-on light reveals outline, but destroys form and texture. Foreground is always much lighter than background.

#### Direct All Around Lighting – Direct

lighting from all directions removes all shadows. It also provides the fullest tonal range for reproduction and it is the only way to assure a technically perfect exposure.

**Direct Hard Side Lighting** – The light source or flash is detached from the camera, and aimed hard at the side of the subject. Textures are exaggerated, and contrast becomes exceptionally hard unless a reflector is used on the shadow side. **Umbrella Lighting** – A light source or flashgun is aimed directly into an umbrella producing soft, shadow-free lighting. The lack of shadows is due to the wide dispersion of light.

#### Direct Lighting with Diffused Fill-in





**58** Creating "Eye Catching" Graphics

**Fill-in Lighting** – A light source or flashgun is used at half power or heavily diffused to act as fill-in. Another is set at full power off or directly behind the camera to provide the principal source of light. *All prin* 

#### **Reflected Roof Lighting – A**

light source or flashgun is tilted upwards and its light bounced off the ceiling. The result is soft, even top lighting.

#### **Background Lighting** – A

flash or light source is held off the camera, with another illuminates the background. Subject background tone can then be regulated by using half or full power, or by varying light source to subject distances.

All prints should be developed to at least 5 inches by 7 inches and preferably 9 inches by 11 inches. These are the standard sizes for a press release and the easiest to scan into a computer.

#### **Getting Your Film Developed**

Professional processing companies that are distinct from the consumer type processing companies should be used to de-

> velop all your film. Although, they are usually double in price, considering the amount of money you will spend creating your photos, as well as, the extent they will influence the overall effectiveness of your advertising, this is no place to scrimp.

st to Size of Prints – All prints should m- be developed to at least 5 inches by 7 inches and preferably 9 inches by 11 inches. These are the standard sizes for a press release and the easiest to scan into a computer.



#### Building Your Own Darkroom – Unless

there is a good reason your company needs a dark room, you should avoid building one. However, if you do create one, consider limiting yourself to color slide and black and white photos, which can easily be processed on your own, without extra expensive equipment.

#### Finding a Useful Resource Book

A good photography resource book ful to should contain hundreds, if not merc thousands, of photos with explanations on how the final results were achieved (including film used, focus and exposure settings). These photos should be of everyday things like people, products and especially objects up close, not just award winning photos of sunsets and

Shutter Bug Magazine is full of photos and techniques useful to the commercial photographer.

mountains in faraway places.

# The Photographer's Handbook – 3rdEdition – by John Hedgecoe, Copyright1992, Doorling Kindersley Limited London.Ebury Press. This standard best-sellingreference manual contains photo-graphic equipment, techniques andprocedures, backed by more than1250 illustrations. In one tightlypacked volume, it presents all theinformation that any photographer,amateur or professional, needs to

have about cameras, films, processes, studio techniques and all the technical aspects that go into making truly exceptional pictures. Over one and a half million copies have been sold worldwide.



## TURNING PHOTOS & IMAGES INTO COMPUTER FILES

NOWADAYS, taking photos is exciting, because any photo or image can be fed into a computer in the form of a digitized computer file and then manipulated with image editing software to improve the basic lighting or to create dazzling special effects.

To create these digitized computer files you can either:

- scan in photographs using a computer scanner
- convert slides and negatives to digitized images and store them on Kodak Photo

Photographic files are known for being inconveniently big causing programs to run painstakingly slow or not at all.

#### CDs

 use a digital or electronic imaging camera

#### **Using Computer Scanners**

As technology improves, people are beginning to expect presentations that look more professional - even if it is just a flyer, school report or a notice for a local garage sale. With the advent of computer scanners, CD-ROM drives, multimedia PCs, and larger cheaper storage devices, it is now possible for small businesses to have the sort of processing power and image manipulation software once reserved for the art departments of large corporations. In fact, whole lines of software are now being developed by major software companies to meet the



demands of the home office.

**NOTE** Photographic files are known for being inconveniently big causing programs to run painstakingly slow or not at all. It is common for one small single color picture for example to take up more It is recomthan 4 MB of memory and a larger mended that bephotograph over 16MB. To some fore your begin extent, you can lessen this problem processing phousing black and white photos. tos you upgrade

However, in either case it is rec*your computer* ommended that before your begin with some seriprocessing photos you upgrade ous RAM (32 to your computer with some serious 64 MB or more. RAM (32 to 64 MB or more), a faster processor (like a 233 MHz Pentium Chip with MMX technology), a graphics accelerating card and a 4-8 gigabyte hard drive.

#### Using a Flatbed Scanner – Scanning a photograph into your computer is easy.

First, use your camera to take a normal photograph of your subject with the sharp-

est lighting possible (shadows and out of focus elements can be added in later by computer software).

Second, have the negatives processed into a large print.

Third, preferably using at least a 1200 by 1200 DPI flatbed scanner along with its add-in card and scanning program – scan the image into your computer and create an image

Fourth, use additional photo manipulating software to adjust the photo's size, crop it, and even change the lighting - it's like

file.

having a your own mini-photography studio.

And finally, load the finished product into the desired document using a page layout or word processing program.

**NOTE** All scanners come with scanning programs that for the most part are quite functional.

Using EasyPhoto Reader – an Affordable Mini-Scanner – Having a suggested retail price of \$480 (and falling), the *EasyPhoto Reader* is a scanner designed specifically to scan photos. It provides crisp color scans at 400 DPI. The scanner plugs into the back of your printer port, and its adapter has a pass through feature to allow you to keep printing while having the

If you can't afford a computer scanner, or really don't need one extensively enough to merit a purchase, many service bureaus will be able to scan for you. Expect to pay at least \$2.00 a scan.

scanner attached to your computer. The scanner automatically feeds the image through, so you do not have to worry about

> uneven and jagged scans of your pictures. For images too big to be fed through the scanner, you can detach it from its base and use it as a hand-scanner whose mechanism will draw itself across an image.

**NOTE** A scanner of this sort is handy for putting together a small catalog (where high-resolution reproduction is not essential).

to Using a Service Bureau – If you can't afford a computer scanner, or really don't need one extensively enough to merit a purchase, many service bureaus will be able to scan your slides, film negatives or prints to the me-

dium of your choice from about \$2 each plus the cost of the medium ranging from \$2 for floppies, \$20 for ZIP disks and \$15 for CDs. All you have to supply is the file names you want for the individual illustrations or photos. To save money you can also bring in your own storage medium, such as a removeable hard drive.

#### **Using Kodak Photo CDs**

Photo-CDs offer a unique way of having high-quality photographs image stored in a computer-readable format. They are created by changing existing negatives or slides which have been produced traditionally using silver halide film stock, into digitized images, that are then burned onto special CD-ROM disks called Kodak Photo CDs. The images are stored using a proprietary compression format at resolutions of up to 3,072 by 2,048 pixels.

Potentially, Photo CDs offer images that are far superior to other electronic imaged originals. Kodak claims image resolution is 16 times greater than current video and TV standards.

One significant application for Photo-CDs is as an alternative to using conventional scanners if you require very high-quality digitized photographs – or if you simply lack a scanner. In fact, the applications for Photo-CDs as a bridge between conventional photography and software imaging seems very promising.

# How can you make your own Photo **CD?** To make your own Photo CD, drop

#### The Kodak Photo CD is fast becoming an image standard. **FUNFACT**

off a roll of 35 mm print film, print negatives or color slides at a suitable local photo shop and ask the pictures to be transferred to a Photo CD (you can even select which negatives you would like).

The photo finisher will then take a blank Photo CD and burn all of the photos into it at one sitting. This is accom-Each Photo CD is plished using a special film scancapable of storing ner that reads the film image, up to one hundred digitizes the information, and full-color images. then stores it electronically. Once stored, the image can be called up on the photo-finisher's monitor, cropped, color balanced and otherwise manipulated, before being finally transferred to the special Photo CD.

Since the Kodak photo CD file is compatible with many computer systems, the finished product can then be manipulated using other software or integrated directly into book design and jackets, documents and reports.

**NOTE** The Photo-CD process is multisessional. In other words, if your Photo CD is not full, additional photos may be added

> at a later date until it is full. However, once a picture is stored, it's there for good – it can't be erased. Each Photo CD is capable of storing up to one hundred full-color images.

#### How much does a Photo CD cost?

Making your own Photo CD isn't' cheap. A blank CD and the first 24-frame roll will cost about \$30. Additional photo CD transfers added to the disk will cost an average cost of 80 cents per frame for a full roll of film. The per frame cost more than doubles if you want to select individual frames from an already processed roll of negatives or slides.

NOTE Bear in mind that the Photo CD allows the casual user to import extremelylows the casual user to import extremelyhigh-quality color images intodocuments and desktop presenta-tions without the major investmentpurrequired to add a high-resolutioncolor scanner and/or electronic im-aging camera to your computingstable.

#### What is the image quality of a

**Photo CD?** Photo-CD images are stored in a unique file format. It uses what is called pyramid encoding. Each file contains six scans of the same image at varying resolutions.

For practical purposes Photo CD files can be thought of as 24-bit true color graphics.

Specifically, there's a small thumbnail at 64x96 pixels, a large thumbnail at 128x192 pixels, a still larger thumbnail at 256x384 pixels and then three primary image scans, at 512x768 pixels, 1024x1536 pixels and 2048 x 3072 pixels.

For practical purposes Photo CD al files can be thought of as 24-bit true hoto color graphics. This means that they have the color resolution of a file created by a good flatbed scanner (300 dpi; 8 by 10 inches). However with the better mechanical positioning and scanning allowed by Photo-CD authoring equipment, the quality of a Photo-CD image will usually by noticeably better than the same picture scanned from a paper photograph.

**NOTE** A single computer Photo CD PCD

image file takes about 18 MB of hard diskDo yspace at 2048 x 3072 resolution. However,<br/>a 2400 dpi or 1200 dpi scan, which is the<br/>real standard of photo excellence, would<br/>require not eight times but 64 times more<br/>size; meaning you could only store 3 pic-<br/>tures on a CD ROM disk. Images of<br/>this size and color depth are not<br/>immediately useful in PC applica-<br/>PCD image fileDo y<br/>soft<br/>soft

#### Do you need a special CD-ROM

**drive?** If you plan to start using Photo CD technology to design your ads, make sure your CD-ROM drive is Photo CD compatible. Most older CD-ROM drives are only single-session capable (those made in the early 90s), while almost all of the Photo-CD compatible drives being shipped today are the preferred multi-sessional kind.

#### Do you need additional Photo CD

**software?** Photo CD access software is often included in many multimedia bundles and you can expect a significant number of programs to support direct import of Photo CD pictures in the future. Kodak's *Access* 

package, available for DOS, Windows, and the MAC, gives you a table of contents with thumbnail photos for browsing as well as lets you takes about 18 view entire individual images. Most MB of hard disk importantly, it also lets you export Photo CD pictures as EPS, TIFF, RIFF, PCX or BMP files. Graphic *Workshop* for Windows has similar feature and in addition, a wider choice of formats and processing options. *Easy Photo* by Storm Software (\$99) also reads Kodak Photo CD images. It lets you resize, rotate and crop them as well as adjust

color and exposure. It also comes with a handy tool to electronically remove "scratches" from your pictures.

#### What is the difference between normal CDs and Photo CDs? Bather than

being stamped out of aluminum, as are normal compact discs, and CD-It is better to be ROMs, Photo-CDs use a dye transgood than to be fer process, which allows them to be original. written in multiple sessions. In the-LUDWIG MIES ory this reduces the useful life of VAN DER Photo-CDs some what - from sev-ROHE eral centuries for aluminum discs to several decades for a Photo-CD although both estimates are a bit abstract and assume the worst possible storage conditions.

#### **Using Digital Cameras**

Although, the technology of Digital photog-

raphy is still in its infancy stage, with more traditional equipment and film far surpassing it in quality, the appeal of transferring photos direct from camera to computer is too good to pass up. Imagine being a photo journalist, and armed with only a

> portable stills-digital camera, a laptop, modem and a cellular phone, being able to beam your photos direct via satellite back to your newsroom. No darkroom required. For the everyday user, digital cameras can be used for:

- brochures & catalogs
- buy/sell ads
- design/layout comps
- legal documentation
- letters
- newsletters
- presentations

 desktop publishing

- flyers
- family photographs
- greeting cards
- Internet communications

- proposals
- reports
- school projects
- technical manuals
- web page design

What is a digital camera? Digital cameras are essentially hybrids of video cameras and normal still cameras. The difference is that once light has passed through the lens of a digital camera, it falls on a charge-coupled device (CCD) similar to that found in a video camera, rather than being directed toward a strip of light sensitive film at the rear of the camera. The CCD consists of a grid of minute pixels, each of which alters it electrical output as a function of the amount and quality of light falling on it. In this way, an electronic map of the scene is built up and stored on an electromagnetic medium – such as a reusable floppy disk – within the camera body.

**NOTE** Digitized images can be transmitted down normal telephone lines, even computer-to-computer, via a modem.

What is the image quality of a digital camera? No matter how sensitive the CCD within the camera, it cannot compare with the literally million of "image-grabbing" surfaces of the silver-halide grains that are present in traditional camera film. Even if this aspect of the system were improved, playback via a television means that image quality is ultimately governed by the num-



ber of lines of information that makes up the television image. In practical terms, the final picture quality of most digital cameras under a thousand dollars is close to the quality of a "Pocket instamatic" or upper priced Polaroid.

**NOTE** Image size in digital photography is measured in pixels, the same unit used to measure the image on your computer monitor. A medium resolution digital camera image is 640 by 480, which would almost fill the average monitor. A low-resolution digital image 320 by 240 pixels would fill less than 1/4 of the screen. Although a 640 by 480 resolution picture looks great at first glance, in the real world, a full screen digital picture could be printed no more than four inches wide before the quality becomes unac-

Many people buying start-up digital cameras are Web page publishers, which use small digital pictures. **POWERPOINT** 

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ceptable.

#### What kind of digital camera should you buy? For the average user, digital cameras are priced in the \$300 to \$1,000.

Professional cameras for the news gather-

ing industry, such as the *Olympus D-600L Digital Camera* (1280 x 1024 resolution) and the *Kodak DC-3e News* camera, range from US\$1,500 to over US\$20,000.

#### *Cannon RC-260 and RC-570* – The *Cannon ION* may represent the face of things to come in terms of digital imaging. In size and presentation, it is not dissimilar to a normal compact camera, but instead of using film, it records about 50 color images per re-usable floppy disk. After recording, the camera can be attached to a video player, television, or

computer for playback purposes. Logitech also makes the *Photoman*.

Casio QV10 – Another hot contender in the digital camera arena is Casio's QV10 (originally listing for Real-estate agents and US\$700). This camera is small, buy-sell newspapers at just over half the weight of could use digital camthe Epson. Its most interesting eras to take pictures of feature is its LCD screen. It properties or merchandoesn't use a traditional viewdise, dump the images finder like most cameras do. into a word processor Rather you point it at an object and use an inkjet printer you want to take a picture of, to produce custom feaand it updates the image in ture sheets of their listnearly real-time, about once ings or newsprint flyers. every half second.

The biggest drawback to this camera is the quality of its images. Although it can store 96 images in flash memory, and its images look kind of cute on its mini 2-inch LCD screen, on an regular SVGA screen, the images appear jagged (equivalent to about 320x240 pixels). Nevertheless,

> watch this model in the future when megapixel resolution becomes more economical and viable. This camera is FUN!

Epson's PhotoPC Digital Camera

Epson's digital camera, which looks very much like a regular
35mm camera (original street price of US\$500 and falling fast), is a capable and inexpensive tool for low-to-medium resolution digital-image production. Real

estate agents and buy-sell newspapers could use this camera to take pictures of properties or merchandise, dump the images into a word processor and use an inkjet printer to produce custom feature sheets of their listings or newsprint flyers. Small business owners could use it as a simple tool for getting product or company images quickly onto the Internet.

The PhotoPC comes with 1MB of memory which can hold 16 highresolution images at 640x480 pixels barely oneor 32 low-resolution images at 320x200 pixels. Memory modules of the Epson can be added brining the imagesaving capacity to a maximum of 5 MB or 80 high-resolution images. era. It fits nicely Images are in 24-bit (16.7 million) into a shirt pocket. color. Color accuracy, saturation and the like are about what you'd expect from the 90's version of an Instamatic.

Kodak's DC20 Digital Camera – This cam-

era is barely one-quarter the size of the Epson Photo PC camera and fits nicely into a shirt pocket. The DC20 is also easier to use than the Epson. There are only three buttons (Power, Shoot, and Erase). It's also cheaper, originally Kodak's DC20 listing for for about US\$350, it can Digital Camera now be purchased on clearance for - This camera is under US\$100. However, the compactness and inexpensiveness of quarter the size this Kodak exacts a hefty price. You can only shoot 16 pictures on low Photo PC camresolution and 8 on high.

> **NOTE** The newer *Kodak DC-210 Zoom Digital Camera* offers up to 1152 x 864 resolution (US\$900).

*Nikon QV-100c and Kodak DCS* – For the newsgathering industry, the ability to be able to transmit images back to base via



the telephone is vital. Nikon's QV-1000C is a purpose-built, black and white only, digital stills camera. It retains the look and feel

of a normal SLR, but its images are recorded on an industry standard floppy disk. An integral part of the system is a transmitter with built in monitor, which can be plugged into a TV network for instant transmission of images anywhere in the world.

Another contender, *camera.* the Kodak DCS (Digital *FUNFACT* Camera System), is designed to hook up to an unmodified Nikon F# and has both black and white and color options. Once the system is in place, im-

Kodak's high-end DC-3e News camera produces images 10 times larger than start-up digital cameras. The best studio digital cameras can go another eight times higher. But after the digital dust settles the fact remains that Kodak's best color film, Kodachrome, now a half-century old, can carry about 25,000 times more information than the best digital camera.

ages are stored in the companion DSU (Digital Storage Unit) which has a capacity of up to 158 uncompressed or 400-600 compressed images.

> Snappy – An economical way to get your own digital images is to capture video frames from home video using an affordable little gizmo called *Snappy Video* Snapshot (from Play Incorporated). Snappy sells for less than US\$100. Plug the palm-sized gadget into your PC, hook up your video camera to it and capture 1,500 by 1,125 pixel

color images from video.

#### \*

# MANIPULATING DIGITIZED PHOTOS

THE LINKAGE of photography with computer technology has enormous advantages to ad designers. Although Although there there are some limitations, a skillful are some limitaretoucher can manipulate photos tions, a skillful beyond the wildest dreams of a traretoucher can ditionally trained darkroom technimanipulate phocian. At the whisk of a light pen or at tos beyond the the click of a mouse button, the colwildest dreams ors of a digitized photograph or of a traditionally slide can be corrected, altered, or trained darkchanged from light to dark. Colors room technician. can also be added or removed and patterns changed, backgrounds eliminated, and even mustaches shaved.

Furthermore, bizarre, neat and even lifelike special effects can be added in ways never imagined before to transform ordinary, everyday photographs into final art that can look as if it were created with anything from a paintbrush to a graphic pen or even mosaic tiles.

## Comparing Digital Editing Software

an There is a huge selection of digital editing software. This software ranges from the big expensive image-editing programs like Adobe's *Photoshop* to *Graphics Workshop* which can be downloaded off the Internet for free. These and other popular image editing software are described below.

**Adobe's PhotoDeluxe** – *PhotoDeluxe* is Adobe's *Photoshop* for the masses at a cost of about \$100. Although a shadow of its big brother, it is easy-to-use and comes complete with some pretty high-end filter effects. It also offers a large range of tools including layers, *Kai's* filters, a good help guide and ready to use hardware add-ons like *Snappy*. *PhotoDeluxe* also takes plug-ins for acquiring images from scanners and digital cameras. *Professional* 

digital editing

"Photoshop"

(from Adobe

Systems) for

Mac and Win-

dows.

software is

Adobe's Photoshop – The best known professional digital editing software is *Photoshop* (from Adobe Systems) for Mac and Windows. Its \$900 price tag and demand for upwards of 150 MBs of RAM make it affordable for very few folks.

**Corel's Photo-paint** – Another option worth serious consideration is CorelDraw's *Photo-paint*, which comes bundled in CorelDraw 6.0, 7.0., and 8.0. At one time, **58** Creating "Eye Catching" Graphics

mesPhoto-paint was considered something of<br/>an ugly kid sister to the tall and elegantoolsPhotoshop. However, today Photo-paint is<br/>all grown up. Not only can it do most of the<br/>things Photoshop can do but it can also<br/>create and edit AVI movies withThe best knownease.

NOTE Photo-paint from Corel and for that matter Picture Publisher from Micrografx are just a few shades less capable than Photoshop but include some very useful features lacking in Photoshop. Both allow users to undo any step in a long project and feature macro recording so you can apply a series of commands to other files. Both also feature the ability to open large picture files in small sizes for work on slower computers.



Graphics Workshop – Graphics Work-

shop for Windows can be downloaded asshareware from various Internet sites andon-line services. It is also included in mostcomputer graphics books bundled withfloppies or CD-ROMs. It features ahandy thumbnail viewing systemand numerous filters for adjustingcolor and contrast and cropping. Itcan also convert to just about anygraphic file format.

#### Micrographx's Picture Pub-

**lisher** – *Picture Publisher* like most *Sites* high end image-editing programs, *serv* supports images saved in the TIFF, GIF, JPEG, BMP, PCX, TARGA, EPS and other popular formats, but it comes with a better selection of effects than most competitors in its class, and it offers once of the best interfaces for selecting them. **NOTE** For about \$200, consider purchasing the ABC Micrografx Suite which includes *Picture Publisher*.

**Software Plug-ins** – In the image editing software field, third-party software devel-

opers have designed special effects plug-in programs to increase the usefulness of the larger more expensive image editing applications. A plug-in needs a host program to run from. The best known plug-ins are *Kai's Power Tools* and *Convolover* (both from MetaTools). Another recently developed plug-in is *Kai's Power GOO* a special-effects

graphics program unlike any other. For \$70 *GOO* allows you to quickly distort or blend images. You can also create movies (GO-Ovies) which show entire transitions known as morphs.

"Graphics Workshop for Windows" can be downloaded as shareware from various Internet sites and on-line services. Xaos's Paint Alchemy – Paint Alchemy

comes with 75 different preset styles thatcan be combined with 36 different controlsto create millions of custom effects.This product lets you paint effectsTo aon sections of an image or modifyto yoto product lets you paint effectsTo aon sections of an image or modifyto yochurchur

### **Other Special Effects Programs**

- Applications like Aldus *Gallery Effects, Fractual Design Painter* and *Fractual Design Sketcher* can enhance plain-Jane images by using a pastel finish for a softer appearance and quickly turn any image into an illustration with a distorting watercolor effect.

Finding Inexpensive Photos in Digital Format

To add photos to your brochures or per-

To add photos to your brochures or perhaps your web site, you may be able to use some of the predigitized stock images available on disk or CD-ROM from companies like Corel Corp.

haps your web site, you may be able to use some of the pre-digitized stock images available on disk or CD-ROM from compa-

> nies like Corel Corp. and 21 St. Century Media. These vendors offer their images with almost unlimited rights for use in in-house work.

> Corel for example distributes a huge number of CD stock photographs on any subject. Its Corel Stock Photo Library includes 20,000 royalty-free photos in 200 CD-ROMs which can be purchased for about \$1,200 Canadian per set.

Generic digital photos can be also be found on on-line services like Compuserve and numerous sites on the Internet. In addition, art and photos whose copyright has expired can be copied at no charge.

**NOTE** Collections of free art and illustrations may be available in the historical sections of your local library (bring your notebook and a handheld scanner).

## Familiarizing Yourself With Photo File Formats

Digitized photo files can be created File to using many different types of software applications, each having their ing to own file format or following a standard set by another format. A photo filter is a software program that enables your photo-editing program to interpret and display a file created in another application. File types are named according to their DOS extensions. Popular photo file

File types are named according to their DOS extensions.



formats are:

- .BMP Windows bitmaps (no filter required when running windows)
- .EPS Encapsulated PostScript files
- .PCD Photo CD file format
- .PCX Paintbrush files
- .TIF Tag image file format (TIFF)



# **CREATING COMPUTER ILLUSTRATIONS**

THE WORLD of computer graphics is fascinating but still relatively new compared to the more traditional forms of graphics manipulations. Some of the problems that need to be addressed, before it truly takes over the design process, revolve around computer visuals that tend to take a lot of memory; software that has problems recognizing and dealing with one file format and another; and the many

A replacement for silverbased image recording is inevitable. Silver is an increasingly rare and thus increasingly more expensive resource, and the film industry uses millions of ounces a year. **FUNFACT** 

difficulties involved in the printing of graphics. If you seriously want to get into computer graphics, one of the best books on the subject is simply titled "Graphics and the Computer" by Willie Nelson.

# Familiarizing Yourself With Graphic File Formats

Graphics files can be created using many

different types of software applications, each having their own file format or following a standard set by another format. A graphics filter is a software program that enables your graphics programs to interpret and display a file created in another application. File types are named according to their DOS extensions. Popular file formats

are:

- .CDR Corel Draw files
- .CGM Computer graphics metafiles



- .HGL HP graphics language files
- .PCT Macintosh PICT files
- .PIC Lotus 1-2-3r graphics files
- .WMF Windows metafiles (no filter required when running windows)
- .WPG WordPerfect graphics files

### **Using Clip Art**

Clip art consists of illustrations made by professional computer graphics designers stored under easily accessible file formats. The illustrations can be used however you want and even modified to suit your purposes. They can be used to

Two top illustration programs are "Corel-DRAW 8.0" for IBM; and "Adlus Freehand" for Macintosh.

**58** Creating "Eye Catching" Graphics

spice up brochures, flyers and newsletters.

CoreIDRAW comes with a CD-ROM containing over 100,000 clip art images. To help you find the clip art you want, it also includes a text with pictures of its images.

### Picking the Best Illustration Software

Graphics or illustration programs allow you to create line figures and computer art, in addition to offering an assortment of photo manipulation tools. Two top illustration programs are *CoreIDRAW* for IBM and

Adlus *Freehand* for Macintosh. These 2 programs are without a doubt industry standards, with *CoreIDRAW* holding 90% of the IBM market share and Adlus *Freehand* 85% of the Macintosh market share. These programs should be considered



above all others, as most ad agencies and service bureaus are familiar with them.

**Corel's Xara –** If you take *CorelDRAW* and *Photopaint* applications and strip them down of all fatty deposits, Digitized images and then turbocharge what's left require lots of over, you get Xara. The 32-bit RAM memory. CorelXara (\$300 for Windows 3.1, You will need to 95 or NT) doesn't do everything the upgrade your larger packages do, but what it does computer to at do it does fast, very fast. Xara's releast 32 MB-64 fresh rate is unsurpassed. As well, MB of RAM and its ability to move and resize bityour printer as maps without distorting them is secwell. ond to none. In fact, with Xara you **SUPERTIP** will find yourself dragging your drawings around just for the fun of it, and for the most part they will keep their original look with amazing clarity.

#### Hand Creating Illustrations

With the onslaught of computer technology, everyone seems able to come up with impressive computer illustrations that bog-

> gle the mind. However, though artistically appealing, this doesn't necessarily sell products. Sometimes simplicity is more poignant.

urLine art can be created on paper,atwith dark pencils and then scanned3-64into a computer where it can be fur-andther manipulated e.g., colors andasbackgrounds filled in. In fact, if youfancy yourself as an artist, you mayconsider creating your own illustra-tion and diagrams, especially forcartoons. The world needs variety not ho-mogenous advertising.

#### **NOTE** In *The Entrepreneur's Guidebook*

*Series*, all *TEGuS* cartoons were created using nothing more than a mouse, Microsoft's Word 6.0 and Word97 and some clip art.

## Constructing a Camera-Ready Mechanical

Assuming you are working in black and white, there are several ways to construct a mechanical, or cameraready layout used for printing:

 You can have it run entirely off a than Linotronic Image Setter, either Micro from your computer disks or 6.0 a through a network or telephone and line hookup. This implies all the art. elements on your mechanical are computer generated – word-processed text and display time, as well as photos that are scanned, cropped and sized in

In The Entrepreneur's Guidebook Series, all TEGuS cartoons were created using nothing more than a mouse, Microsoft's Word 6.0 and Word97 and some clip art.

either a photo manipulation program – such as Image Studio – or right in your page layout program, such as

Pagemaker. Color separations are also included.

- You can run the basic text on a Linotronic and have photos and art shot separately and stripped into the negative or half tone before the printing plate is made.
- Or you can run your mechanical on a laser printer at either of the above two levels. This assumes you either don't have access to a Linotronic, or you don't feel that the extra quality is needed for your particular publication.

**NOTE** Simple brochures can be created using desktop publishing programs, printed

out on high resolution graphics with a few, half-tone pictures added here and there to increase visual impact. Color graphics for books can also be added the old fashioned way, by using picture windows and processing the color graphics separately.

\*

Simple brochures can be created using desktop publishing programs, printed out on high resolution graphics with a few, half-tone pictures added here and there to visual dramatic impact.



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