

A SHORT COURSE IN THE CLASSIC ART OF
FUJIFILM X100T
PHOTOGRAPHY



Fujifilm is one of the acknowledged most innovative leaders in digital photography and their X100T is one of the best new high-end digital cameras. If you own one of these cameras and want to get the most from it, here's the book for you. Complete, clear explanations show you how to get much better and more interesting photographs.

DENNIS P. CURTIN

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- <http://www.photocourse.com> is our instructor/student site.

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NOTE ON THE SHORTCOURSES.COM WEB SITE

This book is designed to work with the many of the free on-line books available at the author's Web site at www.shortcourses.com. Of special interest may be the books on displaying & sharing your digital photos, digital photography workflow, image sensors and digital desktop lighting.

OTHER WEB SITES

- The X100T page is at http://www.fujifilm.com/products/digital_cameras/x/fujifilm_x100t/
- Camera manuals are at [fujifilm-dsc.com/manuals](http://www.fujifilm-dsc.com/manuals)
- Fuji Forum is at <http://www.fujix-forum.com/index.php?app=core&module=help>
- Fuji X Series is at <http://www.fujixseries.com/discussion/1652/how-to-save-custom-settings/p1>
- DPReview at <http://www.dpreview.com/search/forums?query=X100T&forum=1020>
- Fuji manuals: <http://www.fujifilm-dsc.com/en/manual/x100t/index.html>



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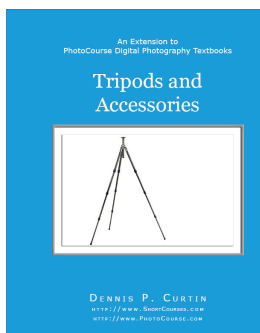
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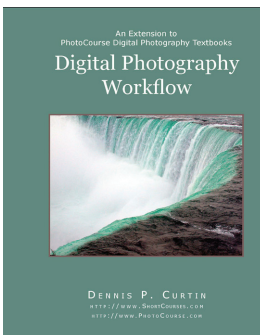
THE ART OF CLASSIC PHOTOGRAPHY



The Fuji X100T is a high-quality 16 megapixel camera that follows in the footsteps of the venerable Leica but with modern touches.



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TIPS

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- To learn more about digital photography, visit our ShortCourses Web site at www.shortcourses.com.

A great photograph begins when you recognize a great scene or subject. But recognizing a great opportunity isn't enough to capture it; you also have to be prepared. A large part of being prepared involves understanding your camera well enough to capture what you see. Getting you prepared to see and capture great photographs is what this book is all about. It doesn't matter if you are taking pictures for business or pleasure, there's a lot here to help you get better results and more satisfaction from your photography.

To get better, and possibly even great photographs, you need to understand both concepts and procedures; the "whys" and "hows" of photography.

- **Concepts** of photography are the underlying principles that apply regardless of the camera you are using. They include such things as how sharpness and exposure affect your images and the way they are perceived by viewers. Understanding concepts answers the "why" kinds of questions you might have about photography.

- **Procedures** are those things specific to your own camera model, and explain step-by-step how you set your camera's controls to capture an image just the way you want to. Understanding procedures gives you the answers to the "how" kinds of questions you might have.

This book is organized around the concepts of digital photography because that's how photographers think. You think about scenes and subjects, highlights and shadows, softness and sharpness, color and tone. The procedures you use with the Fujifilm X100T camera are integrated throughout the concepts, appearing in those places where they apply. This integrated approach lets you first understand the concepts of photography and then see step by step how to use the X100T in all kinds of photographic situations.

To get more effective, interesting, and creative photographs, you only need to understand how and when to use a few simple features on your camera such as focus, exposure controls, and flash. If you've previously avoided understanding these features and the profound impact they can have on your images, you'll be pleased to know that you can learn them on a weekend. You can then spend the rest of your life marveling at how the infinite variety of combinations make it possible to convey your own personal view of the world. You'll be ready to keep everything in a scene sharp for maximum detail or to blur it all for an impressionistic portrayal. You'll be able to get dramatic close-ups, freeze fast action, create wonderful panoramas, and capture the beauty and wonder of rainbows, sunsets, fireworks, and nighttime scenes.

As you explore your camera, be sure to have fun. There are no "rules" or "best" way to make a picture. Great photographs come from using what you know to experiment and try new approaches. Digital cameras make this especially easy because there are no film costs or delays. Every experiment is free and you see the results immediately so you can learn step by step. Here are introductions to each of the camera-related things you need to understand to be a good photographer.

IMAGE QUALITY

- Set the image quality to RAW or RAW+JPEG for the best image quality. These images can then be edited on your computer using a program such as Adobe's Lightroom or Google's free Picasa.

TIPS

• One of the best things about an eBook is the way you can search it. If you encounter a word, phrase or technique and want to know more about it, search the eBook to see where it is discussed.

EXPOSURE

- Use one of the auto exposure modes—program (P), aperture-priority (A) when depth of field is important or shutter-priority (S) when the capture of motion is.
- If it is a dynamic scene, use MULTI metering. If you want to base an exposure on a small area use spot metering.
- If you want a smaller aperture or faster shutter speed increase the ISO speed.
- If you want to base your exposure on a specific part of the scene, use focus lock or AE lock and then recompose the image.

FOCUS

- If it's a static scene, use manual focus. However, if you want to use autofocus, use a single AF point, lock focus on a specific area and then recompose the image.
- If the subject is moving, or may move, use MULTI autofocus which will detect a moving subject and track it. Explore the topic “back button autofocus”.

BLUR

- To avoid almost all subject blur, use a shutter speed of 1/1000.
- To avoid blur from camera shake use a shutter speed no slower than 1 over the lens's effective focal length. In the case of the X100T that is 1/35.

DEPTH OF FIELD

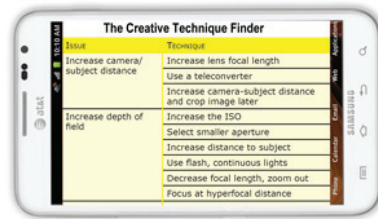
- To capture greater depth of field use a smaller aperture and move farther away from the subject.
- To capture shallower depth of field use a larger aperture and move closer to the subject.



Henri Cartier-Bresson's first Leica (model Leica I). He continued to use Leica's throughout his entire career. Search the Internet for some of his amazing photos.

THE TECHNIQUE FINDER

In photography you only have to master a few techniques to achieve your desired ends. Following is a check list of those things you are most likely to want to do, and the techniques you use to do them. A Topic number listed for each technique points you to where it's discussed in this book. When trying these techniques, don't try just one. Try them all, and try them in combinations. For example, to reduce blur you can select a faster shutter speed, but increasing the ISO makes even faster speeds available and adding flash adds even faster speeds. Those techniques marked with an – are not discussed in this book but you can locate information about them on the Internet.



Click the cover to download a PDF version of the Creative Technique Finder table formatted for display on a smart phone. There are a number of ways to transfer it, including the free Dropbox app. (The Pocket Guide is at www.photocourse.com/itext/techniquefinder/pocketguide.pdf).

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ISSUE	TECHNIQUE	TOPIC
Increase depth of field	Increase the ISO	3-2
	Decrease the aperture	2-9
	Increase distance to subject	3-10
	Use flash, continuous lights	4-5
	Focus at hyperfocal distance	3-11
Decrease depth of field	Decrease ISO	3-2
	Increase the aperture	2-9
	Decrease distance to subject, focus on nearer part of scene	3-6
	Use neutral density filter	2-16
Reduce camera/subject blur S=Reduces subject blur C=Reduces camera blur B=Reduces both	Increase the ISO (B)	3-2
	Increase shutter speed (B)	2-8
	Use flash or continuous studio lights (B)	4-5
	Use cable release (C)	2-8
	Use self-timer or Fiji's remote control smart phone/tablet app (C)	1-3, 3-3
	Use tripod or other support (C)	3-1
	Use manual focus (C)	3-9
	Use minus (-) exposure compensation with flash (B)	4-5
	Use continuous mode (B)	3-3
	Increase distance to subject (B)	3-4
More head-on angle to subject (S)	3-4	
Improve exposures	Use histograms	2-17
	Use exposure and flash compensation	2-16, 4-5
	Use flash	4-5
	Use automatic exposure bracketing	3-3
	Use AE Lock	3-8
	Use spot metering	2-12
	Use Manual exposure mode	2-10

ISSUE	TECHNIQUE	TOPIC
Increase size of subject in image	Use macro mode	3-7
	Use close-up (portrait) lenses	3-7
	Set minimum focus distance and move camera in and out	3-7
	Reverse lens	—
Increase area captured in image	Move farther from subject	3-6
Remove reflections	Use circular polarizing filter	—
Improve Colors	Set white balance	4-1
	Use Adobe RGB color space	1-12
	Use RAW image format	1-12
Lighten shadows	Soften the light	—
	Use fill flash	4-5
	Shoot using the RAW format and adjust later	1-12
Reduce contrast	Shoot on overcast days	4-1
	Use fill flash	4-5
	Use reflectors	—
	Move light source closer to subject	—
Improve image quality	Use RAW image format	1-12
	Reduce the ISO	3-2
Lighten or darken a scene	Use exposure compensation	2-16
Lighten background in flash photos	Use slow sync flash	4-5
	Use slow shutter speed	2-8
	Use plus exposure compensation, flash compensation	1-16, 4-5
Darken background in flash photos	Use minus exposure compensation	2-16
Lighten or darken foreground in flash photos	Use plus or minus flash compensation	4-5
Remove red-eye	Use red-eye reduction mode	4-5
Respond faster	Anticipate needed settings	1-3
	Manual focus/prefocus	3-9
	Use custom settings	1-7, 1-8
	Use back button focus	3-8
Increase the range of the flash	Increase the ISO	3-2
	Increase the aperture	2-9
	Use an external flash	4-5
	Use a flash with a higher guide number	4-5
	Increase the focal length if the flash auto zooms	4-5
Improve focus	Use focus lock	3-8
	Use focus zones, areas	3-7
	Use face detect	3-7
	Use continuous focus	3-7
	Use manual focus	3-9

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A multiple exposure taken with the Fujifilm X100T.