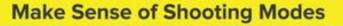
PHOTOGRAPHY CHEAT SHEET



Auto Mode



The camera will automatically try and choose the best possible settings. In auto mode, there's no need to mess with any of the settings. Just point and shoot.



Portrait Mode

Keeps your subject sharp while creating a beautifully blurred background



Landscape Mode

Designed for capturing sweeping vistas or huge crowds. In this mode, your camera increases the Aperture f-stop number in order to maximize depth of field. Objects both near and far will be in sharp focus



Child Mode

In this mode, clothing and backgrounds are colorful while keeping skin tones soft and natural looking. Shutter speed is also increased to capture kids who are a bit more wiggly



Sports Mode

The camera uses a faster shutter speed to capture fast-moving objects. Essentially allowing you to "freeze" action scenes.



Close Up Mode

The camera uses a smaller aperture to improve depth of field. Perfect for macro shots, close-ups of flowers, insects, and other objects



Night Portrait Mode

The camera uses a slower shutter speed and flash to capture more light. Useful in low light situations. But use a tripod to avoid camera shake



Manual Mode

This is designed for experts who want complete control over their camera settings. In this mode, you choose the shutter speed, aperture, and ISO



Aperture Priority

This is a semi-automatic mode that allows you to choose the aperture yourself. The camera will automatically set the shutter speed that will produce the proper exposure. The semi-automatic modes are a great place to start when you're first venturing out from full automatic



Shutter Priority

Allows you to choose the shutter speed yourself. The camera will automatically select the aperture (f-stop) that will produce a proper exposure



Program AE Mode

The camera sets the shutter speed and aperture but you control flash, white balance, ISO, etc ...



No Flash Same as full auto mode, but with flash

disabled



Creative Auto

Same as full auto mode, but with a little more control over focus, exposure and color

Movie



Allows you to record video



10 Can't-Miss Photos

TOP-10 PHOTOS FROM EVERY MONTH OF THE YEAR.

JANUARY 🤝

Snowmen Indoor play People sledding Stacks of sweaters Firsts for the New Year · First snow First new outfit · First family dinner · First book you read Icicles along the roof Kids bundled up to go outside in the cold A couple snuggling by a glowing fire Bowls of soup or cups of hot chocolate Family members taking down holiday decorations



Kids in pajamas Favorite gadgets Your loved ones A romantic night out Valentines you receive Super Bowl party, food and decor Mardi Gras decorations and parades Children creating valentines for school Valentine's Day cookies, candy or cupcakes High-school sporting events, like a basketball game or gymnastics meet



- Your car Kites flying Your pet on a walk Your exercise routine
- March Madness events
 - People filling in brackets
 - Friends watching games
 - Fans wearing favorite teams' jerseys
- Favorite Dr. Seuss books The first signs of spring
- Flowers sprouting
- Tree blossoms blooming
- Baby animals playing
- Children playing in the yard Loved ones playing in puddles after a rainstorm
- St. Patrick's Day festivities featuring green
- Flowers peeking through dirt or snow
- Your toes with a fresh pedicure and nail polish
- The yard after its first mow of the year
- Family members working in the garden
- Outdoor sports, such as soccer, softball and tennis



- Rainbows Friends hiking
- Easter celebrations
 - Religious activities
 - Family dressed in "Sunday best" to attend an Easter service
 - Egg hunting
 - Egg decorating
 - Easter dinner
 - New Easter dress
- Umbrellas and rain boots
- Flats of flowers

MAY

Barbeques Grandma's hands Prom happenings Photos with Mom Flowers in the garden Mother's Day presents Cinco de Mayo celebrations Students moving out of the college dorm Cemeteries decorated for Memorial Day

People drinking mint juleps or wearing hats for Derby Day

JUNE

Baseball games Photos with Dad Animals at the zoo Outdoor activities

- Badminton
- Picnics
- Evening walks

 Backyard movies
 Father's Day events
 Feet wearing flip-flops
 Strawberries on the vine
 Graduates dressed in caps and gowns
 Children on the last day of school
 Brides getting ready for the big day

JULY

Farm fields Family reunions Camping activities Fun in the sun

- Water fights
- Sunbathing
- Pool time
- People boating
- Swimming lessons

A concert in the park Girls playing Hula-hoop Ice-cream or snow cones Watermelon ready to serve Fourth of July celebrations

- Firework displays large and small
- · Parades
- People wearing red, white and blue
- Flags flying
- Military personnel in full regalia

A boy holding a worm, frog or bug

AUGUST 6

Sprinkler fun Corn on the cob Summer sunsets People on bike rides Vacations and travels A pitcher of lemonade NFL preseason parties A couple holding hands Back-to-school shopping County, town or state fairs



Football games Tailgating parties Fishing excitement Family in sweaters Apple-picking events Freshly baked cookies Leaves changing color Visits with grandparents Happenings on the first day of school

- · Catching the bus
- Wearing the first-dayof-school outfit
- Packing the first lunch
- Meeting the teacher
 Stacking the kids' schoolbooks
- Seeing or walking into the new classroom
- Reading the school schedule
- Buying new backpacks and shoes
- Car rides through the canyons or mountains

OCTOBER 6

Hayrides Bare trees Scarecrows Corn mazes Haunted houses Pumpkins at night World Series parties Kids jumping in piles of fallen leaves A train rolling across the golden landscape Homecoming celebrations at school

NOVEMBER (

Baked pies Geese flying south Family gatherings Thanksgiving dinner

- Loved ones preparing the food
- People setting the table
 Home decor
- The family at the table
- People watching a game after dinner

Black Friday madness

The first snowfall Family photo shoot for holiday cards

Dogs or kids playing in the first snow

Thanksgiving leftovers in the refrigerator

Family members turning on Christmas lights



Hockey games Snowball fights Canned-food drives Community service Friends sharing a laugh Menorah being lit New Year's Eve parties Family gathered around the fireplace Slippered feet lined up in a row or in a circle Christmas activities

- · Gifts being wrapped
- Holiday shopping
- Cookie plate placed
 out for Santa
- Children writing letters to Santa
- Loved ones visiting Santa at the mall
- Home decor
- Nativity scenes
- Carolers
- Trimmed trees
- Mantle with your hung stockings
- Outdoor decor
- The holiday table
- Shopping bags filled from mall outings

Learn How to:

Shoot in Manual Mode

PhotographyElement.com

1 Set	the ISO:
100	Sunny
200	Partly Cloudy
400	Overcast
800	Indoor/Sports
1600	Very Dark Lighting
3200	Dark/Night

2 Set the Aperture:

- 1.2-3.5 Very blurry background (portraits)
- 3.5-6.3 Slightly blurry background
- 6.3-32 Wide depth-of-field (landscapes)

3 Set the Shutter Speed:

*Use a tripod if the shutter speed is below 1/the focal length of the lens (ex 85mm lens and 1/80")

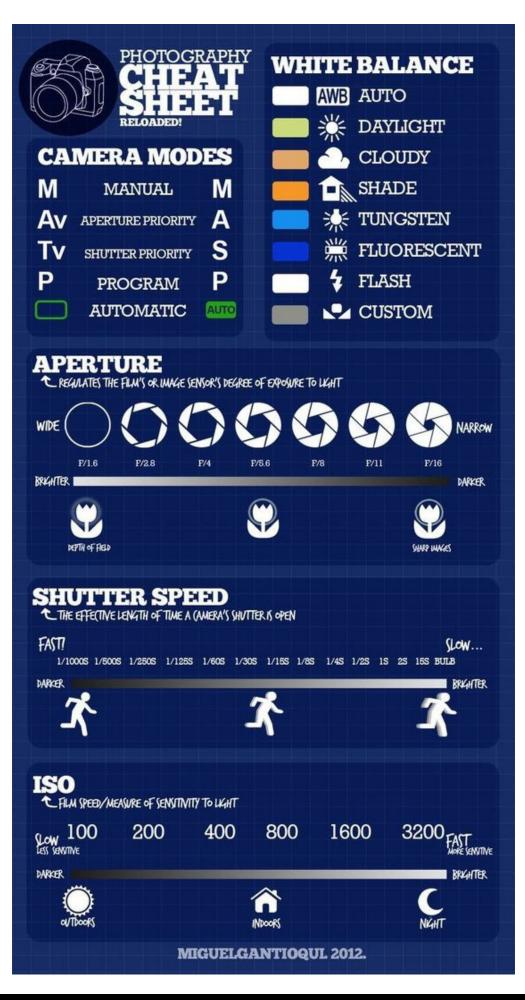
*Slow shutter speeds blur motion

*Fast shutter speeds freeze action

1/2-1/8	Blur water
1/60	Portraits
1/250	Freeze slow subjects
1/500	Kids
1/500-1/1000	Sports
1/2000-1/4000	Very fast subjects

4 Check the Exposure:

- *Watch the meter in the bottom of the viewfinder
- *Adjust exposure settings to keep meter at 0
- *Use exposure compensation +/- for minor adjustments
- * Review the image on the LCD and check the histogram to see that the tones are evenly distributed across the graph



JPEG VS RAW

www.christinagreve.com

Jpeg Format	RAW Format
Standard format	Uncompressed format
Processed by the camera	Waiting to be processed by software like Photoshop or Lightroom
Fairly small in size Higher in contrast	Large in size
Sharper straight out of the camera	Not as sharp. You get to fine-tune sharpen in Photoshop
Immediately suitable for printing and web posting Takes up less space on your	Gives you great control over exposure, highlights, contrast, colors, etc.
hard drive	Not suitable for printing directly from the camera
Takes up less space on your memory card	Is like having a negative Takes up a lot of space on your
	memory card
Shoot in Jpeg when you	Shoot in Raw when you
Photograph in perfect daylight conditions	Photograph in not-so-perfect light conditions
Want a quick workflow	Want a perfect white balance
Don't need to do much post-processing	Want quality photos for your portfolio and clients
Want to save space on your hard drive	Want full control over the final look of your image
your naru unve	

HOW TO PROPERLY HOLD A CAMERA

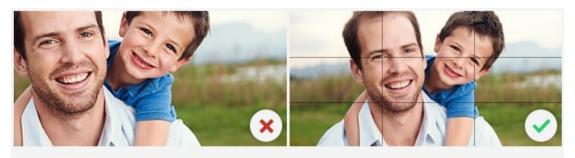


· HOW TO USE · THE RULE OF THIRDS

PORTRAITS



Portrait photos work best when the person's eyes overlap with the intersections on a 3x3 grid. Since those intersections are key focal points, this creates a better sense of eye contact and engagement than placing them dead-center.



If you have more than one subject, try to position them all so that they're near an intersection on the rule of thirds grid.

LANDSCAPES



For landscapes, try to align the horizon with one of the two horizontal lines near the center of the grid (preferably the top one if the land is more visually interesting than the sky).



ARCHITECTURE



Perfect symmetry can sometimes be advantageous when photographing architecture. Still, the rule of thirds is useful for drawing attention to a structure's most important focal points.

ACTION



Be careful not to cramp your subject, especially when you want to create a sense of motion. Try placing the subject at one end of the grid and leaving space for their destination at the other.

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	1/1500	1/1600 1/1250		於	
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LIGHTING GUIDE

MASTER PRO PORTRAIT LIGHTING WITH THESE 24 ESSENTIAL STUDIO SET-UPS





AG Landscapes

Your quick reference guide to key SLR settings you should use for stunning scenics

Composition

Some shots work when the main subject is placed in the centre of the frame – a lone tree in the landscape, for instance. However, most pictures feel more balanced if you move the key elements a little off-centre.

The rule of thirds is always a good starting point: imagine a noughts and crosses grid across the frame and place the focal point where the lines intersect. Your camera may have a built-in grid overlay to help with this. If it

• Aperture The higher the f-stop you

select (1/16 or 1/22, for

example) the greater

the depth of apparent

sharpness in the picture.

Avoid using your lens's

smallest aperture setting

doesn't, use the off-centre autofocus points as a guide - that's why they're positioned where they are...

as this can lead to soft

shots. Use lower f-stops

in combination with long

focal lengths (100mm or

more) to produce out of

behind a subject.

focus areas in front of and

DON'T FORGET TO...

Maximise sharpness Focus around a third of the way into the scene and select a small aperture. Use your SLR's depth of field preview button to check the focus depth.





Sturdy tripod
Make sure it reaches
eye level without raising
the centre column.



• Wide-angle zoom Ultra-wide-angles like the Sigma 10-20mm zoom are popular.



Telephoto zoom
 For 'compressing' a
 scene and isolating
 detail in your shots.



• Creative filters Carry a polariser, an ND (Neutral Density) grad and a strong solid ND filter in your kit bag,



 Remote release
 Ensure you get pinsharp shots by firing the shutter remotely.



O Shutter speed

Your SLR will need to use longer exposure times to compensate for smaller apertures, so use a tripod to ensure sharpness. At slow shutter speeds (1/30 sec or slower), movement in the landscape will be rendered as a blur. Fit a strong Neutral Density filter to enhance this effect – great for creating misty waves and glass-like expanses of water.



ISO settings

Stick to your camera's lower ISO (sensitivity) settings (ISO100-200) to ensure you get noise-free, detail-rich pictures. Higher ISO settings (ISO 800+) will enable you to

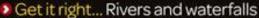
use shorter exposure times, but cause digital noise. Shoot in RAW quality mode so you can tweak the white balance and exposure in RAWediting software later.



BAG Landscapes

Use these essential tips to ensure success, whatever scene you're shooting

Get it right... Rolling hills





There really are no shortcuts when it comes to landscape photography – you need to be there when the land's looking its best at dawn and dusk. Mist can give countryside a magical quality, but be prepared to dial in a little exposure compensation to brighten it up. 2 Use a graduated Neutral Density (ND) filter to retain detail in a bright sky. 3 Ensure there's a focal point so that the viewer's eyes have somewhere to settle. 4 Check the edges of the frame for any distractions you may have missed.



1 Stormy weather makes for dramatic seascapes, but weatherproof your camera when shooting near the coast and don't get caught out by incoming tides! 2 Use a slow shutter speed to capture the grace and power of waterfalls, waves and river currents.

3 Low, raking sidelighting is perfect for revealing the texture of water-worn rocks. 4 If the drama is in the water, not the sky, give it more room – a 1/3 sky to 2/3 water split. If the water is still and you're focusing on reflections, try to split the frame evenly.



1 Shooting in a wood or forest? Consider framing trees so that they appear to stretch out of the frame and give the impression of an endless forest. 2 Do be conscious of patches of bright sky – a viewer's eye will immediately be drawn to them, so try to change shooting position so that they're hidden from view or cropped out. **3** There it is again — the rule of thirds in action, with the main tree placed in the prime spot. **4** Place a grey card in the frame and take a test shot. You can use this as a reference to correct white balance at the RAW processing stage.



1 If you're photographing hills and mountains, it's best to time your visit so that it coincides with the sun rising. This way you can add depth the scene, with background bathed in light and foreground in shadow, or vice versa.
2 Lakes and reservoirs can bring instant light and colour to a foreground and help to make a scene feel more balanced. **3** Look out for roads and rivers that you can include in the frame to lead the viewer from the foreground to the background. **4** Once you've got the wide shot, use a telephoto lens to compress the hills into 'layers'.

www.digitalcameraworld.com

400mm	250mm	POOR	POOR	POOR	POOR	POOR	FAIR	GOOD	GREAT	GREAT	GREAT
600mm	380mm	POOR	POOR	POOR	POOR	POOR	FAIR	GOOD	GREAT	GREAT	GREAT
940mm	600mm	DONT	EVEN	THINK	ABOUT	IT.	BAD	POOR	FAIR	GOOD	GREAT
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Fullame	Clophol Sensol	1/10	1/20	1/25	1/60	1/80	1/100	1/200	1/400	1/640	1/1000
16mm	10mm	GOOD	GREAT	GREAT	GREAT	GREAT	GREAT	GREAT	GREAT	GREAT	GREAT
24 <i>mm</i>	15 <i>mm</i>	6000	GREAT	GREAT	GREAT	GREA	GREAT	GREAT	GREAT	GREAT	GREAT
50mm	32mm	POOR	POOR	GOOD	GREAT						
70mm	43 <i>mm</i>	POOR	POOR	FAIR	GOOD	GREAT	GREAT	GREAT	GREAT	GREAT	GREAT
200mm	130mm	POOR	POOR	POOR	FAIR	GOOD	GREAT	GREAT	GREAT	GREAT	GREAT
400mm	250mm	POOR	POOR	POOR	FAIR	GOOD	GOOD	GREAT	GREAT	GREAT	GREAT
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GOOD GREAT GREAT GREAT GREAT

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ane 101

CIOP Sensor

MINIMUM

	a shutter speed of 1/50 or faster (1/80, 1/100, etcetera).
	However: Crop factor, image stabilization, and extreme focal lengths break the rule. For that, use the chart below.
) - NO IMA	GE STABILIZATION

1/100

GREAT GREAT GREAT GREAT

GREAT GREAT

GREAT GREAT

RPNESS

General rule: When handholding the camera, don't use a shutter speed slower than the focal length of your lens.

For example: If you're shooting with a 50mm lens, use

1/200

GREAT

GREAT

GREAT

GREAT

1/400

GREAT

GREAT

GREAT

GREAT

GREAT

1/640

GREAT

GREAT

GREAT

GREAT

GREAT

1/1000

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01

A Short History of PHOTOGRAPHIC C, MERA

by Retrofuturismo Hitsch







Viglad





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PHOTOGRAPHYPIXEL.COM



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Koduk Columna 100

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A photograph is the pause button of life