



CPOPC February 2024

February 10, 2024

Welcome

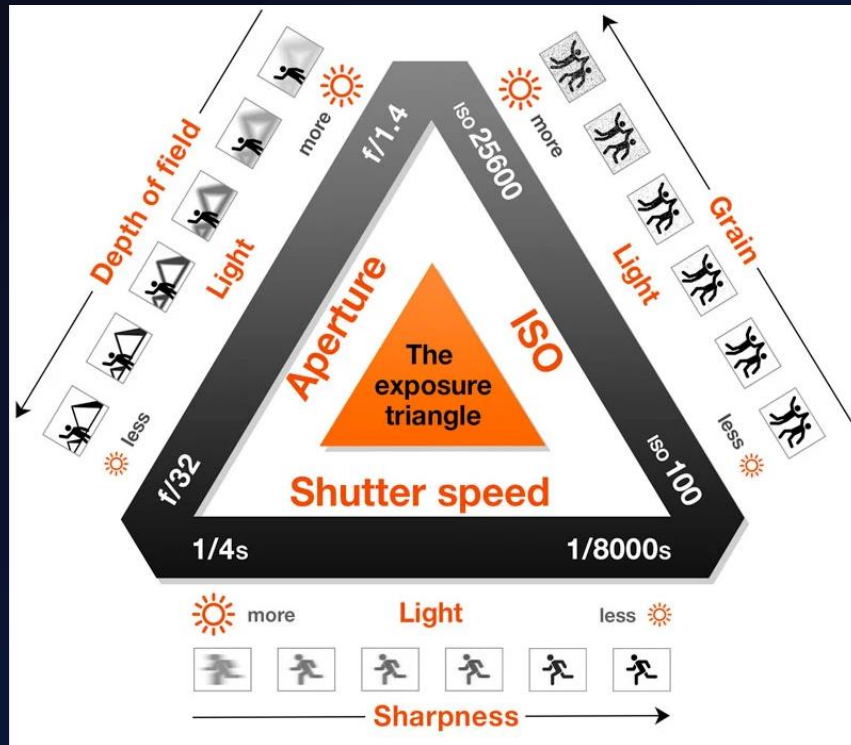
- Acknowledgement of guests and prospective members
- Break between 11am & 11:30am
- For help with technical problems, email john@miner.ca
- Please be respectful of others but do
 - join in
 - ask questions
 - participate

February 2024

Agenda topics

- Featured speaker: **Peter Fundarek—the exposure triangle**
- February Challenge: **All creatures great and small**
- February technique: **HDR editing**
- Upcoming challenges and competitions
- Member share: Nick Ingold: **South Africa and Namibia—a photo journey**
- February workshop: **Glass**
- Update to graduation rules
- Looking ahead to next year
- Notices and reminders
- Photo 101: **Darren Bessette—image sensors**

Featured Speaker



Peter Fundarek

B2B: the exposure triangle

Break

- Restart in 10 minutes with the February Challenge
- Screen sharing stopped to facilitate chat

Off topic issue

- No submitted photos for *Truly Canadian* were off topic based on verbal instructions and posted definition.
- Off topic: If the image was **clearly** taken outside of Canada, it will be considered off topic.
- However, **9** off topic votes were given. This discounted scores of perfectly eligible photos.
- Was it neglecting to read instructions? Was it lack of trust amongst fellow colleagues/friends?

Before you vote:

- Listen to my instructions at the previous meeting.
- Read the detailed description online.
- Write me if you are confused or unsure.
- Give fellow members the benefit of the doubt.

February challenge

All creatures great and small

- Any non-human part of the animal kingdom including mammals, birds, reptiles and insects
- **Off topic: Humans and inanimate/inorganic objects**
- **Submission deadline: Saturday, Feb 3, 2024** (midnight)
- **Voting deadline: Thursday, Feb 8, 2024** (midnight)
- All archived images are allowed



Hans Jurgen



Yuichi Kageyama



Hasmik Olson

February Technique – Editing for HDR

- Dynamic range is simply the range of the lightest tones to the darkest tones within a photo.
- High dynamic range (HDR) is when the image has high contrast, i.e. areas that are very light and very dark.
- Photos can be edited to lighten shadows and/or darken highlights to reveal the details that were visible to your eye. Also, an individual area can be selected and adjusted for level of brightness.
- Depending on the scene, you may not be able to fully recover details in shadows, highlights or both.
- Submit **Before and After Images by Feb 7th**



Before

After



Lynda Buske



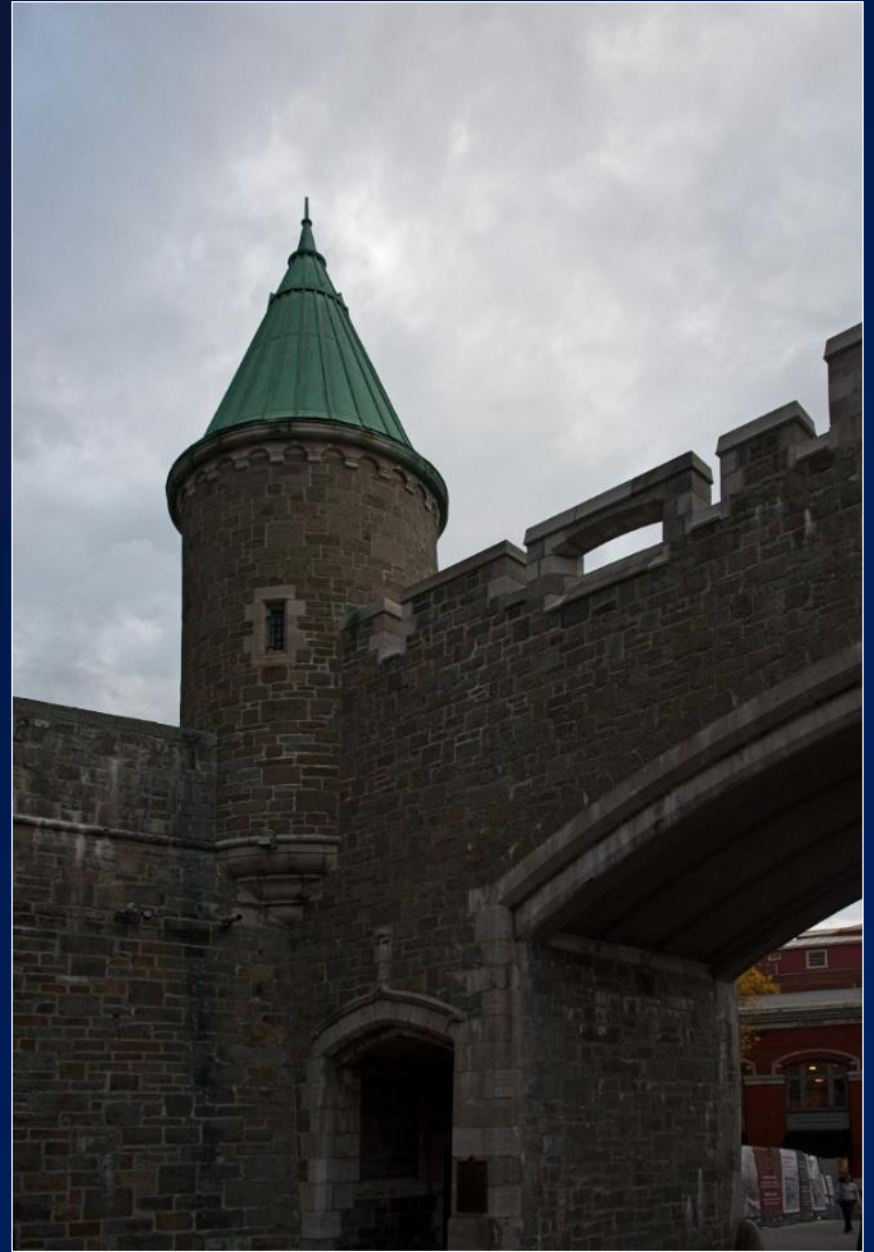
John Ingold





Johan Carignan





Chris Taylor



Nick Ingold





Matthew
Krolak





Lynda Buske



March challenge – Glass

- Can include a wide range of glass subjects both large (e.g. buildings) or small (e.g. works of art). Other elements are allowed but the glass itself must be as important as what may be reflected in it.
- **Off topic:** If the glass itself is not the main subject of the image
- **Submission deadline:** Saturday, March 2, 2024 (midnight)
- **Voting deadline:** Thursday, March 7, 2024 (midnight)
- All archived images are allowed

Michael-48yl,
Unsplash



Ilya Goprborukov,
Unsplash



Marika Vinkman
Unsplash



March Technique – Flipped images

- Most visual theory implies that our eye enters the frame from the left, so flipping an image can help influence where the eye is drawn. If elements are moving left to right, the momentum is comfortable and easy. If they are moving right to left, there is tension or struggle introduced into the scene.

Source: Click Community, 2018

- Images can also be flipped vertically for a different perspective
- Submit Images **by March 6th**



Lynda Buske



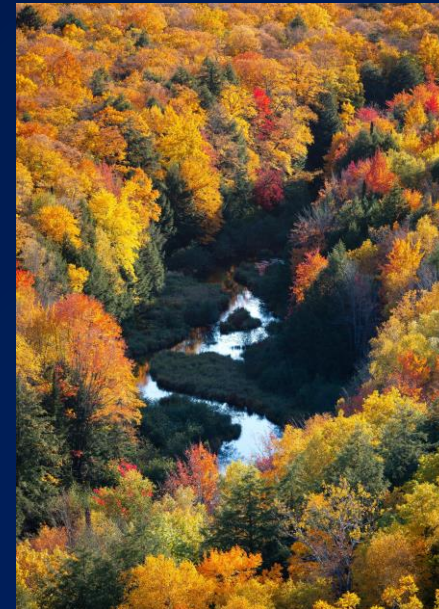
Randy Jacob

Spring competition – Vertical Landscape

- The image must depict a natural scene where man-made objects can be included but are secondary to the main scene. The vertical dimension of the photo must be longer than the horizontal dimension.
- Images must have been taken since June 2023
- Submit up to **three** images
- Submission deadline: Saturday, May 18 (midnight)



Casey
Horner



Jordan
Steranka

Dave –
M4cxo

Inter-Club activities

- **Inter-club competition**
 - Clark Hall, RA Centre on April 9, 7pm
 - Digital and print competitions
 - Topic : *Truly Canadian*
 - One photo is on topic, 2 others can be on topic or general category
 - **RA website for photo submission opens January 27**
 - Deadline for on-line submission: **Tuesday March 19**

Note: No Zoom option for event

Member share

Nick Ingold

South Africa and Namibia

- A Photo Journey

Glass Top Workshop - Bright Field Lighting

- 17 February 2024 from 10 AM - 2 PM bring a lunch
- @ Queenswood Heights
- Bring
 - tripod
 - medium focal length lens(es) – full frame equivalent 50mm - 135mm
 - you can bring your own glassware



New menu item under **Members Only**: *Guidelines for CPOPC Challenges/Competitions*

MEMBERS ONLY ▾	NEWS & EVENTS ▾	CONTACT US
Guidelines for CPOPC Challenges / Competitions >	CPOPC Challenges and Competitions	
Challenges >	Level 1 and Level 2 Members	
Competitions >	Voting Information	
Member Contributions	Permitted Use of AI and Drones	
Technique Contribution >	Guide to Uploading Image Files	
Feedback Discussion Group		
Workshops >		
Events >		
Past Meetings >		
Member Resources >		

Update to graduation rules

Modified the rules for the award of excellence

Each ribbon will be assigned a point with greater weight being given to higher placements.

- Award of excellence = 4 points (NEW)
- First place ribbon = 3 points
- Second place ribbon = 2 points
- Third place ribbon = 1 point

A member must accumulate either 9 points in a single season or 18 points over multiple seasons to qualify for graduation to Level 2.

Looking ahead to next year

- Current executive:
 - Alan White – President *
 - Chris Taylor – Vice President
 - John Miner – Webmaster
 - John Ingold – Communications Director
 - Lynda Buske & Scott Udle – Competition Co-Directors
 - Marianne Pethke * & Johan Carignan – Program Co-Directors
 - Roger Régimbal – Treasurer

* NOTE: Alan White will be stepping down as President and Marianne would like a reduced role with respect to programs. It is **essential** that these positions be filled for the club to continue. Free OTJ training provided by executive members!

Job description for president

- Chairing Executive meetings, and providing meeting agendas
- Presiding at all Club meetings
- Preparing the presentation slide deck for club meetings
 - in 2024/25 this duty can be shared or delegated to the VP
- Calling extraordinary meetings to deal with urgent issues
- Overseeing the elaboration of yearly programs with the Officers involved
- Assisting Officers in creating yearly programs
- Giving approval to all amendments to programs, competitions, and events
- Booking facilities for all Club meetings

Job description for Co-Director, Programs

- Preparing, in consultation with the President, a yearly program of activities and guest speakers for the club's regular meetings, and presenting it to the executive for approval
- Organizing workshops and outings to complement the regular club meetings
- Maintaining a list of guest speakers, with recommendations

Notices

CAPA Membership

- CPOPC is now a member of CAPA
- This entitles our members to a free limited membership in CAPA
- You have to register yourself as a member of a CAPA club
- You will be able to read the digital Canadian Photography magazine and submit articles to it



The screenshot shows the website for the Canadian Association For Photographic Art (CAPA). At the top left is the CAPA logo, and at the top right is the Facebook logo. Below the logo is a 'Menu' button. The main heading is 'Canadian Association For Photographic Art'. Below this is a paragraph of text: 'This is a limited membership for members of CAPA Clubs who are not individual members of CAPA. This is provided at no cost as a benefit of membership in a CAPA Club. This registered limited membership gives you access to a digital copy of the current Canadian Photography magazine, and the opportunity to submit articles to the magazine.' Below the text is the product title 'Member of a CAPA Club'. To the left of the product description is a photograph of two bluebirds perched on a pine branch. To the right of the photograph is the price '\$0.00' and a description: 'This is a limited membership for members of CAPA Clubs who are not individual members of CAPA. This is provided at no cost as a benefit of membership in a CAPA Club. This registered limited membership gives you access to a digital copy of the current Canadian Photography magazine, and the opportunity to submit articles to the magazine.' Below the description is a quantity selector showing '1' and an 'Add to cart' button. At the bottom right, the category is listed as 'Individual & Family Memberships'.

<https://capacanada.ca/product/member-of-a-cap-a-club/>

CAPA Club Competition

Canada: My Country



- Your best image which symbolizes our unique Canadian identity and the beauties of our country
 - MUST be geographically in Canada
- CPOPC allowed to submit six photos from six individual photographers
- Please read all **CAPA Rules** about the competitions.
 - **Different rules** then CPOPC!
- Deadline to submit photos April 7th, 2024 at Midnight.
- Page with all information
 - Members Only > Competitions > CAPA 2024 Competition
 - <https://cpopc.ca/2023-2024-year/capa-2024-competition/>

Ontario Council of Camera Clubs (O3C.ca)

- Access to speakers registry and judges list
- Access to judging courses
- 2023-24 Open Challenge with many topics
- Discounted photo tours in 2024 to Antarctica, Costa Rica



Camera Club of Ottawa Flea market & social

February 13th, 7:00-9:00PM

- no admission or table fees



...to study and promote the art of photography in all its branches... since 1894

[Home](#) [Organization](#) [Membership Information](#) [Help](#)

CCO Flea market & Social

The event will be held on February 13, 2024 from 7:00 PM to 9:00 PM.

CCO 2024 Flea Market & Social (Cash Only)

- Hintonburg CC, 1064 Wellington St. W (basement, large meeting room) (7PM - 9 PM)
- Room Setup (5:30 PM - 7:00 PM),
- Flea market open (7:00 PM - 9:00 PM),
- Cleanup (9:00 PM - 9:30 PM)

There are no admission or table fees. CCO members and guests are welcome to reserve a table or a shared table.

<https://www.cameraclubottawa.com>

Home > Organization > Calendar > click on entry for Feb 13th

CPOPC Communications

Communications Director: John Ingold



- Monthly Newsletter + deadline reminders
- Facebook: **Orleans Photo Club**
 - Challenge and Competition winners' photos, event updates
 - <https://www.facebook.com/CPOPC>
- Instagram: **Orleans_Photo_Club**
 - Member contributions photos, event updates
 - https://www.instagram.com/orleans_photo_club/?hl=en
- X/Twitter: **OrleansPhotoClb**
 - Deadlines, event updates
 - <https://twitter.com/OrleansPhotoClb>



Annual Membership Fees: 2023-2024

Secretary and Treasurer: Roger Regimbal

- Individual: \$50
\$25 for new members only joining between Feb. 1 and June 30
- Family: \$75
\$35 for new members only joining between Feb. 1 and June 30
- **NEW**
Online \$25 – full *online* participation + outings
- All returning members must pay full price
- Full payment was due before end of November 2023
- Access to *Members Only* section of website cut off after November
- Please pay online via PayPal using the CPOPC web site *How to Join* page

2023-24 Speaker and Topics Schedule

Programs Director: Marianne Pethke

Workshops: Johan Carignan

Meeting topics

- Oct: Dan Parent Nature/wildlife
- Nov: Gareth Jones Creative imagery
- Jan: Carol Anne Bell-Smith Impressionist photography
- Feb: Peter Fundarek B2B: The exposure triangle
- Mar: Mark Bowie How to photograph trees & forests
- Apr: Mike Giovinazzo One light portraits
- May: Mike Higgins Landscape photography

2023-24 workshops & outings

Programs Director: Marianne Pethke

Workshops: Johan Carignan

Outings

- October Gatineau park
- November Scavenger Hunt
- December Christmas Lights at Taffy Lane
- March National Art Gallery/Architecture
- June Night Sky Photography (how to get stars in focus) Petrie Island

2023-24 workshops & outings

Programs Director: Marianne Pethke

Workshops: Johan Carignan

Workshops

- 27 January Kas Stone Winter Photography (online)
- 17 February Manfred Mueller Glass Tabletop
- 20 April Adrian Duey Still Life and Food Lighting
- 18 May Suliman Chadirji Ambient Light Photography (downtown Ottawa in the evening)

2023-24 Calendar

MEMBER'S MEETINGS					EXEC MEETINGS
Month	Where	Special?	Date	Time(members)	ONLINE @ 7pm
Sept	QHCC	regular	09-Sep	10.00 to 12.30	Mon 2023-08-28
Oct	QHCC	regular	21-Oct	10.00 to 12.30	Mon 2023-10-09
Nov	Online	regular	18-Nov	10.00 to 12.30	Mon 2023-11-06
Dec	QHCC	regular + potluck	09-Dec	10.00 to 13.00	Mon 2023-11-27
Jan	Online	regular	13-Jan	10.00 to 12.30	Tues 2024-01-02
Feb	Online	regular	10-Feb	10.00 to 12.30	Sun 2024-01-28
Mar	Online	regular	09-Mar	10.00 to 12.30	Sun 2024-02-25
Apr	QHCC	regular	13-Apr	10.00 to 12.30	Sun 2024-03-31
May	QHCC	regular	11-May	10.00 to 12.30	Sun 2024-04-28
Jun	QHCC	regular + potluck	08-Jun	10.00 to 13.00	Sun 2024-05-26

Next meeting: Saturday, March 9th

- Online on Zoom
- Featured speaker: Mark Bowie—How to photograph trees & forests
- Challenge: Glass
 - Submission deadline: Saturday, March 2nd, 2024 (Midnight)
- Technique: Flipped images
- Photo 101: Shooting near water

Photo 101

Your Camera Is Colour Blind
Darren Bessette

Club Photo



ORLÉANS

Photo Club

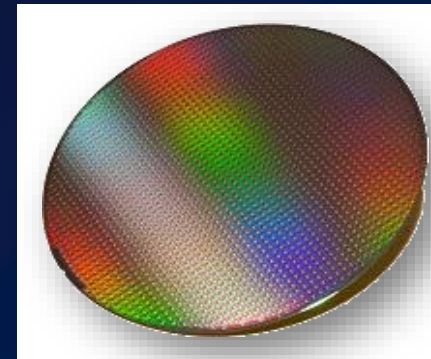
Your Camera Is Colour Blind

CPOPC Photography 101

Darren Bessette – January 13, 2024

Image Sensor

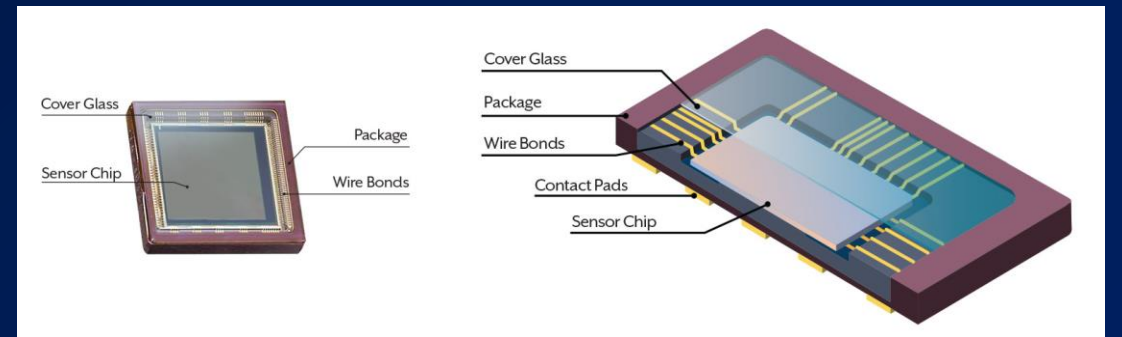
- Piece of silicon that is doped with other elements to create transistors, and other micro-components
- Purpose: Convert photons into electrons that can be measured
- Most common image sensors types: CMOS and CCD
- Bare die vs packaged



Silicon Wafer

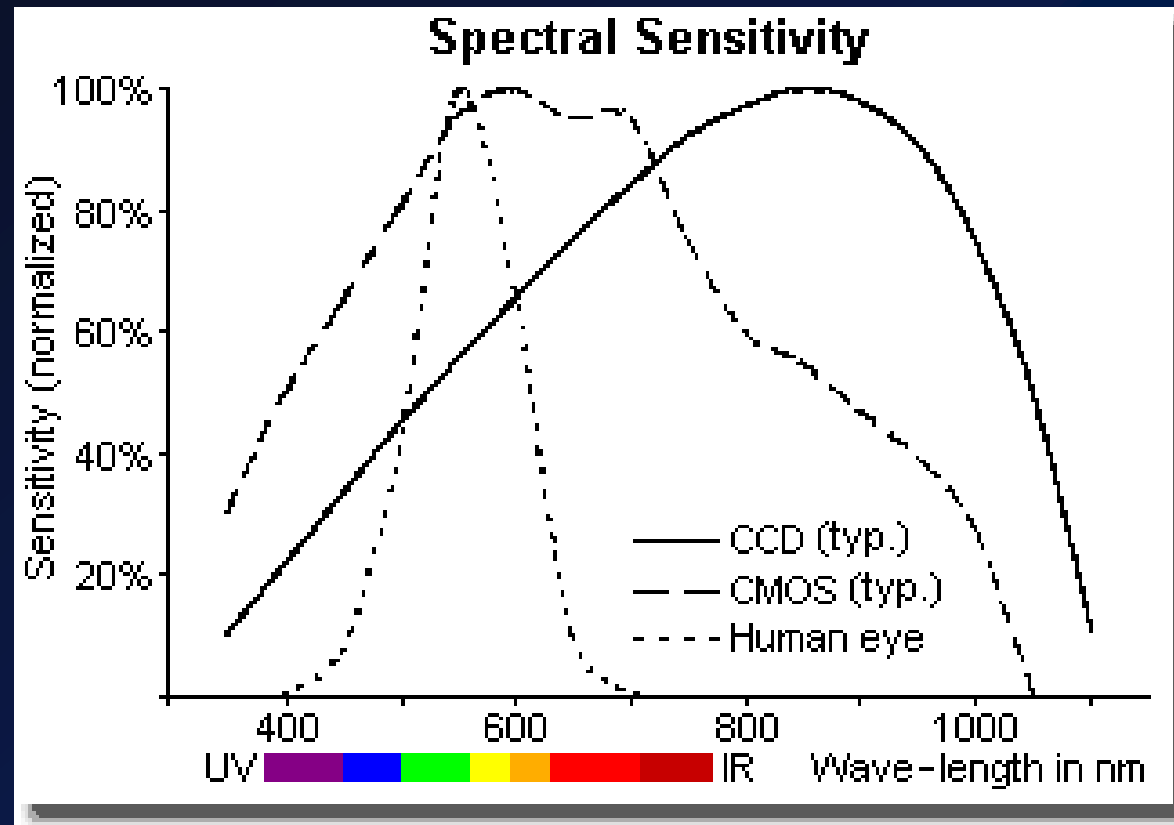


Bare Die Sensor

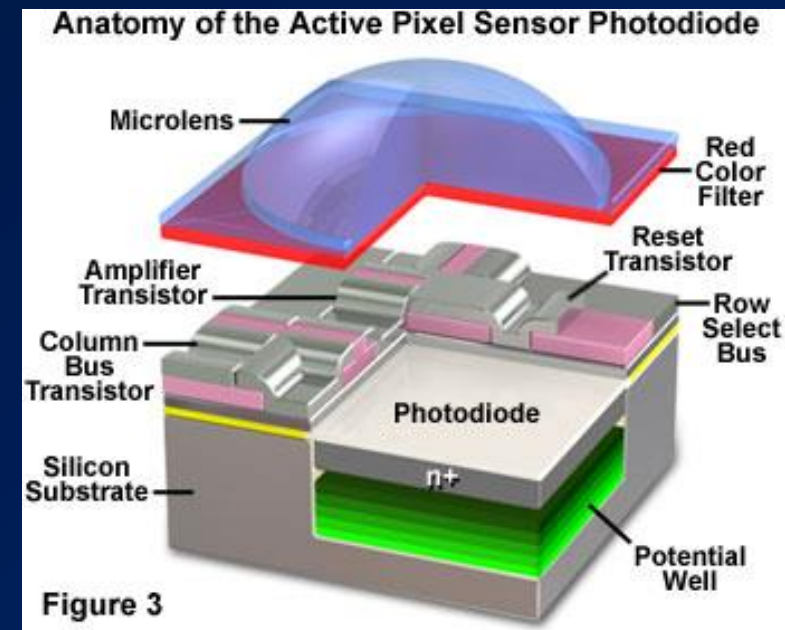
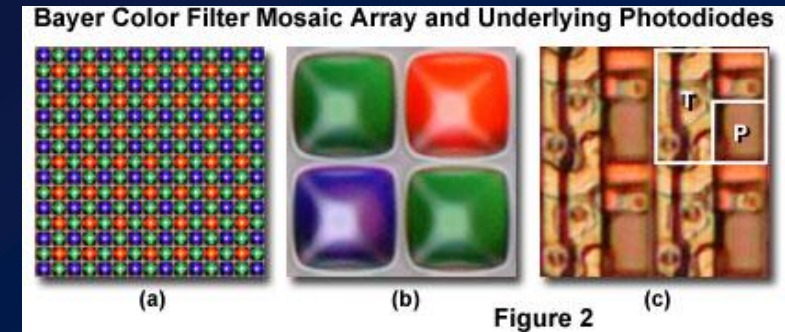
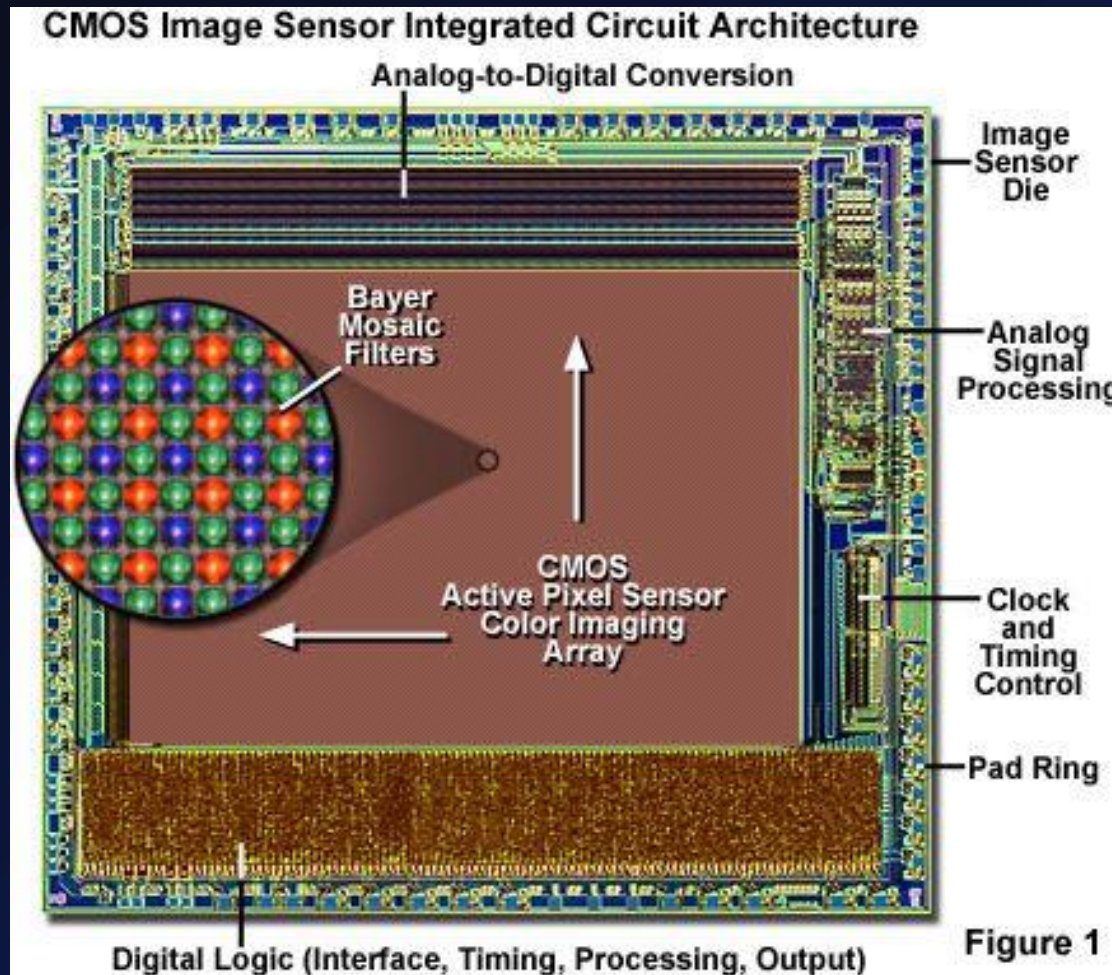


Packaged Sensor

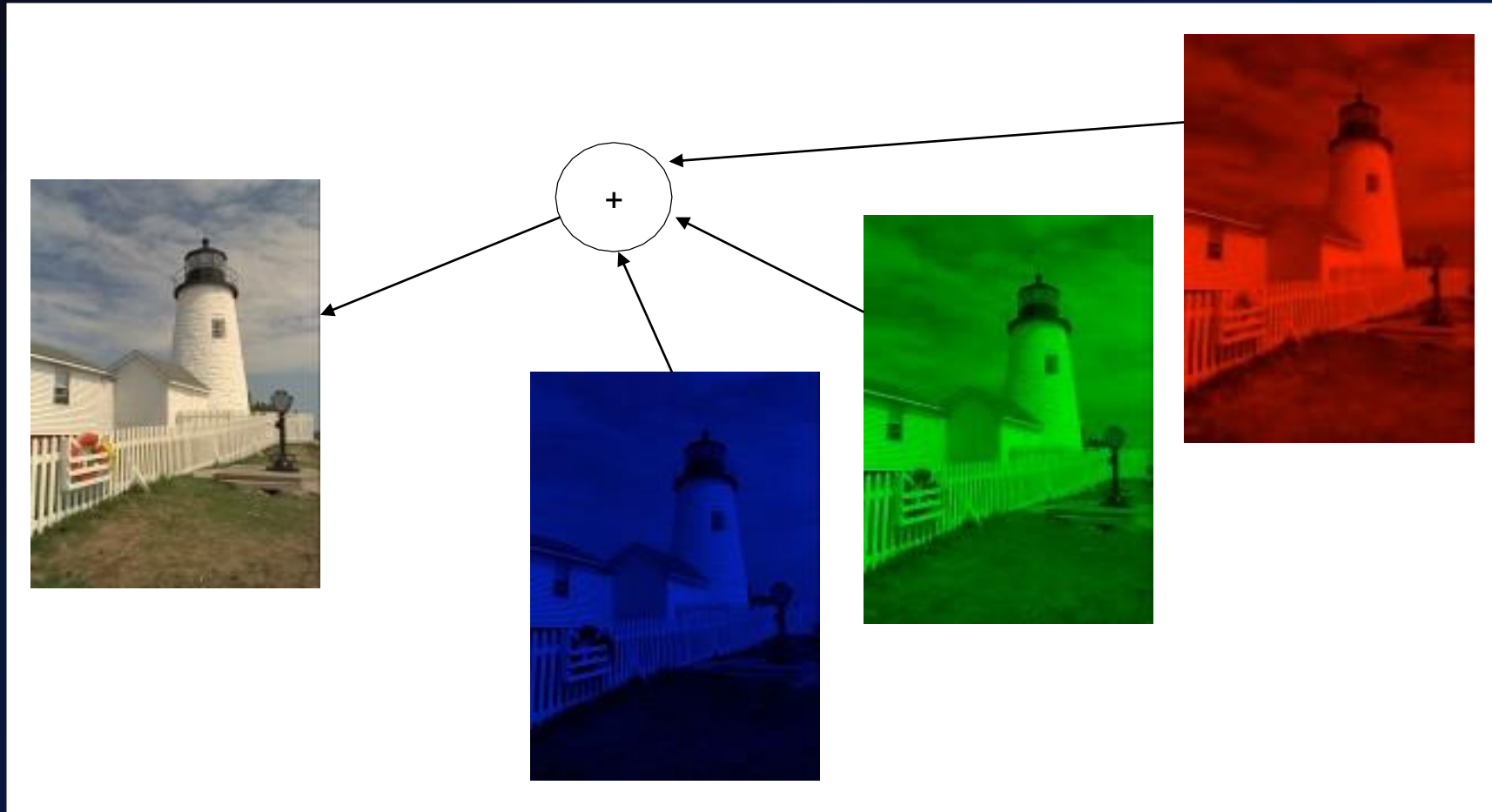
Spectral Response



Sensor and Pixel Architectures



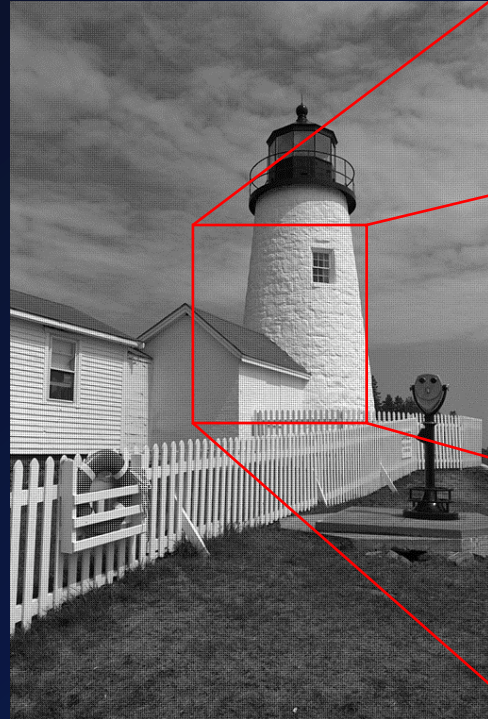
Colour Planes



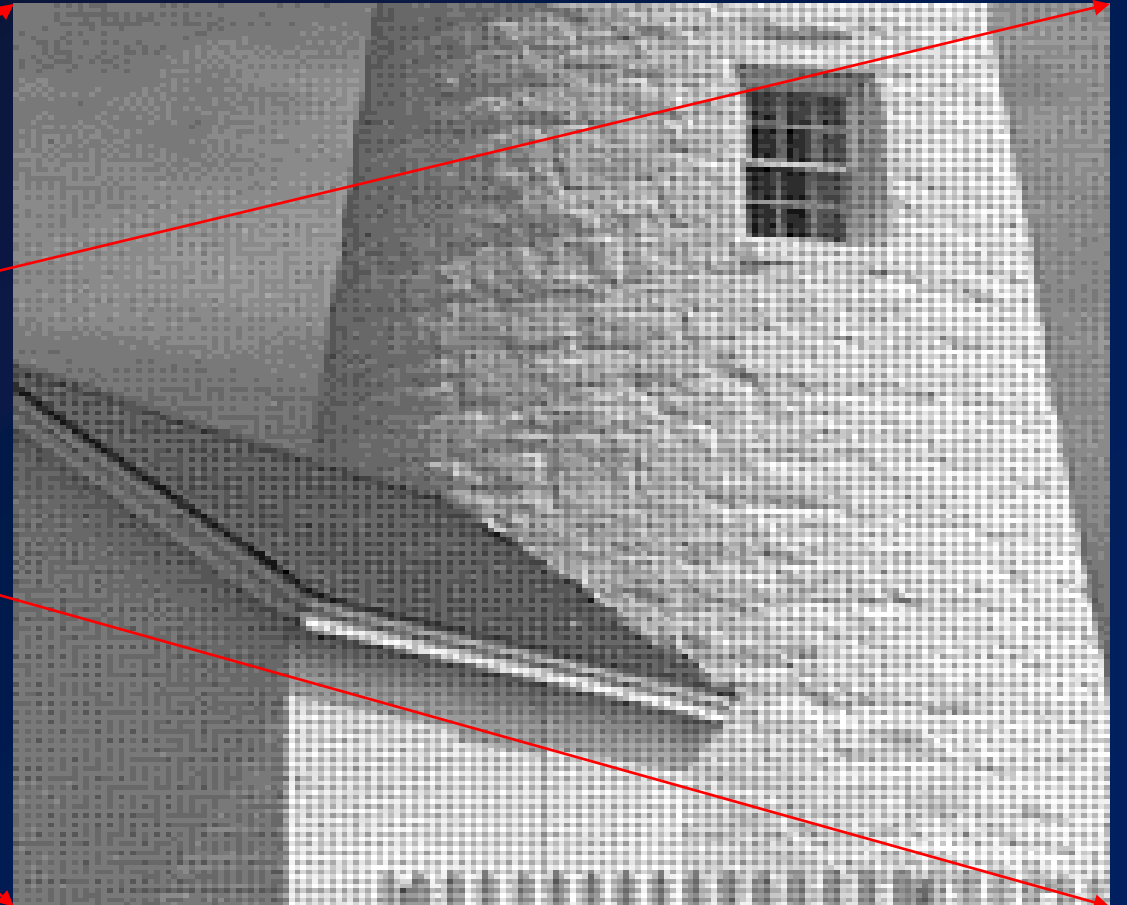
Raw Image



Full Colour Image



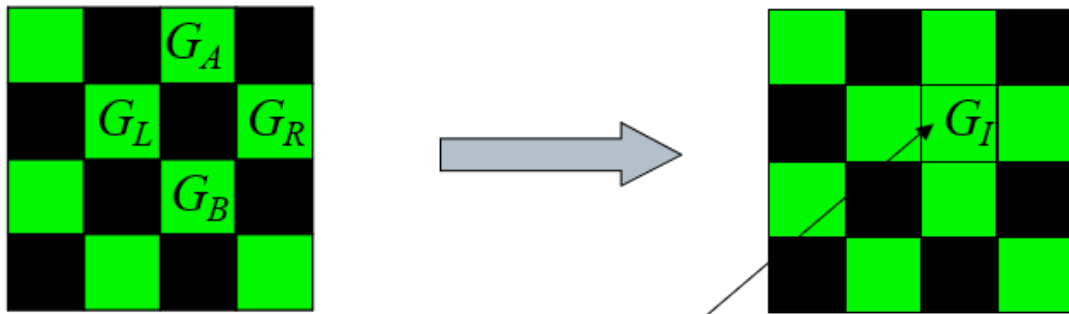
Raw Image



Raw Image Zoom

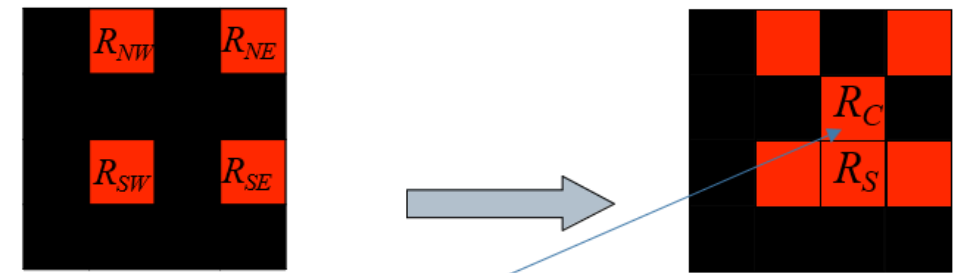
Demosaicing – Colour Interpolation

Green channel: bilinear interpolation



$$G_I = \frac{1}{4}(G_L + G_R + G_B + G_A)$$

Red channel: bilinear interpolation

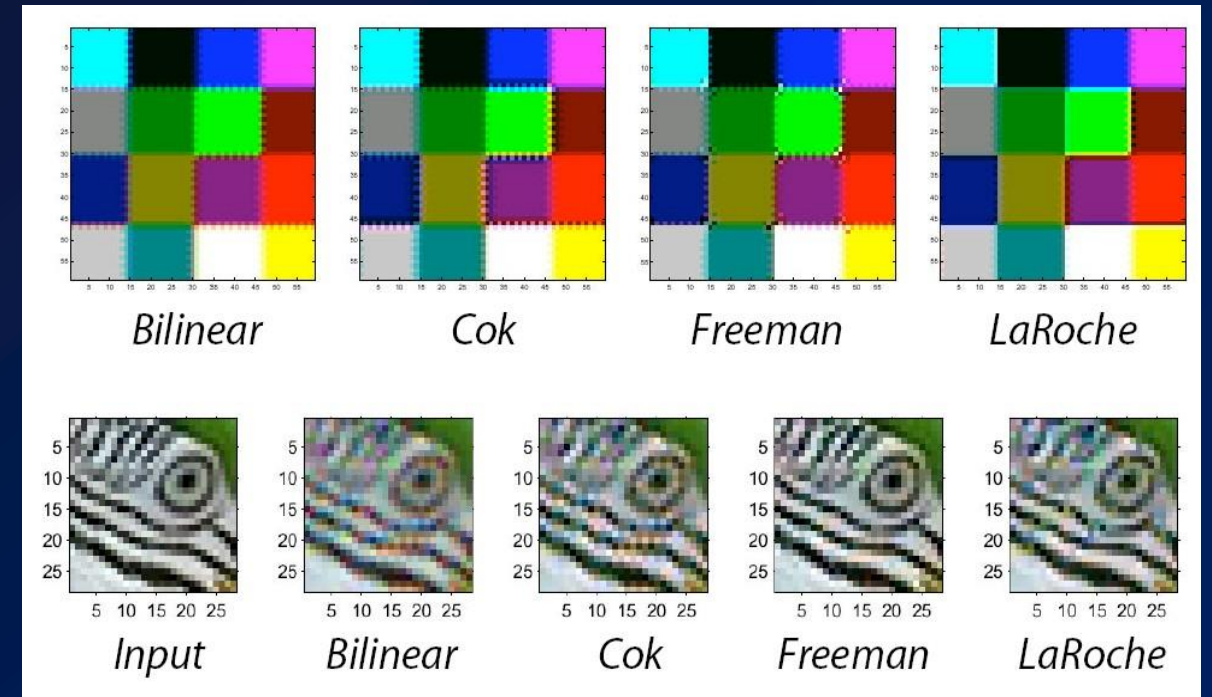
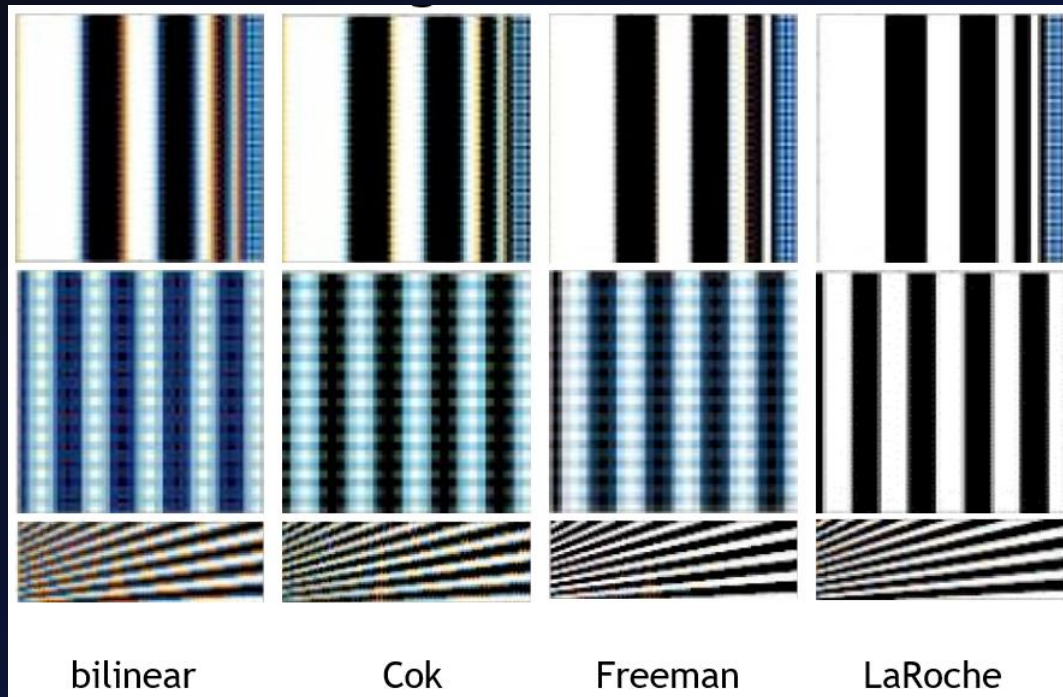


$$R_C = \frac{1}{4}(R_{NW} + R_{NE} + R_{SW} + R_{SE})$$

$$R_S = \frac{1}{2}(R_{SW} + R_{SE})$$

 (Ctrl) ▾

Demosaicing - Issues



Reproducing Colour Under Different Lighting

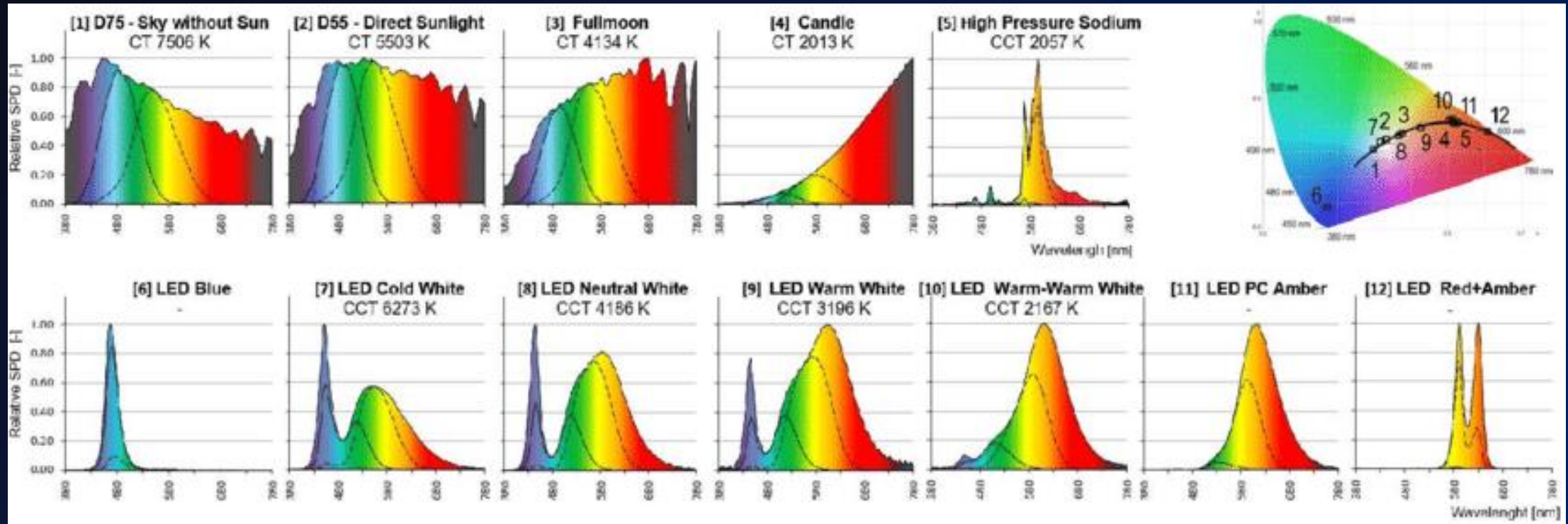
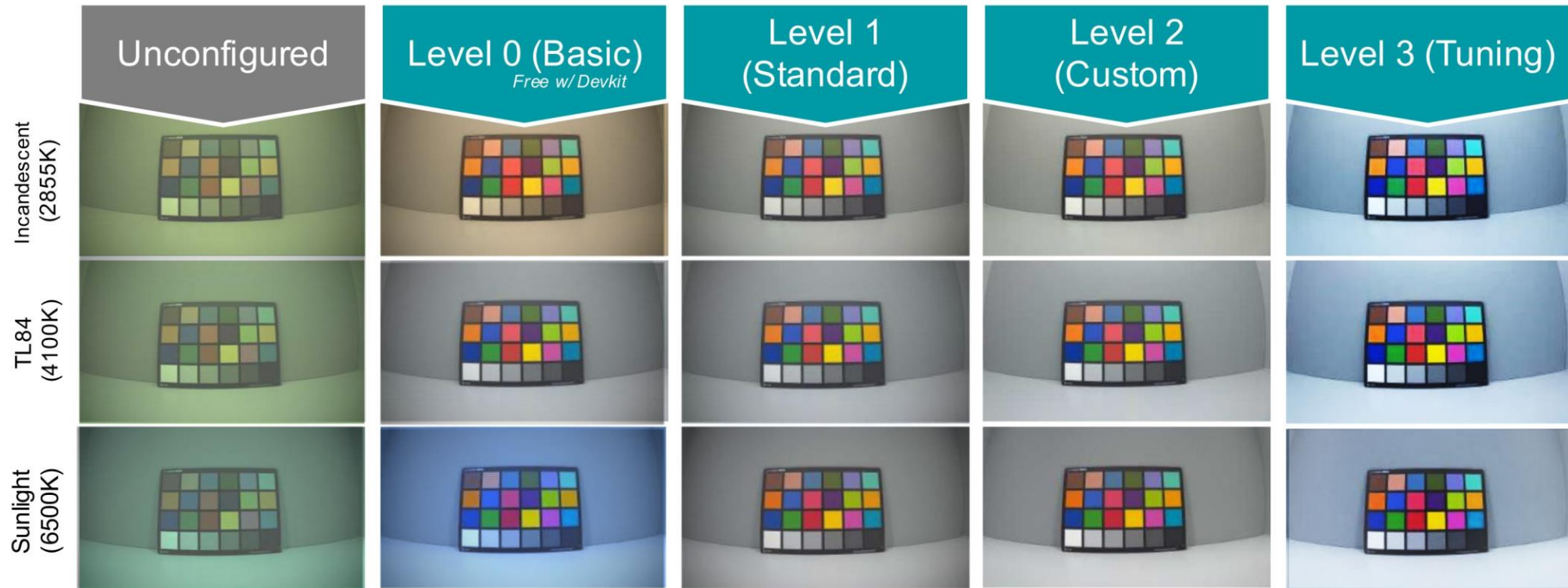


Image Tuning



Summary

- Cameras/sensors do not see colour
 - Need to filter light that hits each pixel to get colour info
- Colour information is interpolated for missing pixels using neighbour pixels
 - Can cause colour artifacts in final images
- Not all light sources provides full visible light spectrum
 - Need to tune and balance image output to align with how humans see targets

Possible Lights to Bytes Workshop

- In depth view of how cameras/image sensors convert photons to digital images on a screen
- Image sensor architectures, functions, features
- Light/energy spectrums definitions and how to “see” them
- Demosaicing, Colour Correction Matrices, and Image Tuning
- Camera design, components and features