

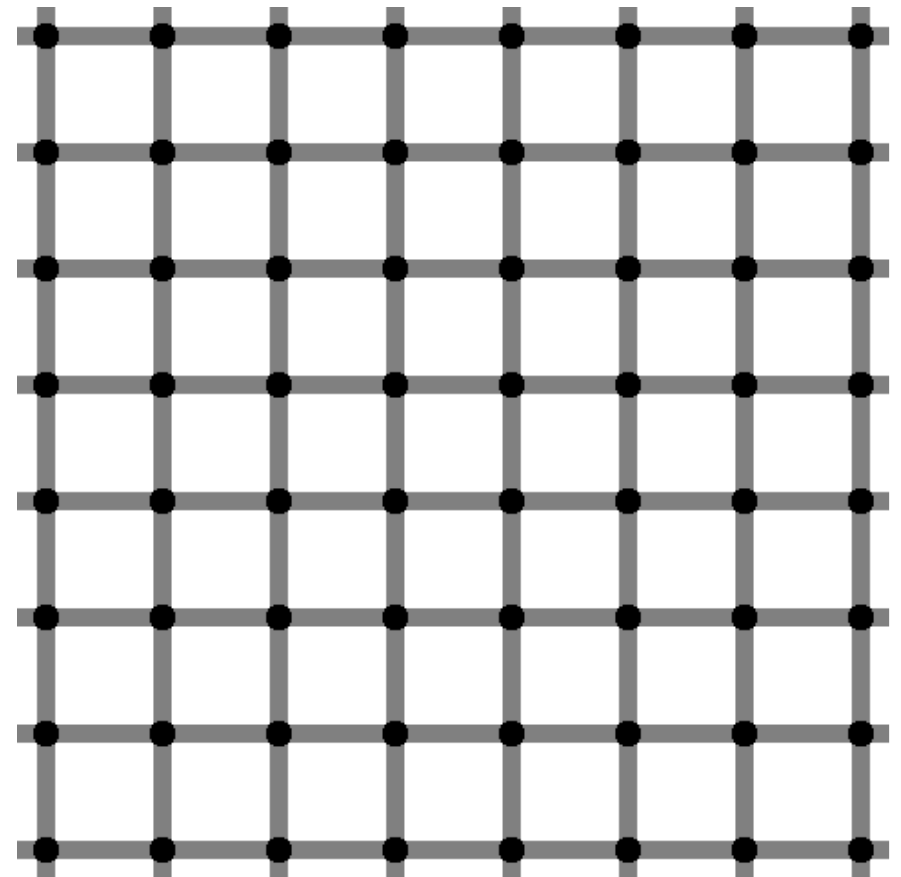
Infocommunication

Light and vision

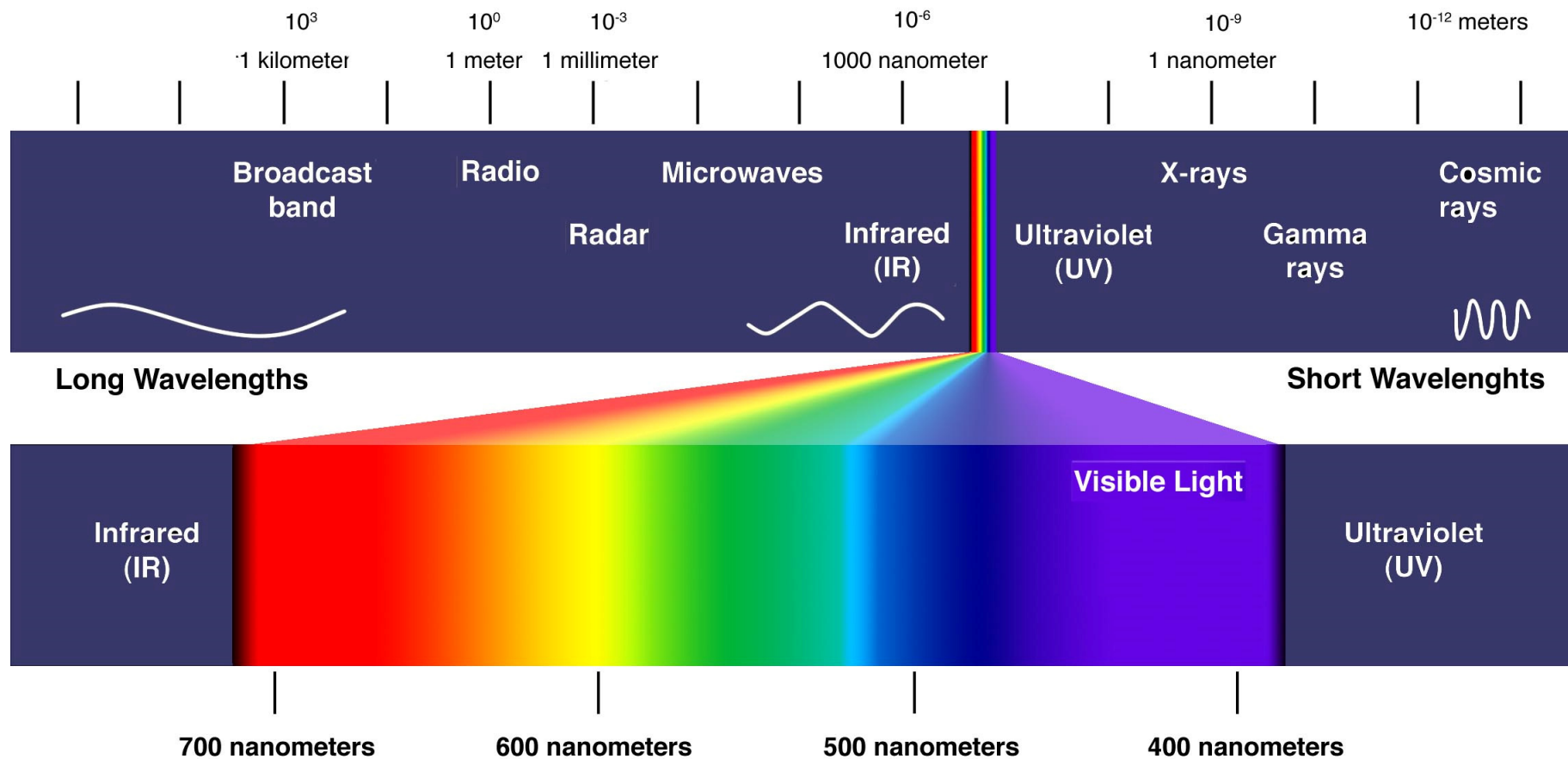
Tamás Csapó

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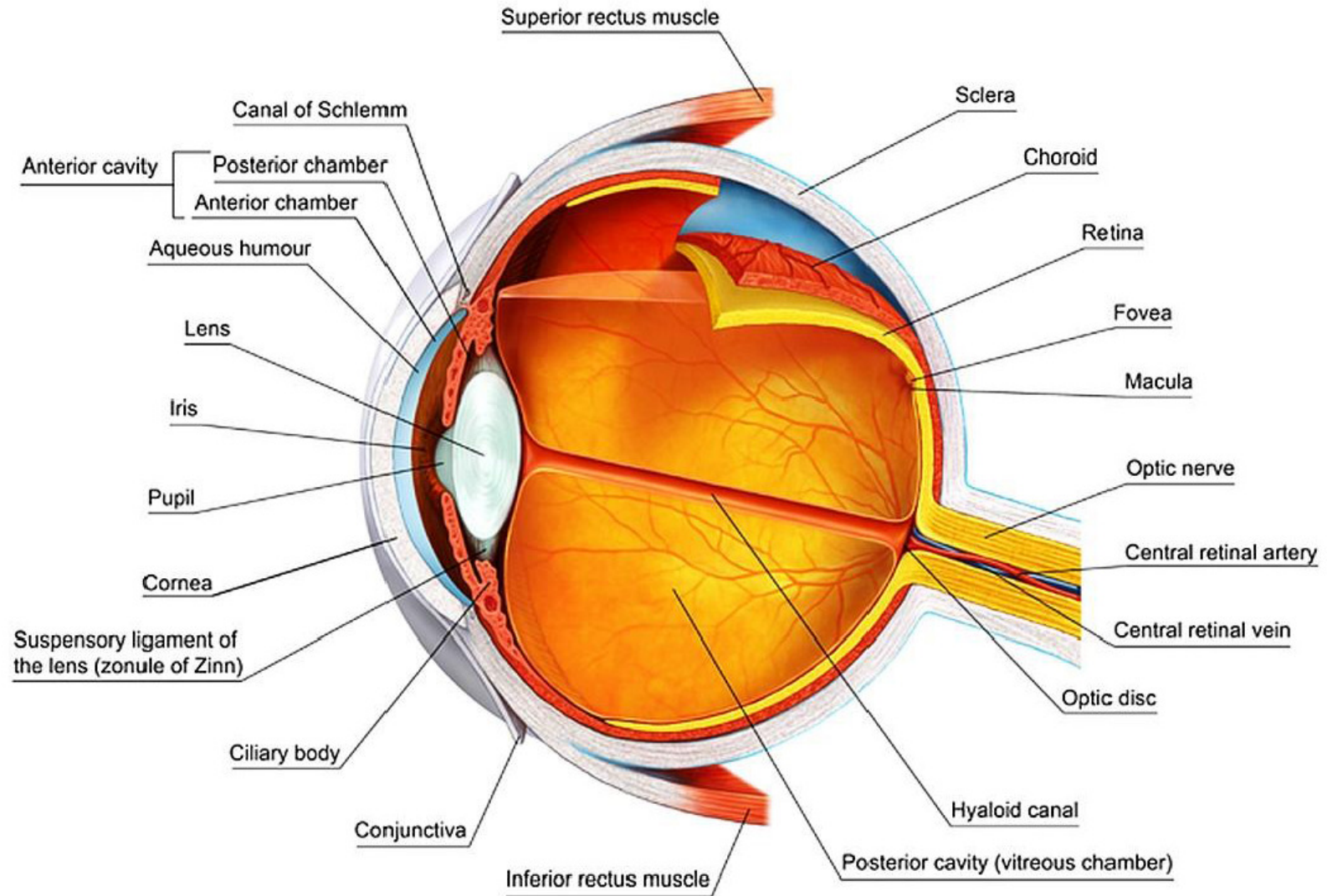
2018 Spring



Electromagnetic spectrum



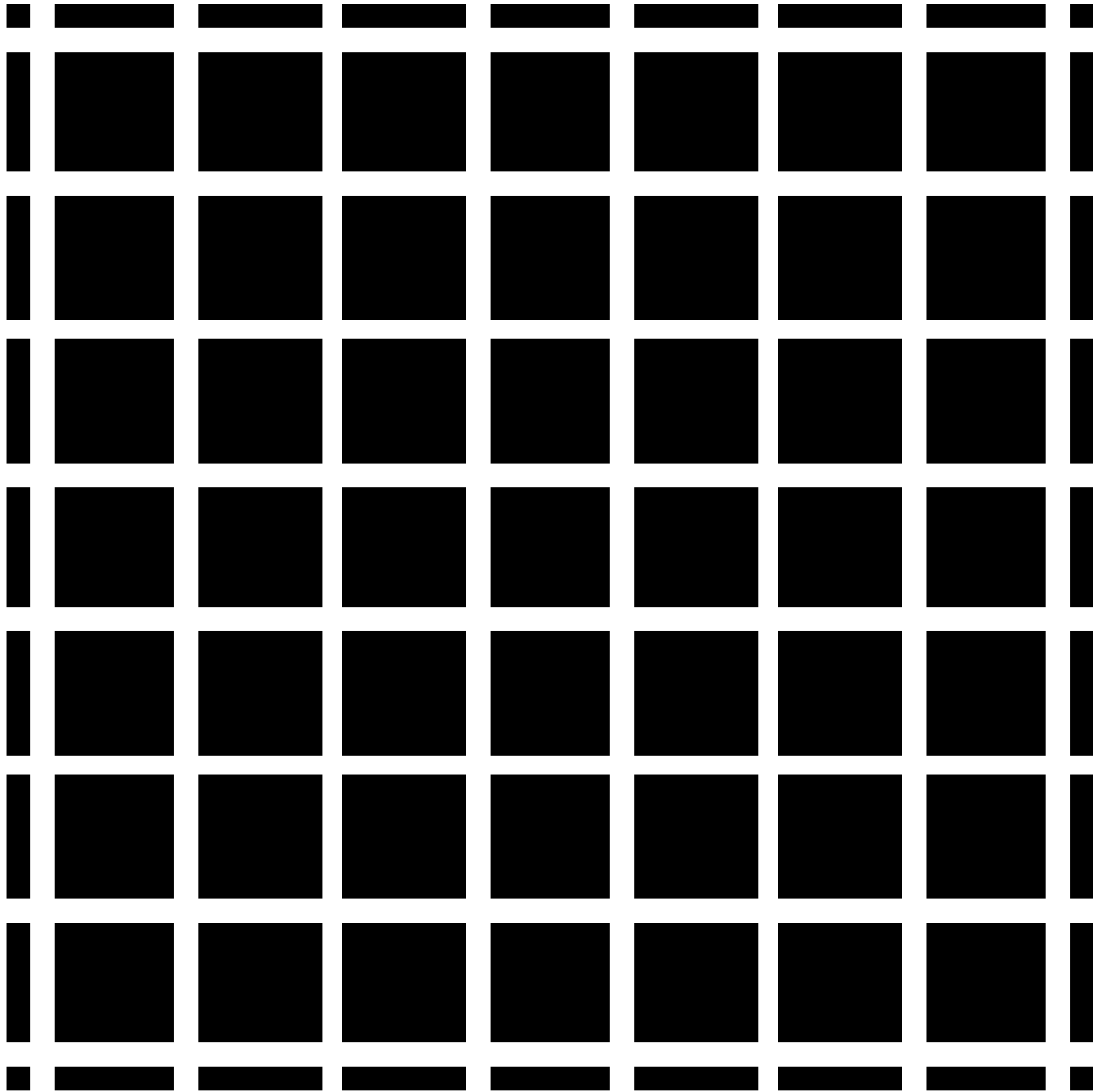
Structure of the eye



Source: v

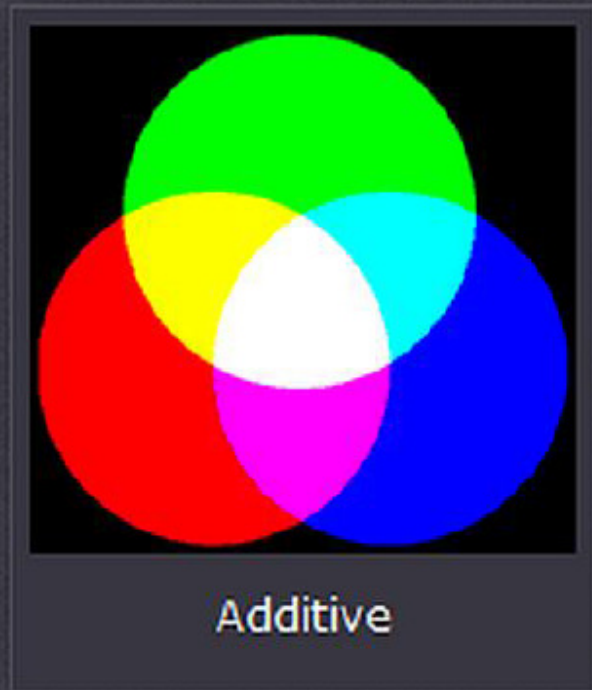
Limitations of the human eye

- Optical illusions
 - <http://www.michaelbach.de/ot/>





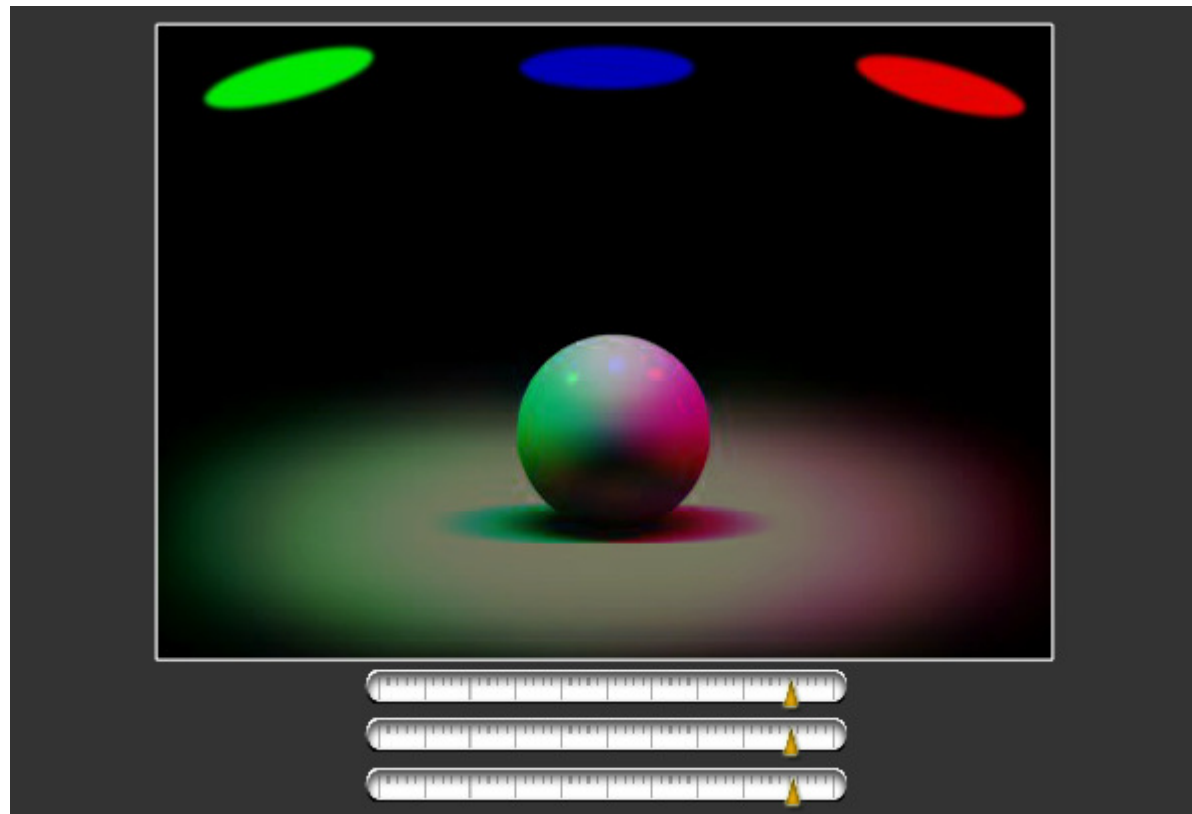
Additive and subtractive color mixing



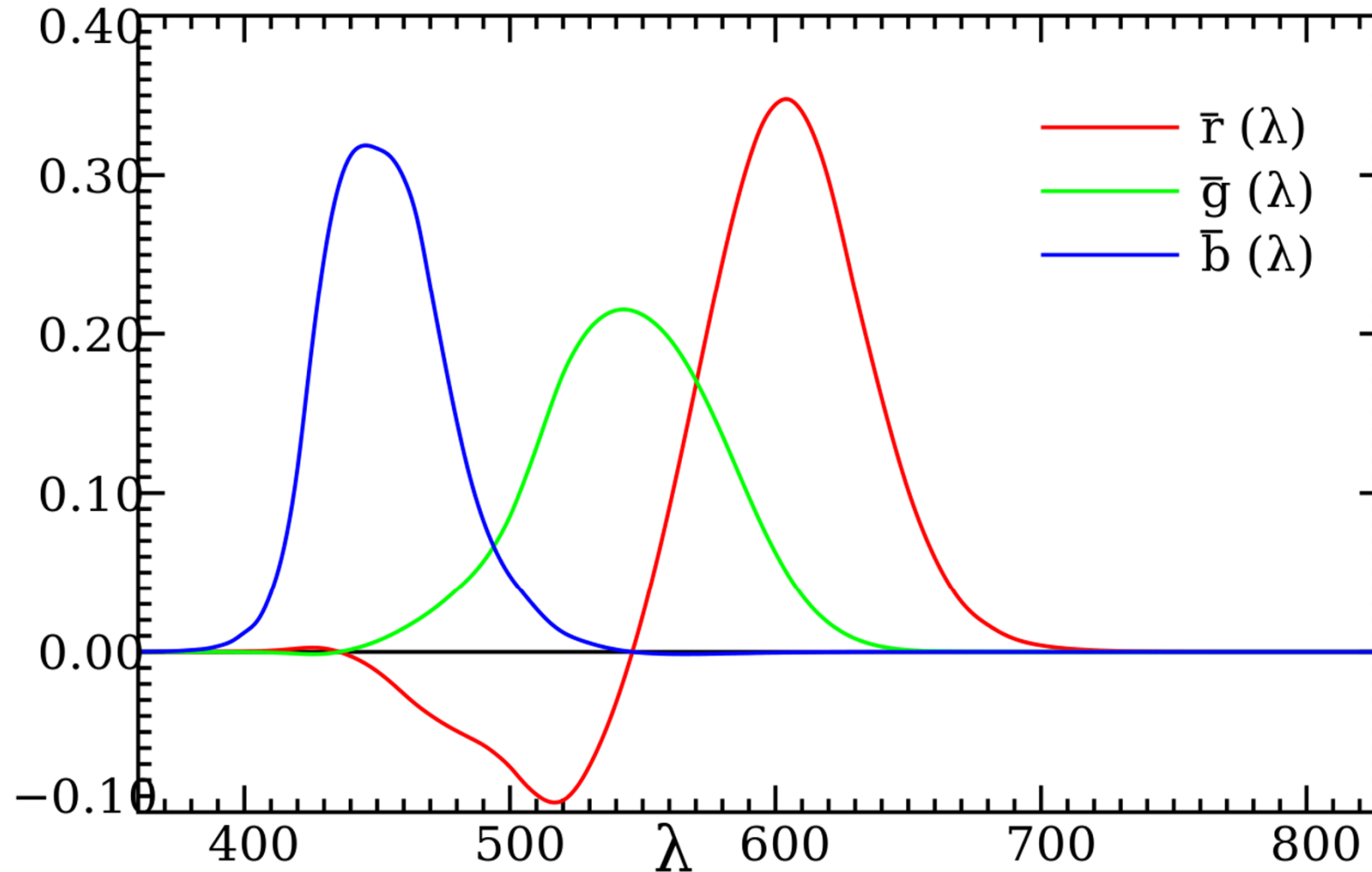
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Color mixing

- <http://www.huevaluechroma.com/042.php>



CIE RGB color matching functions



Optical illusions

- Stepping feet
 - <http://www.michaelbach.de/ot/mot-feetLin/index.html>
- Motion Induced Blindness
 - <http://www.michaelbach.de/ot/mot-mib/index.html>
- Stereokinetic Effect
 - <http://www.michaelbach.de/ot/mot-ske/index.html>
- Scintillating Grid
 - http://www.michaelbach.de/ot/lum_scGrid/index.html
- Hinton's "Lilac Chaser"
 - <http://www.michaelbach.de/ot/col-lilacChaser/index.html>
- Watercolor Illusion
 - <http://www.michaelbach.de/ot/col-watercolor/index.html>
- Tilted Table Illusion
 - <http://www.michaelbach.de/ot/ang-tiltedTable/index.html>