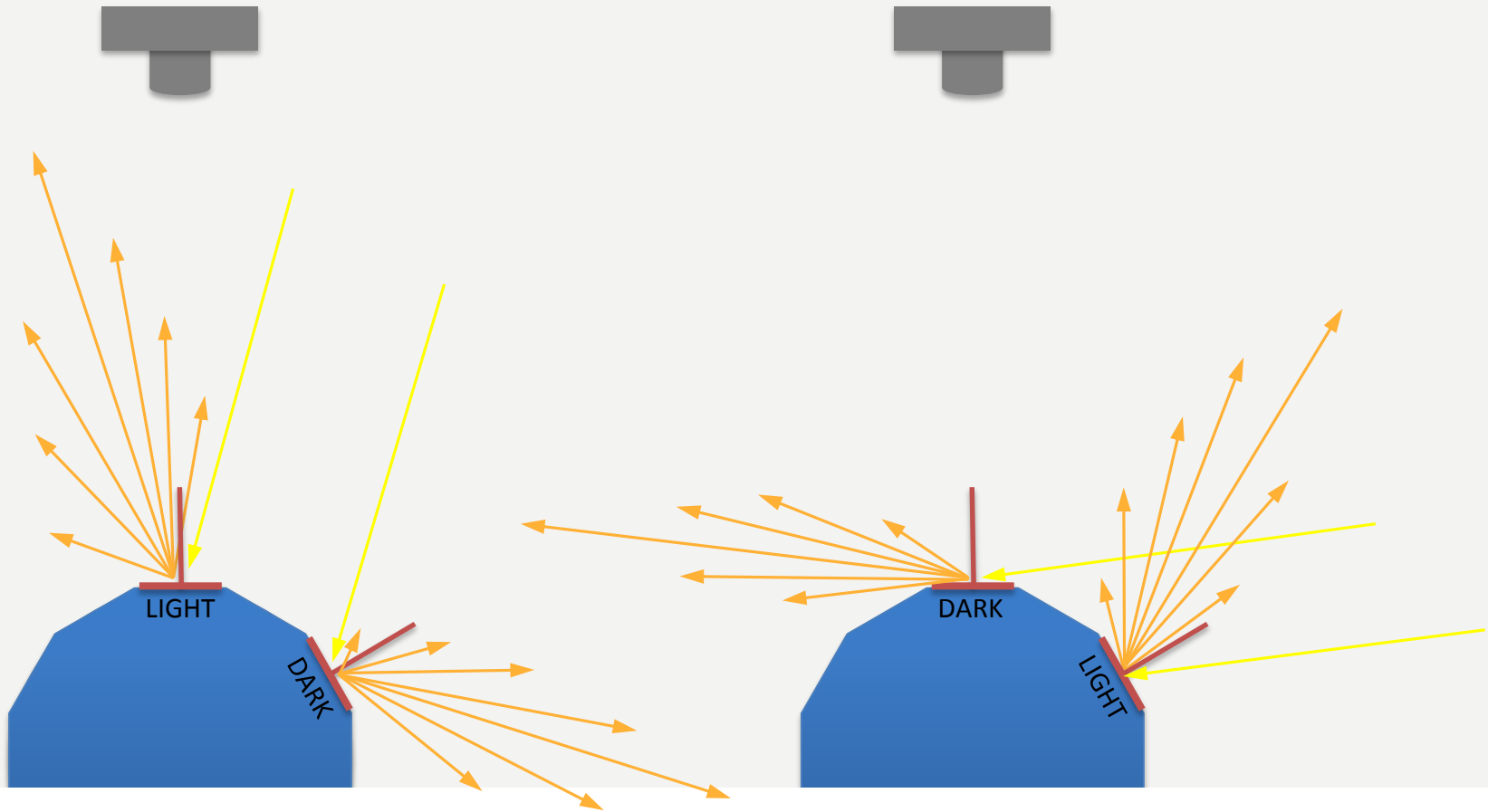


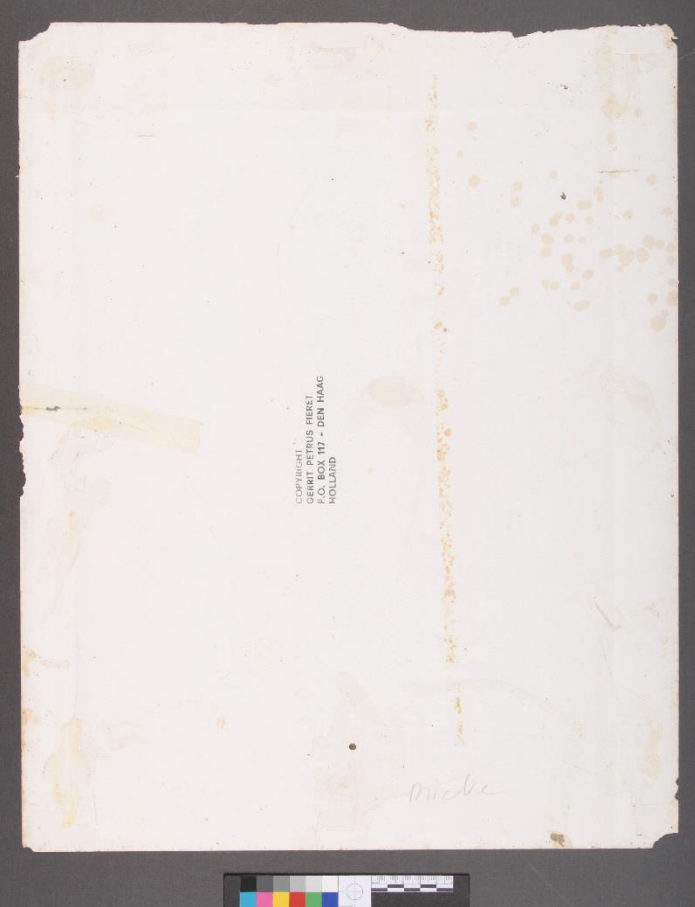
Reflectance Transformation Imaging (RTI)

- Polynomial Texture Mapping (PTM)
- Developed by Cultural Heritage Imaging and Hewlett Packard
- Photographic technique
 - Captures a surface's shape and colour and enables interactive re-lighting of the surface
 - Permits mathematical enhancement calculations
 - Reveals surface details that are not apparent under normal examination

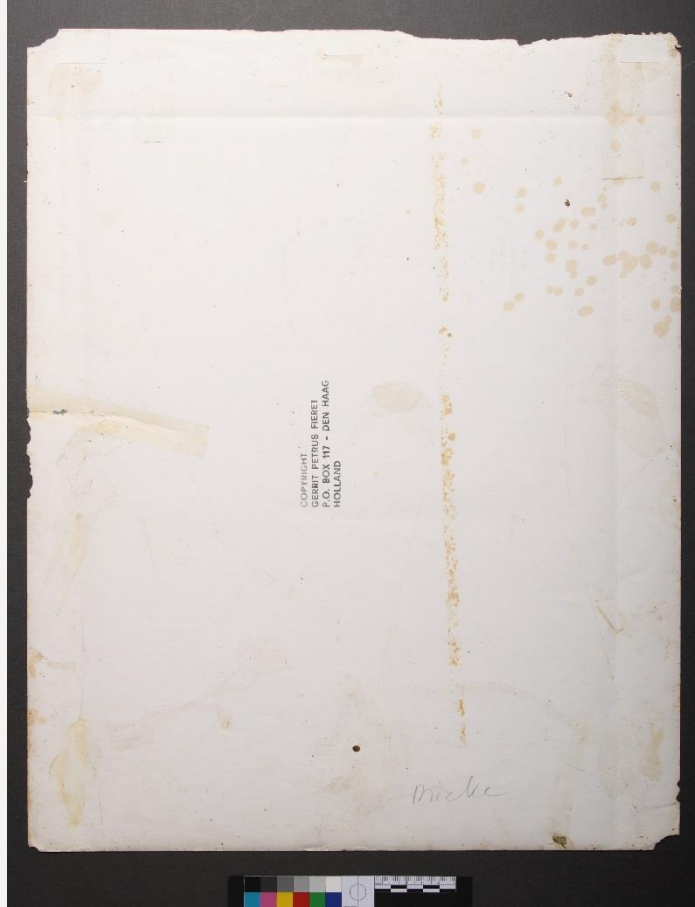


At each pixel, the surface has a specific tilt, described by a normal.

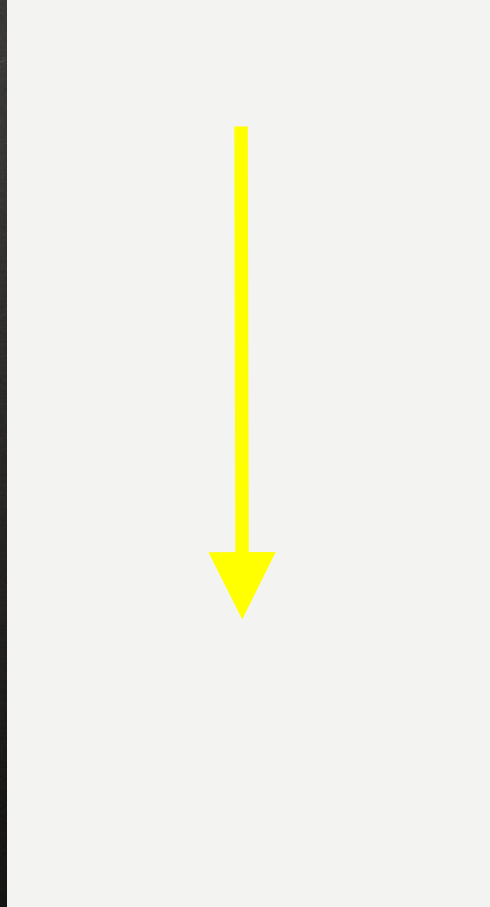
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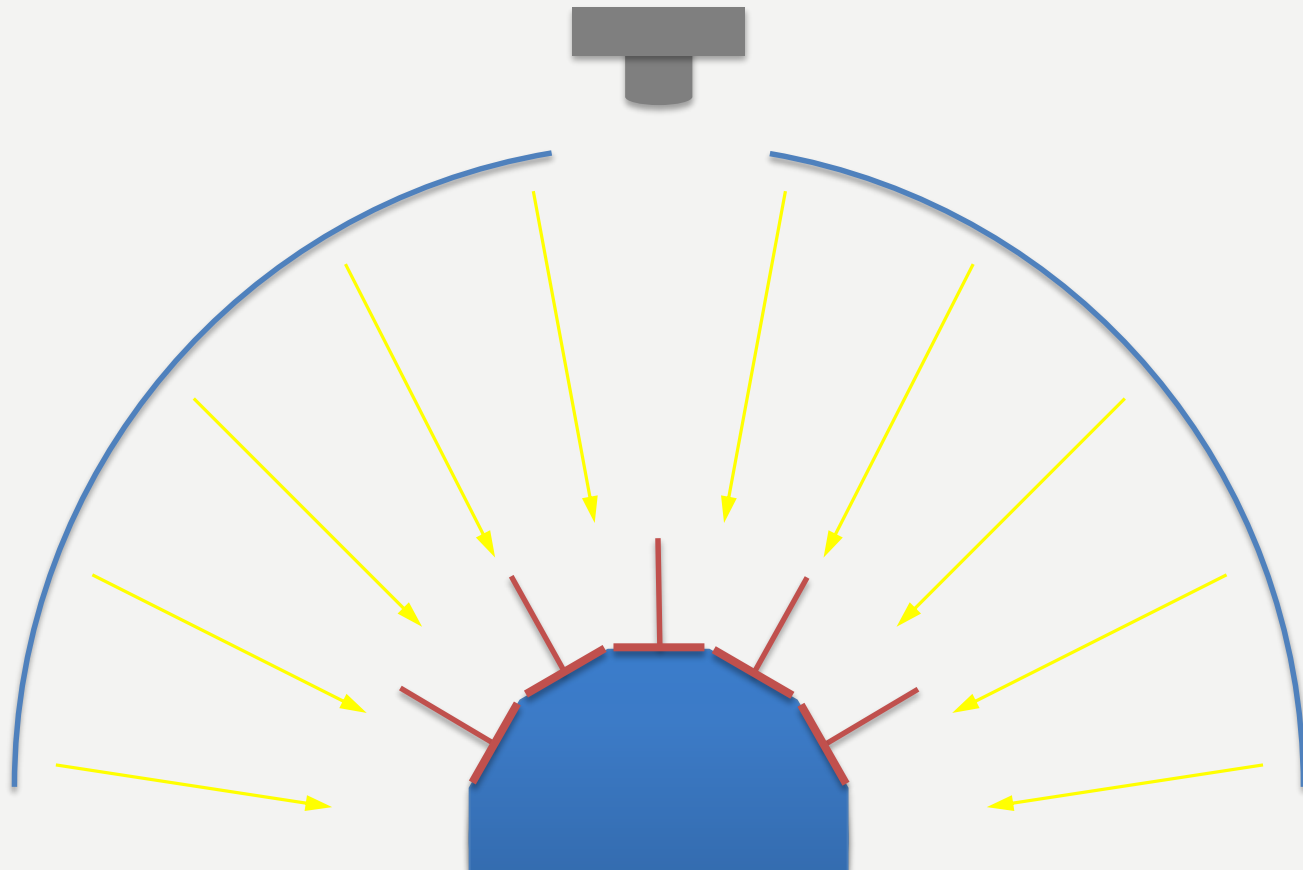
frontal light



raking light



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Per pixel, RTI records RGB values and then calculates the respective normal

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http://culturalheritageimaging.org/What_We_Offer/Gear/Lighting_Array/



https://www.asis.org/Bulletin/Feb-12/FebMar12_Schroer.html

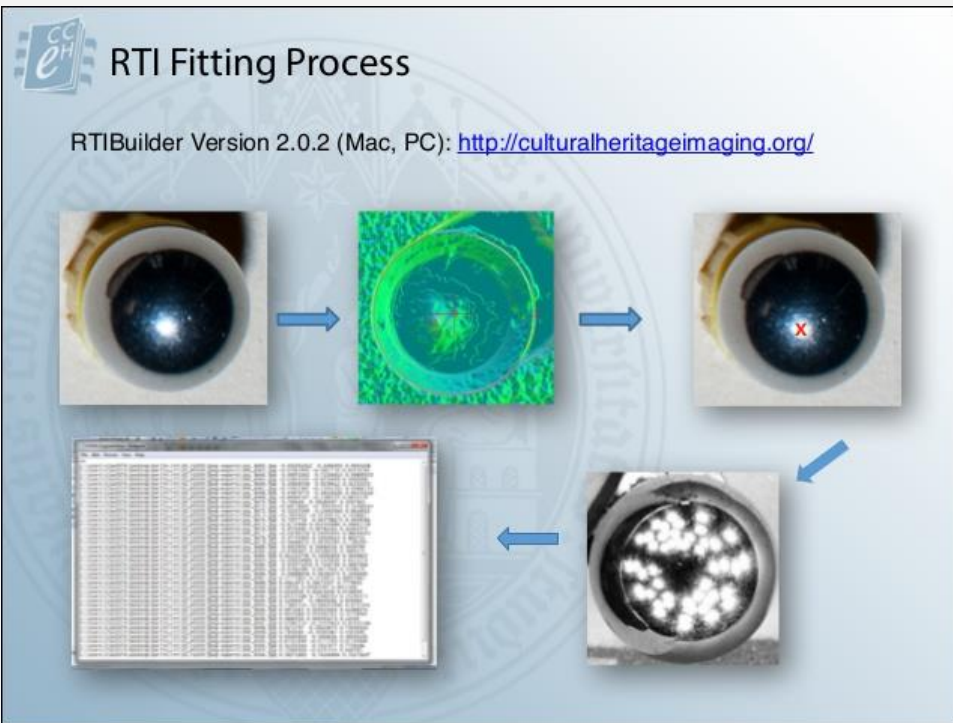
RTI setups

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<http://www.jpereira.net/apuntes-brevs/algunas-experiencias-con-reflectance-transformation-imaging-rti-en-gravados-rupestres>

Calibration



<http://de.slideshare.net/UCLDH/piquette-ucldh-seminar20141203forweb>

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http://musawwaratgraffiti.mpiwg-berlin.mpg.de/studying_graffiti/documentation/rti



<http://www.svt.se/nyheter/regionalt/ostnytt/teknik-aterskapar-forsvunna-texter>

Surfaces

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MoMA: The Thomas Walther Collection
<http://www.moma.org/interactives/objectphoto/#home>

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