TouchTone: Interactive Local Image Adjustment Using Point-and-Swipe

Supplemental Material 1

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Example 1

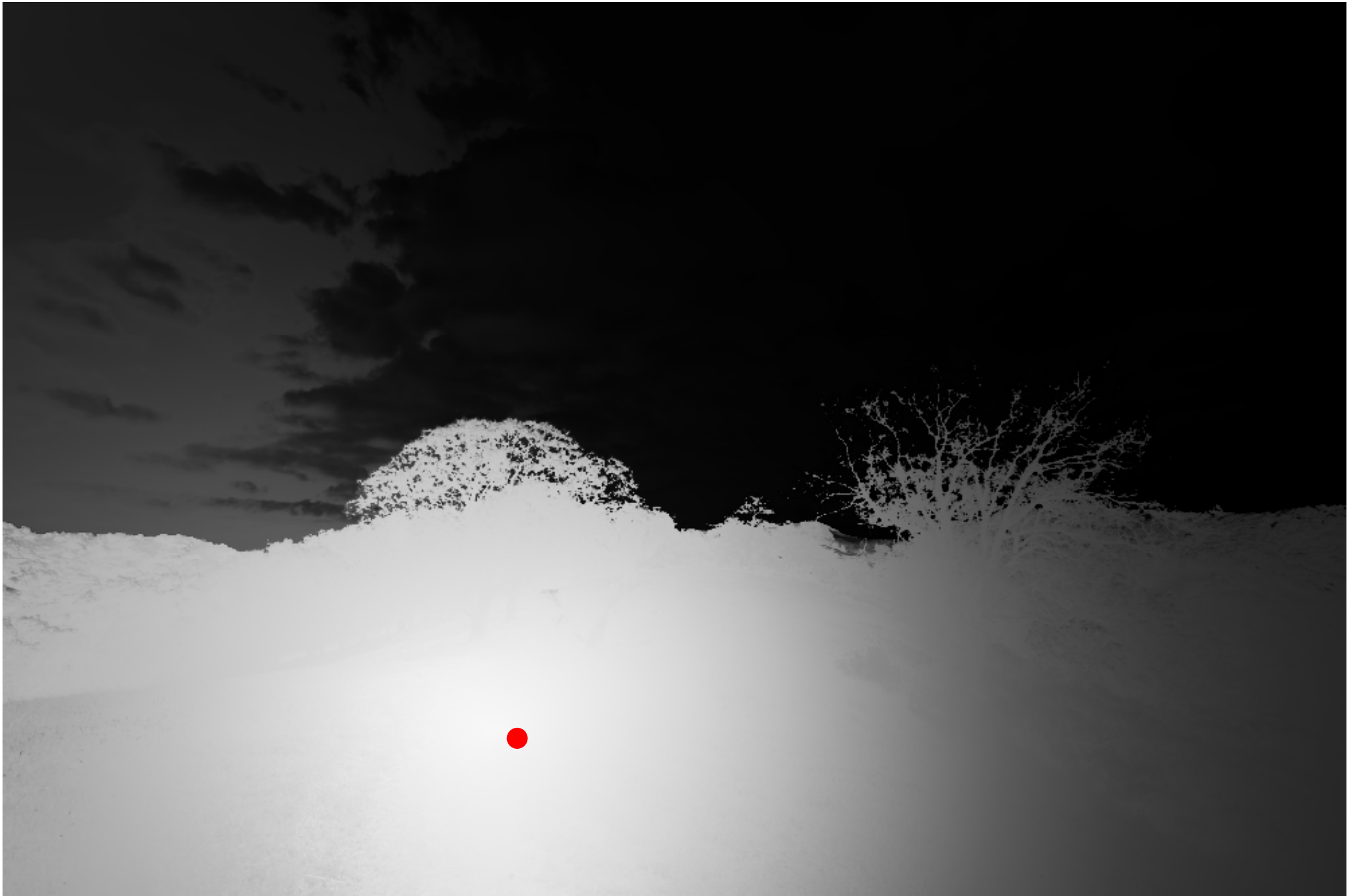
Input: HDR image

Total editing time: 20 seconds by a novice user

Tone-Mapped HDR image



Clicked Point and Generated Influence Map



Clicked Point and Generated Influence Map



Clicked Point and Generated Influence Map



After Brightness Adjustment



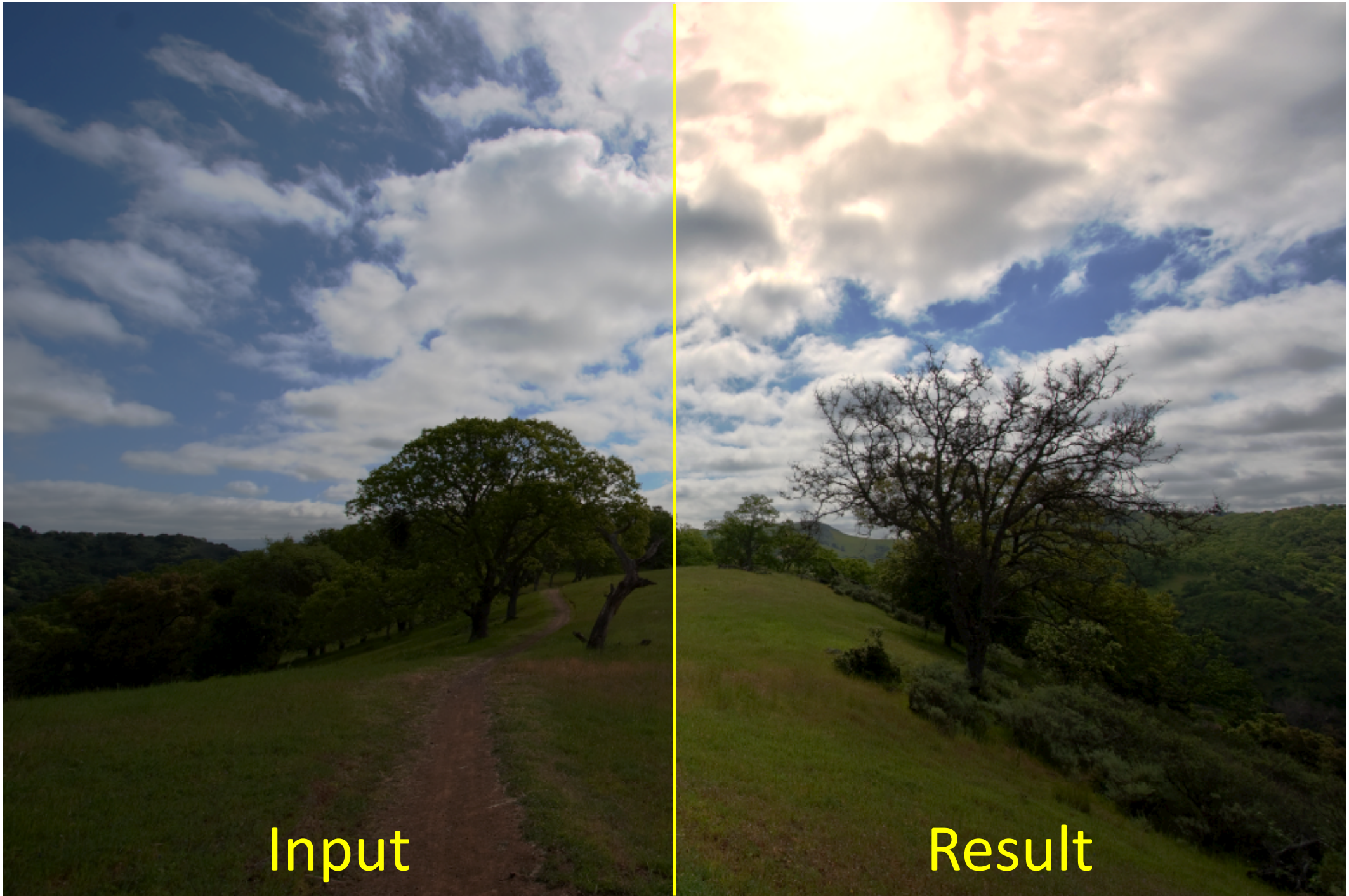
After Brightness/Contrast Adjustment



After Color Adjustment

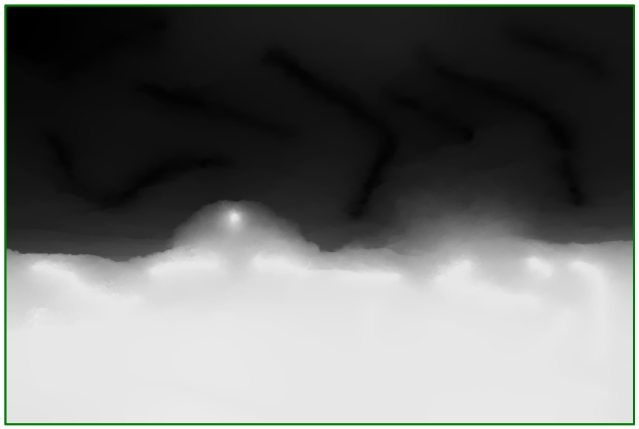


Comparison

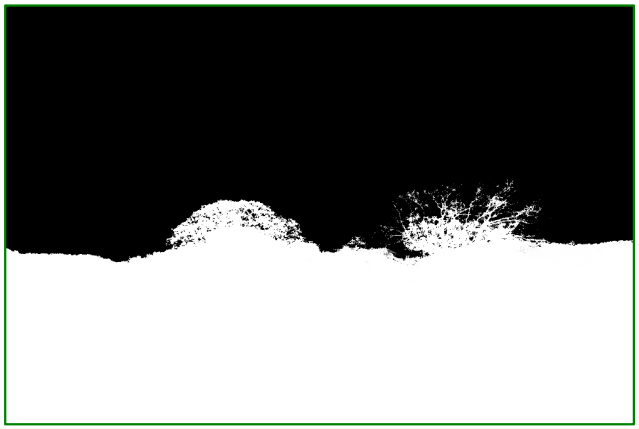


Comparison





[Lischinski et al. 2006]
3.5 seconds



[Bai and Sapiro 2009]
0.56 seconds*





U Point Technology
<1 seconds



Our method
< 0.1 seconds

*The result is generated by the original author on their own device (Duo Core CPU 2.53GHz. RAM 3G. 32-bit windows)

Example 2

Input: HDR image
Total editing time: 8 seconds by a novice user (three point-and-swipe interactions)
Note: the artifacts around the trees of the input are due to glare and HDR stitching.

Tone-mapped HDR image

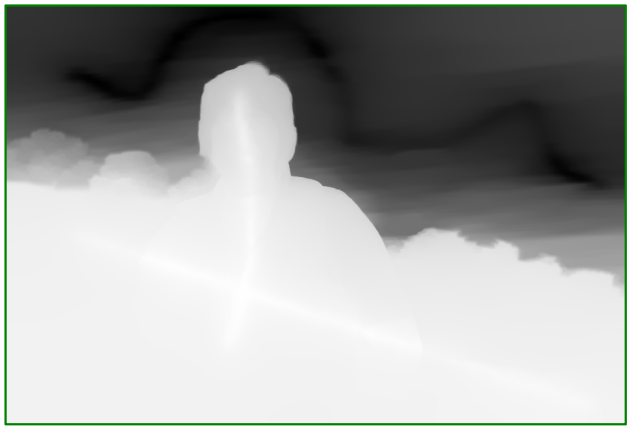


After Contrast/Brightness Adjustments



Comparison

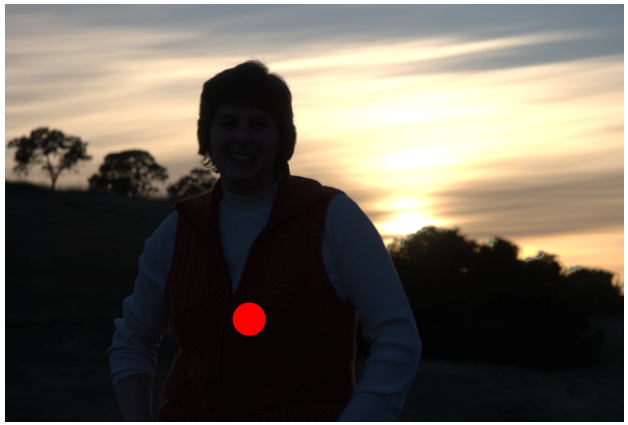




[Lischinski et al. 2006]
6 seconds



[Bai and Sapiro 2009]
0.61 seconds*





U Point Technology
<1 seconds



Our method
< 0.1 seconds

*The result is generated by the original author on their own device (Duo Core CPU 2.53GHz. RAM 3G. 32-bit windows)

Example 3
Local White Balance

Input: LDR image
Total editing time: 10 seconds by a novice user
(The white balance coefficient of each light source is manually specified beforehand)

Input Image



Color Balanced to Indoor Lighting



Our Adjusted Result



The Corresponding Mixture Map



More Results

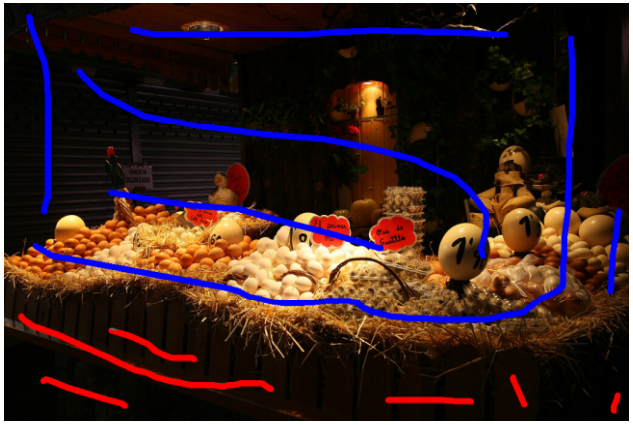
Input Image

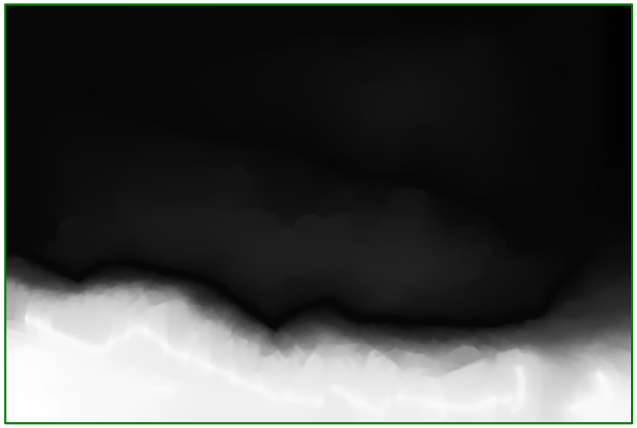


After Brightness Adjustments



Comparison





[Lischinski et al. 2006]
6.5 seconds



[Bai and Sapiro 2009]
0.62 seconds*





U Point Technology
<1 seconds



Our method
< 0.1 seconds

*The result is generated by the original author on their own device (Duo Core CPU 2.53GHz. RAM 3G. 32-bit windows)

Input Image



After Brightness/Contrast Adjustments



Input Image



After Brightness/Contrast Adjustments





Input image



Manual global adjustment using Photoshop



One of the generated influence maps



Adjusted result (5 seconds)

Input Image from [An and Pellacini 2008]



After Brightness/Contrast Adjustment

