



IslandPaint: Digital Painting Floating Island Design

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Introduction

- Floating Islands Examples:





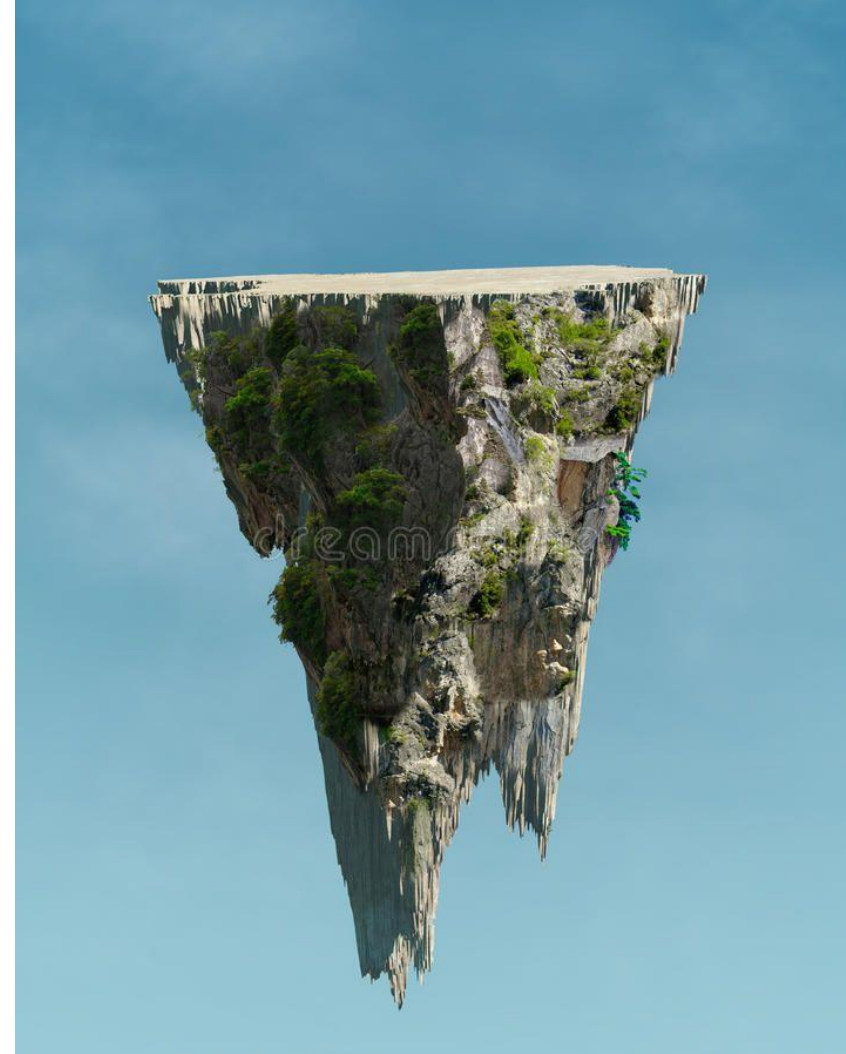
<https://alldiamondpainting.com/products/floating-island-diamond-painting-kit>



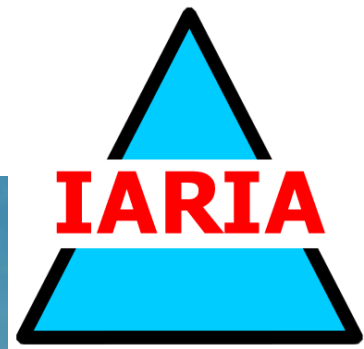
<https://www.youtube.com/watch?v=RfsQV-ySrel>



<https://cn.depositphotos.com/150033538/stock-photo-small-floating-island.html>



<https://www.pinterest.com/pin/857583954025542827/>



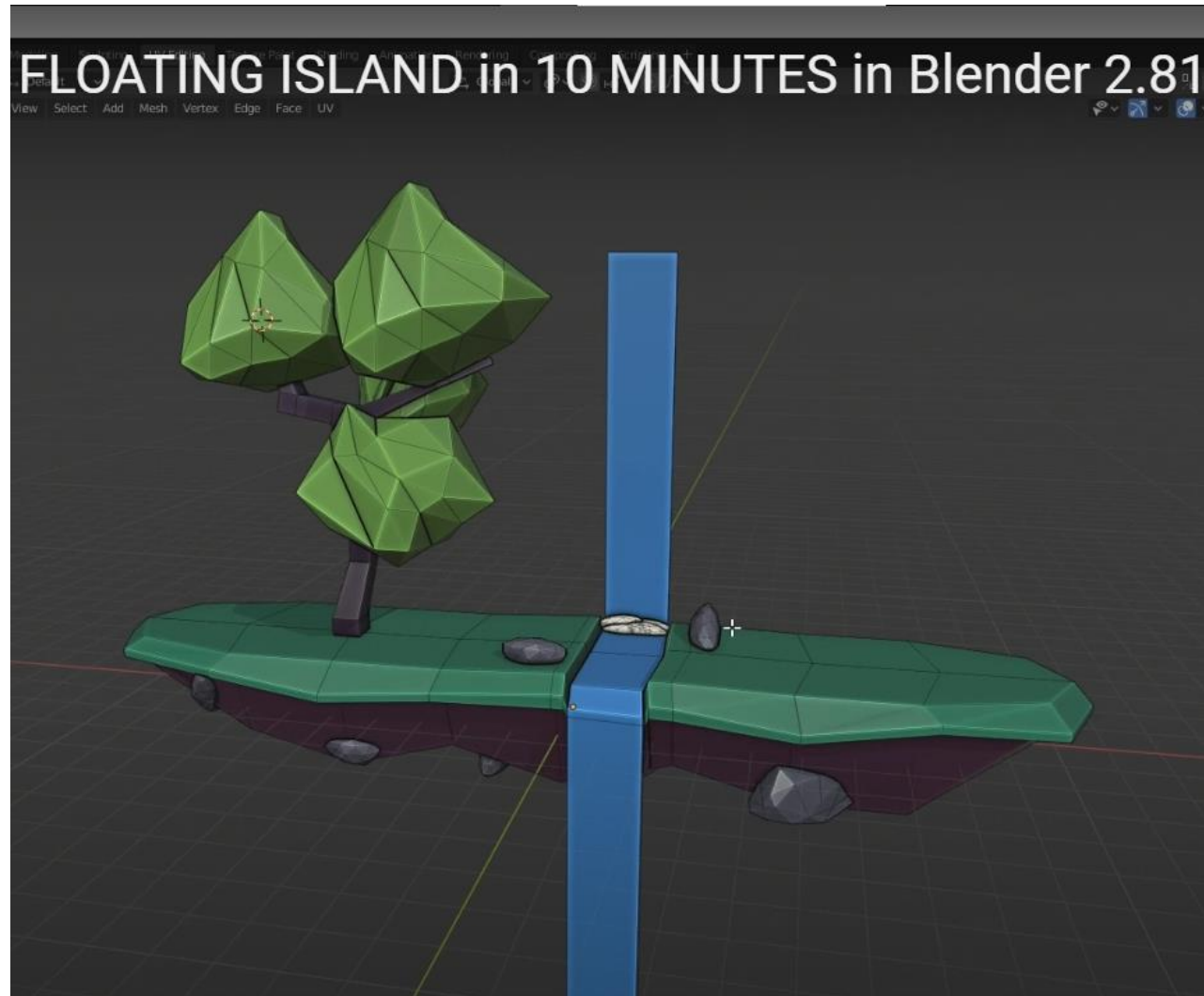
Related Work



Related Work



Related Work





User Input





User's conceptual digital paintings.

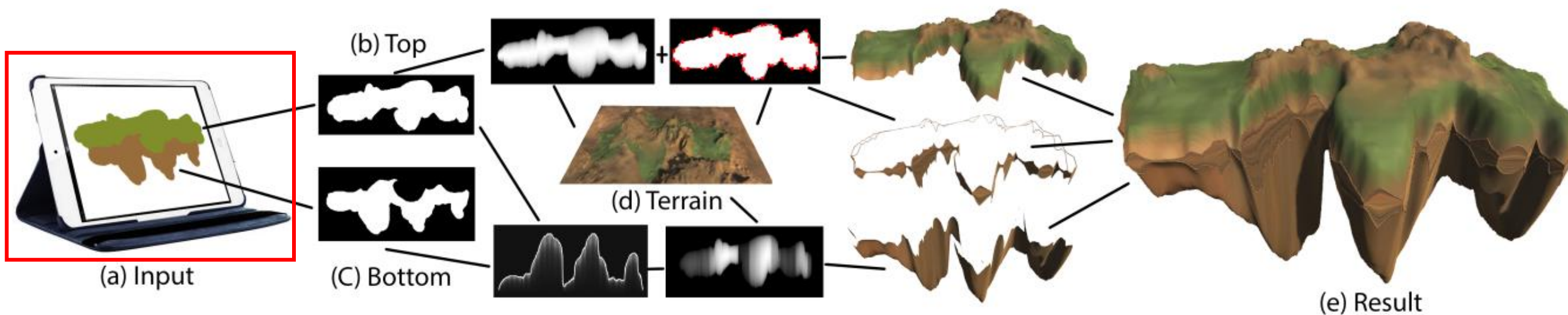


Fig. 2: Overview of our technical approach.

Segmenting the top image.

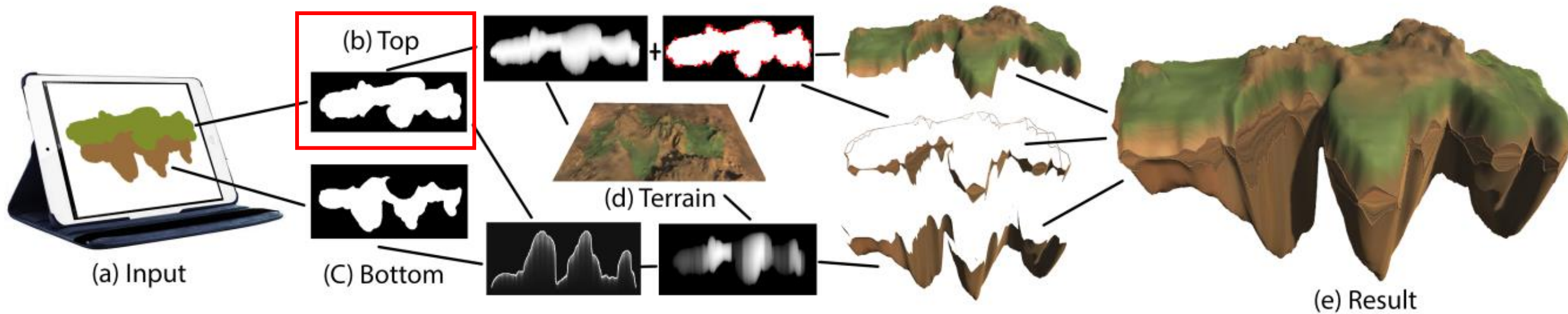


Fig. 2: Overview of our technical approach.

Segmenting the bottom image.

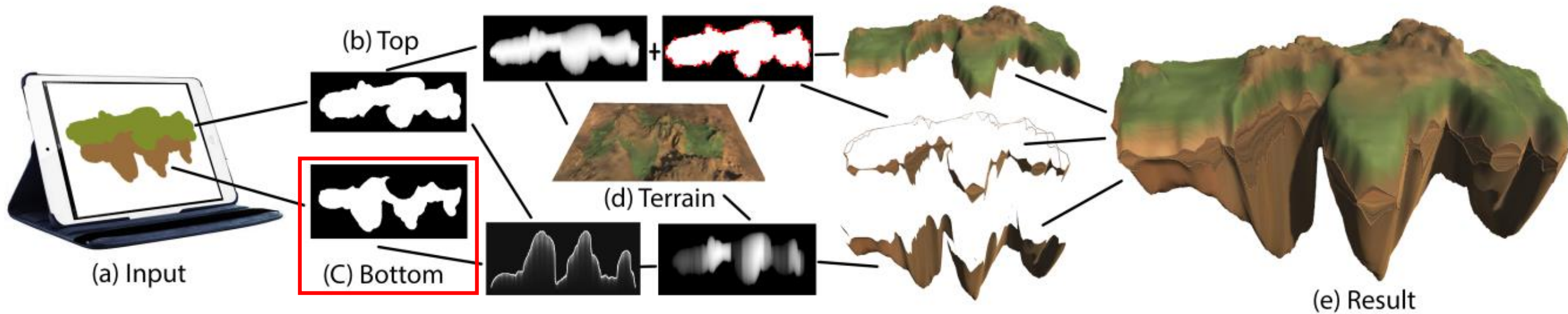


Fig. 2: Overview of our technical approach.

Analyzing top image shape distribution along the y-axis

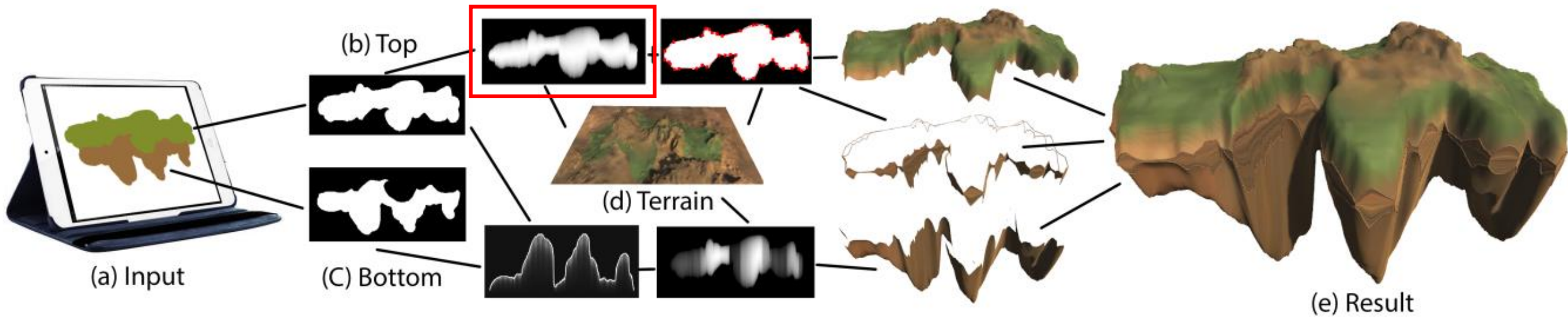


Fig. 2: Overview of our technical approach.

Polygonizing top image contour.

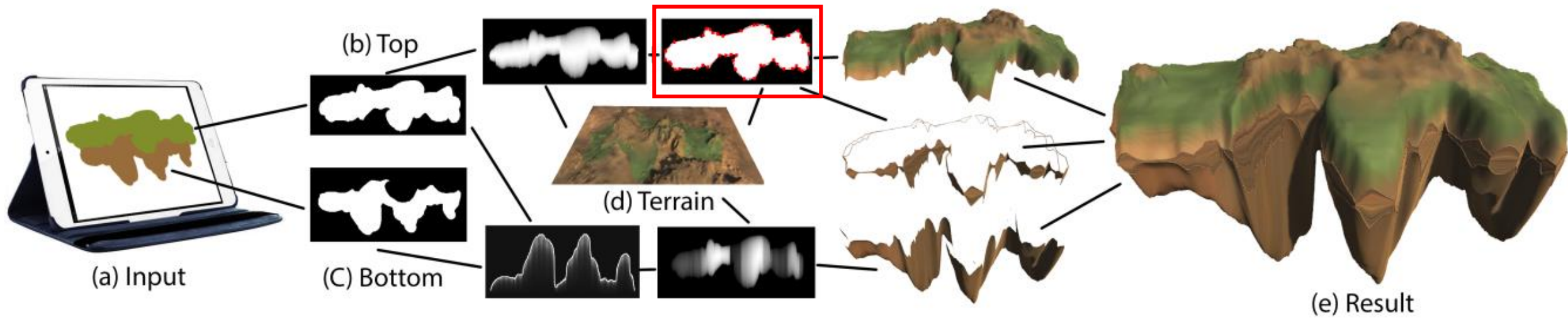


Fig. 2: Overview of our technical approach.

Analyzing half-distribution of the bottom image shape.

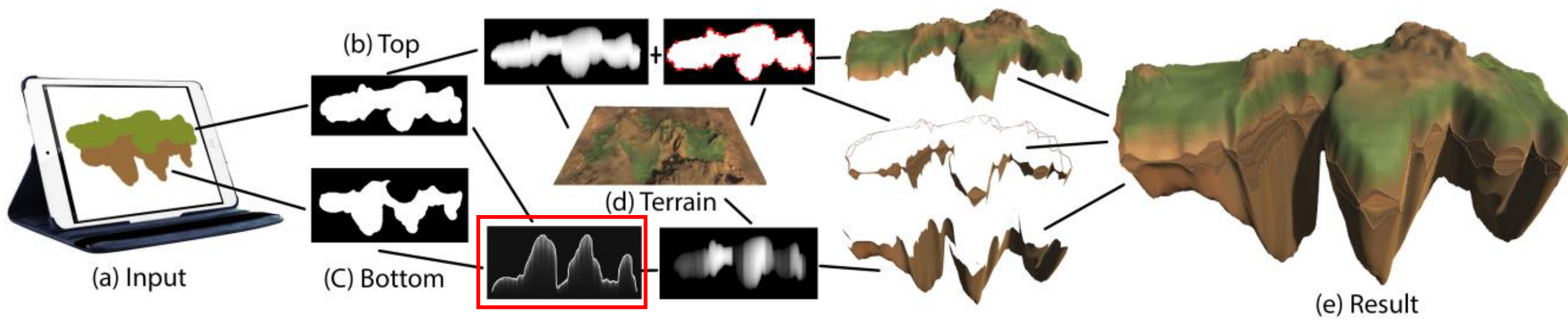


Fig. 2: Overview of our technical approach.

Extracting the bottom silhouette of floating island

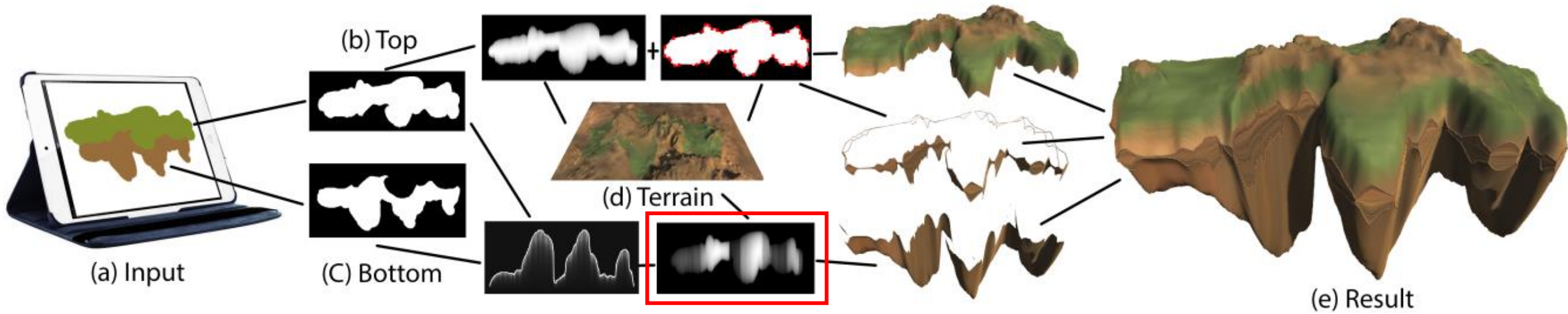


Fig. 2: Overview of our technical approach.

Combining input feature terrain.

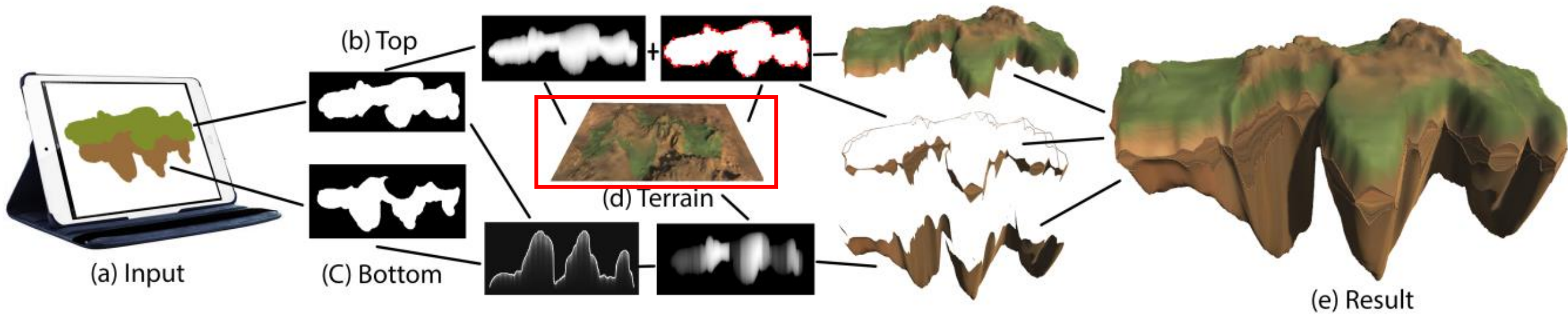


Fig. 2: Overview of our technical approach.

Synthesize top mesh.

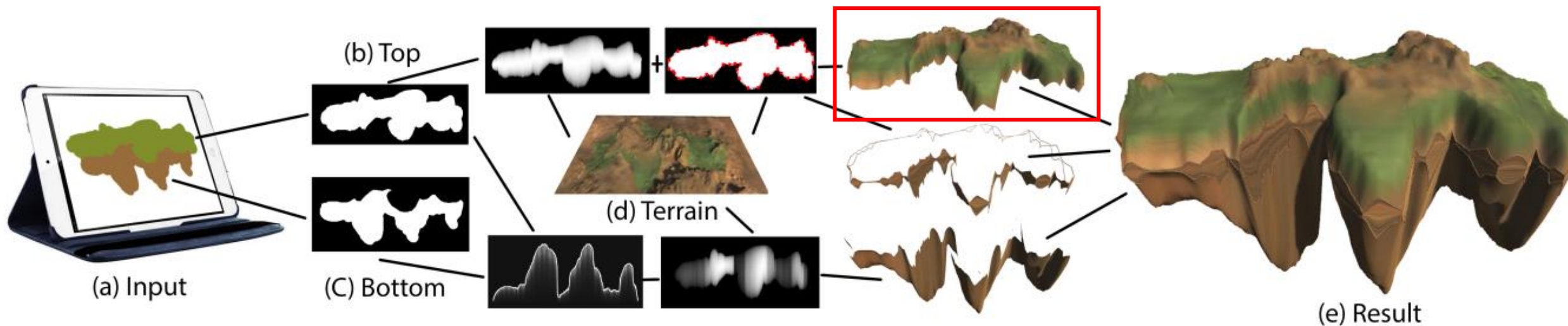


Fig. 2: Overview of our technical approach.

Synthesize middle mesh.

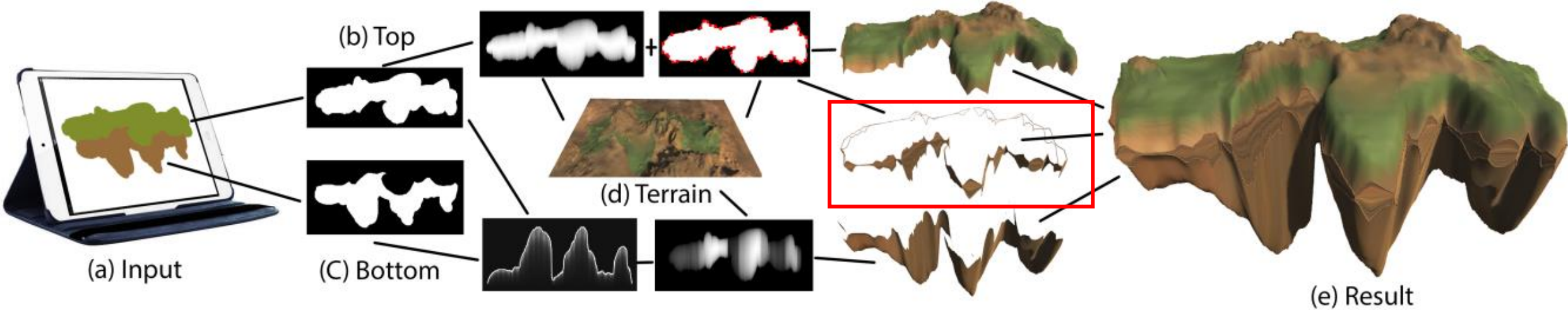


Fig. 2: Overview of our technical approach.

Synthesize bottom mesh.

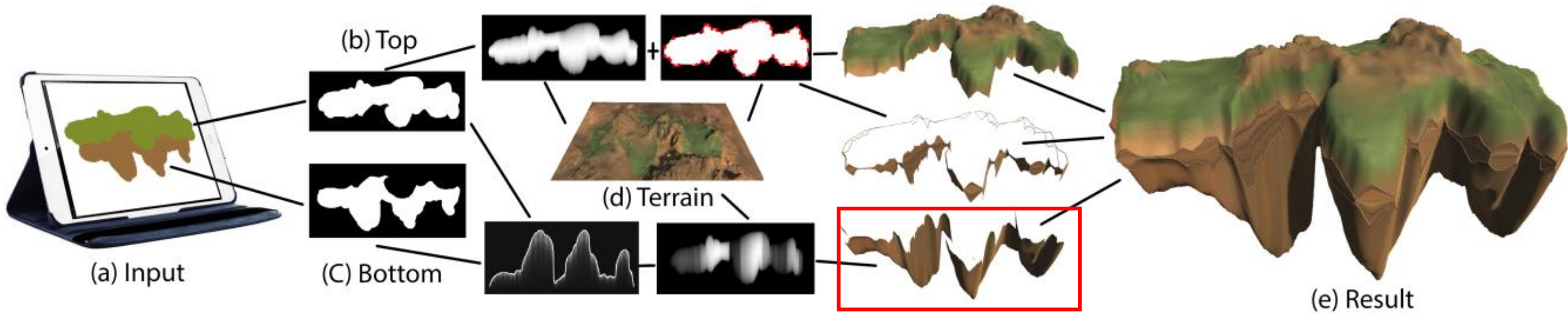


Fig. 2: Overview of our technical approach.

3D floating island is automatically generated.

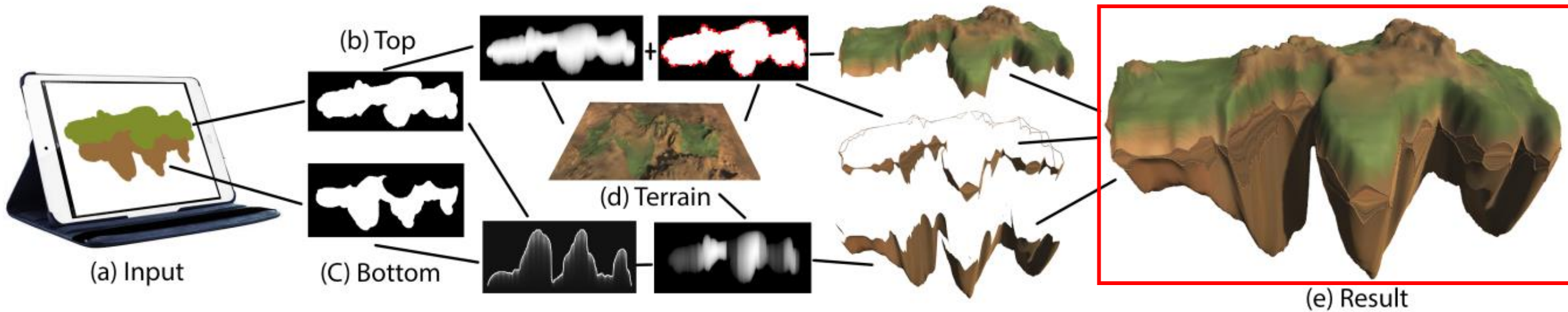
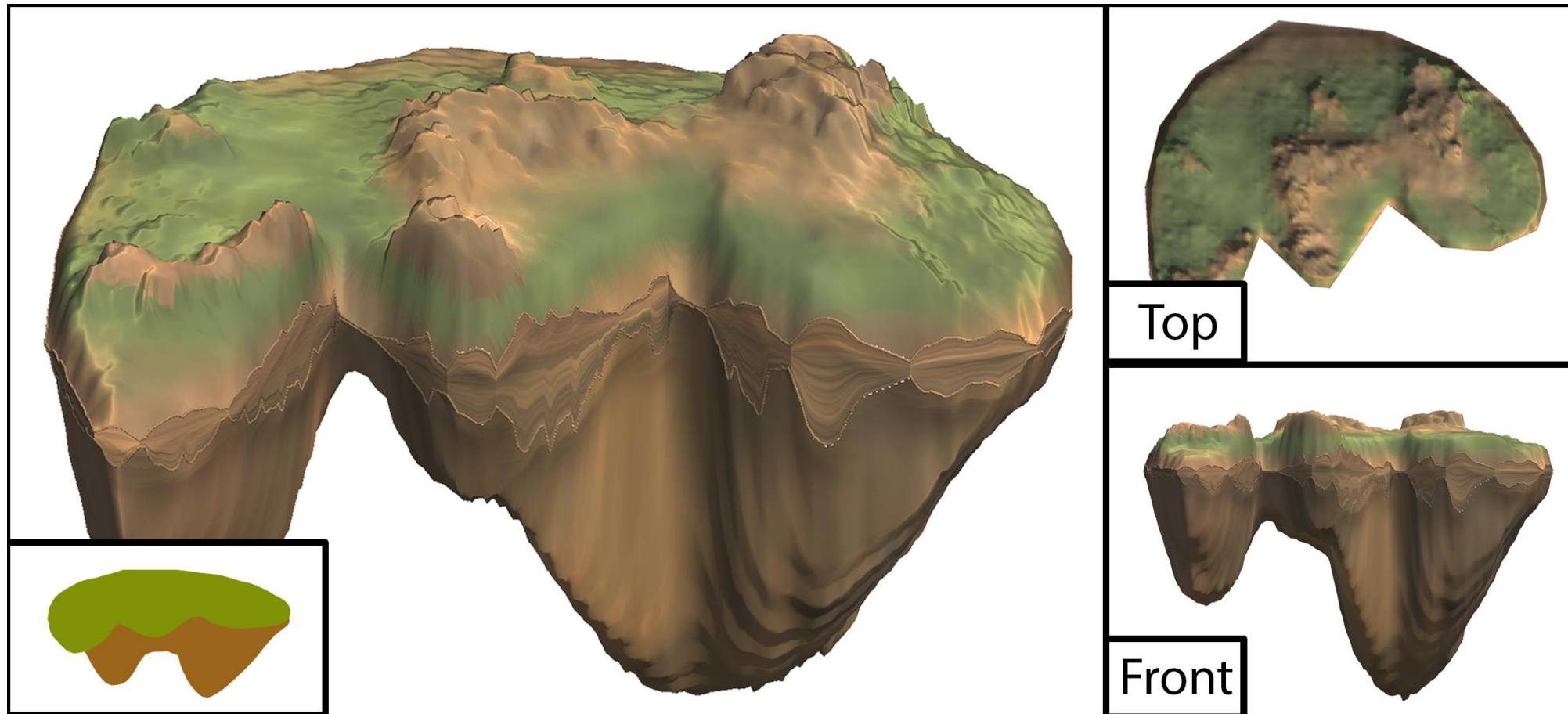


Fig. 2: Overview of our technical approach.

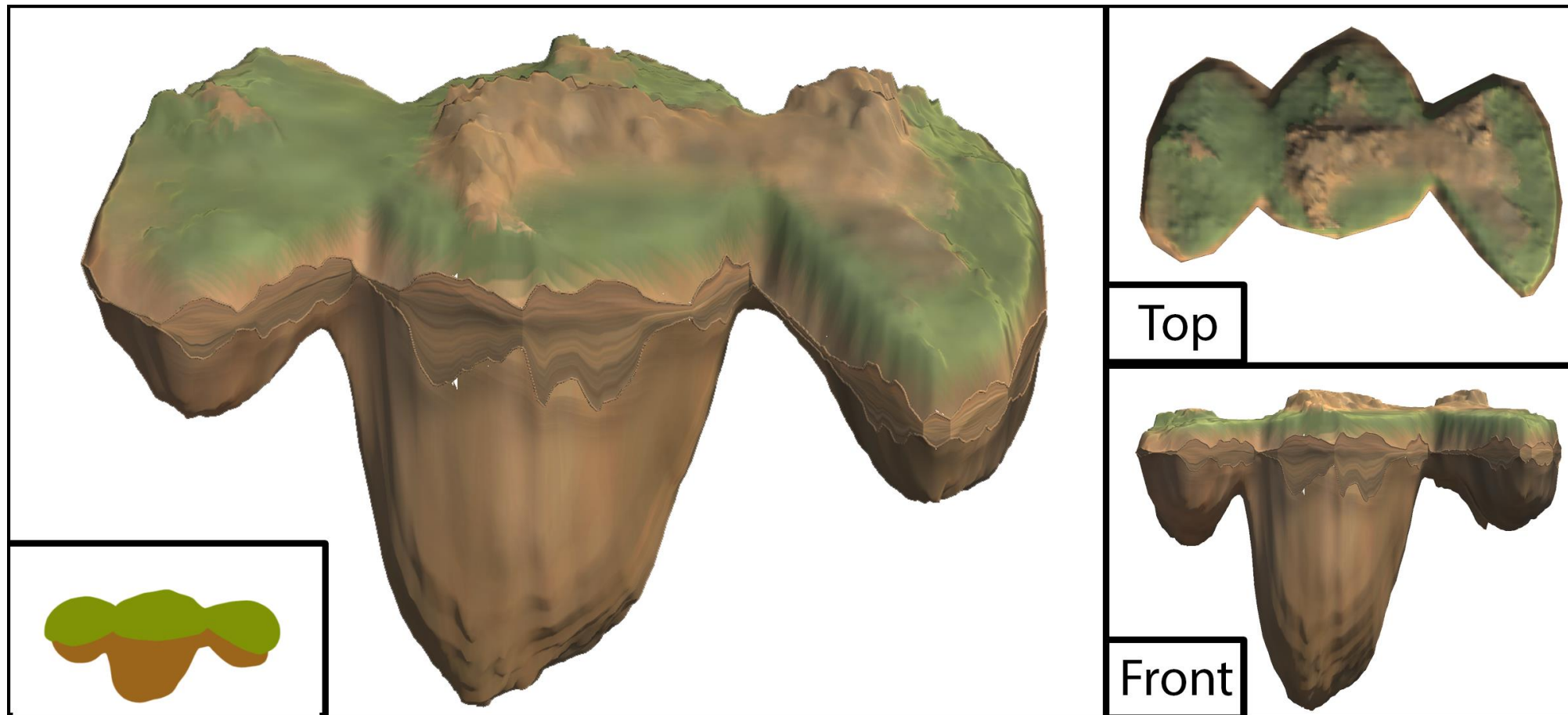
Mass Result



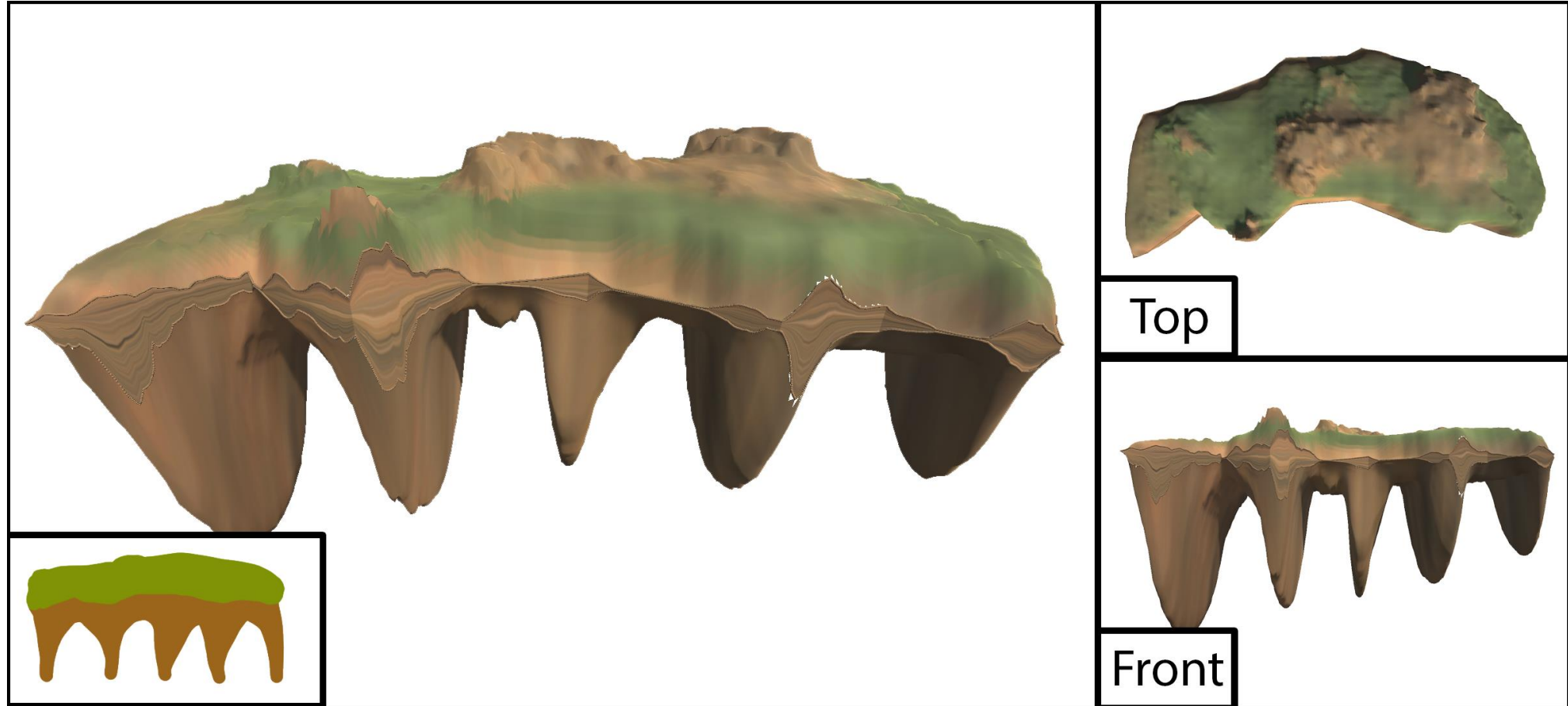
Top

Front

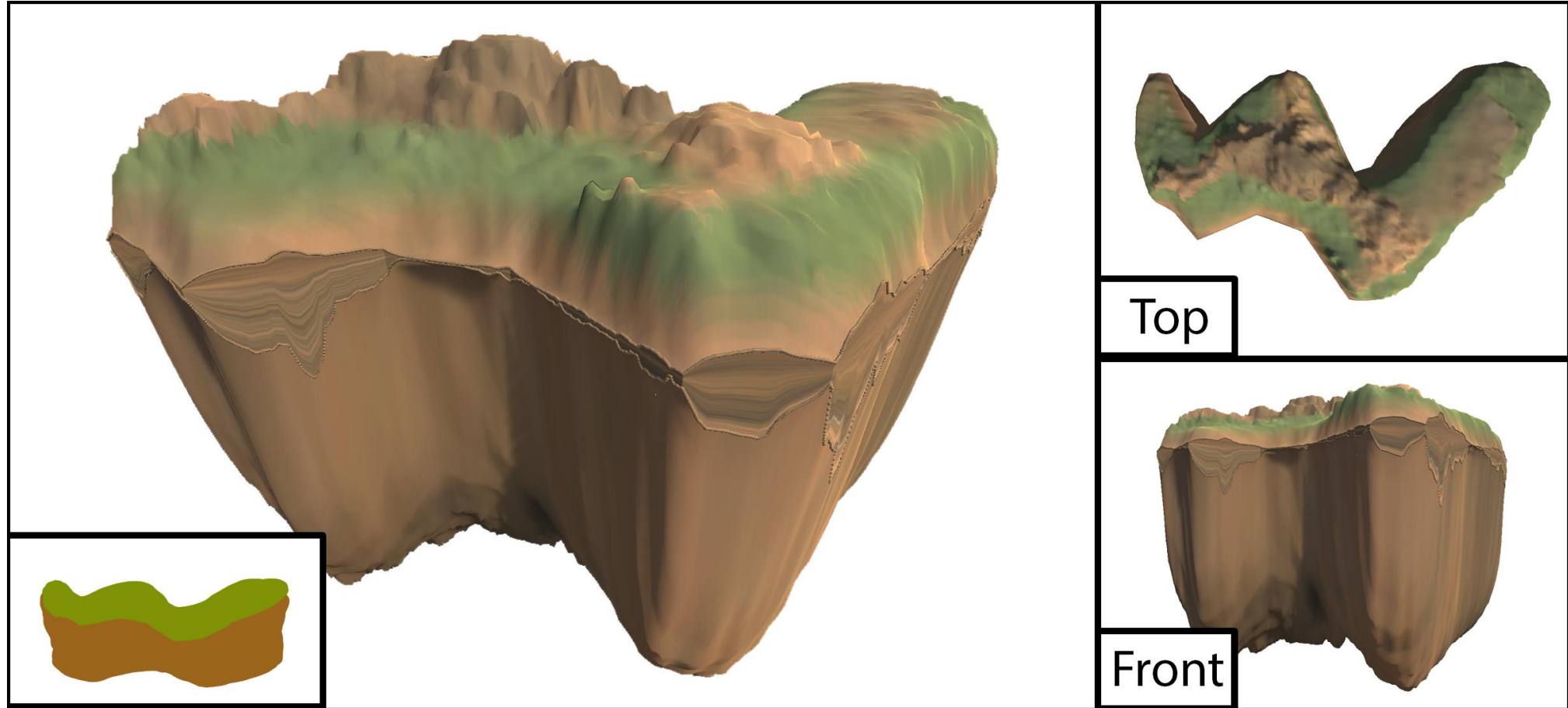
Mass Result



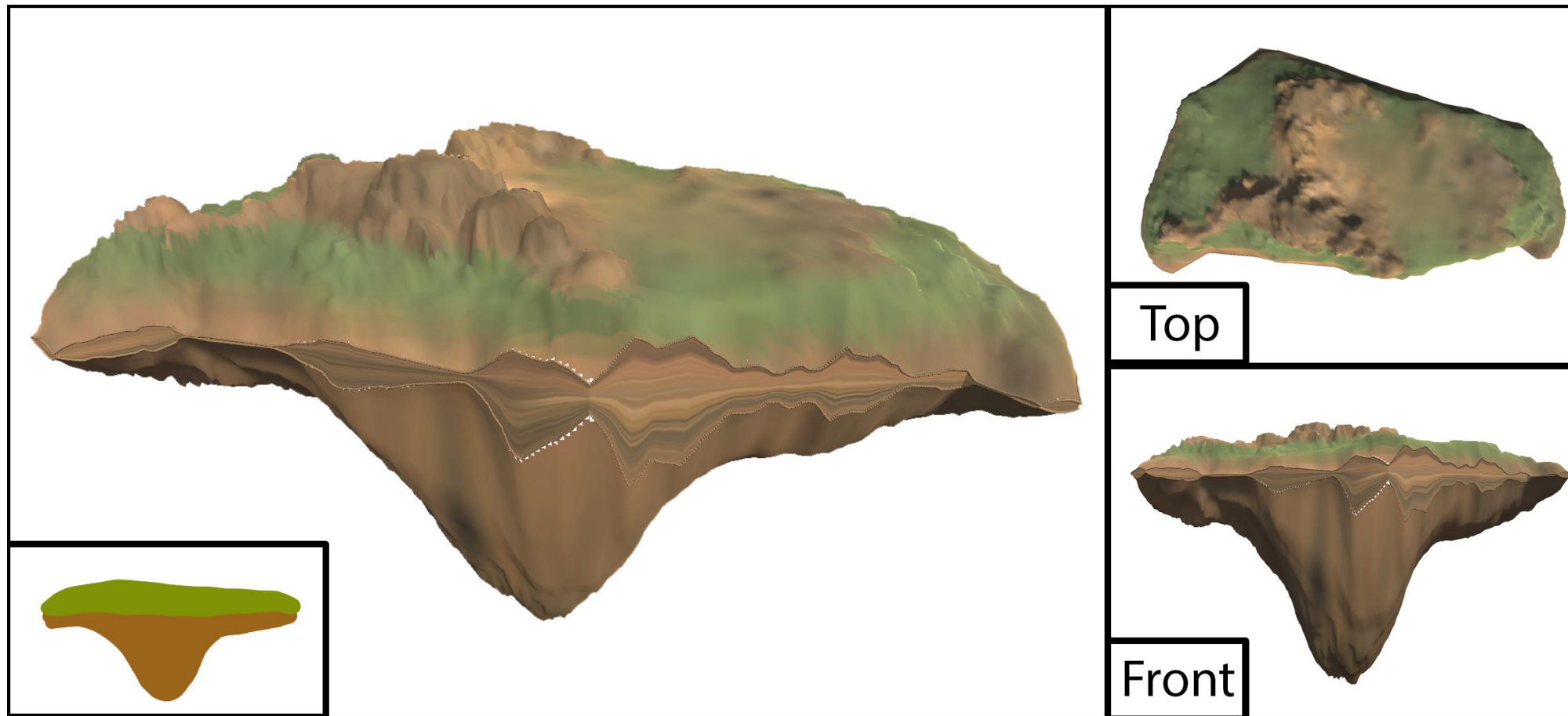
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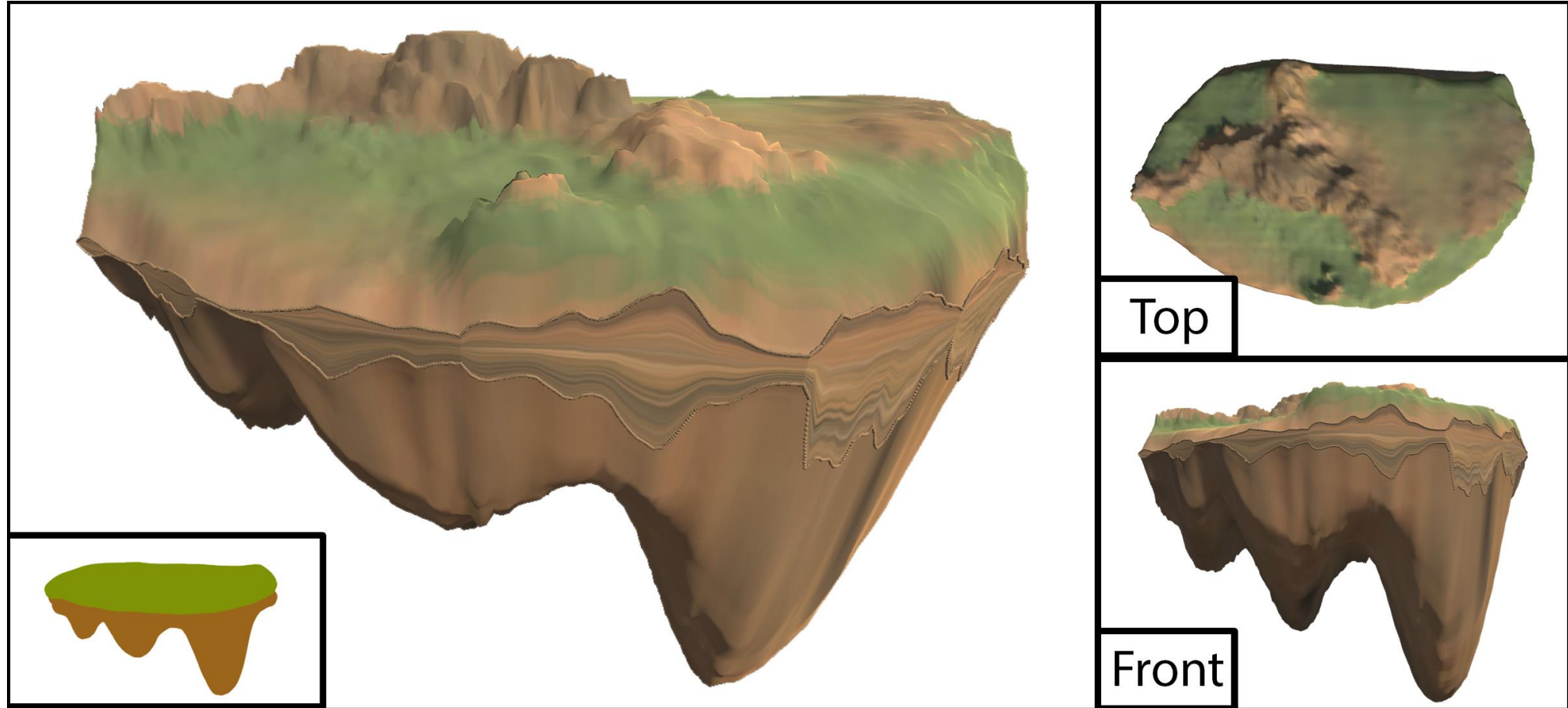
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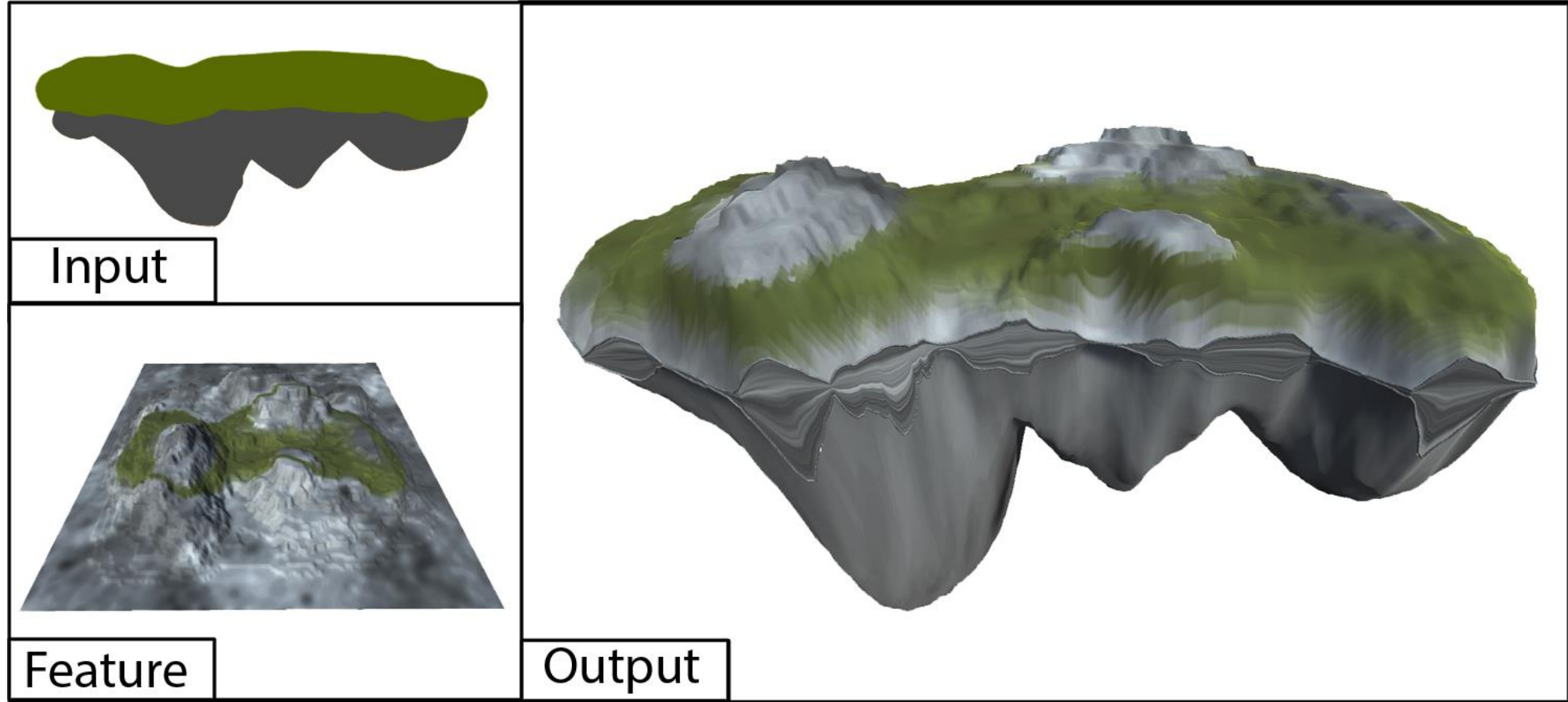
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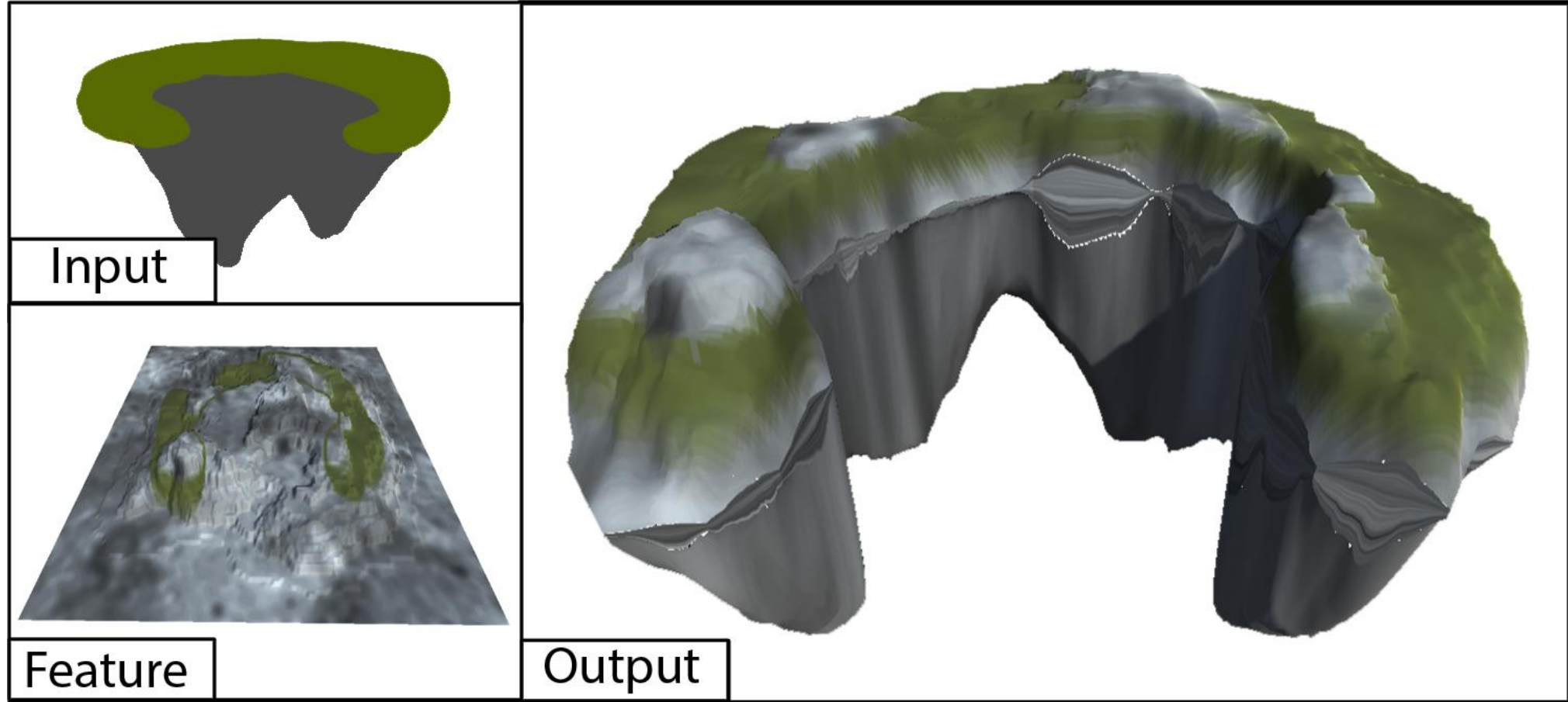
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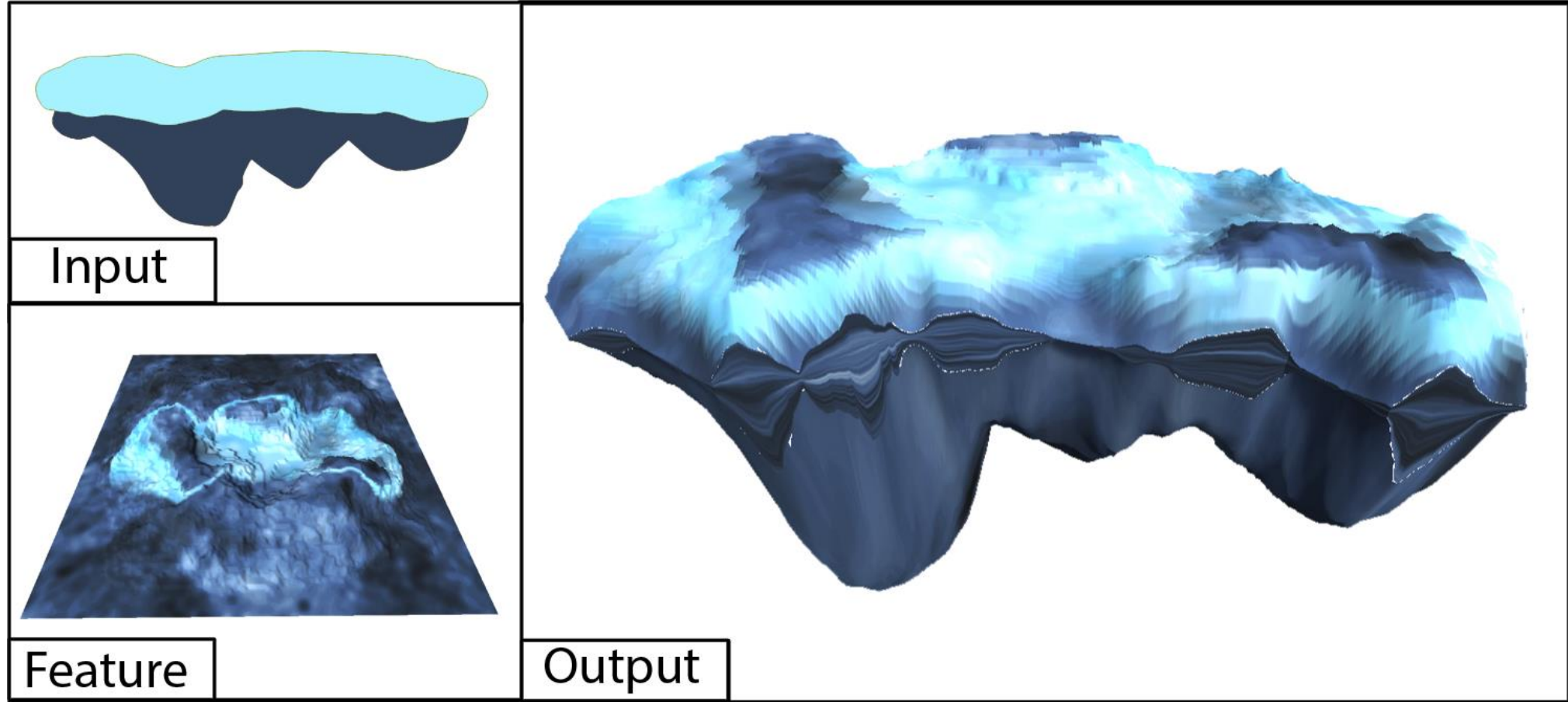
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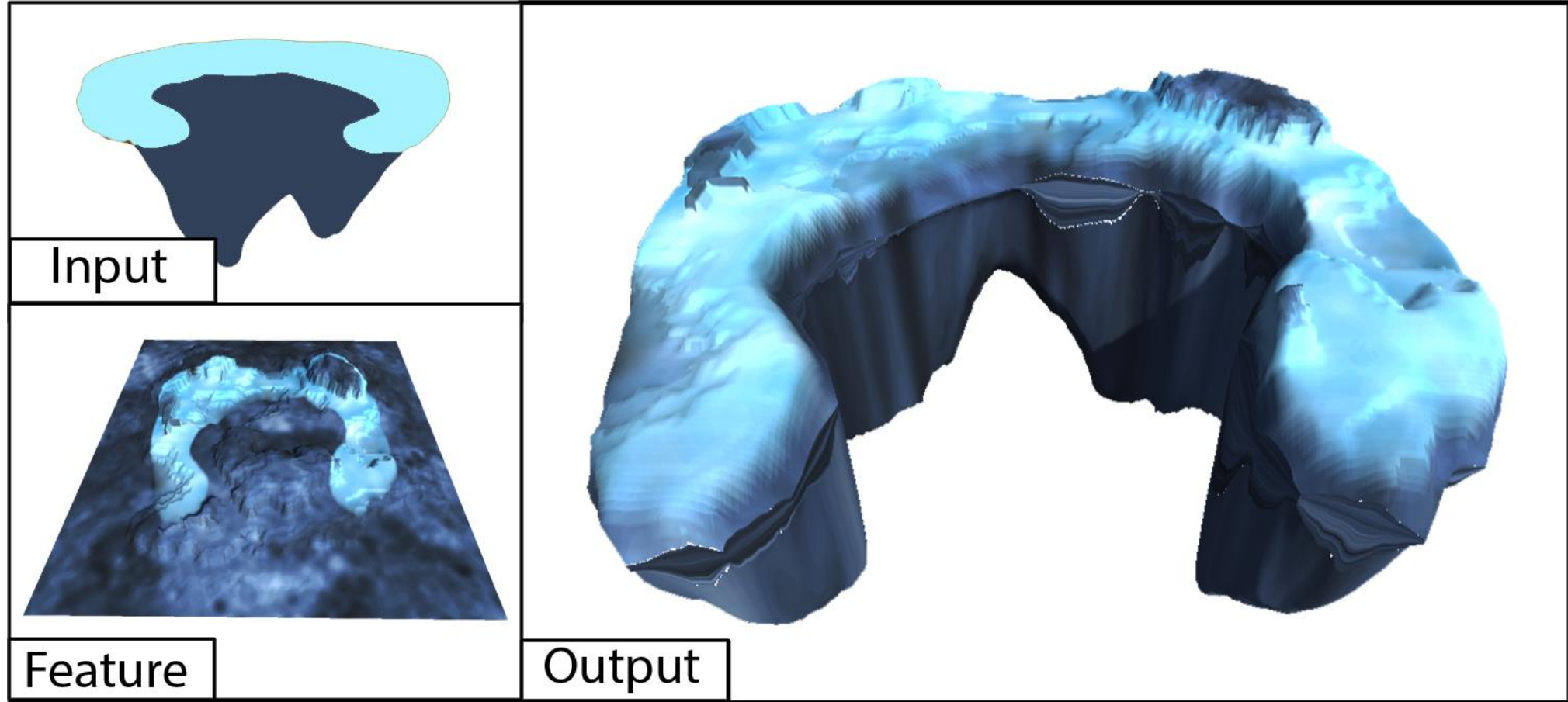
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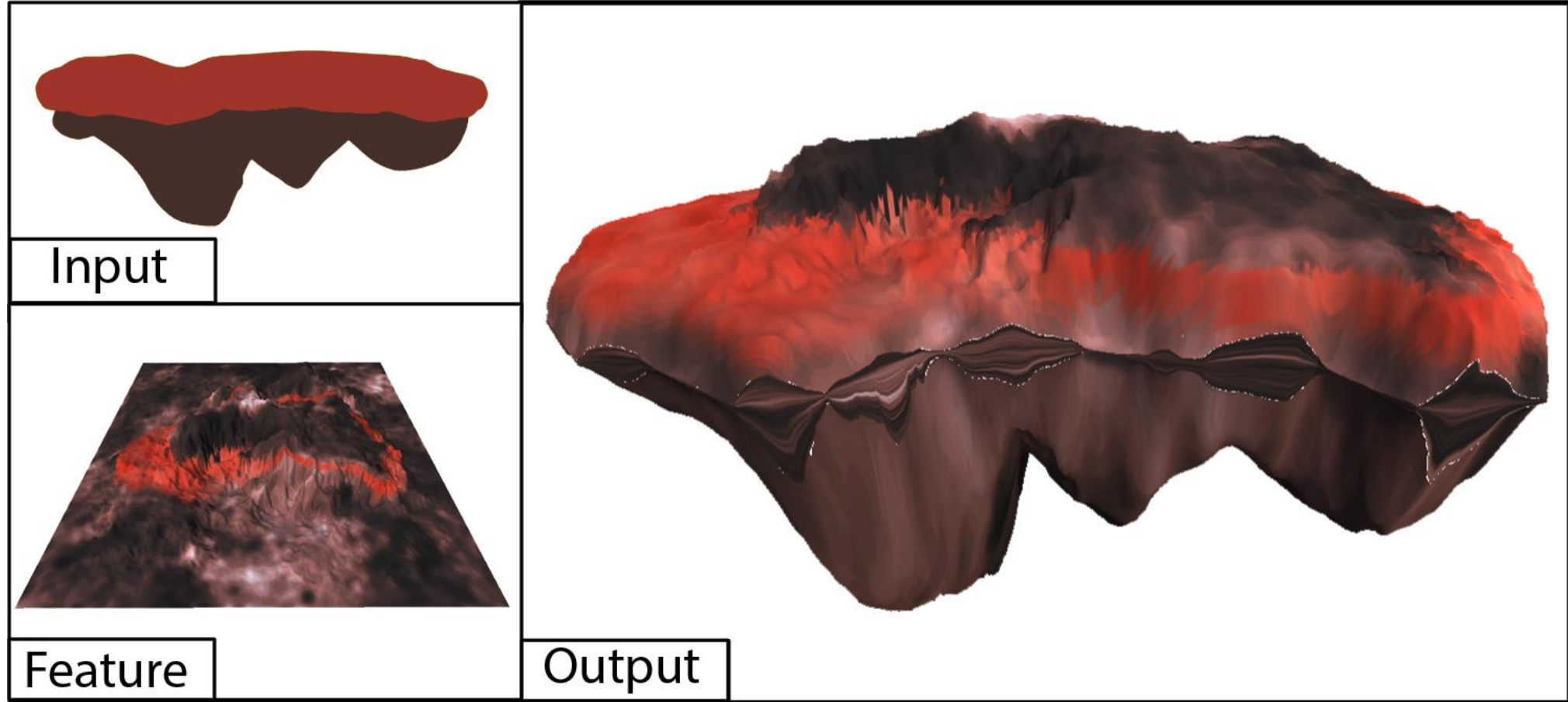
Mass Result



Mass Result



Mass Result



Mass Result

