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- In this setting, the function  $F_{i,j}(x,y)$  is called *a filter*.
  - In other words, the best pixel value is determined by performing some continuous weighted averaging near the pixel's location.
  - Effectively, this is like blurring the continuous image before point sampling it.

















- If the sample locations for the high resolution image form a regular, high resolution grid, then this is called *super sampling*.
- We can also choose other sampling patterns for the high resolution "image",
  - Such less regular patterns can help us avoid systematic errors that can arise when using the sum to replace the integral.

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