

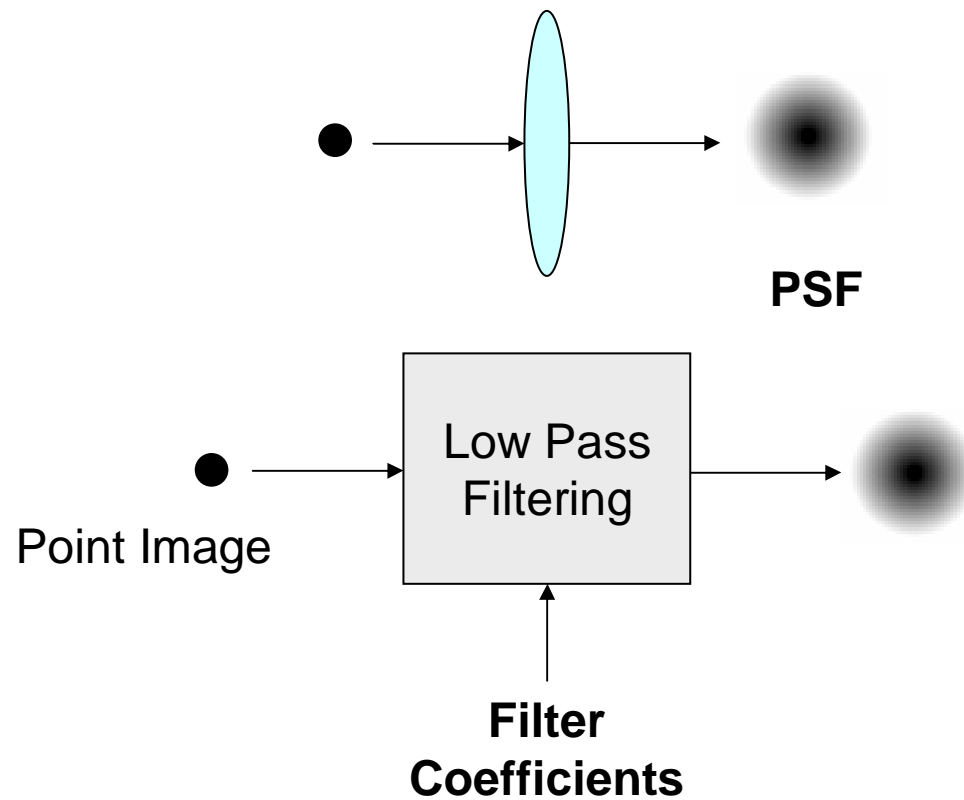
# Blurring and Inverse Filtering



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# Blurring

- Low pass filtering
- Point Spreading Function



# Blurred Images

①



Original Image

②



3X3 blurring

③



5X5 blurring

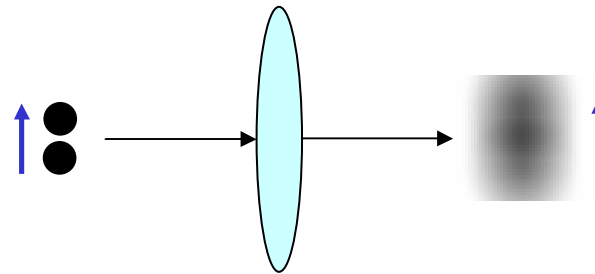
④



7X7 blurring

# Motion Blurring

- Caused by camera movement
- Fast moving objects



①

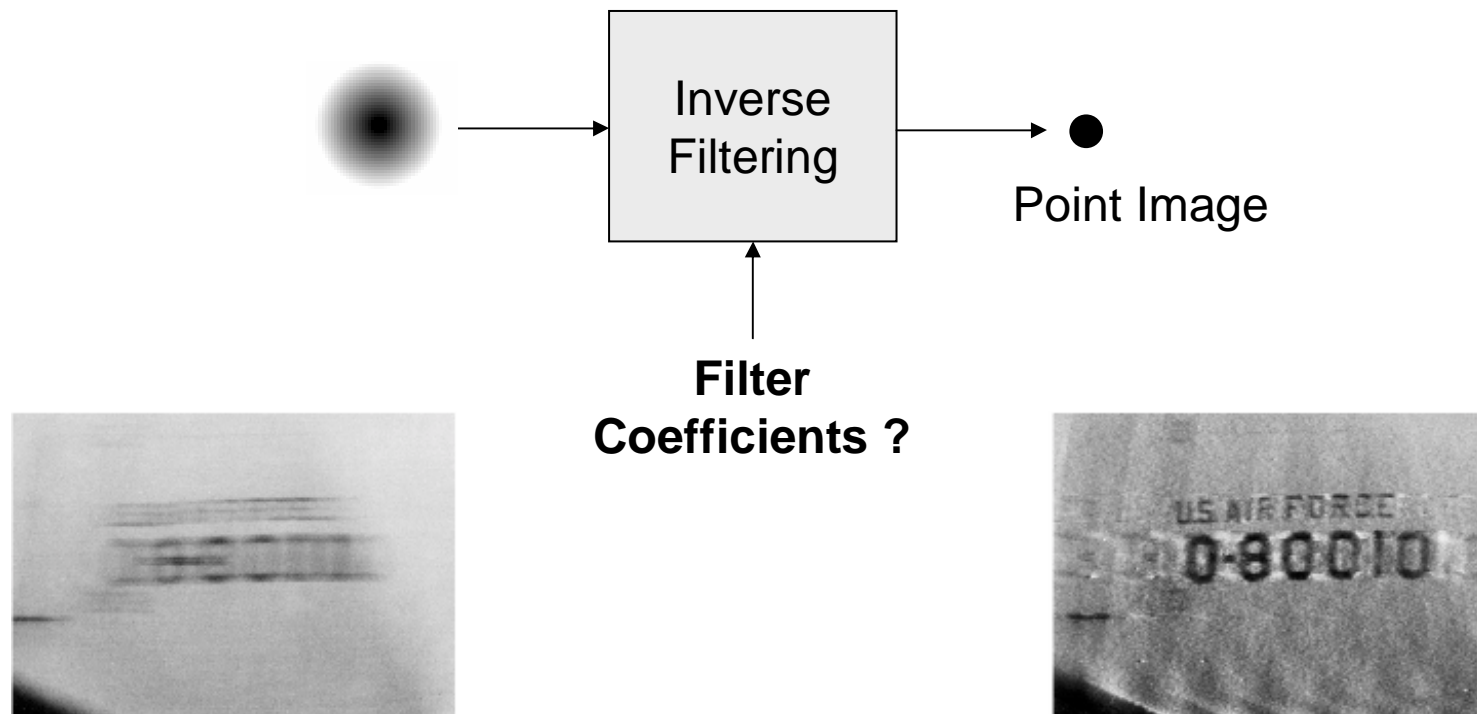


②

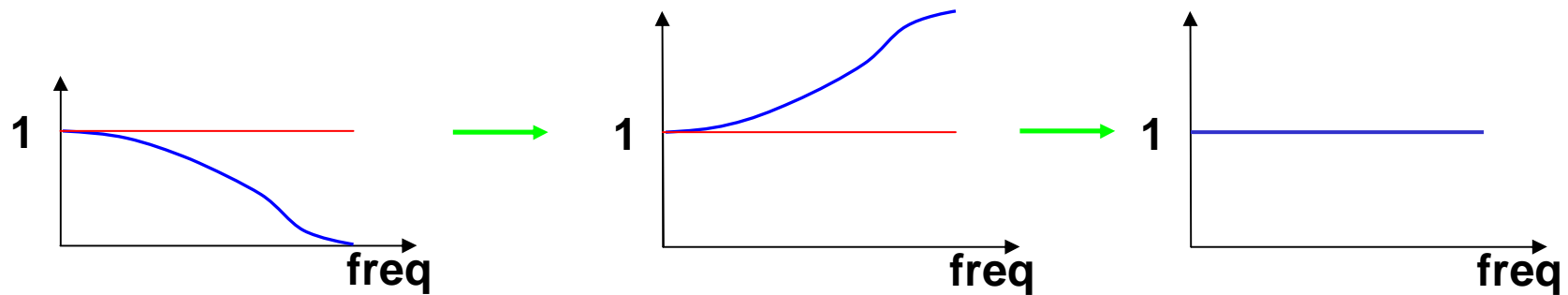
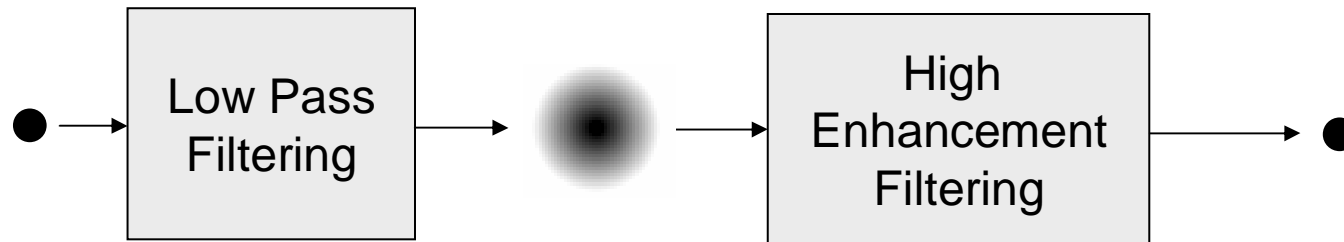


# Inverse Filtering

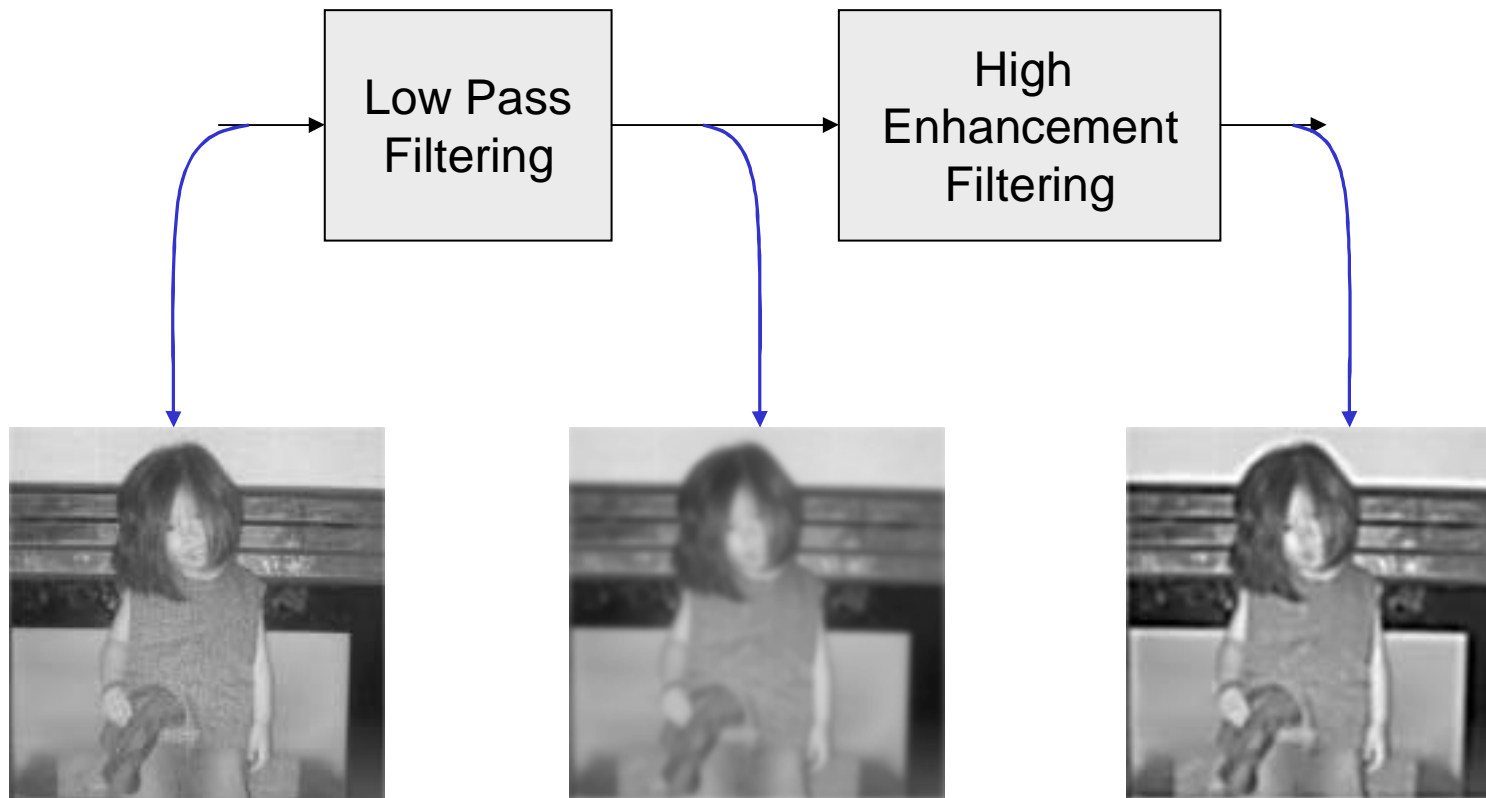
- Deconvolution
- Deblurring



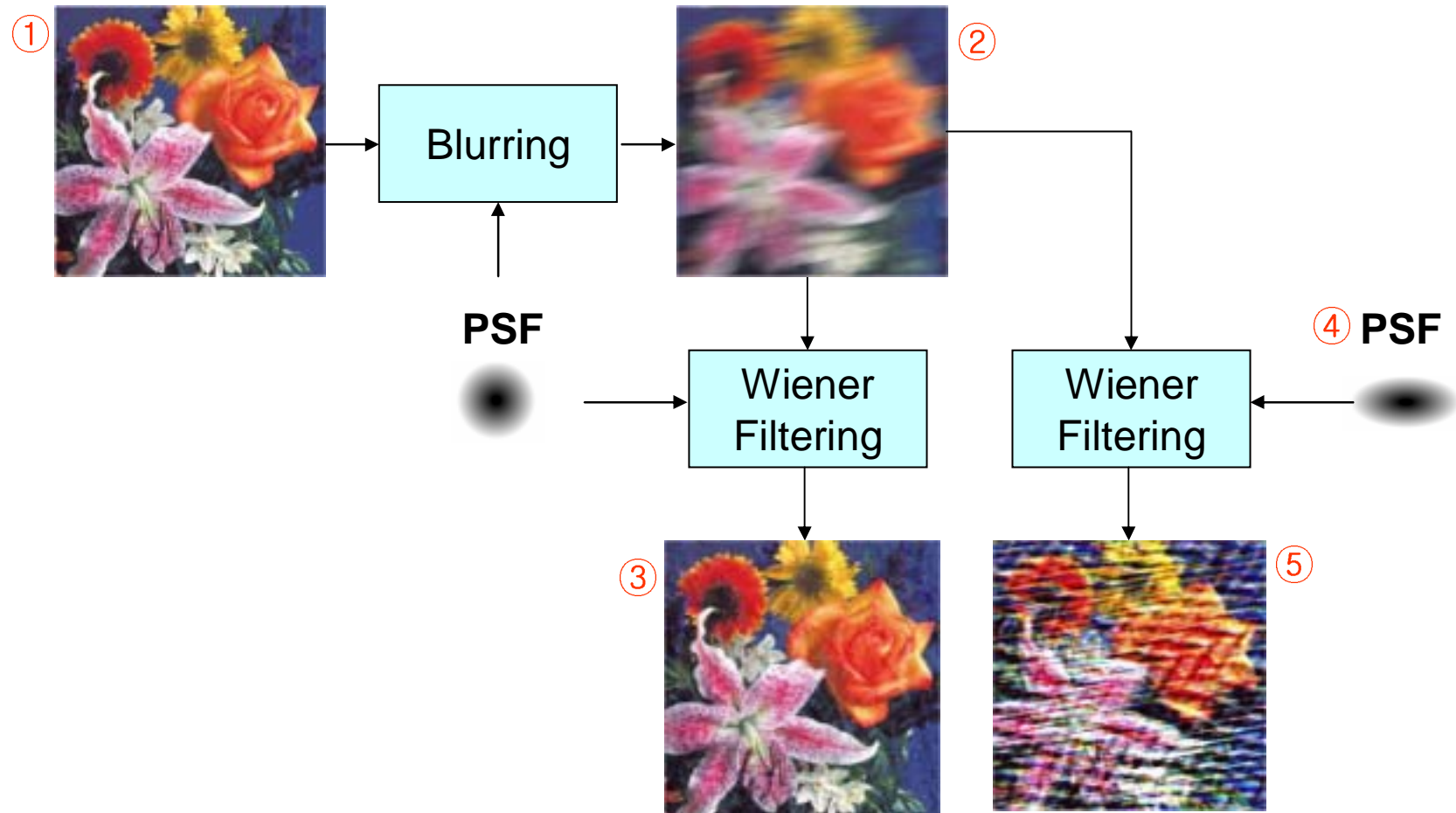
# High Enhancement Filtering



# High Enhancement Filtering



# Wiener Filtering for Deblurring





# Summary

- Blurring
- Inverse Filtering
  - Deblurring
- Wiener Filtering