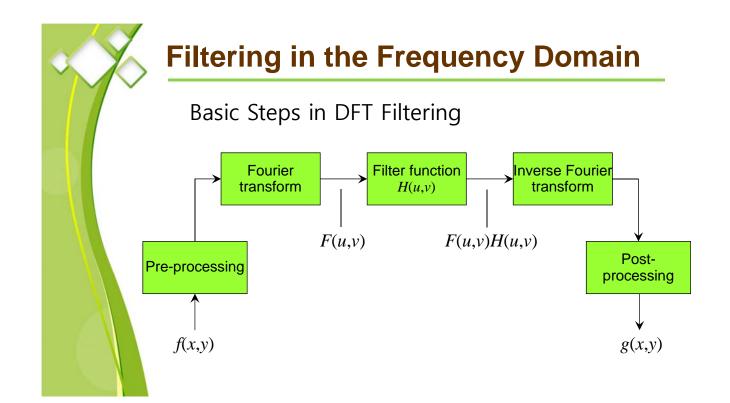


Image Processing

Frequency Domain Processing (Part II)

Pattern Recognition and Image Processing Laboratory (Since 2012)





Filtering in the Frequency Domain

>> ex4_03 % See demonstration



Filtering in the Frequency Domain

Obtaining Frequency Domain Filters from Spatial Filters

>> ex4_04 % See demonstration



Filtering in the Frequency Domain

Generating Filters Directly in the Frequency Domain

>> ex4_05 % See demonstration



Filtering in the Frequency Domain

Sharpening Frequency Domain Filters: Basic Highpass Filter

>> ex4_06 % See demonstration



Filtering in the Frequency Domain

High-frequency emphasis filtering

$$H_{hfe}(u,v) = a + bH_{hp}(u,v)$$

>> ex4_07 % See demonstration

Note: Parameters a and b are equivalent to brightness and contrast adjustments in the spatial domain.



