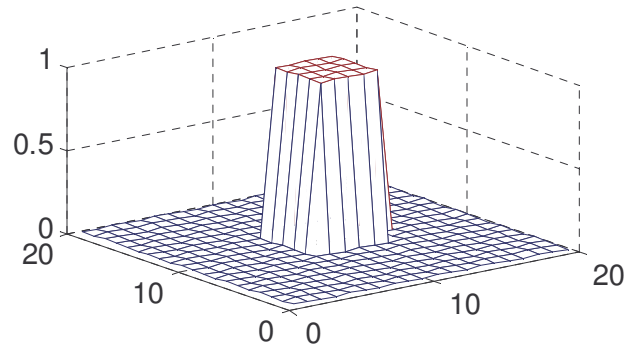
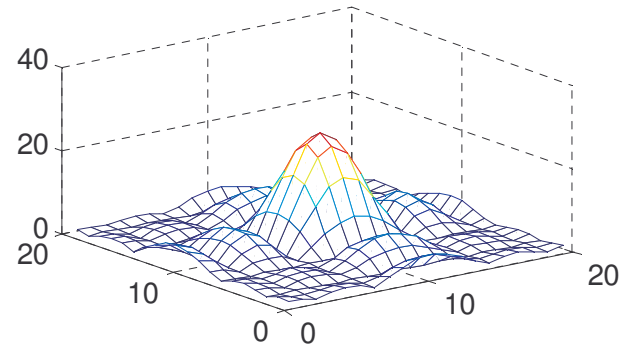


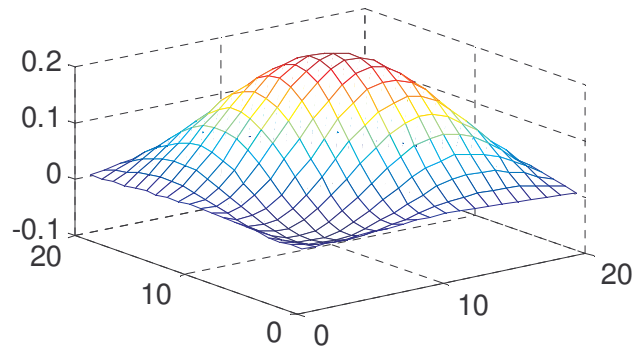
`x=zeros(20);x(9:13,9:13)=1;`



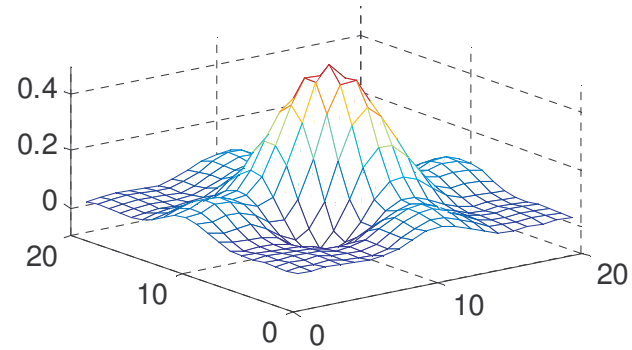
`abs(fftshift(z))`



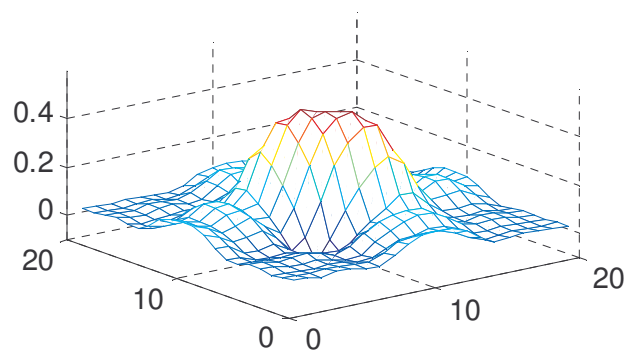
`m=zeros(20);m(1:2,1:2)=1;real(iff2(z.*m))`



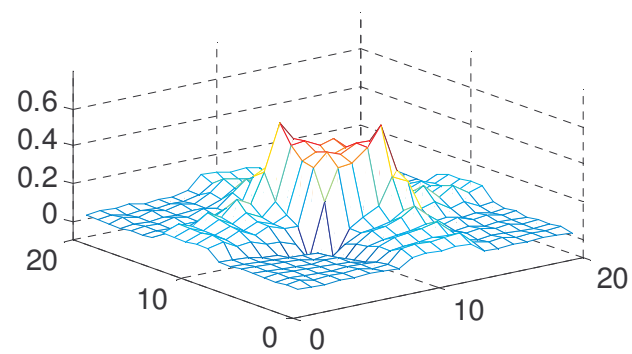
`m(1:4,1:4)=1;real(iff2(z.*m))`



`m(1:6,1:6)=1;real(iff2(z.*m))`



`m(1:10,1:10)=1;real(iff2(z.*m))`



```

>> x=[1.1:.1:1.6;2.1:.1:2.6;3.1:.1:3.6;4.1:.1:4.6;5.1:.1:5.6;6.1:.1:6.6]+rand(6)/10
1.12485 1.22584 1.32421 1.40798 1.54806 1.67209
2.18376 2.26163 2.32845 2.45745 2.56907 2.65497
3.14940 3.28968 3.32417 3.41307 3.57655 3.66640
4.15833 4.23134 4.39530 4.46403 4.51898 4.60122
5.15942 5.21181 5.34605 5.44941 5.54662 5.65052
6.18454 6.23382 6.32412 6.48001 6.54985 6.60086
>> fftshift(x)
4.46403 4.51898 4.60122 4.15833 4.23134 4.39530
5.44941 5.54662 5.65052 5.15942 5.21181 5.34605
6.48001 6.54985 6.60086 6.18454 6.23382 6.32412
1.40798 1.54806 1.67209 1.12485 1.22584 1.32421
2.45745 2.56907 2.65497 2.18376 2.26163 2.32845
3.41307 3.57655 3.66640 3.14940 3.28968 3.32417
>> real(fftshift(ifft2(conj(fft2(x)))) )
4.46403 4.39530 4.23134 4.15833 4.60122 4.51898
3.41307 3.32417 3.28968 3.14940 3.66640 3.57655
2.45745 2.32845 2.26163 2.18376 2.65497 2.56907
1.40798 1.32421 1.22584 1.12485 1.67209 1.54806
6.48001 6.32412 6.23382 6.18454 6.60086 6.54985
5.44941 5.34605 5.21181 5.15942 5.65052 5.54662
>> real(fft2(x) )
1.40284 -0.01737 -0.01694 -0.01660 -0.01694 -0.01737
-0.18043 0.00080 -0.00089 -0.00070 0.00065 0.00034
-0.18134 -0.00018 0.00036 0.00031 -0.00152 -0.00095
-0.18112 0.00114 -0.00280 -0.00115 -0.00280 0.00114
-0.18134 -0.00095 -0.00152 0.00031 0.00036 -0.00018
-0.18043 0.00034 0.00065 -0.00070 -0.00089 0.00080
>> real(fft2(fftshift(flipud(fftshift(x)))) ) )
1.40284 -0.01737 -0.01694 -0.01660 -0.01694 -0.01737
0.17875 -0.00190 0.00206 0.00037 0.00042 0.00067
0.18047 0.00124 -0.00045 -0.00033 0.00072 -0.00040
0.18112 -0.00114 0.00280 0.00115 0.00280 -0.00114
0.18047 -0.00040 0.00072 -0.00033 -0.00045 0.00124
0.17875 0.00067 0.00042 0.00037 0.00206 -0.00190
>> fft2(x)
>> fft2(fftshift(fftshift(x(:, :)) ) )
1.40284 + 0.000000i -0.01737 + 0.031699i -0.01694 + 0.009741i -0.01660 + 0.000000i -0.01694 - 0.009741i -0.01737 - 0.031699i
-0.18043 + 0.310581i 0.00080 + 0.000311i -0.00089 + 0.001001i -0.00070 + 0.000831i 0.00065 + 0.002001i 0.00034 - 0.002391i
-0.18134 + 0.103691i -0.00018 - 0.000571i 0.00036 + 0.001031i 0.00031 - 0.000201i -0.00152 - 0.001401i -0.00095 + 0.000881i
-0.18112 + 0.000001i 0.00114 + 0.001891i -0.00280 + 0.000391i -0.00115 - 0.000001i -0.00280 - 0.000391i 0.00114 - 0.001891i
-0.18134 - 0.103691i -0.00095 - 0.000881i -0.00152 + 0.001401i 0.00031 + 0.000201i 0.00036 - 0.001031i -0.00018 + 0.000571i
-0.18043 - 0.310581i 0.00034 + 0.002391i 0.00065 - 0.002001i -0.00070 - 0.000831i -0.00089 - 0.001001i 0.00080 - 0.000311i
>> fft2(fftshift(fftshift(x) ([1, 6, 5, 4, 3, 2], [1, 6, 5, 4, 3, 2]) ) )
1.40284 + 0.000000i -0.01737 - 0.031699i -0.01694 - 0.009741i -0.01660 - 0.000000i -0.01694 + 0.009741i -0.01737 + 0.031699i
-0.18043 - 0.310581i 0.00080 - 0.000311i -0.00089 - 0.001001i -0.00070 - 0.000831i 0.00065 - 0.002001i 0.00034 + 0.002391i
-0.18134 - 0.103691i -0.00018 + 0.000571i 0.00036 - 0.001031i 0.00031 + 0.000201i -0.00152 + 0.001401i -0.00095 - 0.000881i
-0.18112 - 0.000001i 0.00114 - 0.001891i -0.00280 - 0.000391i -0.00115 + 0.000001i -0.00280 + 0.000391i 0.00114 + 0.001891i
-0.18134 + 0.103691i -0.00095 + 0.000881i -0.00152 - 0.001401i 0.00031 - 0.000201i 0.00036 + 0.001031i -0.00018 - 0.000571i
-0.18043 + 0.310581i 0.00034 - 0.002391i 0.00065 + 0.002001i -0.00070 + 0.000831i -0.00089 + 0.001001i 0.00080 + 0.000311i
>> fft2(fftshift(fftshift(x) ([1, 6, 5, 4, 3, 2], :) ) )
1.40284 + 0.000000i -0.01737 + 0.031699i -0.01694 + 0.009741i -0.01660 + 0.000000i -0.01694 - 0.009741i -0.01737 - 0.031699i
-0.18043 - 0.310581i 0.00034 + 0.002391i 0.00065 - 0.002001i -0.00070 - 0.000831i -0.00089 - 0.001001i 0.00080 - 0.000311i
-0.18134 - 0.103691i -0.00095 - 0.000881i -0.00152 + 0.001401i 0.00031 + 0.000201i 0.00036 - 0.001031i -0.00018 + 0.000571i
-0.18112 - 0.000001i 0.00114 + 0.001891i -0.00280 + 0.000391i -0.00115 + 0.000001i -0.00280 - 0.000391i 0.00114 - 0.001891i
-0.18134 + 0.103691i -0.00018 - 0.000571i 0.00036 + 0.001031i 0.00031 - 0.000201i -0.00152 - 0.001401i -0.00095 + 0.000881i
-0.18043 + 0.310581i 0.00080 + 0.000311i -0.00089 + 0.001001i -0.00070 + 0.000831i 0.00065 + 0.002001i 0.00034 - 0.002391i

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