✓ Processing of an image using Pywavelets

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In [ ]: import pywt
        cA, cD = pywt.dwt([1, 2, 3, 4], 'db1')
In [ ]: import numpy as np
        import matplotlib.pyplot as plt
        from matplotlib.image import imread
        import pywt
        import pywt.data
        # Load image
        A = imread("myimg.jpg")
        original = np.mean(A, -1)
        # Wavelet transform of image, and plot approximation and details
        titles = ['Approximation', ' Horizontal detail',
                   'Vertical detail', 'Diagonal detail']
        coeffs2 = pywt.dwt2(original, 'bior1.3')
        LL, (LH, HL, HH) = coeffs2
        fig = plt.figure(figsize=(12, 3))
        for i, a in enumerate([LL, LH, HL, HH]):
            ax = fig.add_subplot(1, 4, i + 1)
            ax.imshow(a, interpolation="nearest", cmap=plt.cm.gray)
            ax.set_title(titles[i], fontsize=10)
            ax.set_xticks([])
            ax.set_yticks([])
        fig.tight_layout()
        plt.show()
```







