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In [3]: import numpy as np
import matplotlib.pyplot as plt

def drawGraph(title, objectsF, objectsC):
    # Create data
    colorF = "green"
    colorC = "blue"
    groupF = "after work system"
    groupC = "immediately after reboot system"

    xF = np.arange(len(objectsF))
    yF = objectsF

    xC = np.arange(len(objectsC))
    yC = objectsC

    # Plot
    fig = plt.figure()
    sub_plt = fig.add_subplot(1, 1, 1)

    sub_plt.scatter(xF, yF, alpha=0.5, c=colorF, edgecolors='none', s=30,
label=groupF)
    sub_plt.scatter(xC, yC, alpha=0.5, c=colorC, edgecolors='none', s=30,
label=groupC)

    plt.ylabel('ms')
    plt.title(title)

    #add trend lines
    zF = np.polyfit(xF, yF, 0)
    pF = np.poly1d(zF)
    plt.plot(xF, pF(xF), "g--")

    zC = np.polyfit(xC, yC, 0)
    pC = np.poly1d(zC)
    plt.plot(xC, pC(xC), "b--")

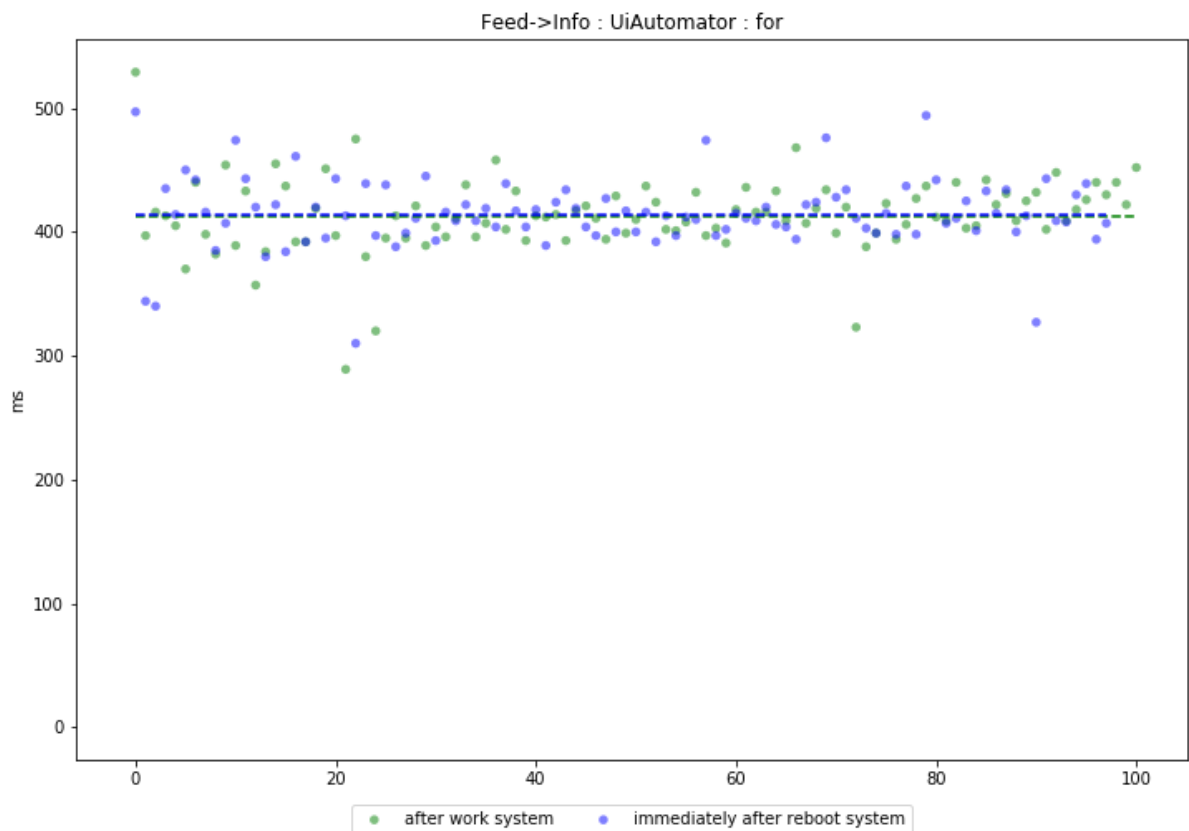
    plt.plot(0,0, "r--")

    #add description subtitle for two type of data
    plt.legend(loc='upper center', ncol=2, bbox_to_anchor=(0.5, -0.05))

    #increace figures size
    F = plt.gcf()
    Size = F.get_size_inches()
    F.set_size_inches(Size[0]*2, Size[1]*2, forward=True)

    plt.show()
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In [4]: drawGraph( 'Feed->Info : UiAutomator : for',
    (529, 397, 416, 413, 405, 370, 440, 398, 382, 454, 389, 433, 357, 384
    , 455, 437, 392, 392, 419, 451, 397, 289, 475, 380, 320, 395, 413, 395, 4
    21, 389, 404, 396, 411, 438, 396, 407, 458, 402, 433, 393, 413, 412, 414,
    393, 417, 421, 411, 394, 429, 399, 410, 437, 424, 402, 401, 408, 432, 397
    , 403, 391, 418, 436, 416, 416, 433, 409, 468, 407, 419, 434, 399, 420, 3
    23, 388, 399, 423, 394, 406, 427, 437, 412, 409, 440, 403, 405, 442, 422,
    431, 409, 425, 432, 402, 448, 409, 418, 426, 440, 430, 440, 422, 452),
    (497, 344, 340, 435, 414, 450, 442, 416, 385, 407, 474, 443, 420, 380
    , 422, 384, 461, 392, 420, 395, 443, 413, 310, 439, 397, 438, 388, 399, 4
    11, 445, 393, 416, 409, 422, 409, 419, 404, 439, 417, 404, 418, 389, 424,
    434, 419, 404, 397, 427, 400, 417, 400, 416, 392, 413, 397, 412, 410, 474
    , 397, 402, 415, 411, 409, 420, 406, 404, 394, 422, 424, 476, 428, 434, 4
    11, 403, 399, 415, 398, 437, 398, 494, 442, 407, 411, 425, 401, 433, 415,
    434, 400, 413, 327, 443, 409, 408, 430, 439, 394, 407)
    )
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In [ ]:
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