

# paper\_report

August 28, 2020

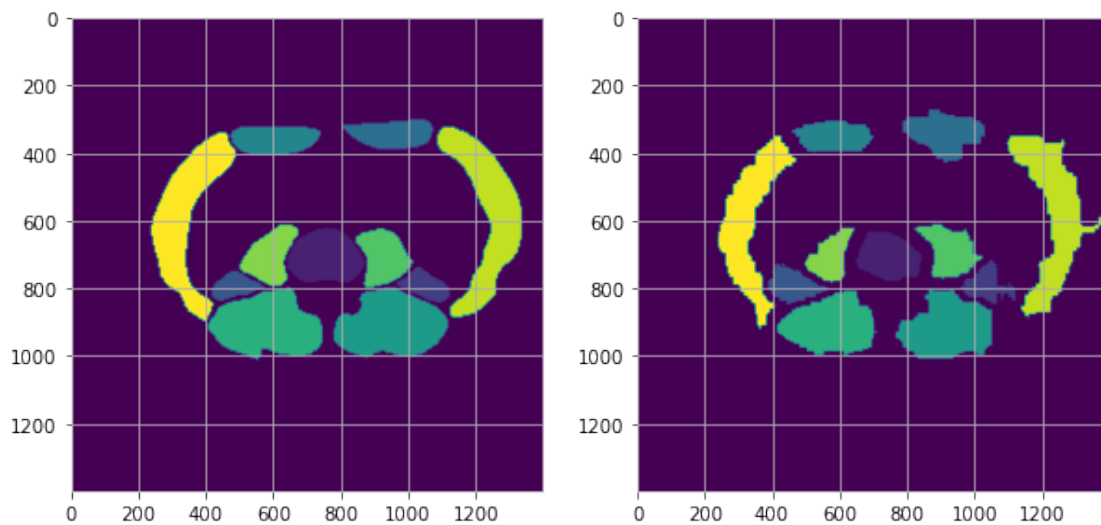
[17]: <tensorflow.python.keras.engine.input\_layer.InputLayer at 0x7f30e5c689e8>

[20]: 0.08181818181818182

The autoreload extension is already loaded. To reload it, use:  
%reload\_ext autoreload

[38]: (567, 567, 567)

[41]: <matplotlib.image.AxesImage at 0x7fcf6d603518>



[42]: ((1400, 1400), (1400, 1400))

[44]: 0.9465418367346938

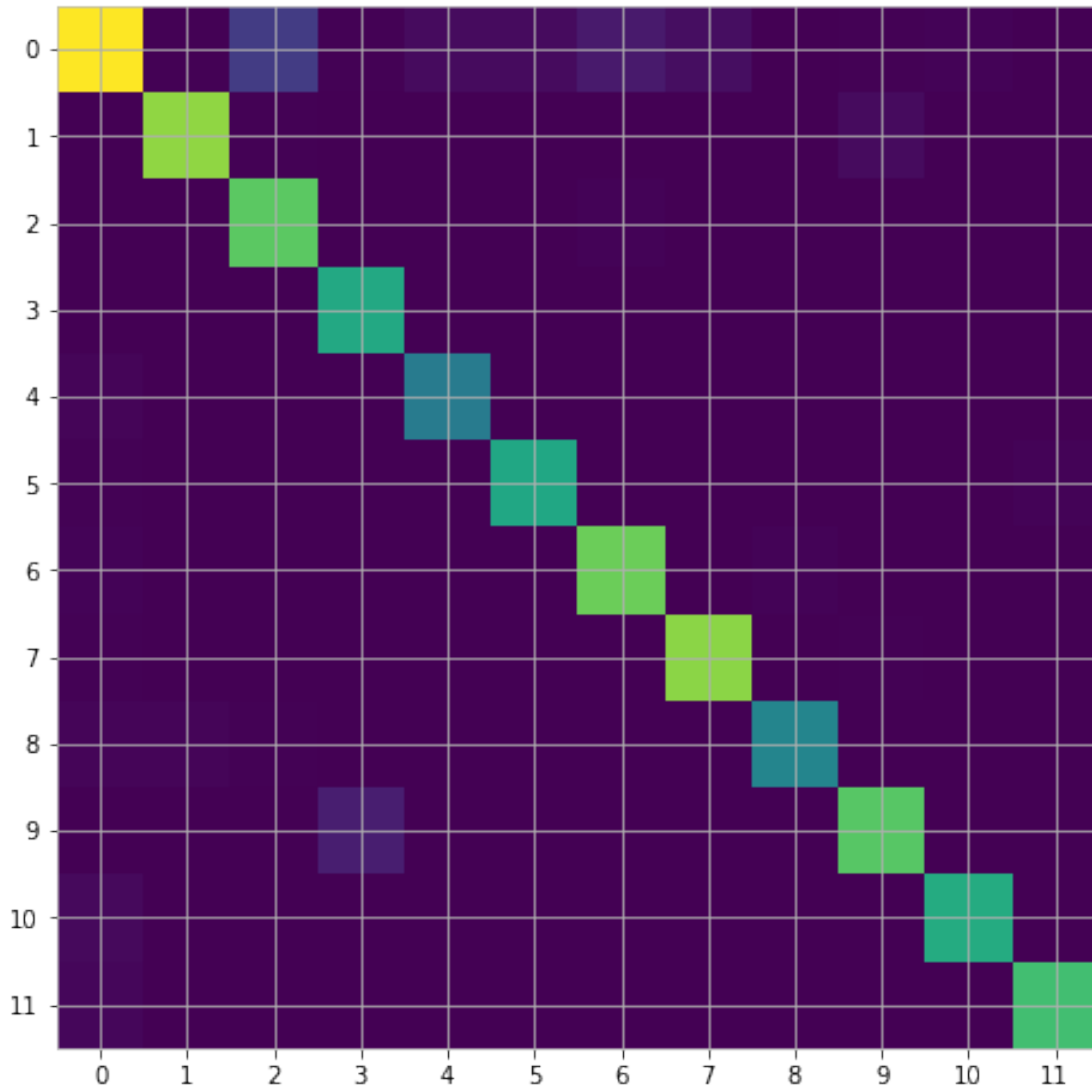
[46]: 0.21182400880990263

[49]: [<matplotlib.axis.YTick at 0x7fcf6cc4e518>,  
<matplotlib.axis.YTick at 0x7fcf6cc899e8>,  
<matplotlib.axis.YTick at 0x7fcf6d496a58>]

```

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<matplotlib.axis.YTick at 0x7fcf6d46cd68>,
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<matplotlib.axis.YTick at 0x7fcf6d483080>]

```



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[50]: array([ 0, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110],
          dtype=uint8)

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The autoreload extension is already loaded. To reload it, use:

```
%reload_ext autoreload
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muscles not of size 9 or 11

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muscles not of size 9 or 11

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muscles not of size 9 or 11  
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muscles not of size 9 or 11

muscles not of size 9 or 11

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muscles not of size 9 or 11

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muscles not of size 9 or 11

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muscles not of size 9 or 11

muscles not of size 9 or 11

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muscles not of size 9 or 11

muscles not of size 9 or 11

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muscles not of size 9 or 11

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muscles not of size 9 or 11  
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 Pre/Controls-Female/Subject F7/2.COF7-7:16.jpg  
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muscles not of size 9 or 11

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Pre/Controls-Male/Subject M1/4.CO1-15:16.jpg

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Pre/Controls-Male/Subject M6/1.CO6-1:16.jpg

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Pre/Controls-Male/Subject M6/3.CO6-11:16.jpg

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Pre/Controls-Male/Subject M6/2.CO6-7:16.jpg

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Pre/Controls-Male/Subject M4/1.CO4-3:16.jpg

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muscles not of size 9 or 11

muscles not of size 9 or 11

muscles not of size 9 or 11

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Post/Female/Subject F6B/3.COF6B-11:16.jpg

/home/bzr0014/git/sesek2/mri\_analysis/1.Multigroup Set#1\_DONE/Control/Control -  
Post/Female/Subject F6B/2.COF6B-7:16.jpg

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Post/Female/Subject F1B/2.COF1B-7:16.jpg  
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Post/Female/Subject F1B/3.COF1B-11:16.jpg

muscles not of size 9 or 11  
muscles not of size 9 or 11

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muscles not of size 9 or 11

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muscles not of size 9 or 11

muscles not of size 9 or 11  
muscles not of size 9 or 11  
muscles not of size 9 or 11

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muscles not of size 9 or 11

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Post/Male/Subject M1B/4.COM1B-15:16.jpg  
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muscles not of size 9 or 11  
muscles not of size 9 or 11  
muscles not of size 9 or 11

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Post/Male/Subject M3B/4.COM3B-14:16.jpg  
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Post/Male/Subject M3B/1.COM3B-3:16.jpg



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muscles not of size 9 or 11  
 muscles not of size 9 or 11

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Lifting/Weight Lifting - Post/Female/Post-training/Subject WF4B/3.WF4B-15:50.jpg

muscles not of size 9 or 11

muscles not of size 9 or 11

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Lifting/Weight Lifting - Post/Male/Weight Lifting - Post/Subject  
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muscles not of size 9 or 11

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 muscles not of size 9 or 11  
 muscles not of size 9 or 11  
  
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muscles not of size 9 or 11

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Lifting/Weight Lifting - Pre/Female/Subject WF5/2.FCWF5-7:16.jpg

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Lifting/Weight Lifting - Pre/Female/Subject WF2/3.FCWF2-11:16.jpg

/home/bzr0014/git/sesek2/mri\_analysis/1.Multigroup Set#1\_DONE/Weight  
Lifting/Weight Lifting - Pre/Female/Subject WF2/1.FCWF2-3:16.jpg

/home/bzr0014/git/sesek2/mri\_analysis/1.Multigroup Set#1\_DONE/Weight  
Lifting/Weight Lifting - Pre/Female/Subject WF2/4.FCWF2-14:16.jpg

/home/bzr0014/git/sesek2/mri\_analysis/1.Multigroup Set#1\_DONE/Weight  
Lifting/Weight Lifting - Pre/Female/Subject WF3/1.FCWF3-2:16.jpg

/home/bzr0014/git/sesek2/mri\_analysis/1.Multigroup Set#1\_DONE/Weight  
Lifting/Weight Lifting - Pre/Female/Subject WF3/2.FCWF3-6:16.jpg

/home/bzr0014/git/sesek2/mri\_analysis/1.Multigroup Set#1\_DONE/Weight  
Lifting/Weight Lifting - Pre/Female/Subject WF3/4.FCWF3-14:16.jpg

/home/bzr0014/git/sesek2/mri\_analysis/1.Multigroup Set#1\_DONE/Weight  
Lifting/Weight Lifting - Pre/Female/Subject WF3/3.FCWF3-10:16.jpg

/home/bzr0014/git/sesek2/mri\_analysis/1.Multigroup Set#1\_DONE/Weight  
Lifting/Weight Lifting - Pre/Female/Subject WF6/4.FCWF6-15:16.jpg

muscles not of size 9 or 11

muscles not of size 9 or 11

muscles not of size 9 or 11

/home/bzr0014/git/sesek2/mri\_analysis/1.Multigroup Set#1\_DONE/Weight

Lifting/Weight Lifting - Pre/Female/Subject WF6/1.FCWF6-3:16.jpg  
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Lifting/Weight Lifting - Pre/Female/Subject WF6/3.FCWF6-11:16.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/1.Multigroup Set#1\_DONE/Weight  
Lifting/Weight Lifting - Pre/Female/Subject WF6/2.FCWF6-7:16.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/1.Multigroup Set#1\_DONE/Weight  
Lifting/Weight Lifting - Pre/Female/Subject WF4/3.REWF4-11:16PreBeh.jpg  
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Lifting/Weight Lifting - Pre/Female/Subject WF4/4.REWF4-15:16PreBeh.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/1.Multigroup Set#1\_DONE/Weight  
Lifting/Weight Lifting - Pre/Female/Subject WF4/1.REWF4-2:16PreBeh.jpg

muscles not of size 9 or 11

muscles not of size 9 or 11

/home/bzr0014/git/sesek2/mri\_analysis/1.Multigroup Set#1\_DONE/Weight  
Lifting/Weight Lifting - Pre/Female/Subject WF4/2.REWF4-6:16PreBeh.jpg  
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Lifting/Weight Lifting - Pre/Female/Subject WF1/1.FCWF1-2:16.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/1.Multigroup Set#1\_DONE/Weight  
Lifting/Weight Lifting - Pre/Female/Subject WF1/2.FCWF1-6:16.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/1.Multigroup Set#1\_DONE/Weight  
Lifting/Weight Lifting - Pre/Female/Subject WF1/4.FCWF1-14:16.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/1.Multigroup Set#1\_DONE/Weight  
Lifting/Weight Lifting - Pre/Female/Subject WF1/3.FCWF1-10:16.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/1.Multigroup Set#1\_DONE/Weight  
Lifting/Weight Lifting - Pre/Male/Subject W2/4.FCWM02-14:16.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/1.Multigroup Set#1\_DONE/Weight  
Lifting/Weight Lifting - Pre/Male/Subject W2/2.FCWM02-6:16.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/1.Multigroup Set#1\_DONE/Weight  
Lifting/Weight Lifting - Pre/Male/Subject W2/3.FCWM02-11:16.jpg  
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Lifting/Weight Lifting - Pre/Male/Subject W2/1.FCWM02-3:16.jpg  
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Lifting/Weight Lifting - Pre/Male/Subject W6/2.FCWM6-7:16.jpg  
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Lifting/Weight Lifting - Pre/Male/Subject W6/4.FCWM6-14:16.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/1.Multigroup Set#1\_DONE/Weight  
Lifting/Weight Lifting - Pre/Male/Subject W6/3.FCWM6-11:16.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/1.Multigroup Set#1\_DONE/Weight  
Lifting/Weight Lifting - Pre/Male/Subject W6/1.FCWM6-2:16.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/1.Multigroup Set#1\_DONE/Weight  
Lifting/Weight Lifting - Pre/Male/Subject W1/2.FCWM1-7:16.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/1.Multigroup Set#1\_DONE/Weight  
Lifting/Weight Lifting - Pre/Male/Subject W1/1.FCWM1-3:16.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/1.Multigroup Set#1\_DONE/Weight  
Lifting/Weight Lifting - Pre/Male/Subject W1/3.FCWM1-11:16.jpg  
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Lifting/Weight Lifting - Pre/Male/Subject W1/4.FCWM1-14:16.jpg

/home/bzr0014/git/sesek2/mri\_analysis/1.Multigroup Set#1\_DONE/Weight  
 Lifting/Weight Lifting - Pre/Male/Subject W8/4.FCWM8-14:16.jpg  
 /home/bzr0014/git/sesek2/mri\_analysis/1.Multigroup Set#1\_DONE/Weight  
 Lifting/Weight Lifting - Pre/Male/Subject W8/1.FCWM8-4:16.jpg  
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 Lifting/Weight Lifting - Pre/Male/Subject W8/3.FCWM8-10:16.jpg  
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 Lifting/Weight Lifting - Pre/Male/Subject W8/2.FCWM8-7:16.jpg  
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 Lifting/Weight Lifting - Pre/Male/Subject W9/3.FCWM9-11:16.jpg  
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 Lifting/Weight Lifting - Pre/Male/Subject W9/4.FCWM9-14:16.jpg  
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 Lifting/Weight Lifting - Pre/Male/Subject W9/1.FCWM9-3:16.jpg  
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 /home/bzr0014/git/sesek2/mri\_analysis/1.Multigroup Set#1\_DONE/Weight  
 Lifting/Weight Lifting - Pre/Male/Subject W3/3.FCWM3-11:16.jpg  
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 Lifting/Weight Lifting - Pre/Male/Subject W3/2.FCWM3-6:16.jpg  
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 Lifting/Weight Lifting - Pre/Male/Subject W3/4.FCWM3-14:16.jpg  
 /home/bzr0014/git/sesek2/mri\_analysis/1.Multigroup Set#1\_DONE/Weight  
 Lifting/Weight Lifting - Pre/Male/Subject W4/3.FCWM4-11:16.jpg

muscles not of size 9 or 11  
 muscles not of size 9 or 11  
 muscles not of size 9 or 11  
 muscles not of size 9 or 11

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 Lifting/Weight Lifting - Pre/Male/Subject W4/4.FCWM4-15:16.jpg  
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 /home/bzr0014/git/sesek2/mri\_analysis/1.Multigroup Set#1\_DONE/Weight  
 Lifting/Weight Lifting - Pre/Male/Subject W4/2.FCWM4-7:16.jpg  
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 Pre/Female/Subject F7/3-COF7-11:16RepBeh.jpg  
 /home/bzr0014/git/sesek2/mri\_analysis/2.Multigroup Set#2/Control/Control -  
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Pre/Female/Subject F5/2-COF5-7:16RepBeh.jpg  
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Pre/Male/Subject M3/3-C03-11:16RepBeh.jpg  
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 muscles not of size 9 or 11  
 muscles not of size 9 or 11  
  
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 Pre/Male/Subject M5/3-C05-11:16RepBeh.jpg  
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 /home/bzr0014/git/sesek2/mri\_analysis/2.Multigroup Set#2/Control/Control -  
 Pre/Male/Subject M1/2-C01-7:16RepBeh.jpg  
  
 muscles not of size 9 or 11  
 muscles not of size 9 or 11  
  
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 muscles not of size 9 or 11  
  
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 Pre/Male/Subject M2/1-C02RR-3:16RepBeh.jpg  
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Pre/Male/Subject M2/3-C02RR-11:16RepBeh.jpg  
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muscles not of size 9 or 11  
muscles not of size 9 or 11

/home/bzr0014/git/sesek2/mri\_analysis/2.Multigroup Set#2/Control/Control -  
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Post/Female/Subject F1B/2-C0F1B-7:16RepBeh.jpg  
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Post/Female/Subject F1B/1-C0F1B-2:16RepBeh.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/2.Multigroup Set#2/Control/Control -  
Post/Female/Subject F7B/4-C0F7B-16:16RepBeh.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/2.Multigroup Set#2/Control/Control -  
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/home/bzr0014/git/sesek2/mri\_analysis/2.Multigroup Set#2/Control/Control -  
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/home/bzr0014/git/sesek2/mri\_analysis/2.Multigroup Set#2/Control/Control -  
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/home/bzr0014/git/sesek2/mri\_analysis/2.Multigroup Set#2/Control/Control -  
Post/Female/Subject F3B/2-COF3B-7:16RepBeh.jpg

muscles not of size 9 or 11

/home/bzr0014/git/sesek2/mri\_analysis/2.Multigroup Set#2/Control/Control -  
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Post/Female/Subject F2B/1-COF2B-4:16RepBeh.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/2.Multigroup Set#2/Control/Control -  
Post/Female/Subject F2B/3-COF2B-11:16RepBeh.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/2.Multigroup Set#2/Control/Control -  
Post/Female/Subject F2B/2-COF2B-7:16RepBeh.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/2.Multigroup Set#2/Control/Control -  
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muscles not of size 9 or 11

muscles not of size 9 or 11

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Post/Male/Subject M2B/3-COM2B-11:16RepBeh.jpg  
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Post/Male/Subject M2B/1-COM2B-3:16RepBeh.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/2.Multigroup Set#2/Control/Control -  
Post/Male/Subject M2B/4-COM2B-15:16RepBeh.jpg  
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Post/Male/Subject M1B/4-COM1B-15:16RepBeh.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/2.Multigroup Set#2/Control/Control -  
Post/Male/Subject M1B/1-COM1B-2:16RepBeh.jpg  
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Post/Male/Subject M1B/2-COM1B-7:16RepBeh.jpg  
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Post/Male/Subject M1B/3-COM1B-11:16RepBeh.jpg  
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Post/Male/Subject M6B/1-COM6B-3:16RepBeh.jpg  
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Post/Male/Subject M6B/3-COM6B-11:16RepBeh.jpg  
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Post/Male/Subject M6B/4-COM6B-15:16RepBeh.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/2.Multigroup Set#2/Control/Control -  
Post/Male/Subject M6B/2-COM6B-6:16RepBeh.jpg

muscles not of size 9 or 11

muscles not of size 9 or 11

/home/bzr0014/git/sesek2/mri\_analysis/2.Multigroup Set#2/Control/Control -  
Post/Male/Subject M3B/2-COM3B-6:16RepBeh.jpg  
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Post/Male/Subject M3B/3-COM3B-10:16RepBeh.jpg  
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Post/Male/Subject M3B/1-COM3B-3:16RepBeh.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/2.Multigroup Set#2/Control/Control -  
Post/Male/Subject M4B/3-COM4B-11:16RepBeh.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/2.Multigroup Set#2/Control/Control -  
Post/Male/Subject M4B/2-COM4B-7:16RepBeh.jpg

muscles not of size 9 or 11

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Post/Male/Subject M4B/4-COM4B-15:16RepBeh.jpg  
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Post/Male/Subject M5B/1-COM5B-3:16RepBeh.jpg  
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Post/Male/Subject M5B/4-COM5B-15:16RepBeh.jpg  
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Post/Male/Subject M5B/2-COM5B-7:16RepBeh.jpg  
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Post/Male/Subject M5B/3-COM5B-11:16RepBeh.jpg  
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muscles not of size 9 or 11

muscles not of size 9 or 11

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Lifting - Post/Male/Subject WM2B/3-WM2B-11:16RepBeh.jpg  
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Lifting - Pre/Female/Subject WF2/4-WF2-14:16RepBeh.jpg

muscles not of size 9 or 11

muscles not of size 9 or 11

muscles not of size 9 or 11

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muscles not of size 9 or 11

muscles not of size 9 or 11

muscles not of size 9 or 11

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muscles not of size 9 or 11

muscles not of size 9 or 11

muscles not of size 9 or 11

muscles not of size 9 or 11

muscles not of size 9 or 11

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/home/bzr0014/git/sesek2/mri\_analysis/2.Multigroup Set#2/Weight Lifting/Weight Lifting - Pre/Female/Subject WF1/1-WF1-2:16RepBeh.jpg

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/home/bzr0014/git/sesek2/mri\_analysis/2.Multigroup Set#2/Weight Lifting/Weight

Lifting - Pre/Female/Subject WF1/3-WF1-10:16RepBeh.jpg  
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Lifting - Pre/Female/Subject WF1/2-WF1-6:16RepBeh.jpg

muscles not of size 9 or 11

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Lifting - Pre/Male/Subject WM9/3-WM9-11:16RepBeh.jpg  
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Lifting - Pre/Male/Subject WM9/2-WM9-6:16RepBeh.jpg

muscles not of size 9 or 11

muscles not of size 9 or 11

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Lifting - Pre/Male/Subject WM9/1-WM9-3:16RepBeh.jpg  
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Lifting - Pre/Male/Subject WM8/1-WM8-3:16RepBeh.jpg  
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 /home/bzr0014/git/sesek2/mri\_analysis/2.Multigroup Set#2/Weight Lifting/Weight Lifting - Pre/Male/Subject WM2/4-WM2-14:16RepBeh.jpg  
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 Pre/Male/Subject M1/2-CO1-10:50Rep-Beh.jpg  
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 Pre/Male/Subject M1/1-CO1-4:50Rep-Beh.jpg  
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 Pre/Male/Subject M1/4-CO1-22:50Rep-Beh.jpg

muscles not of size 9 or 11

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 Lifting - Post/Female/Subject WF6B/4-WF6B-20:50RepBeh.jpg

muscles not of size 9 or 11

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 /home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Post/Male/Subject WM9B/1-WM9B-6:50RepBeh.jpg  
 /home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Post/Male/Subject WM9B/3-WM9B-16:50RepBeh.jpg  
 /home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Post/Male/Subject WM3B/1-WM3B-3:50RepBeh.jpg  
 /home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Post/Male/Subject WM3B/4-WM3B-22:50RepBeh.jpg  
 /home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Post/Male/Subject WM3B/3-WM3B-15:50RepBeh.jpg

muscles not of size 9 or 11

/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Post/Male/Subject WM3B/2-WM3B-9:50RepBeh.jpg  
 /home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Post/Male/Subject WM1B/3-WM1B-15:50RepBeh.jpg  
 /home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Post/Male/Subject WM1B/4-WM1B-21:50RepBeh.jpg  
 /home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Post/Male/Subject WM1B/1-WM1B-3:50RepBeh.jpg  
 /home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Post/Male/Subject WM1B/2-WM1B-9:50RepBeh.jpg  
 /home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Post/Male/Subject WM8B/3-WM8B-16:50RepBeh.jpg  
 /home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Post/Male/Subject WM8B/2-WM8B-9:50RepBeh.jpg  
 /home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Post/Male/Subject WM8B/1-WM8B-5:50RepBeh.jpg  
 /home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Post/Male/Subject WM8B/4-WM8B-22:50RepBeh.jpg  
 /home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Female/Subject WF5/4-FCWF5-22:50Beh-Rep.jpg

muscles not of size 9 or 11

/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Female/Subject WF5/3-FCWF5-16:50Beh-Rep.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Female/Subject WF5/2-FCWF5-9:50Beh-Rep.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Female/Subject WF5/1-FCWF5-3:50Beh-Rep.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Female/Subject WF2/4-FCWF2-21:50Beh-Rep.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Female/Subject WF2/2-FCWF2-10:50Beh-Rep.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Female/Subject WF2/1-FCWF2-4:50Beh-Rep.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Female/Subject WF2/3-FCWF2-16:50Beh-Rep.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Female/Subject WF3/2-FCWF3-10:50Beh-Rep.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Female/Subject WF3/3-FCWF3-16:50Beh-Rep.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Female/Subject WF3/1-FCWF3-4:50Beh-Rep.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Female/Subject WF3/4-FCWF3-22:50Beh-Rep.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Female/Subject WF6/4-FCWF6-21:50Beh-Rep.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Female/Subject WF6/1-FCWF6-5:50Beh-Rep.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Female/Subject WF6/3-FCWF6-17:50Beh-Rep.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Female/Subject WF6/2-FCWF6-11:50Beh-Rep.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Female/Subject WF4/2-FCWF4-6:50Beh-Rep.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Female/Subject WF4/1-FCWF4-1:50Beh-Rep.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Female/Subject WF4/3-FCWF4-12:50Beh-Rep.jpg  
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/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Female/Subject WF1/4-FCWF1-21:50Beh-Rep.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Female/Subject WF1/2-FCWF1-10:50Beh-Rep.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Female/Subject WF1/1-FCWF1-5:50Beh-Rep.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Female/Subject WF1/3-FCWF1-16:50Beh-Rep.jpg

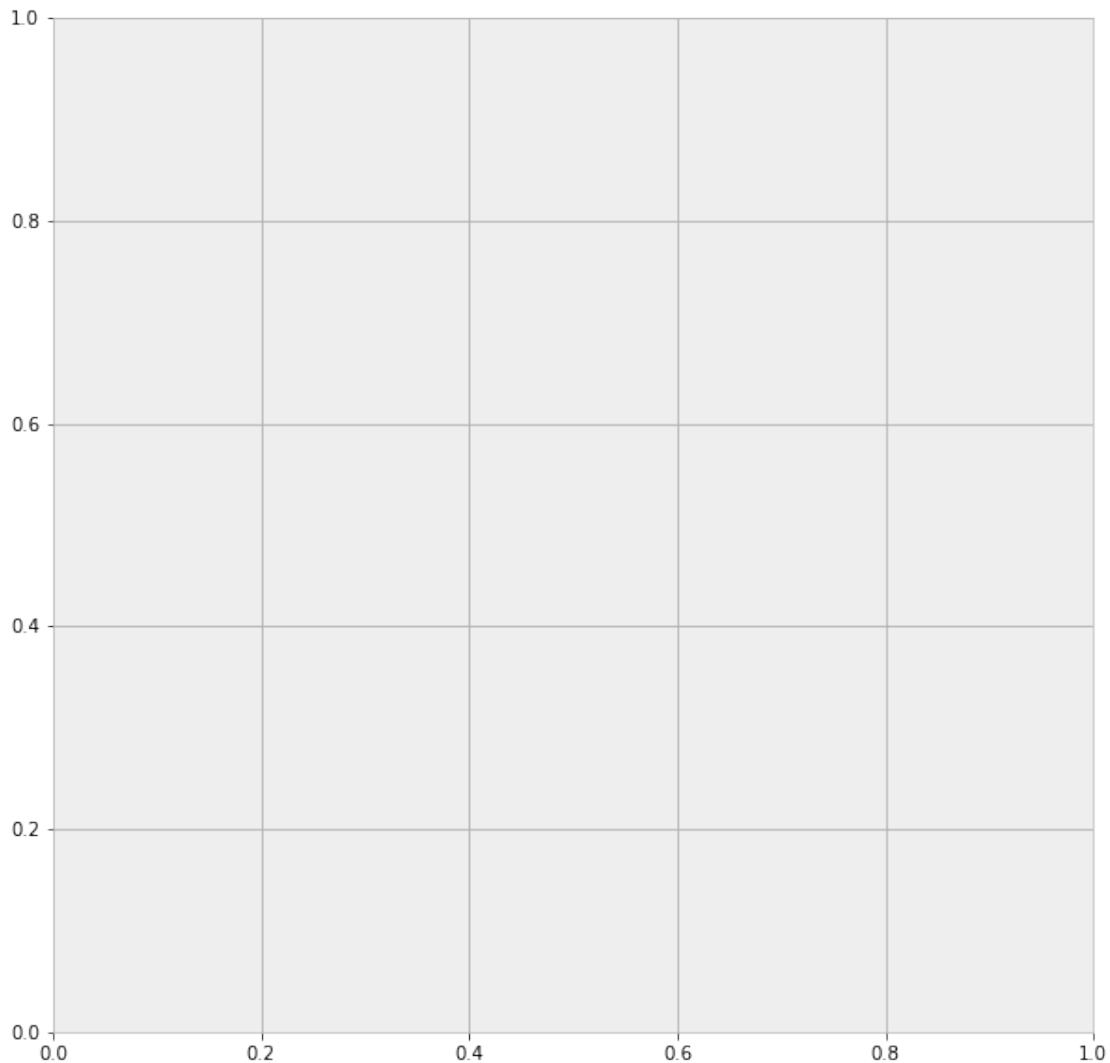
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/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Male/Subject WM4/2-FCWM4-9:50Beh-Rep.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Male/Subject WM4/1-FCWM4-2:50Beh-Rep.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Male/Subject WM4/3-FCWM4-15:50Beh-Rep.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Male/Subject WM9/2-FCWM9-4:50Beh-Rep.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Male/Subject WM9/3-FCWM9-10:50Beh-Rep.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Male/Subject WM9/1-FCWM9-1:50Beh-Rep.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Male/Subject WM9/4-FCWM9-16:50Beh-Rep.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Male/Subject WM6/1-FCWM6-1:50Beh-Rep.jpg

muscles not of size 9 or 11

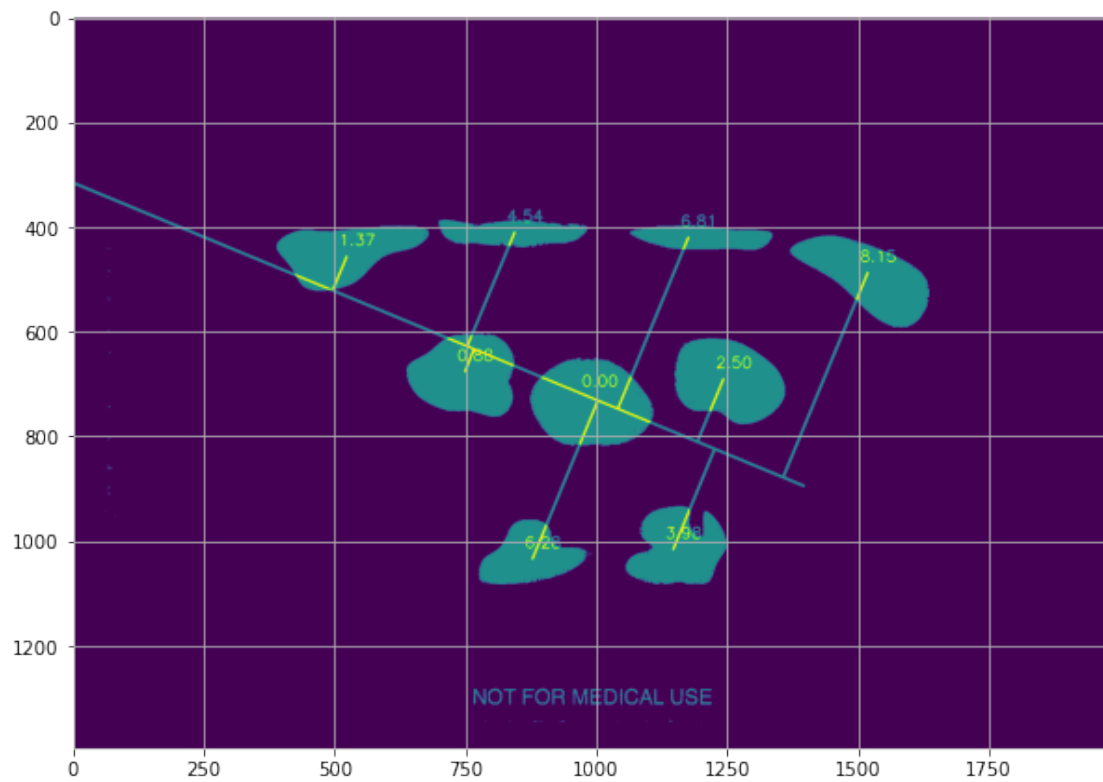
/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Male/Subject WM6/4-FCWM6-17:50Beh-Rep.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Male/Subject WM6/3-FCWM6-11:50Beh-Rep.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Male/Subject WM6/2-FCWM6-5:50Beh-Rep.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Male/Subject WM1/1-FCWM1-4:50Beh-Rep.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Male/Subject WM1/4-FCWM1-21:50Beh-Rep.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Male/Subject WM1/2-FCWM1-10:50Beh-Rep.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Male/Subject WM1/3-FCWM1-16:50Beh-Rep.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Male/Subject WM8/1-FCWM8-1:50Beh-Rep.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Male/Subject WM8/3-FCWM8-12:50Beh-Rep.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Male/Subject WM8/2-FCWM8-5:50Beh-Rep.jpg  
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/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Male/Subject WM3/1-FCWM3-3:50Beh-Rep.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Male/Subject WM3/2-FCWM3-9:50Beh-Rep.jpg  
/home/bzr0014/git/sesek2/mri\_analysis/4.Contiguous Set#2/Weight Lifting/Weight Lifting - Pre/Male/Subject WM3/4-FCWM3-22:50Beh-Rep.jpg



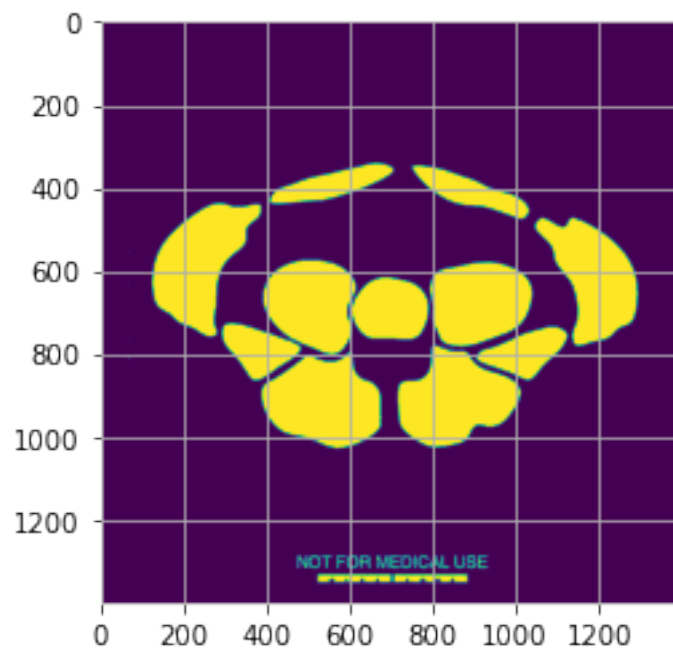
```
/home/bzr0014/git/sesek2/mri_analysis/4.Contiguous Set#2/Weight Lifting/Weight  
Lifting - Pre/Male/Subject WM3/3-FCWM3-16:50Beh-Rep.jpg  
/home/bzr0014/git/sesek2/mri_analysis/4.Contiguous Set#2/Weight Lifting/Weight  
Lifting - Pre/Male/Subject WM2/2-FCWM2-9:50Beh-Rep.jpg  
/home/bzr0014/git/sesek2/mri_analysis/4.Contiguous Set#2/Weight Lifting/Weight  
Lifting - Pre/Male/Subject WM2/3-FCWM2-14:50Beh-Rep.jpg  
/home/bzr0014/git/sesek2/mri_analysis/4.Contiguous Set#2/Weight Lifting/Weight  
Lifting - Pre/Male/Subject WM2/4-FCWM2-20:50Beh-Rep.jpg  
/home/bzr0014/git/sesek2/mri_analysis/4.Contiguous Set#2/Weight Lifting/Weight  
Lifting - Pre/Male/Subject WM2/1-FCWM2-3:50Beh-Rep.jpg
```



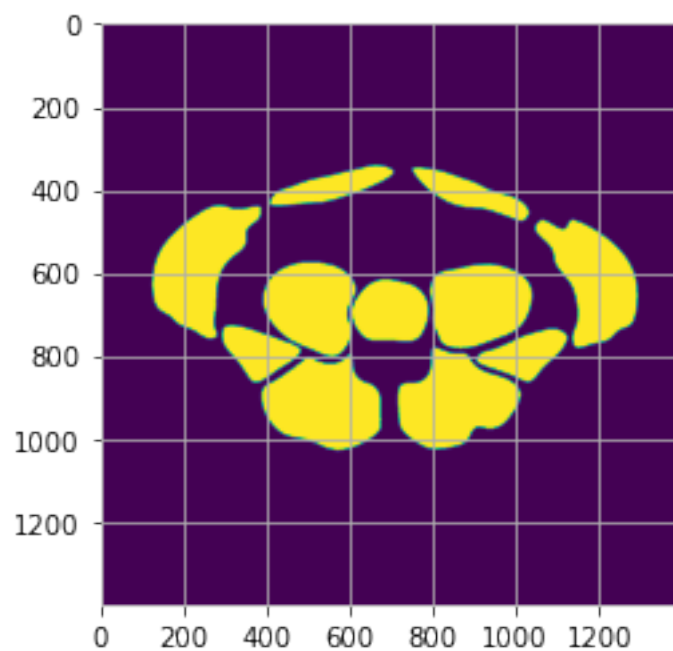
```
[240]: <matplotlib.image.AxesImage at 0x7fcf69861518>
```



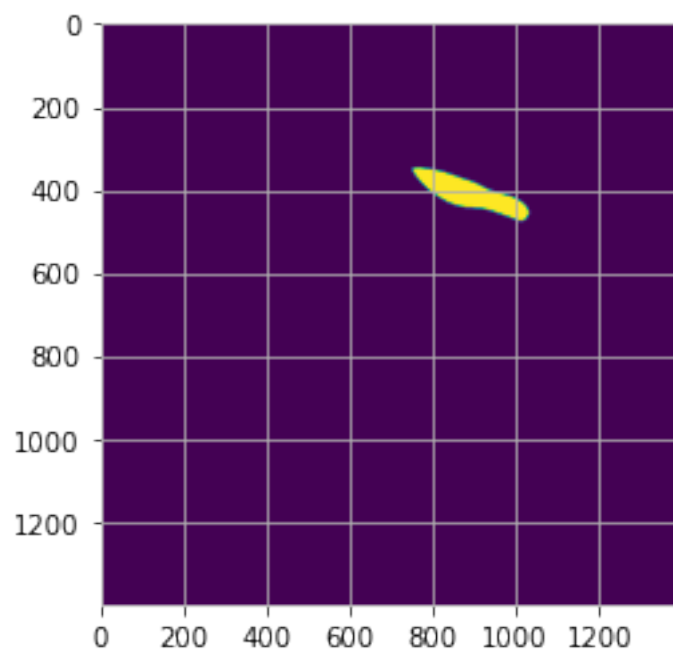
[69]: <matplotlib.image.AxesImage at 0x7fcf6d2f14e0>



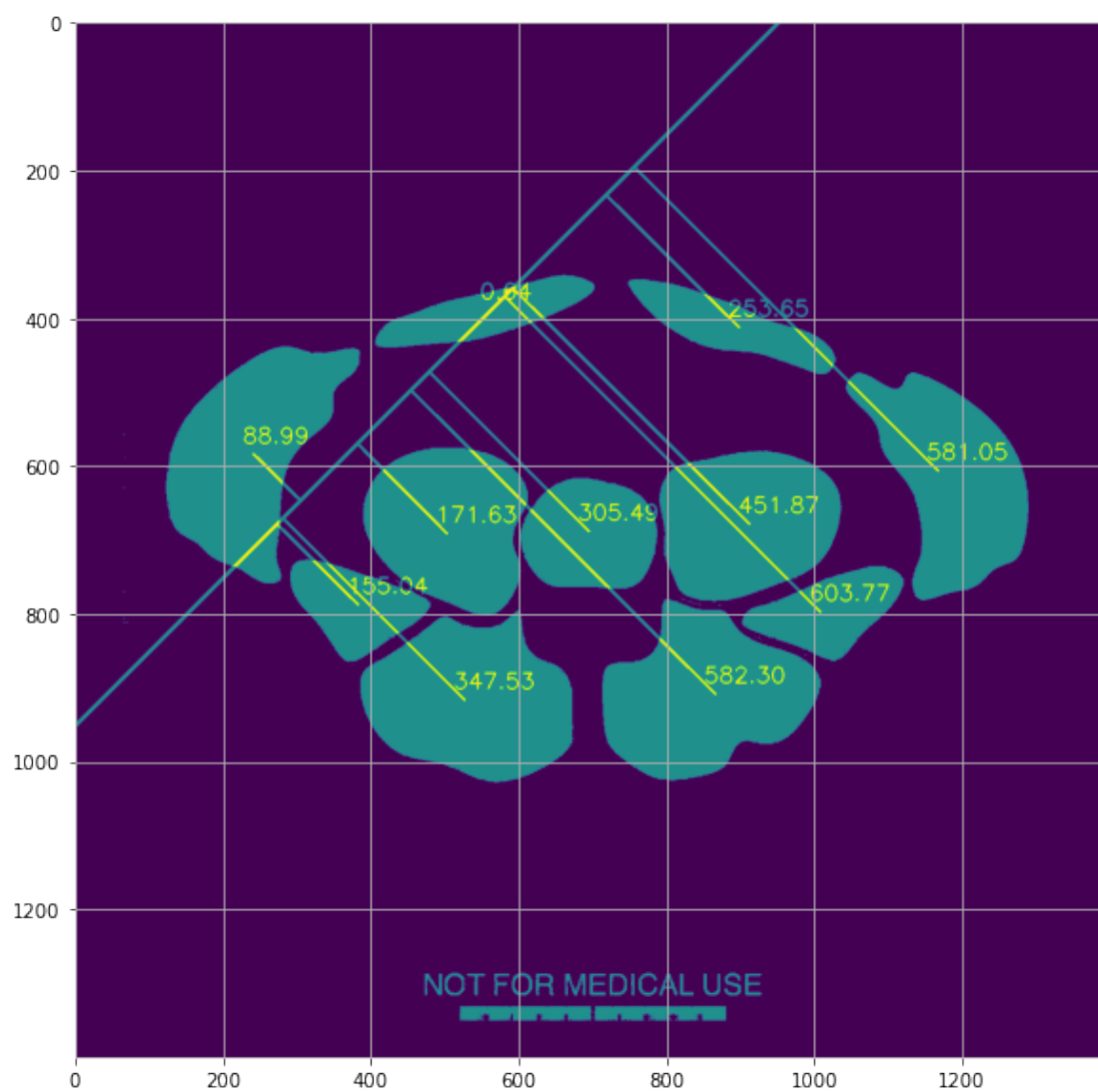
[70]: <matplotlib.image.AxesImage at 0x7fcf6d4cc860>

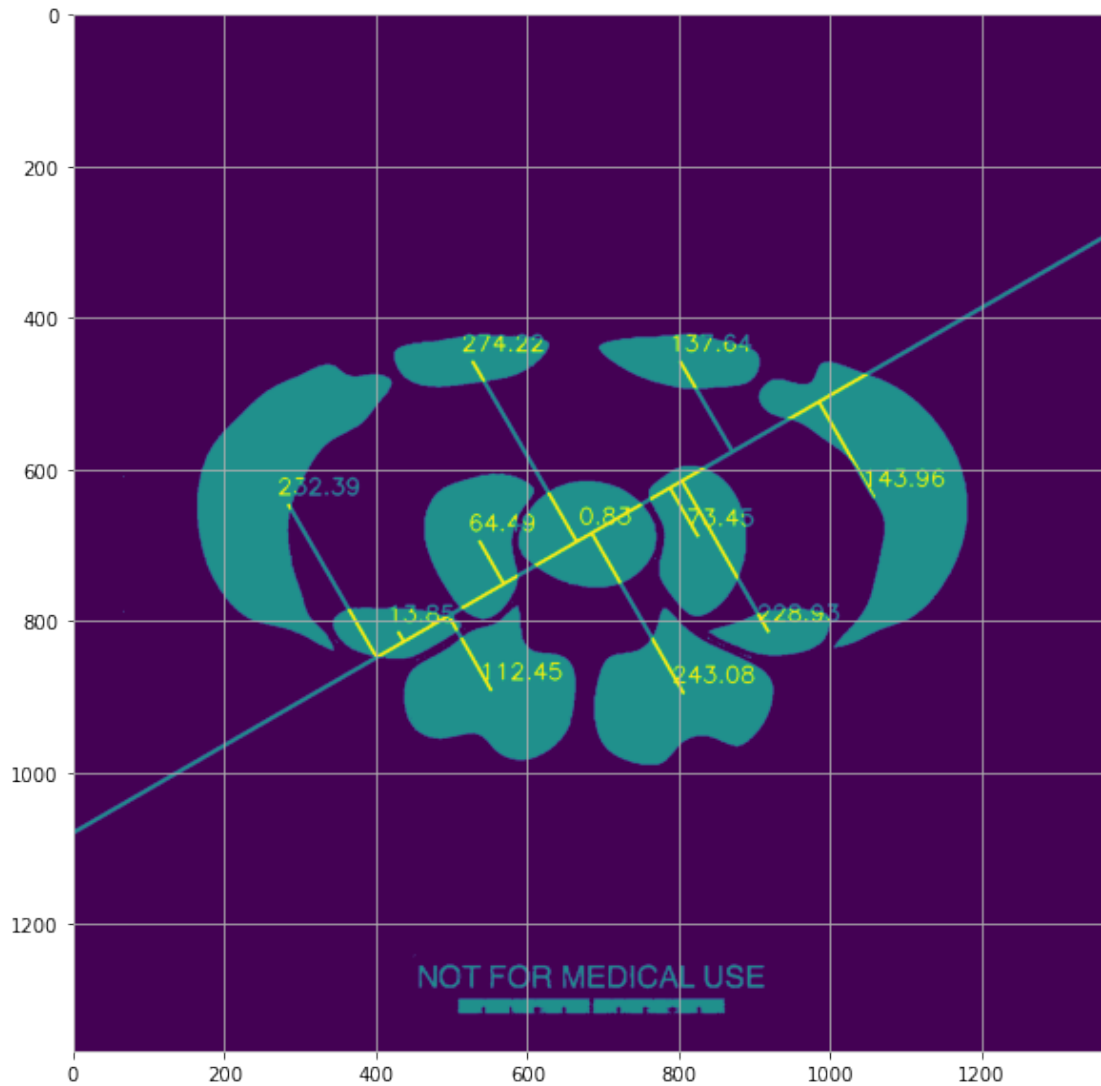


[72]: <matplotlib.image.AxesImage at 0x7fcf6d5bc7f0>



[74]: <matplotlib.image.AxesImage at 0x7fcf6c88f9e8>





The autoreload extension is already loaded. To reload it, use:

```
%reload_ext autoreload
```

```

↳
-----
UnpicklingError                                Traceback (most recent call↳
↳last)

~/.local/lib/python3.6/site-packages/pandas/io/pickle.py in
↳try_read(path, encoding)
    165         warnings.simplefilter("ignore", Warning)
--> 166         return read_wrapper(lambda f: pickle.load(f))

```

```

167         except Exception: # noqa: E722

~/.local/lib/python3.6/site-packages/pandas/io/pickle.py in
↳read_wrapper(func)
    147         try:
--> 148             return func(f)
    149         finally:

~/.local/lib/python3.6/site-packages/pandas/io/pickle.py in <lambda>(f)
    165         warnings.simplefilter("ignore", Warning)
--> 166         return read_wrapper(lambda f: pickle.load(f))
    167         except Exception: # noqa: E722

```

UnpicklingError: unpickling stack underflow

During handling of the above exception, another exception occurred:

```

IndexError                                Traceback (most recent call
↳last)

~/.local/lib/python3.6/site-packages/pandas/io/pickle.py in
↳try_read(path, encoding)
    172         return read_wrapper(
--> 173             lambda f: pickle.load(f, encoding=encoding,
↳compat=False))
    174         # compat pickle

~/.local/lib/python3.6/site-packages/pandas/io/pickle.py in
↳read_wrapper(func)
    147         try:
--> 148             return func(f)
    149         finally:

~/.local/lib/python3.6/site-packages/pandas/io/pickle.py in <lambda>(f)
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--> 173             lambda f: pickle.load(f, encoding=encoding,
↳compat=False))
    174         # compat pickle

```

```

~/.local/lib/python3.6/site-packages/pandas/compat/pickle_compat.py in
↳load(fh, encoding, compat, is_verbose)
    226
--> 227         return up.load()
    228     except (ValueError, TypeError):

```

```

~/miniconda3/envs/mri_project/lib/python3.6/pickle.py in load(self)
    1049         assert isinstance(key, bytes_types)
-> 1050         dispatch[key[0]](self)
    1051     except _Stop as stopinst:

```

```

~/miniconda3/envs/mri_project/lib/python3.6/pickle.py in load_pop(self)
    1404         else:
-> 1405             self.pop_mark()
    1406         dispatch[POP[0]] = load_pop

```

```

~/miniconda3/envs/mri_project/lib/python3.6/pickle.py in pop_mark(self)
    1056         items = self.stack
-> 1057         self.stack = self.metastack.pop()
    1058         self.append = self.stack.append

```

IndexError: pop from empty list

During handling of the above exception, another exception occurred:

```

IndexError                                Traceback (most recent call
↳last)

```

```

~/.local/lib/python3.6/site-packages/pandas/io/pickle.py in
↳read_pickle(path, compression)
    178     try:
--> 179         return try_read(path)
    180     except Exception: # noqa: E722

```

```

~/.local/lib/python3.6/site-packages/pandas/io/pickle.py in
↳try_read(path, encoding)
    176         return read_wrapper(
--> 177             lambda f: pc.load(f, encoding=encoding,
↳compat=True))
    178     try:

```

```

~/.local/lib/python3.6/site-packages/pandas/io/pickle.py in
↳ read_wrapper(func)
    147         try:
--> 148             return func(f)
    149         finally:

~/.local/lib/python3.6/site-packages/pandas/io/pickle.py in <lambda>(f)
    176         return read_wrapper(
--> 177             lambda f: pc.load(f, encoding=encoding,
↳ compat=True))
    178         try:

~/.local/lib/python3.6/site-packages/pandas/compat/pickle_compat.py in
↳ load(fh, encoding, compat, is_verbose)
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--> 227         return up.load()
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   1058         self.append = self.stack.append

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IndexError: pop from empty list

During handling of the above exception, another exception occurred:



```
UnpicklingError                                Traceback (most recent call
↳last)
```

```
~/.local/lib/python3.6/site-packages/pandas/io/pickle.py in
↳try_read(path, encoding)
    165         warnings.simplefilter("ignore", Warning)
--> 166         return read_wrapper(lambda f: pkl.load(f))
    167     except Exception: # noqa: E722
```

```
~/.local/lib/python3.6/site-packages/pandas/io/pickle.py in
↳read_wrapper(func)
    147     try:
--> 148         return func(f)
    149     finally:
```

```
~/.local/lib/python3.6/site-packages/pandas/io/pickle.py in <lambda>(f)
    165         warnings.simplefilter("ignore", Warning)
--> 166         return read_wrapper(lambda f: pkl.load(f))
    167     except Exception: # noqa: E722
```

UnpicklingError: unpickling stack underflow

During handling of the above exception, another exception occurred:

```
IndexError                                    Traceback (most recent call
↳last)
```

```
~/.local/lib/python3.6/site-packages/pandas/io/pickle.py in
↳try_read(path, encoding)
    172         return read_wrapper(
--> 173             lambda f: pc.load(f, encoding=encoding,
↳compat=False))
    174         # compat pickle
```

```
~/.local/lib/python3.6/site-packages/pandas/io/pickle.py in
↳read_wrapper(func)
    147     try:
--> 148         return func(f)
    149     finally:
```

```

~/.local/lib/python3.6/site-packages/pandas/io/pickle.py in <lambda>(f)
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--> 173                 lambda f: pc.load(f, encoding=encoding,
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174             # compat pickle

```

```

~/.local/lib/python3.6/site-packages/pandas/compat/pickle_compat.py in
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226
--> 227         return up.load()
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```

```

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-> 1050         dispatch[key[0]](self)
1051     except _Stop as stopinst:

```

```

~/miniconda3/envs/mri_project/lib/python3.6/pickle.py in load_pop(self)
1404         else:
-> 1405             self.pop_mark()
1406         dispatch[POP[0]] = load_pop

```

```

~/miniconda3/envs/mri_project/lib/python3.6/pickle.py in pop_mark(self)
1056         items = self.stack
-> 1057         self.stack = self.metastack.pop()
1058         self.append = self.stack.append

```

IndexError: pop from empty list

During handling of the above exception, another exception occurred:

```

IndexError                                Traceback (most recent call
↳ last)

```

```

<ipython-input-259-ea6a6833b0ee> in <module>
1 import pandas as pd
----> 2 pd.read_pickle("../data/centroid_diff.pd")

```

```

~/.local/lib/python3.6/site-packages/pandas/io/pickle.py in
↳ read_pickle(path, compression)
    180     except Exception: # noqa: E722
    181         if PY3:
--> 182             return try_read(path, encoding='latin1')
    183         raise
    184

~/.local/lib/python3.6/site-packages/pandas/io/pickle.py in
↳ try_read(path, encoding)
    175     except Exception: # noqa: E722
    176         return read_wrapper(
--> 177             lambda f: pc.load(f, encoding=encoding,
↳ compat=True))
    178     try:
    179         return try_read(path)

~/.local/lib/python3.6/site-packages/pandas/io/pickle.py in
↳ read_wrapper(func)
    146             is_text=False)
    147     try:
--> 148         return func(f)
    149     finally:
    150         for _f in fh:

~/.local/lib/python3.6/site-packages/pandas/io/pickle.py in <lambda>(f)
    175     except Exception: # noqa: E722
    176         return read_wrapper(
--> 177             lambda f: pc.load(f, encoding=encoding,
↳ compat=True))
    178     try:
    179         return try_read(path)

~/.local/lib/python3.6/site-packages/pandas/compat/pickle_compat.py in
↳ load(fh, encoding, compat, is_verbose)
    225         up.is_verbose = is_verbose
    226
--> 227         return up.load()
    228     except (ValueError, TypeError):
    229         raise

~/miniconda3/envs/mri_project/lib/python3.6/pickle.py in load(self)

```

```

1048             raise EOFError
1049             assert isinstance(key, bytes_types)
-> 1050             dispatch[key[0]](self)
1051         except _Stop as stopinst:
1052             return stopinst.value

~/miniconda3/envs/mri_project/lib/python3.6/pickle.py in load_pop(self)
1403         del self.stack[-1]
1404     else:
-> 1405         self.pop_mark()
1406     dispatch[POP[0]] = load_pop
1407

~/miniconda3/envs/mri_project/lib/python3.6/pickle.py in pop_mark(self)
1055     def pop_mark(self):
1056         items = self.stack
-> 1057         self.stack = self.metastack.pop()
1058         self.append = self.stack.append
1059         return items

```

IndexError: pop from empty list