```
R version 3.4.2 (2017-09-28) -- "Short Summer"
Copyright (C) 2017 The R Foundation for Statistical Computing
Platform: x86_64-apple-darwin15.6.0 (64-bit)

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  Natural language support but running in an English locale

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Type 'q()' to quit R.

[R.app GUI 1.70 (7434) x86_64-apple-darwin15.6.0]

[Workspace restored from /Users/paulpartyka/.RData]
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> invivo_flow_axon=c(37.21644,
+ 33.02387,
+ 27.8241,
+ 23.83874,
+ 19.61209,
+ 18.85316,
+ 11.41584,
+ 11.15466,
+ 9.88141,
+ 9.14164,
+ 4.48461,
+ 4.12759,
+ 3.11084,
+ 0,
+ 0,
+ 1.59114,
+ 2.77022,
+ 4.01418,
+ 4.8739,
+ 7.6668,
+ 8.1301,
+ 8.55556,
+ 14.42077,
+ 19.62226,
+ 22.29363,
```

```
+ 36.93876,
+ 38.11828,
+ 39.38242,
+ 43.2643,
+ 44.29268);
> in_vivo_static_axon=c(18.43495,
+ 35.78897,
+ 37.79394,
+ 59.53446,
+ 60.75117,
+ 89.1186,
+ 41.2686,
+ 78.69007,
+ 81.8699,
+ 58.57043,
+ 31.13897,
+ 45,
+ 86.82017,
+ 57.72436,
+ 41.18593,
+ 26.56505,
+ 81.8699,
+ 0,
+ 61.38954,
+ 28.07249,
+ 33.11134,
+ 50.90614,
+ 57.99462,
+ 21.25051,
+ 23.62938,
+ 19.13364,
+ 21.16126,
+ 47.29061,
+ 39.98689,
+ 81.25384);
> t.test(in_vivo_flow_axon,in_vivo_static_axon)
Error in t.test(in_vivo_flow_axon, in_vivo_static_axon) :
  object 'in_vivo_flow_axon' not found
> t.test(invivo_flow_axon,in_vivo_static_axon)

    Welch Two Sample t-test

data:  invivo_flow_axon and in_vivo_static_axon
t = -6.0087, df = 47.766, p-value = 2.472e-07
alternative hypothesis: true difference in means is not equal to 0
95 percent confidence interval:
 -40.38174 -20.13065
sample estimates:
mean of x mean of y
```

```
 16.98733  47.24352

> flow_vessel=c(45.90938,
+ 14.18429,
+ 14.12792,
+ 12.69958,
+ 12.45,
+ 10.70401,
+ 9.94429,
+ 7.12502,
+ 5.23748,
+ 3.49464,
+ 1.28733,
+ 2.15296,
+ 2.31372,
+ 3.81407,
+ 5.77433,
+ 6.24837,
+ 7.37377,
+ 7.76517,
+ 8.65872,
+ 9.40634,
+ 11.30993,
+ 14.24561,
+ 14.26451,
+ 15.11347,
+ 15.56151,
+ 16.32096,
+ 21.50143,
+ 21.67465,
+ 26.56505,
+ 32.64464);
> static_vessel=c(4.26789,
+ 37.77568,
+ 41.46771,
+ 61.07357,
+ 68.83874,
+ 37.13092,
+ 14.42077,
+ 15.42216,
+ 60.25512,
+ 40.46223,
+ 41.78452,
+ 55.71312,
+ 42.51045,
+ 48.81407,
+ 76.2729,
+ 77.074,
+ 69.67686,
```

```
+ 41.46771,
+ 43.61128,
+ 64.59228,
+ 62.44719,
+ 75.83783,
+ 67.54306,
+ 50.09212,
+ 61.049,
+ 80.04937,
+ 69.56717,
+ 80.53768,
+ 76.67547,
+ 74.0546);
> t.test(flow_vessel,static_vessel)

    Welch Two Sample t-test

data:  flow_vessel and static_vessel
t = -10.229, df = 41.285, p-value = 6.941e-13
alternative hypothesis: true difference in means is not equal to 0
95 percent confidence interval:
 -50.31503 -33.72579
sample estimates:
mean of x mean of y
 12.66244  54.68285

>
```