R: A Hitchhikers Guide to Reproducible Research

- Complicated

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One sample t.test as an initial example

- While the input data to models needs to be tidy, unfortunately the models outputs are less than neat

```
> x <- c(2, 5, 5, 7, 8, 10, 14, 15, 23, 34) \leftarrow Input data
> t.test(x, mu = 5) ←
                                          Function call
       One Sample t-test
data: x
t = 2.3614, df = 9, p-value = 0.0425
alternative hypothesis: true mean is not equal to 5
95 percent confidence interval:
                                                    Output
  5.306799 19.293201
sample estimates:
mean of x
     12.3
```

Broom package tidies up the output

- The broom package will take the outputs of your test and place them in an easy to access table

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	estimatē	statistic [‡]	p.value [‡]	parameter	conf.low	conf.high	method	alternative
1	12.3	2.3614	0.04250372	9	5.306799	19.2932	One Sample t-test	two.sided

Walkthrough

- 03_linear_models
- 04_practice_worksheet

Where to go from here?

- Understanding basic statistical concepts www.khanacademy.org
- Collection of YouTube videos describing statistics through R http://rafalab.github.io/pages/harvardx.html
- You know what you want to do, but don't know how to do it https://stats.stackexchange.com/

Structured training.....





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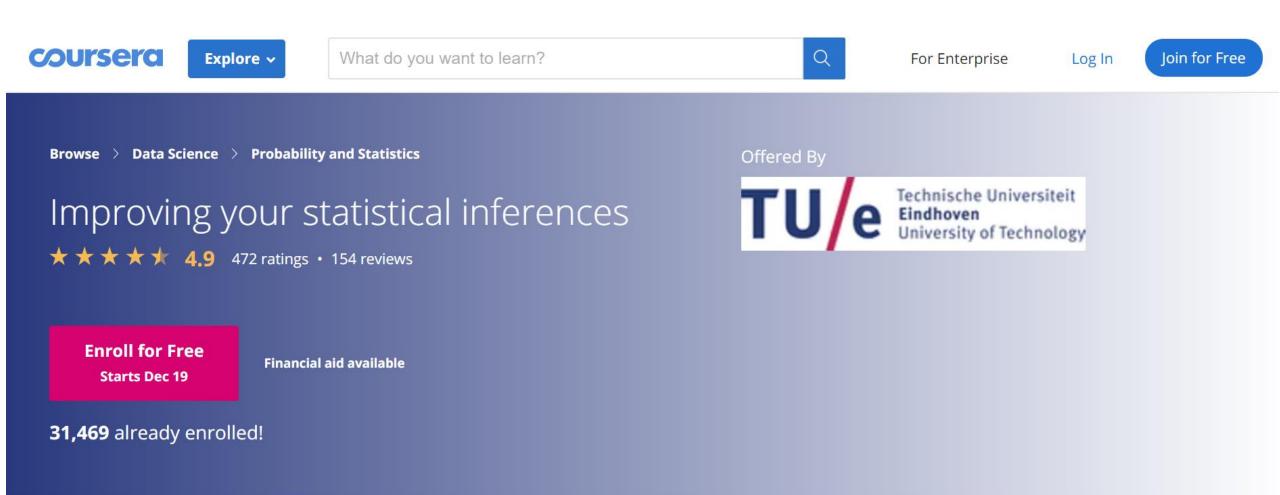
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Where to go from here?



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