



DATA

Martin Lopatka
mlopatka@mozilla.com
Data Scientist/Applied Statistician

moz://a

Telemetry

Firefox Telemetry (optionally) measures and collects non-personal, performance and usage information.¹

¹<https://wiki.mozilla.org/Telemetry>

Telemetry-Aware Add-on Recommender



moz://a

Differential Privacy

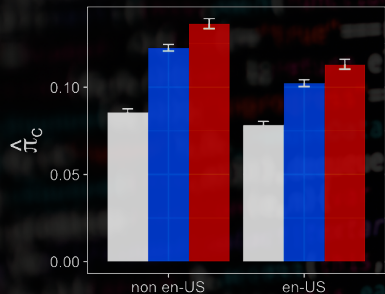
- ▶ Differentially private release mechanism for frequencies reports an approximate answer to an **item:count** distribution.
- ▶ Noise must be chosen to preserve the usefulness of the provided answer while protecting the privacy of the more rare counts

Introduction to DP: <https://robertovitillo.com/2016/07/29/differential-privacy-for-dummies/>

Log Likelihood Ratio Cost (cLLR)

```
'zh-CN': [('guid_01', 0.75), ..., ('guid_02', 0.05)],  
'fr-FR': [('guid_03', 0.24), ..., ('guid_04', 0.01)],  
...,  
'en-US': [('guid_04', 0.18), ..., ('guid_05', 0.02)]  
include boxplots vs other metrics.
```

Performance



Acknowledgements

Victor Ng

Ben Miroglio

David Zeber

Alessio Placitelli

Laura Thomson

Fredrik Wollsén

Jason Thomas

Stuart Colville

Shell Escalante

Scott Devaney

AMO team

InfoSec

QA team

Florian Hartmann

Roberto Vitillo

moz://a