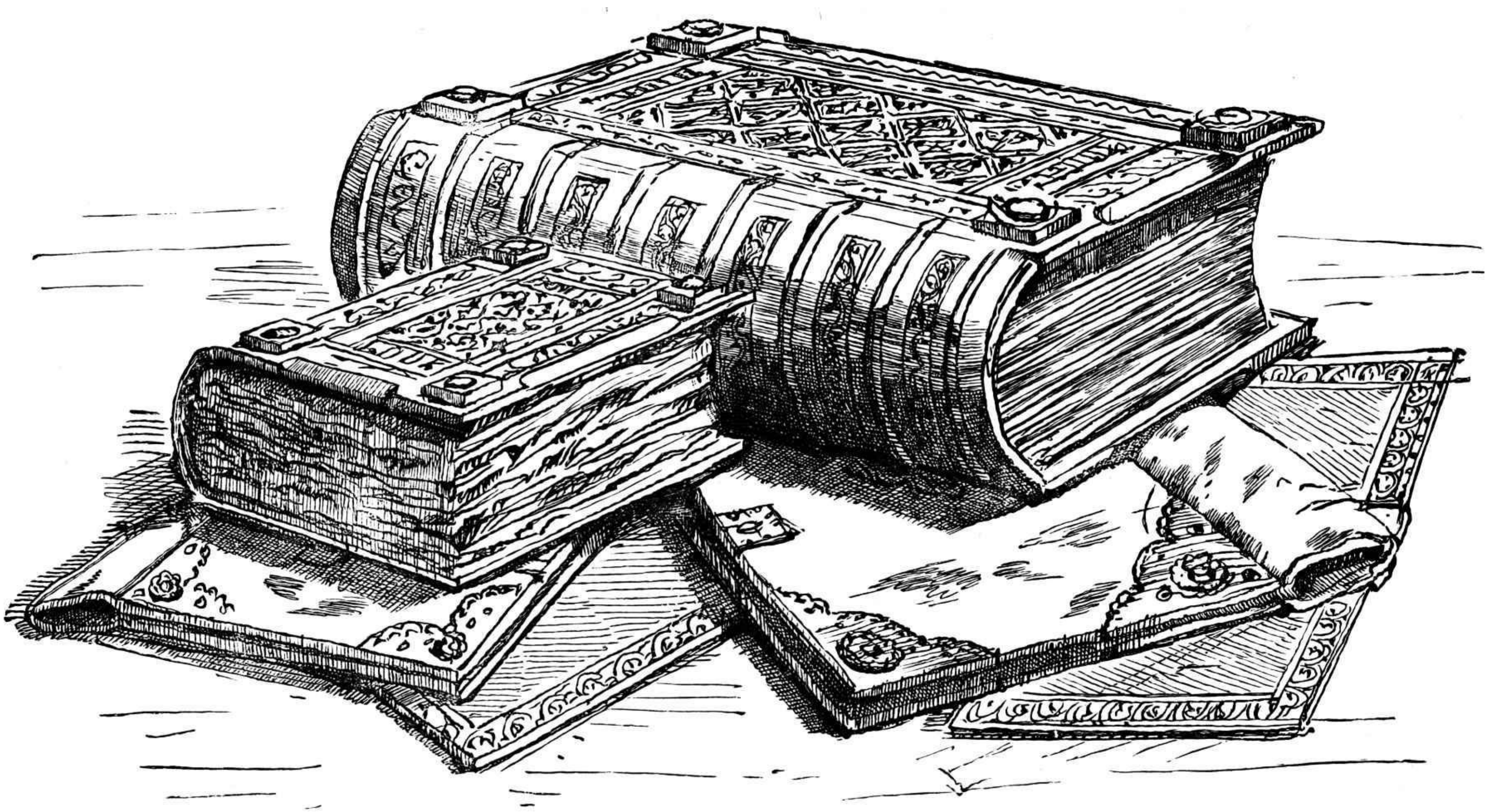
Digital Preservation for Machine-Scale Access and Analysis

Lisa Green

Digital Preservation 2013
24 July 2013

#digpres13



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Bundesarchiv, B 145 Bild-F031434-0006
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Natural Language Processing

Sentiment Analysis

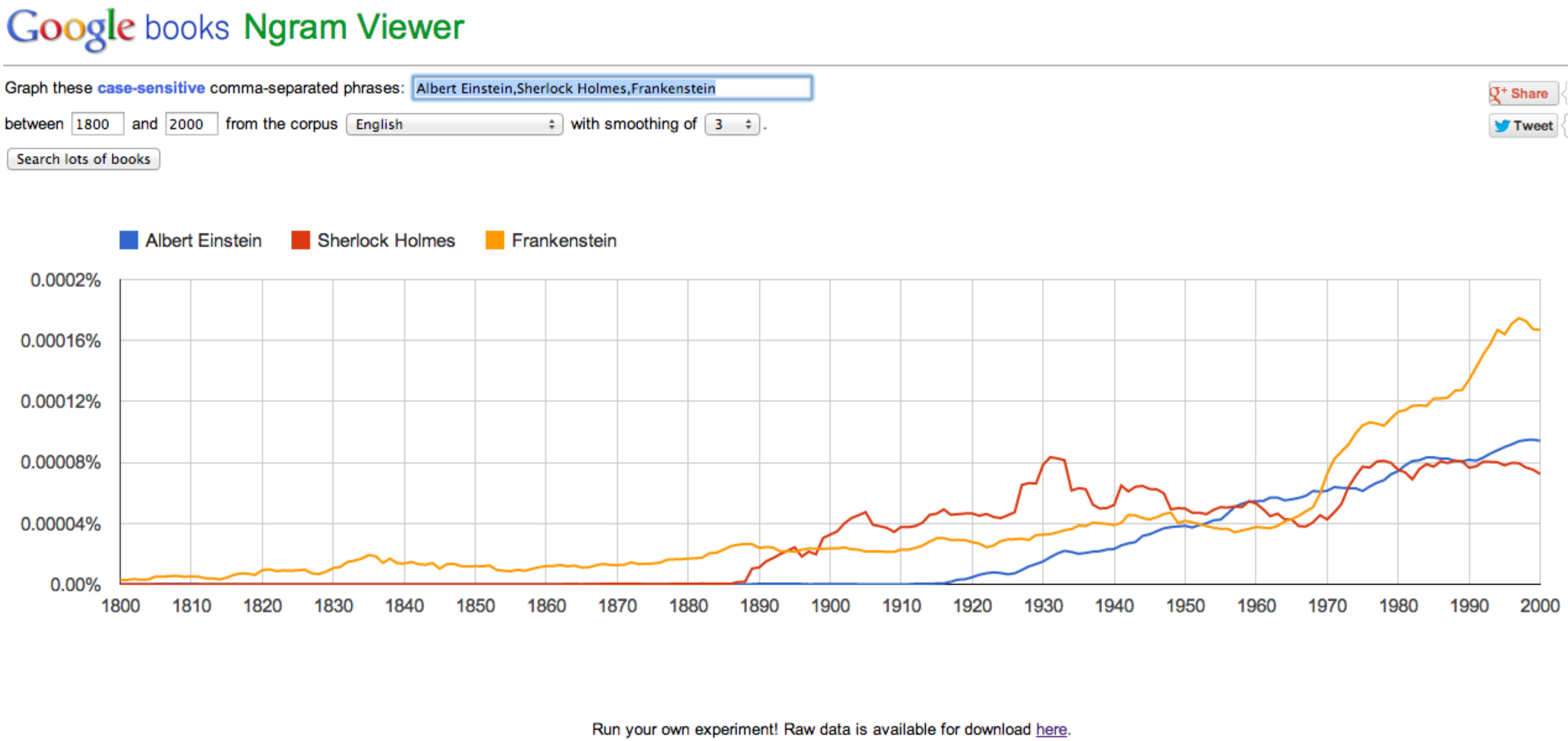
Cluster Analysis

Algorithms

Machine Learning

Artificial Neural Networks

Statistics

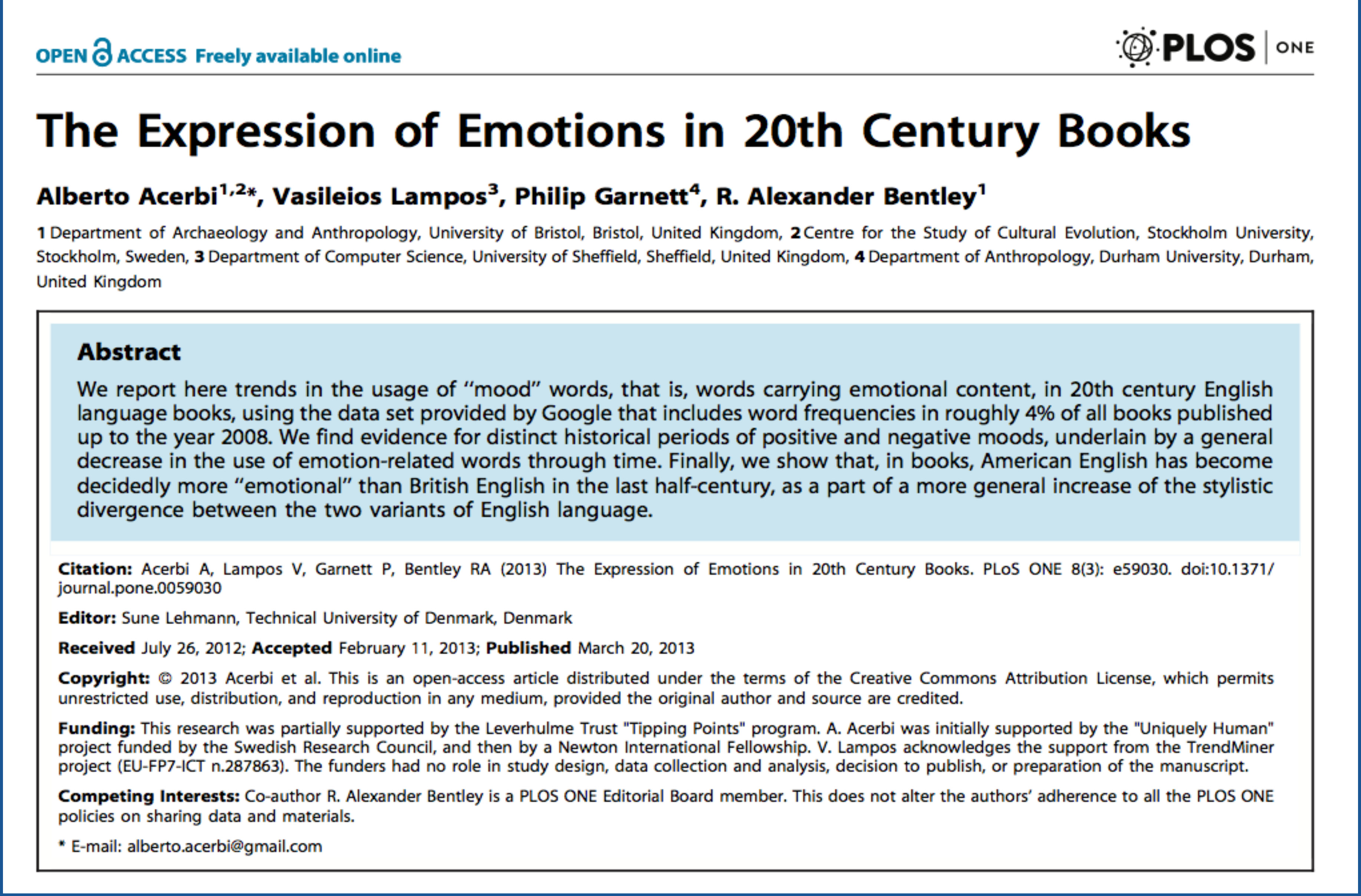


Google books Ngram Viewer

Graph these case-sensitive comma-separated phrases: Albert Einstein,Sherlock Holmes,Frankenstein

between 1800 and 2000 from the corpus English with smoothing of 3 .

Run your own experiment! Raw data is available for download here.



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The Expression of Emotions in 20th Century Books

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Abstract

We report here trends in the usage of "mood" words, that is, words carrying emotional content, in 20th century English language books, using the data set provided by Google that includes word frequencies in roughly 4% of all books published up to the year 2008. We find evidence for distinct historical periods of positive and negative moods, underlain by a general decrease in the use of emotion-related words through time. Finally, we show that, in books, American English has become decidedly more "emotional" than British English in the last half-century, as a part of a more general increase of the stylistic divergence between the two variants of English language.

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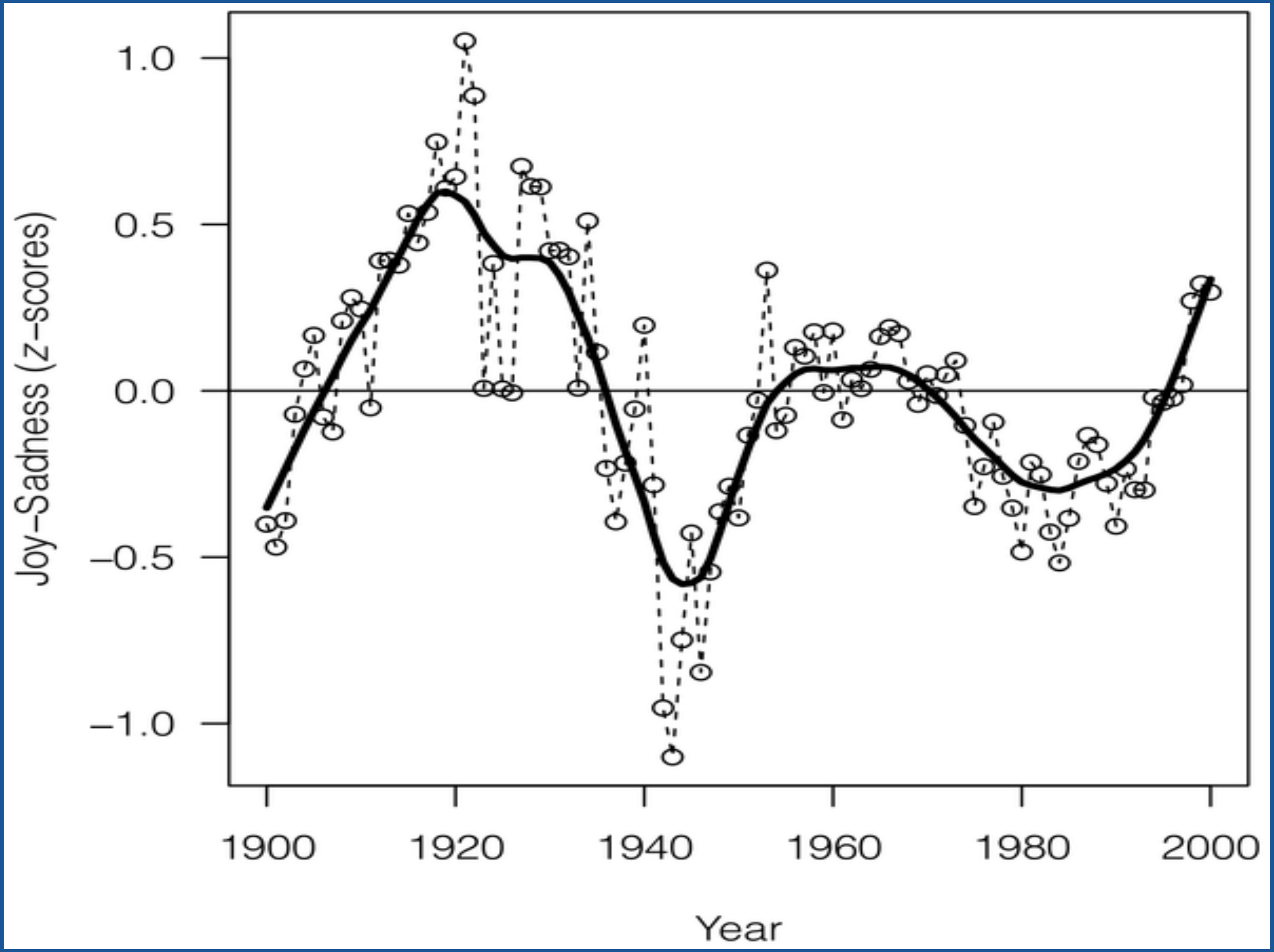
Figure 1. Historical periods of positive and negative moods.



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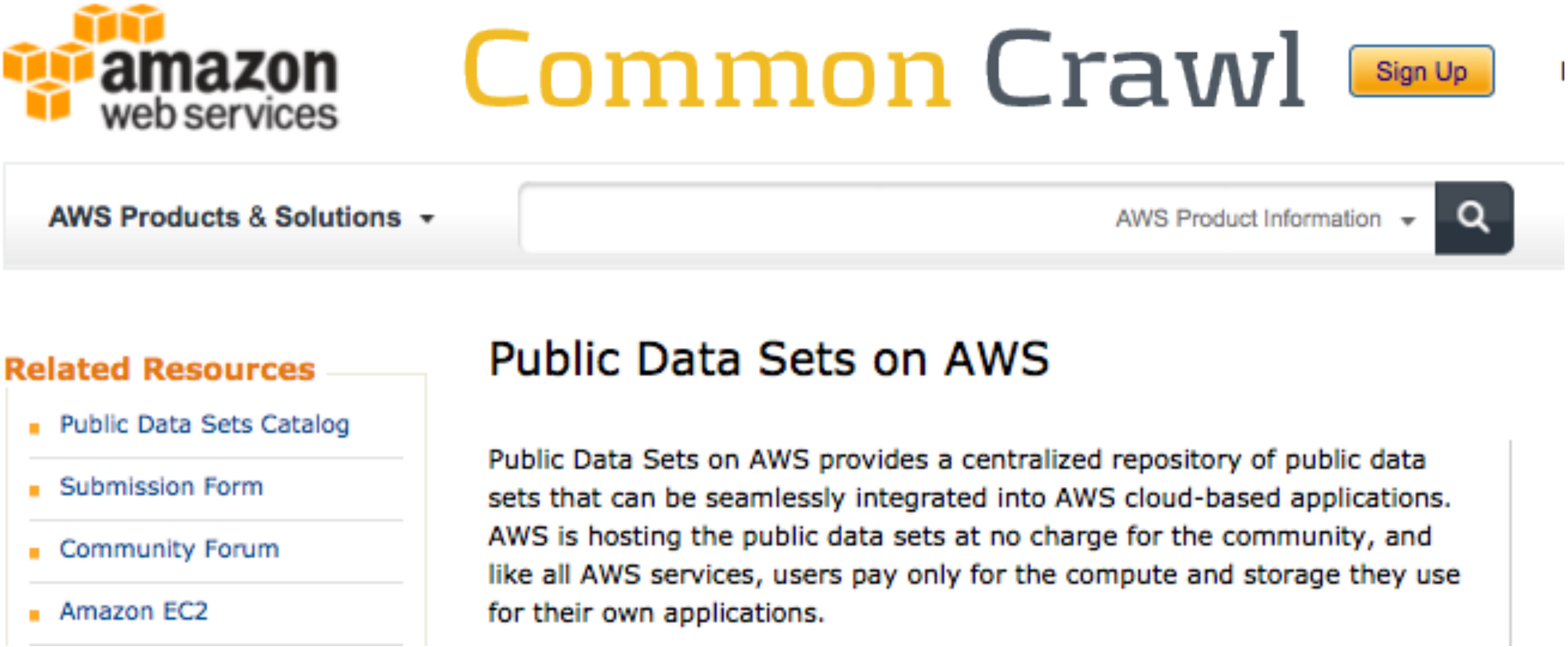
Common Crawl



Public Data Sets on AWS

Public Data Sets on AWS provides a centralized repository of public data sets that can be seamlessly integrated into AWS cloud-based applications. AWS is hosting the public data sets at no charge for the community, and like all AWS services, users pay only for the compute and storage they use for their own applications.

Common Crawl

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We must enable machine-scale access and analysis.

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Thank you!

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