SPOT

Interactive visual data analytics tool

Jisk Attema, Faruk Diblen

netherlands
eScience center

by SURF & NWO

What can you SPOT ?

What SPOT can do for you

- Visualize and interact with high dimensional data using a variety of linked charts
- Drag and drop, no need for any programming
- Load your own data, or connect to a database
- Store and share your sessions

Programming languages

- JavaScript
- HTML

Open source license

- Apache-2.0

Active development

- First commit in 2015/05
- Close to 1.0 release

How to compare and share high dimensional datasets?

A description of the Galactic Center excess in the Minimal Supersymmetric Standard Model

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hep-ph] 31 Mar 2015

ABSTRACT. Observations with the Fermi Large Area Telescope (LAT) indicate an

Implications of the Fermi-LAT Pass 8 Galactic Center Excess on Supersymmetric Dark Matter

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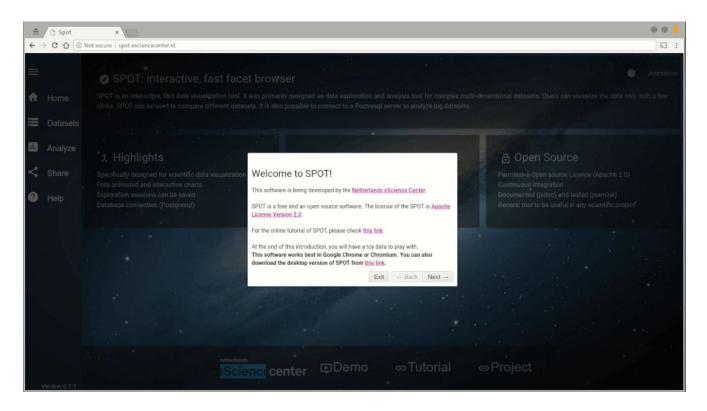[d] Instituto de Física Corpuscular, IFIC-UV/CSIC, Valencia, Spain

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v2 [hep-ph] 10 Jan 2018

Abstract. The Fermi Collaboration has recently updated their analysis of gamma rays from the center of the Galaxy. They reconfirm the presence of an unexplained emission feature which is most prominent in the region of $1 - 10$ GeV, known as the Galactic Center GeV
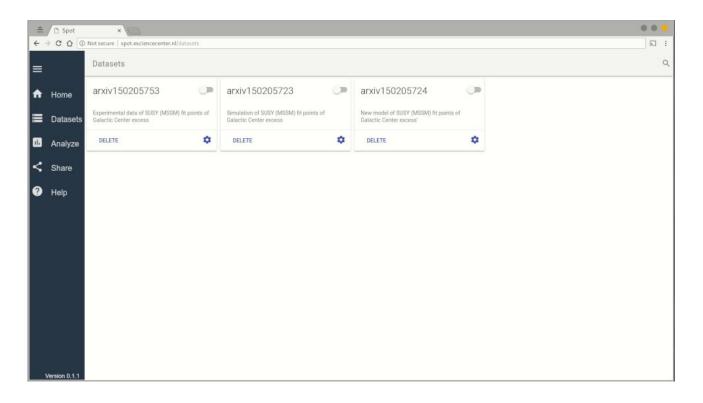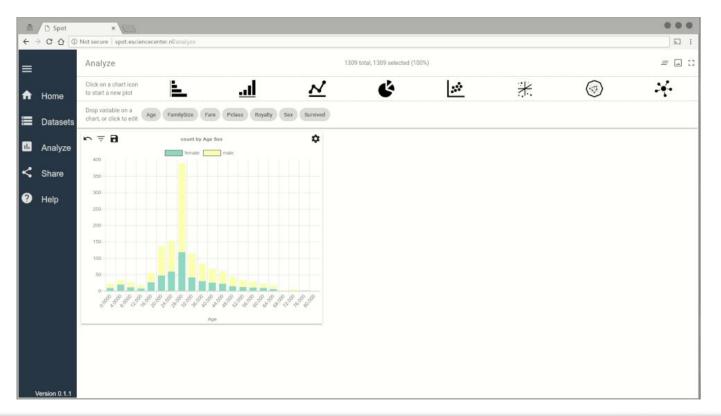
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SPOT - first visit

SPOT - datasets

SPOT - create dashboard

SPOT - add more plots

SPOT - explore

SPOT - share

Getting started (tutorial, manual):

https://nlesc.github.io/spot-tutorial/tutorial

Developers (code & docs):

https://github.com/NLeSC/spot

Publications:

Scientific publication (iDARK, **in preparation**)

eScience publication (**to be submitted soon**)

Software DOI: 10.5281/zenodo.1003345

Presentations, Blogpost, more see the RSD:

https://research-software.nl/software/spot

Projects:

AA-ALERT

http://frbcat.org

Joeri van Leeuwen - ASTRON

Fast radio burst archive

iDARK

http://idarksurvey.com

Sascha Caron - Radboud University Nijmegen

The search for dark matter

Demo

http://spot.esciencecenter.nl

Titanic survival dataset

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SPOT - finetune charts