Implement scipy.diff (numerical differentiation)

Status: Final Proposal Submitted   **Organization:** Python Software Foundation

You have officially submitted a GSoC 2017 application

If this proposal is accepted, you will be able to edit the title and the abstract of your proposal after May 4, 2017.

Draft

https://github.com/YizhengZHAO/scipy/wiki/GSoC-2017-:-Implement-scipy.diff-(numerical-differentiation)

Proposal Details

Title: Implement scipy.diff (numerical differentiation)

Category: scipy

Abstract:

Project Info

Proposal Title

Implement scipy.diff (numerical differentiation)

Deliverables

At the end of this project, the scipy will be enhanced with following:

- A sub-package under scipy.diff from numdifftools code and some of code from statsmodels

Description

In numerical analysis, numerical differentiation describes algorithms for estimating the derivative of a mathematical function or function subroutine using values of the function and perhaps other knowledge about the function.
The general problem of differentiation of a function typically pops up in three ways in Python.

- The symbolic derivative of a function

- Compute numerical derivatives of a function defined only by a sequence of data points

- Compute numerical derivatives of a analytically supplied function

Draft Shared

Python Software Foundation may get back to you with comments to help you improve your draft if you have submitted it early enough before the deadline. You may also contact the organization to request feedback.

To be considered for GSoC you must submit a Final Proposal (step 4) **before** the deadline, even if you don't receive any draft feedback.

Submit Your Final Proposal

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