

# Welcome to Hama project

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## 1. Overview

**Hama** is a distributed computing framework based on BSP (Bulk Synchronous Parallel) computing techniques for massive scientific computations, such as Google's Pregel, Currently being incubated as one of the incubator project by the Apache Software Foundation.

## 2. Getting Started

Start by installing Hama on a Hadoop cluster.

- [Learn about](#) Hama by reading the documentation.
- [Download](#) Hama from the release page.

## 3. Getting Involved

Hama is an open source volunteer project under the Apache Software Foundation. We encourage you to learn about the project and contribute your expertise. Here are some starter links:

- See our [How to Contribute to Hama](#) page
- [Jira usage guidelines](#)

## 4. Recent News

### 4.1. July 28, 2011: release 0.3.0 available

- Added LocalBSPRunner
- Added web UI for BSP cluster and job monitoring
- Added more practical examples e.g., Shortest Path Problem, PageRank
- Performance has improved by more than 25% with BSPMessageBundle
- Switched from Ant to Maven

### 4.2. June 2, 2011: release 0.2.0 available

- BSP computing framework and its examples
  - Pi Estimator and Serialize Printing
- CLI-based managing and monitoring tool of BSP job

### 4.3. Apr 30, 2010: Introduced BSP Worldwide

*Welcome to Hama project*

We're introduced in the [BSP Worldwide](#).

#### **4.4. May 20, 2008: Accept Hama to be a Apache incubator project**

The Incubator PMC have voted to accept Hama to be a Apache incubator project.