Alpha Presentation
Splitting the Atom. Again.

The Capstone Experience
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Project Overview

• Working to harden Firefox against Spectre/Meltdown style bugs
• Fission gives content in different frames their own processes
• Our completed work will be integrated into the release version of Firefox
System Architecture

Firefox

Browser Code

Rendering Engine

Parent Process

Child Processes

Webpage

HTML
CSS
JS
JS
Pre-fission Process Separation
Post-Fission Process Separation
Example: Forbes.com

Stockholm's Vasa Museum is built around a renowned 17th century warship that was literally dredged up from the depths of the city's harbor, where it rested for more than 300 years since sinking on its maiden voyage.

By: Trent Cottley  Contributor

See Also

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By: Cecilia Rodriguez  Contributor

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Atlanta-based Delta Air Lines and Bethesda-based Marriott International have been voted as the top airline and hotel chain respectively for business travelers in North America.

By: Grant Martin  Contributor

The Best Places To Eat In Vail & Beaver Creek

Vail and Beaver Creek are among the reasons why it's the most-visited ski destination.
Example: Forbes.com
Forbes.com without Fission

![Image of Firefox Task Manager with energy impact and memory usage for various tabs and content blocks.](image-url)
Forbes.com with Fission
What’s left to do?

• Two team members working on second bugs
• Rest of team working on testing their bugs
• Continue to work towards resolving multiple bugs each
• Examples:
  ▪ "about:studies" page
  ▪ Pop-up blocking
  ▪ Firefox "UI Tour" feature
Questions?