From Students…
…to Professionals

Beta Presentation
Splitting the Atom. Again.
The Capstone Experience
Team Mozilla

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Project Overview

• Working to harden Firefox against Spectre and 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

HTML
CSS
JS

Rendering Engine

Parent Process
Child Processes

Webpage
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 Tenn Cotty  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.

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The Best Places To Eat In Vail & Beaver Creek

Vail and Beaver Creek are two of the most-visited ski resorts in the U.S.
Example: Forbes.com

Stockholm's Vasa Museum is built around a recovered 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.

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The Best Places To Eat In Vail & Beaver Creek

Vail is billed as the Winter Olympics of ski resorts; another reason to think of it as more than just another ski destination.
Forbes.com without Fission
Forbes.com with Fission

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Team Mozilla Beta Presentation
What’s left to do?

• Our team will continue to work on new bugs as Mozilla assigns them
• Fission is on a good track to be completed within a year or so, to be put up for Firefox beta users by early next year
• Full release to be in 2021
• For the rest of the semester, we will continue work on bugs assigned by Mozilla
Questions?