MICHIGAN STATE UNIVERSITY **Alpha Presentation Dark Theme Darkening The Capstone Experience** Team Mozilla

Vivek Dhingra Zhengyi Lian Connor Masini Bogdan Pozderca Dyl Stokes

Department of Computer Science and Engineering Michigan State University Spring 2018

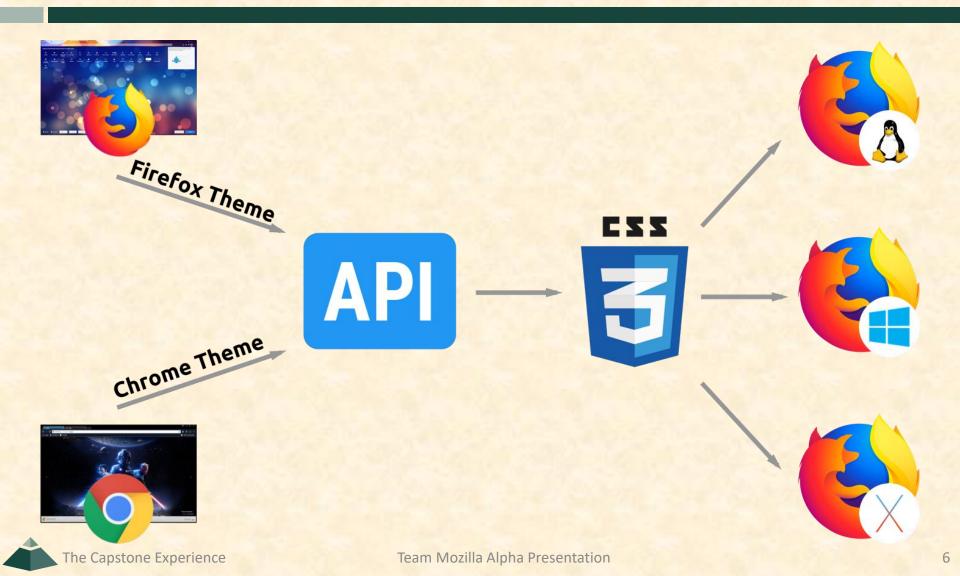


From Students... ...to Professionals

Project Overview

- Expand Firefox theming API to cover more of the browser
- Add compatibility for Google Chrome theme properties in Firefox
- Update default Firefox Dark Theme to reflect changes

System Architecture



Auto-Complete Styling

•••	Debuggi	ng with Firefox Developer ⊺	× G spartans - Goog	jle Search X 🕂		R						
← → G	ወ	<u>२</u> ।			\rightarrow	II\						
		Q — Search	with Google									
		G spartans -	Google Search — http	os://www.google.com/search?q	=spartans&ie=utf-8&c							
	imichigan state - Google Search — https://www.google.com/search?q=michigan+stat											
	S rust - Google Search — https://www.google.com/search?q=rust&ie=utf-8&oe=utf-8											
	G Google — https://www.google.com											
				ch — https://www.google.con								
		The new, f	ast browser for Mac, F	PC and Linux Firefox — htt	tps://www.mozilla.org/							
Search for with:	Þ	a 👔 💼	> W			*						
		2 MI State	96 ≺ Tue, 2/6 93	9 Purdue2 MI State	65 Final Sat, 2/10	basketb Basketball tear						
		2 MI StateMinnesota	Final 87 < Tue, 2/13 57 57	2 MI StateN Northwestern	Final 65< Sat, 2/17 60 Image: Comparison of the second	The Michigan & basketball tear University and Conference of basketball. The at the Breslin & Wikipedia						

Popup Styling

••	•		G Google		×	+							A. 114 6.60		R
(-	> (G	<u></u>		https://ww	w.google.co	m				🛡	☆	I		
Abo	ut s	Store	•		www.googl			>				Gmail	Images		Sign
				×	Permission: You have not g permissions.		te any special								
						GC									
										Z					
						Goog	gle Search	l'm	Feeling Lucky						
Adv	ertisi	ing	Business								New		Privacy	Terms	Set

Find Bar and Menu Styling

Google	× +		R
	(i) 🔒 https://www.google.com	••• 🛡 🏠 💷	
About Store			₩N �₩P ₽ ₽ ₽ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
XQ	Google Search I'm Feeling	G Lucky G	**O **S **P **F > > >

The Capstone Experience

Team Mozilla Alpha Presentation

What's left to do?

- Add support for sidebar/in-product styling and add functionality for the default dark theme
- Allow theming toolbars for idle, hover and focused states
- Allow theming tab close button colors for both hover and idle states
- Allow customization of the background tab text color and background color for the hover state
- Implement remaining Google Chrome theme properties into Firefox for complete compatibility

[What's Next] Sidebar Styling

						Mr. P	A CON	a new
			•••	m Volunteer C	Opportunities at Moz	+		
•••	m Volunteer Opp	ortunities a	$\leftrightarrow \rightarrow G$	(US)	https://www.mc	🛡 绪	? >>	Ξ
 	(i) 🔒 (US)	https://	\star Bookma	rks 🗸 🛛 🗙				
 Bookmark Search bookm Bookmarks Most Vis Get Invo Bookmarks 	narks Toolbar sited Ived Menu		Q Search book	s Toolbar isited olved s Menu	10,554 active		rldwide	
← Other Book	marks	10,554 41 upc 87 lang contine			40 upcoming e 87 languages a continent			
		Joir	game-ci	iangers.		obal comr ne-chang		y of

The Capstone Experience

Team Mozilla Alpha Presentation

[What's Next] In-Product Pages

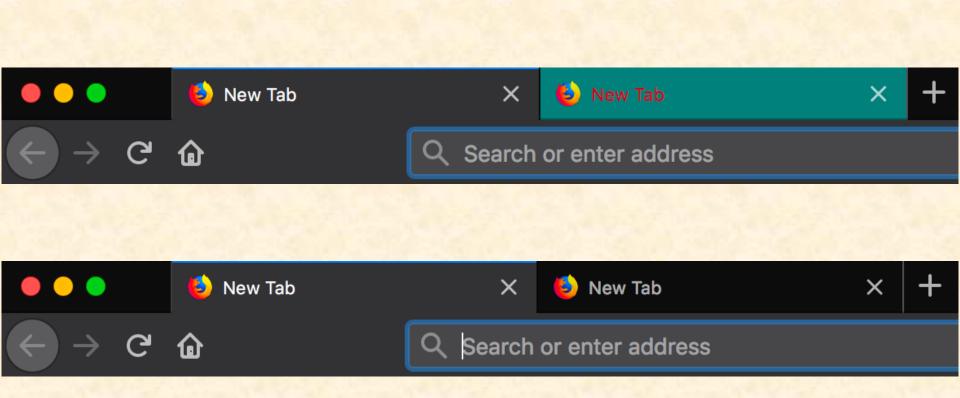
							Mark M		the the bear	1918 (MAR)		98 A.	100
	000	🙆 New Tab		🗙 🖌 Customize	Firefox	×					+	~	
	() d	0	9				-		~	₹	III\ 🗊		Ξ
200	Drag your fa	vorite items into t		Overflow Menu Drag and drop items here to keep them within									
	G		æ	Ľ	Q	Ľ	a -		reach but out of ye	our toolbar			
Drag your favo	History	Synced Tabs	New Private Window	Save Page	Find	Open File	Add-ons		_				243
G	-+	ኤ የኔ 🕯	シ	8		\$	୭			2			
History	Zoom Controls	Edit Controls	Subscribe	Text Encoding	Email Link	Preferences	Forget						
-+	3	ېر	S	0	23		ŵ						
Zoom Controls	NoScript 10.1.6.4	Developer	HTTPS Everywhere	Decentraleyes	Privacy Badger	LastPass	uBlock Origin (off)						Chronic West
ų		(-	C7	^ر ۲	岔	Q						
Developer	uMatrix	WebIDE	Print	New Window	Full Screen	Bookmarks Menu	Search						
Flexible Space	🗖 Title Bar	Drag Space	Toolbars 🗸	Themes	Density				Rest	pre Defaults)one	
🗌 Title Bar	Drag Space	Toolbars 🗸	Themes	Density				Re	estore Defaults	Done			

[What's Next] Tab-Closed Buttons





[What's Next] Background Tab Styling





Questions?

