



Photon: A new look to Firefox & front-end development

Tim Guan-tin Chien 簡冠庭

Mozilla Developer Conference — Sep 22, 2017

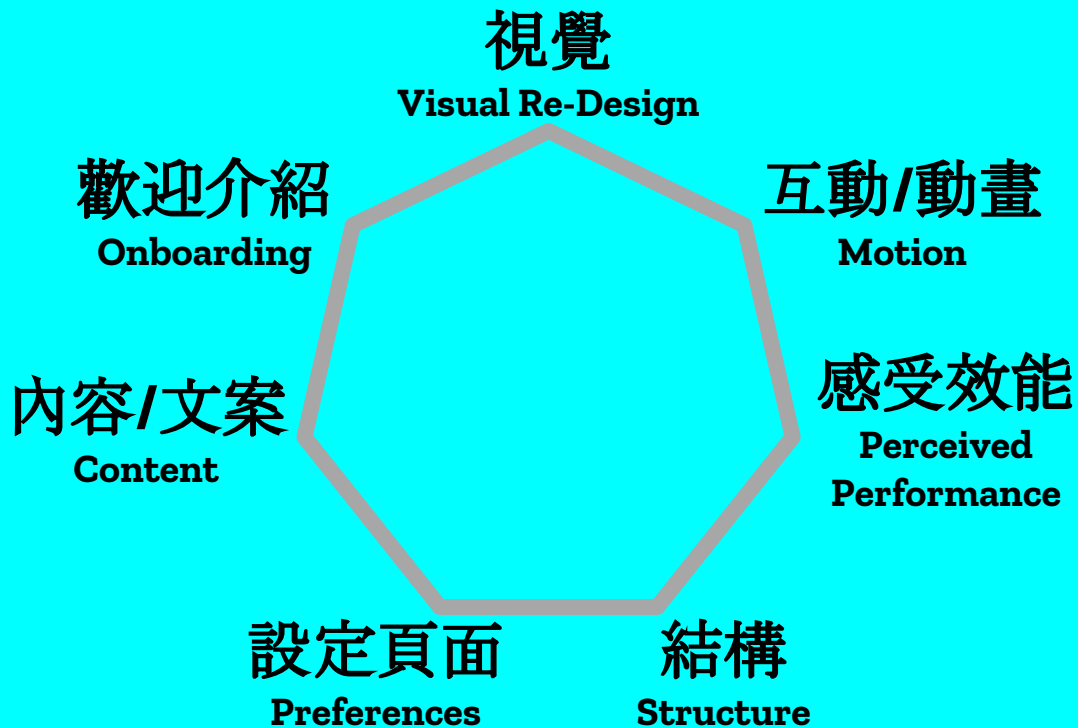


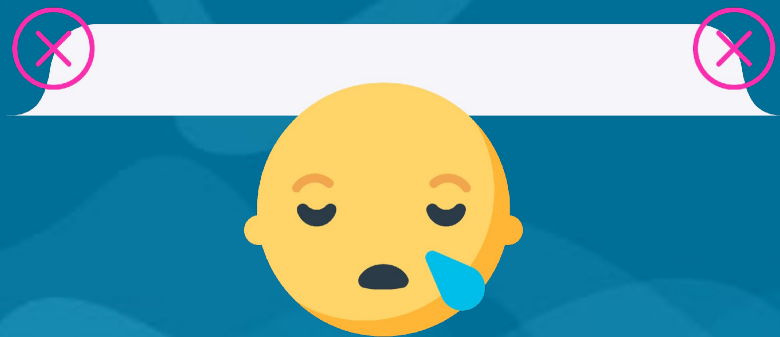
「介面大改版」

前端工程師最怕的事，沒有之一

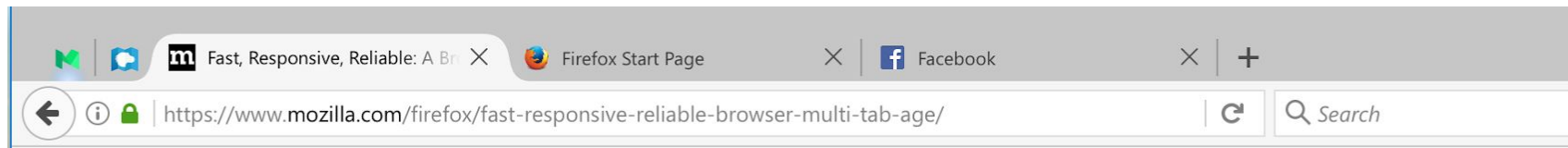
Be **BOLD** and **MODERN**

大膽且現代的視覺元素

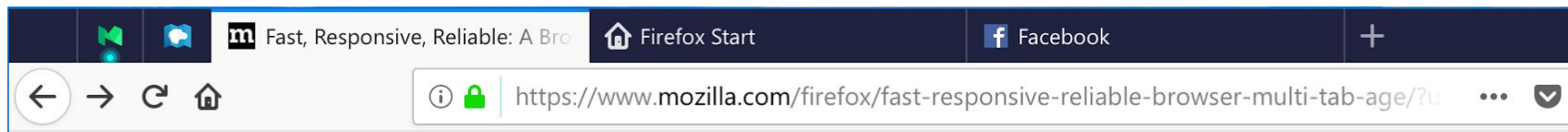




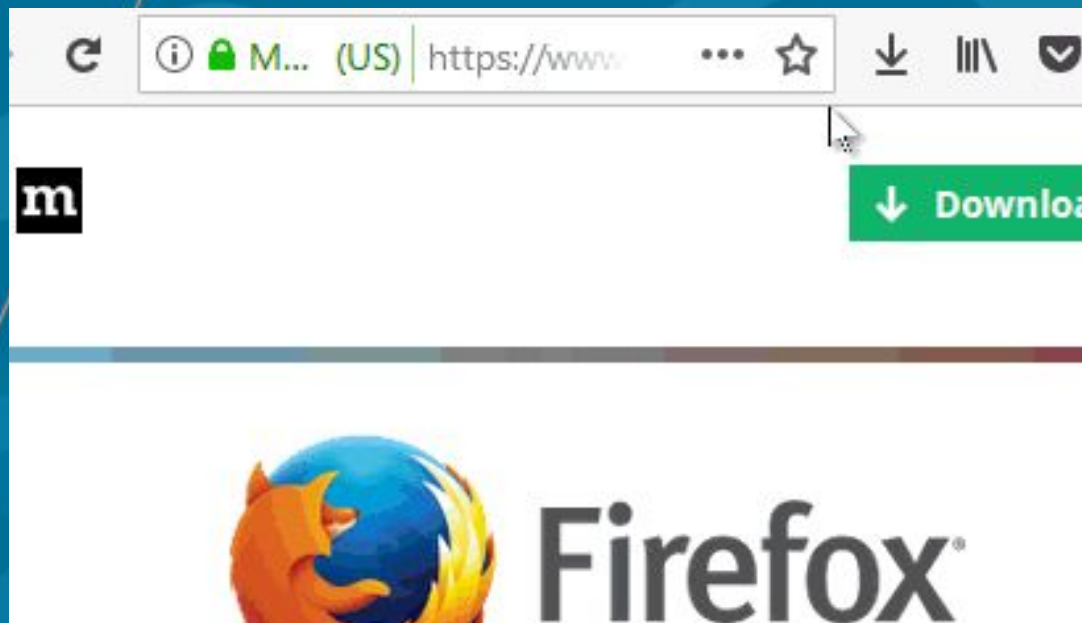
和厚重的 Australis 分頁標籤曲線說再見



Firefox



New Firefox

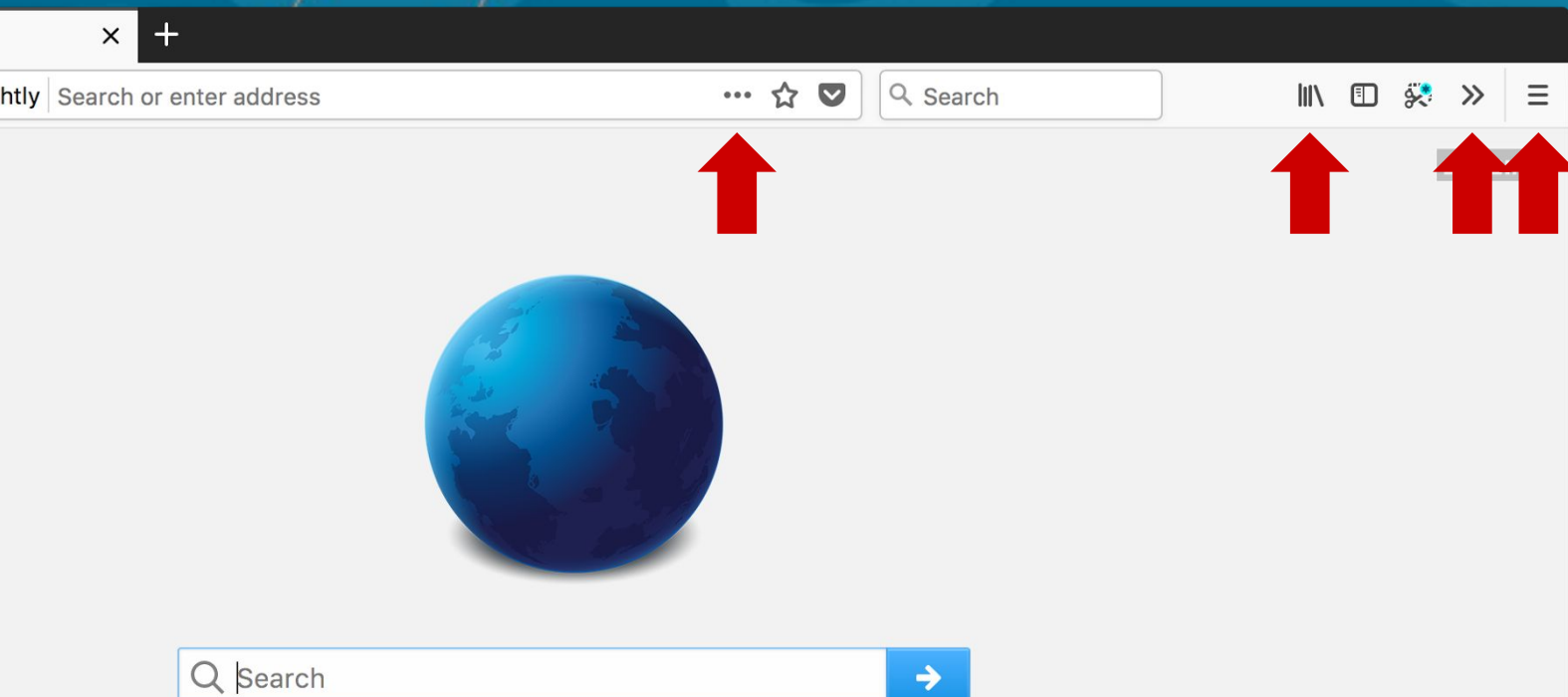


SVG Filmstrip



Adobe After Effects 輸出 → SVGGO → fill="context-fill"

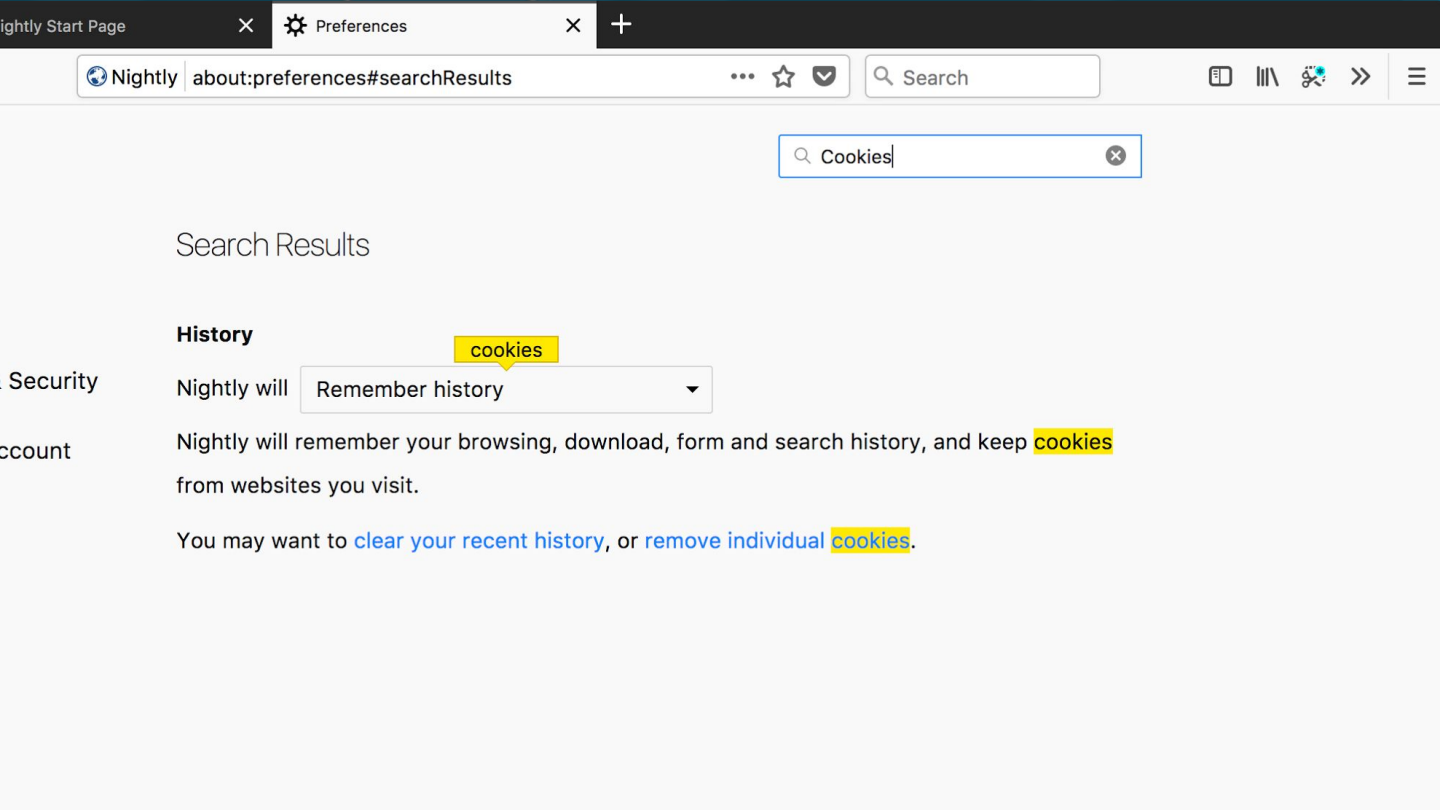
(Credit: [Jared Wein](#))



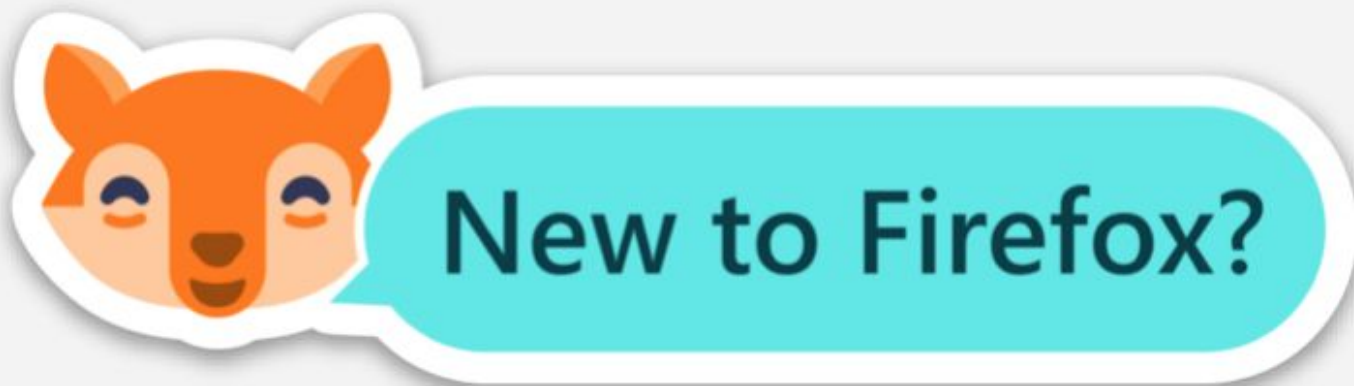
WebExtension 擴充套件



下午 Track B

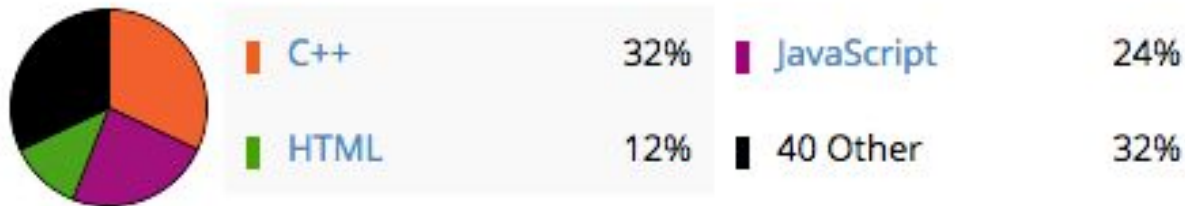


Onboarding Experience



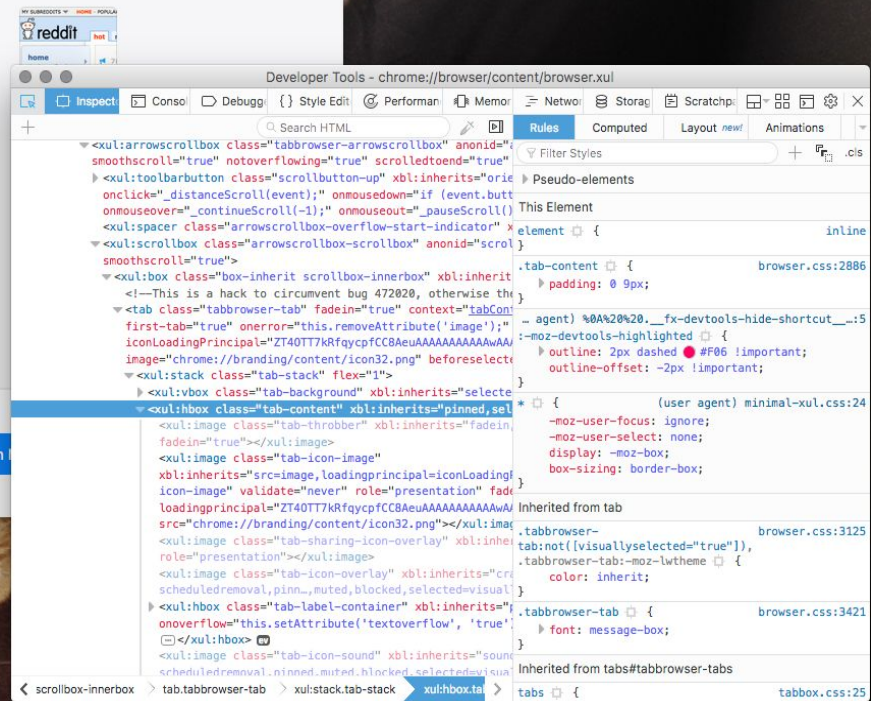
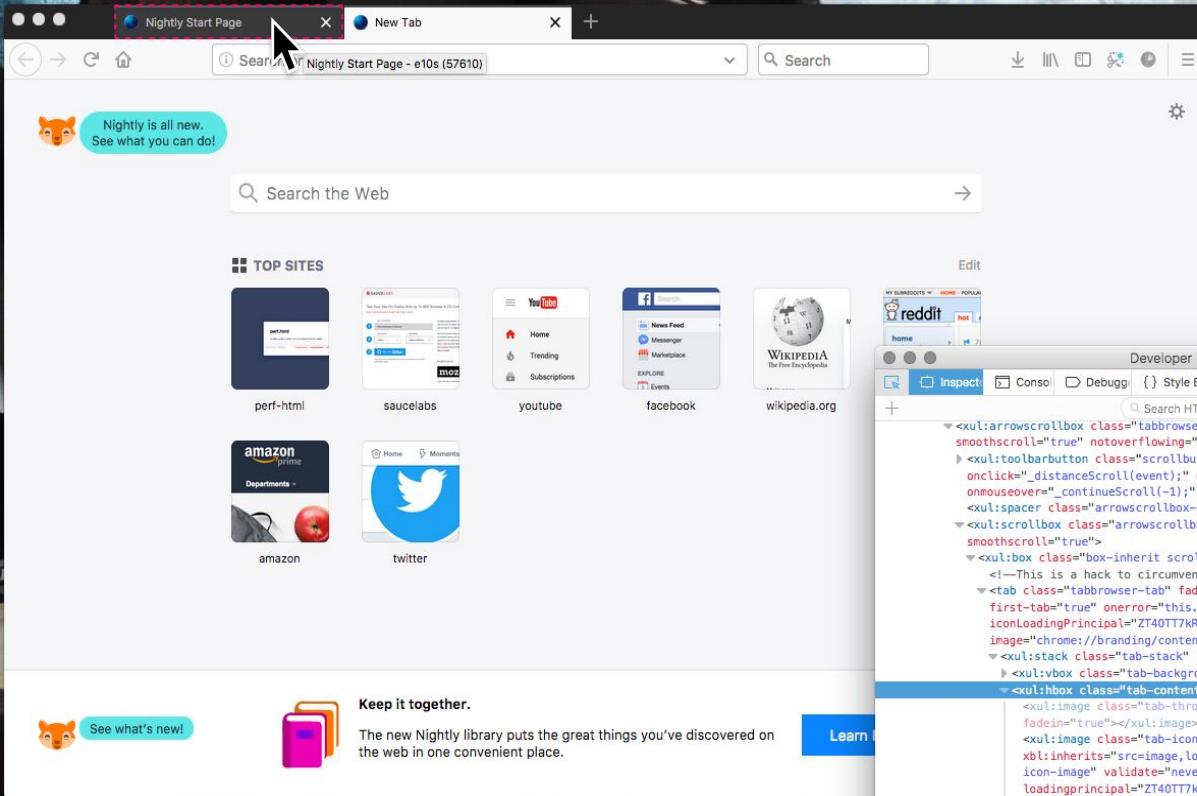
Firefox 介面也是基於 Web 前端技術

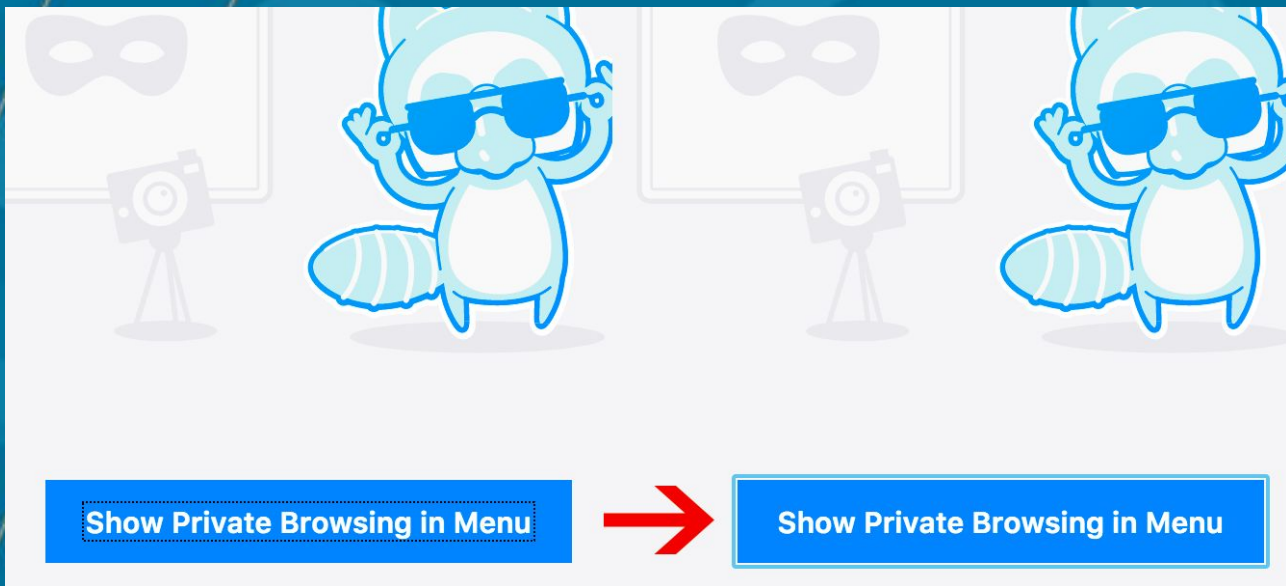
Languages



XUL & xHTML + CSS + JavaScript

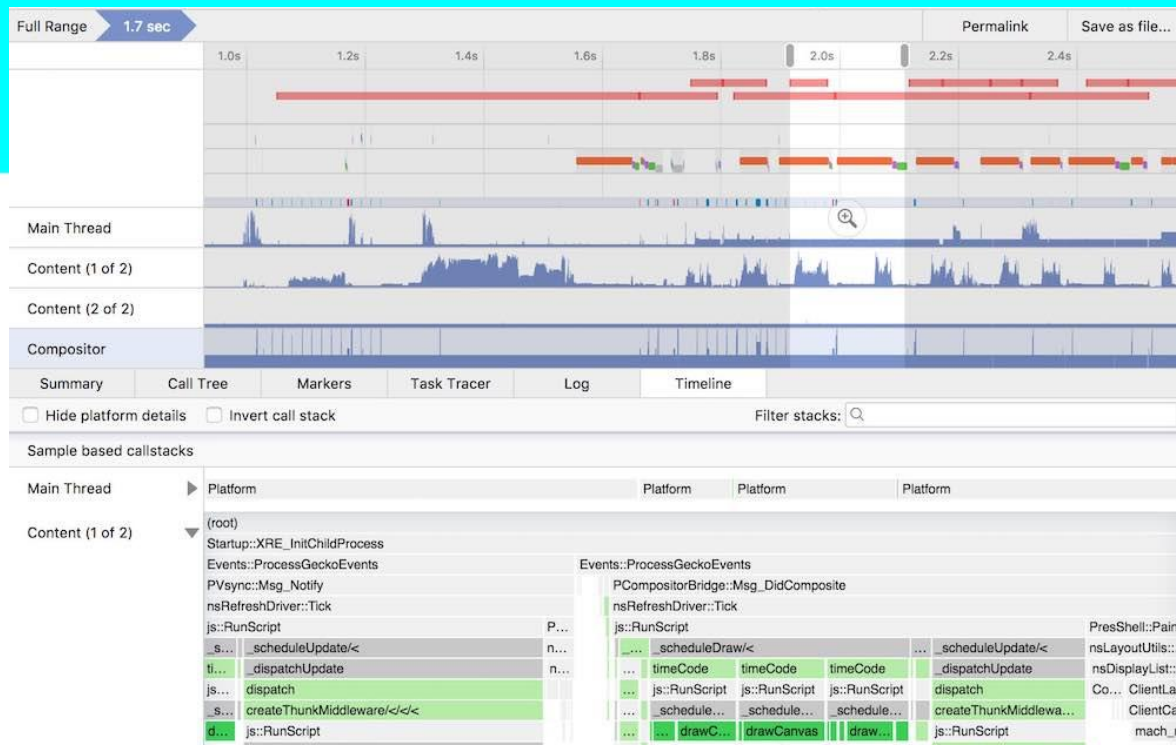
(Source: [OpenHub](#))





Faster than Fast

60 fps 的介面互動體驗

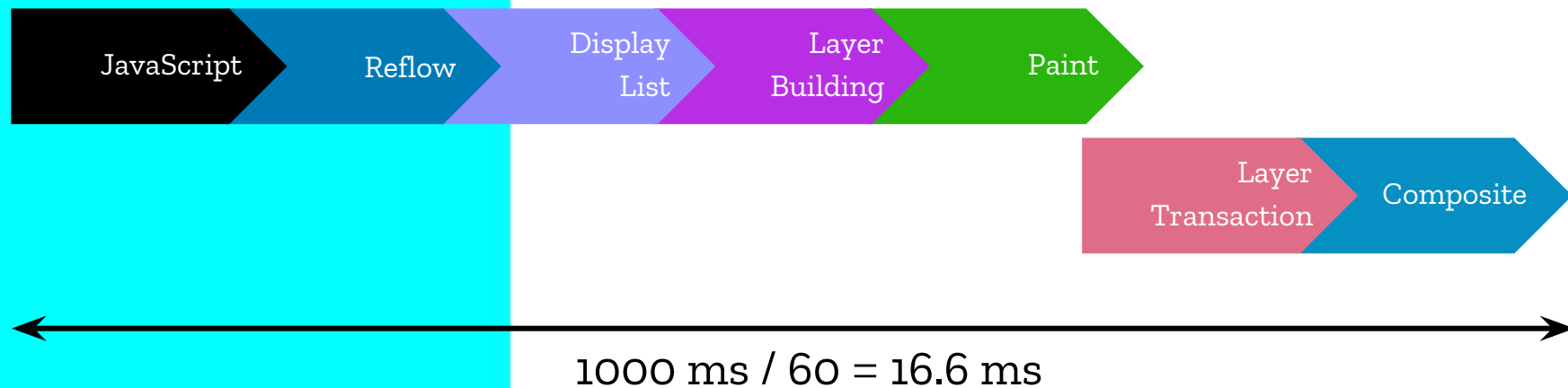


測量、測量、再測量

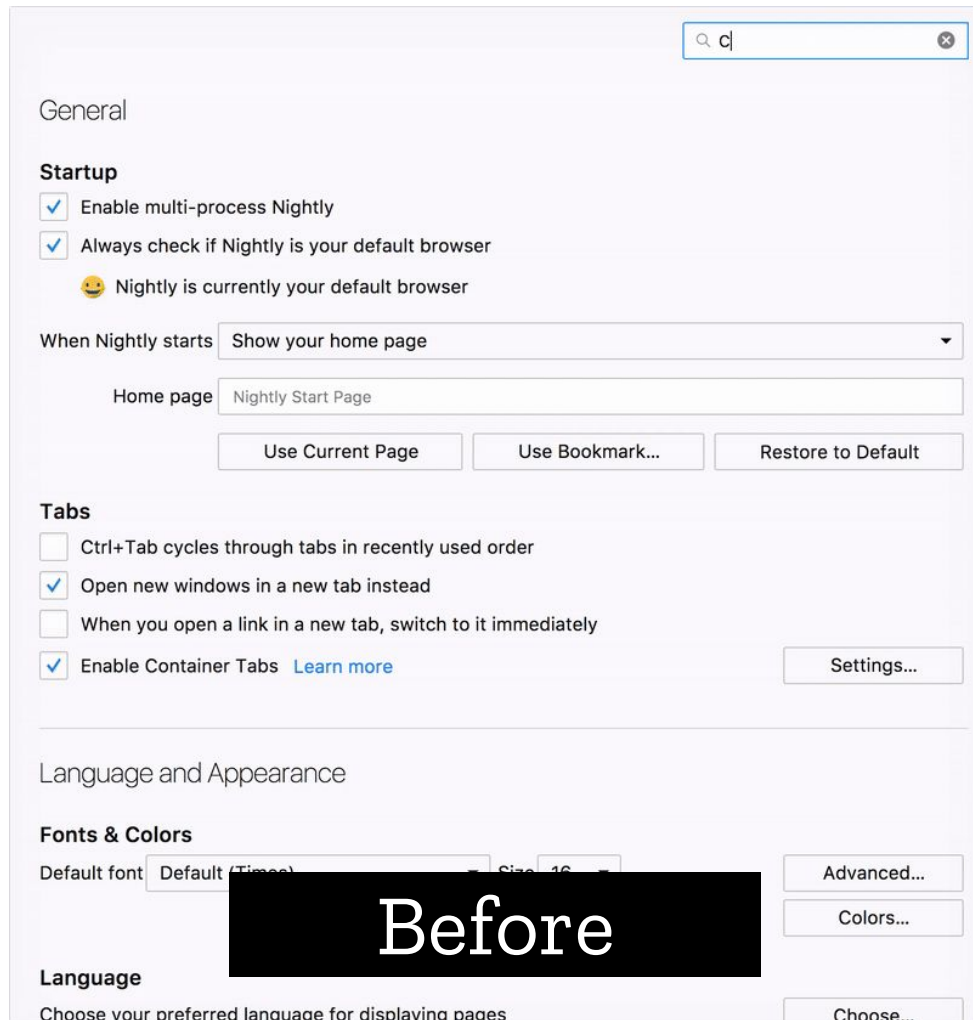
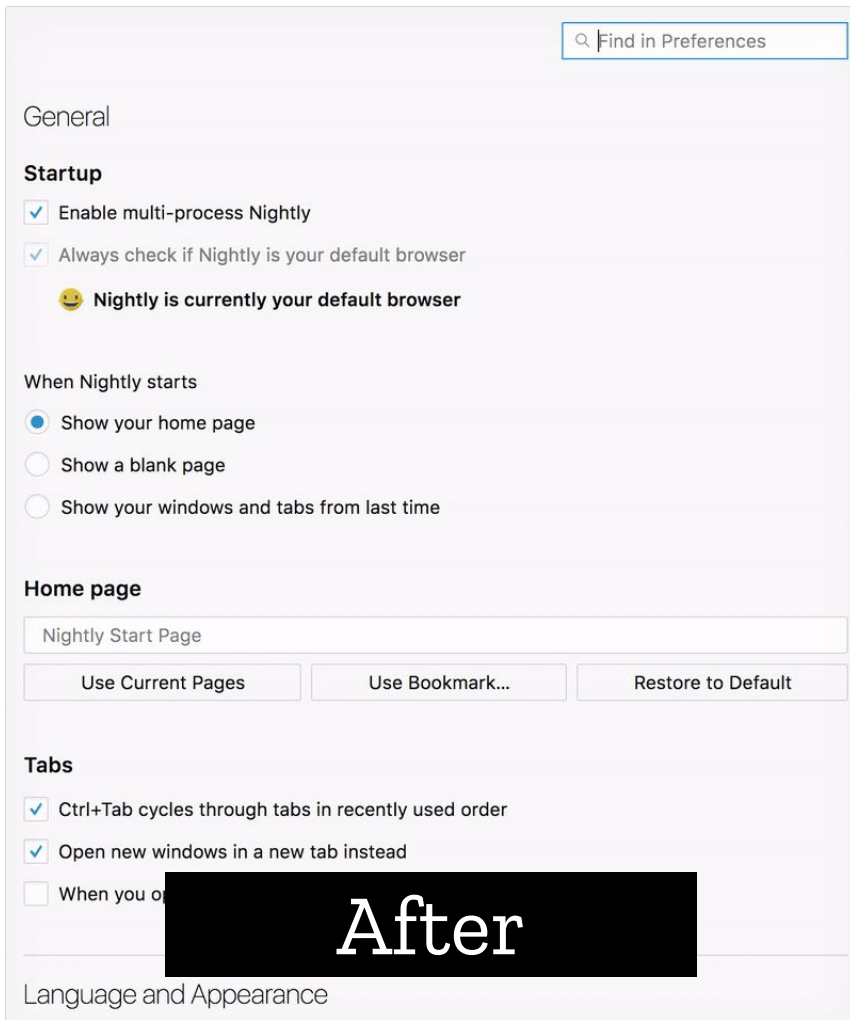
Measure, measure, and measure

DOM/JS 排程

DOM/JS Scheduling



```
async function longTask(elements) {  
  let ts = performance.now();  
  let FRAME_THRESHOLD = 1000 / 60;  
  for (let el of elements) {  
    if (performance.now() - ts > FRAME_THRESHOLD) {  
      await new Promise(resolve =>  
        window.requestAnimationFrame(resolve));  
      if (/* re-entry check */) {  
        return;  
      }  
    }  
    doWork(el);  
  });  
}
```





Try Nightly today!

<https://nightly.mozilla.org/>

Gecko Profiler

<http://perf-html.io/>

Tim Guan-tin Chien 簡冠庭

@timdread — Twitter/Facebook/GitHub



Faster than Fast!



Fast, Responsive, Reliable: A Browser by Mozilla

Firefox Start

Facebook

https://www.mozilla.com/firefox/fast-responsive-reliable-browser-multi-tab-age/?utm...



Hmm. We can't connect to that site.

It appears that you are not connected to the Internet.

Here are two things you can try:

- Check your network connection.
- If you are connected but behind a firewall, check that Firefox has permission to access the Web.