



# Proposal: Zoom Features for Media Queries

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## Agenda:

- Basic Functionality
- Proposed Features



Basic Functionality:



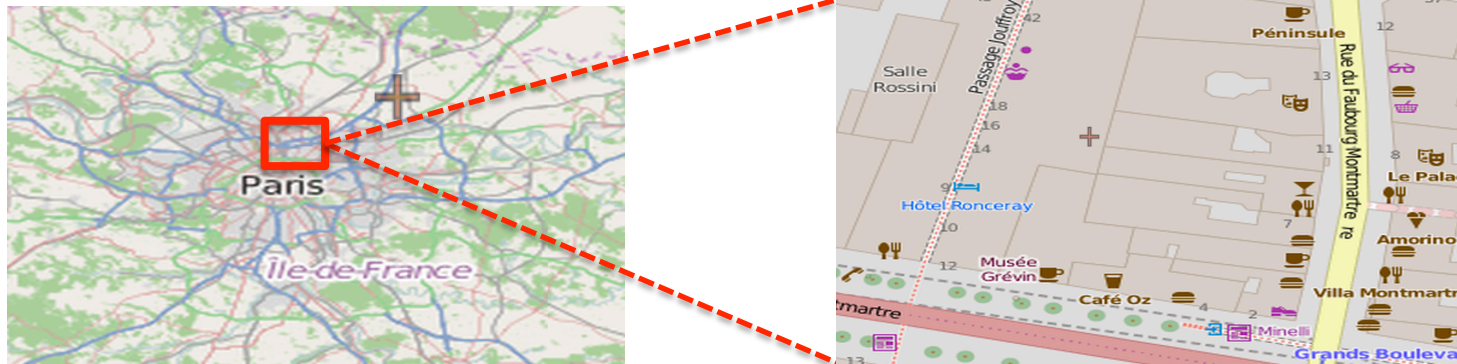
## Overview:

- Draft Spec
  - <https://rawgit.com/satakagi/mediaQueryZoom/master/index.html>
- New feature
  - Changing styles/contents according to zoom
  - [Polyfill] <http://svg2.mbsrv.net/devinfo/devstd/css-mediaquery-zoom/iframeZoomExample.html>
- Today's goal
  - Unofficial Draft => Editor's Draft

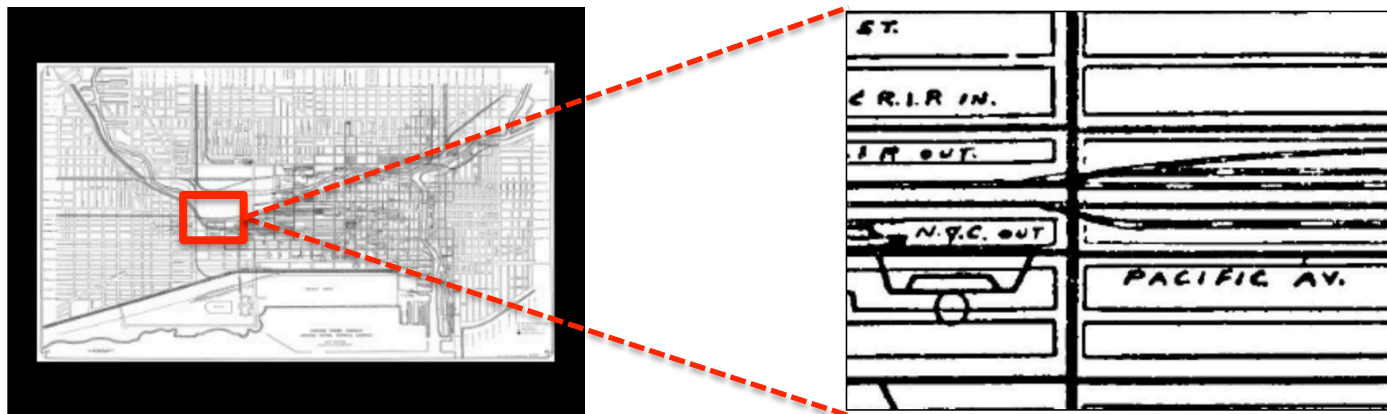


## Use case:

Mapping (Ref: [http://svg2.mbsrv.net/devinfo/devkddi/lv10.1/airPort\\_r1.html](http://svg2.mbsrv.net/devinfo/devkddi/lv10.1/airPort_r1.html))  
e.g. Switch content layers (Landmark)



High-Resolution Photos (Ref: <http://www.microsoft.com/web/solutions/zoomit.aspx>)  
e.g. Switch resolution (Char-readable level)





## How to Code:

@media (**min-zoom**: *ZoomRatio*) { ... }

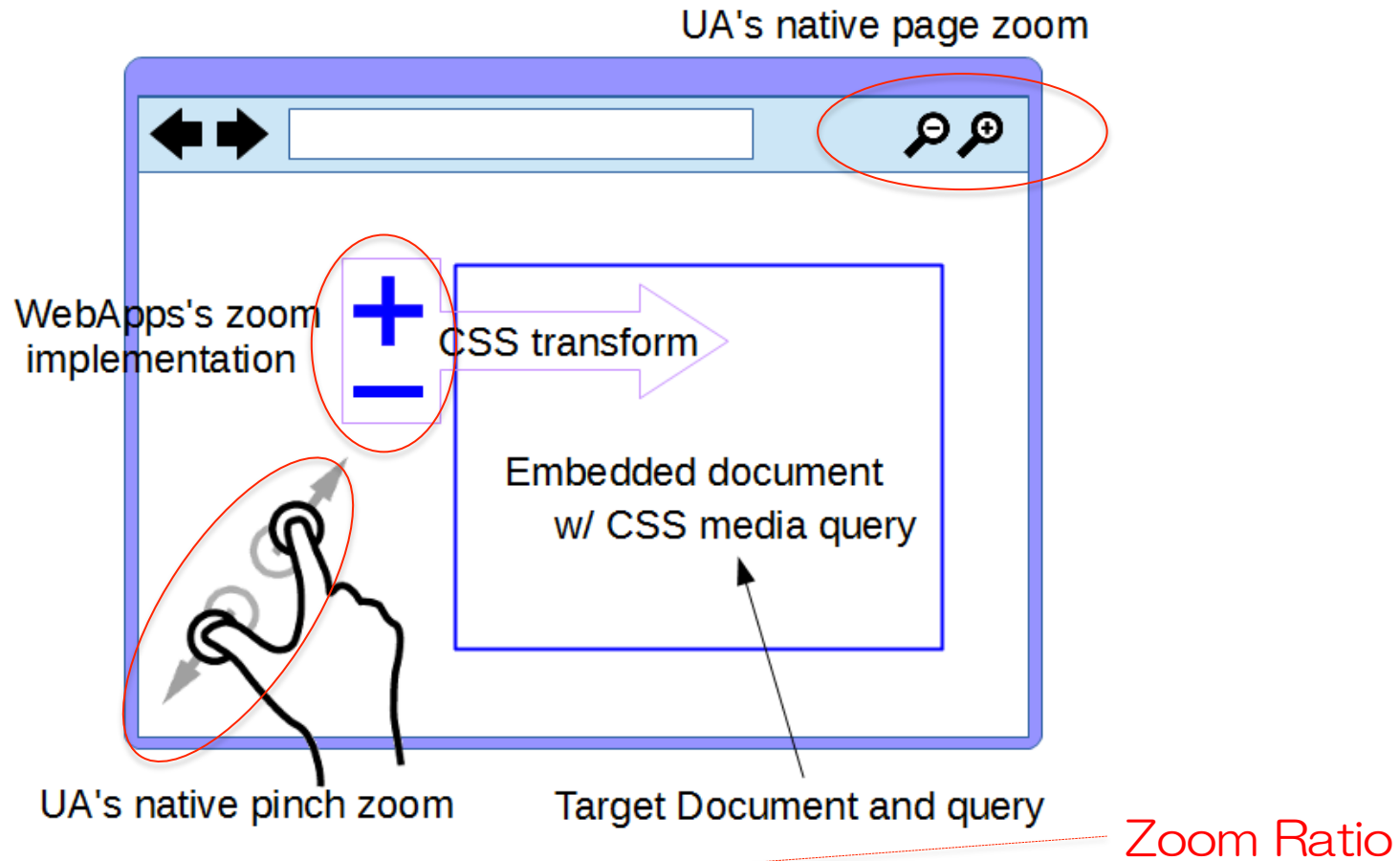
```
<style type="text/css">
  @media (min-zoom: 1.0) {
    .content {
      display: inline;
    }
  }
  @media (min-zoom: 2.0) {
    .content {
      display: none;
    }
  }
</style>
```



## Proposed Features:



# Zoom Patterns:



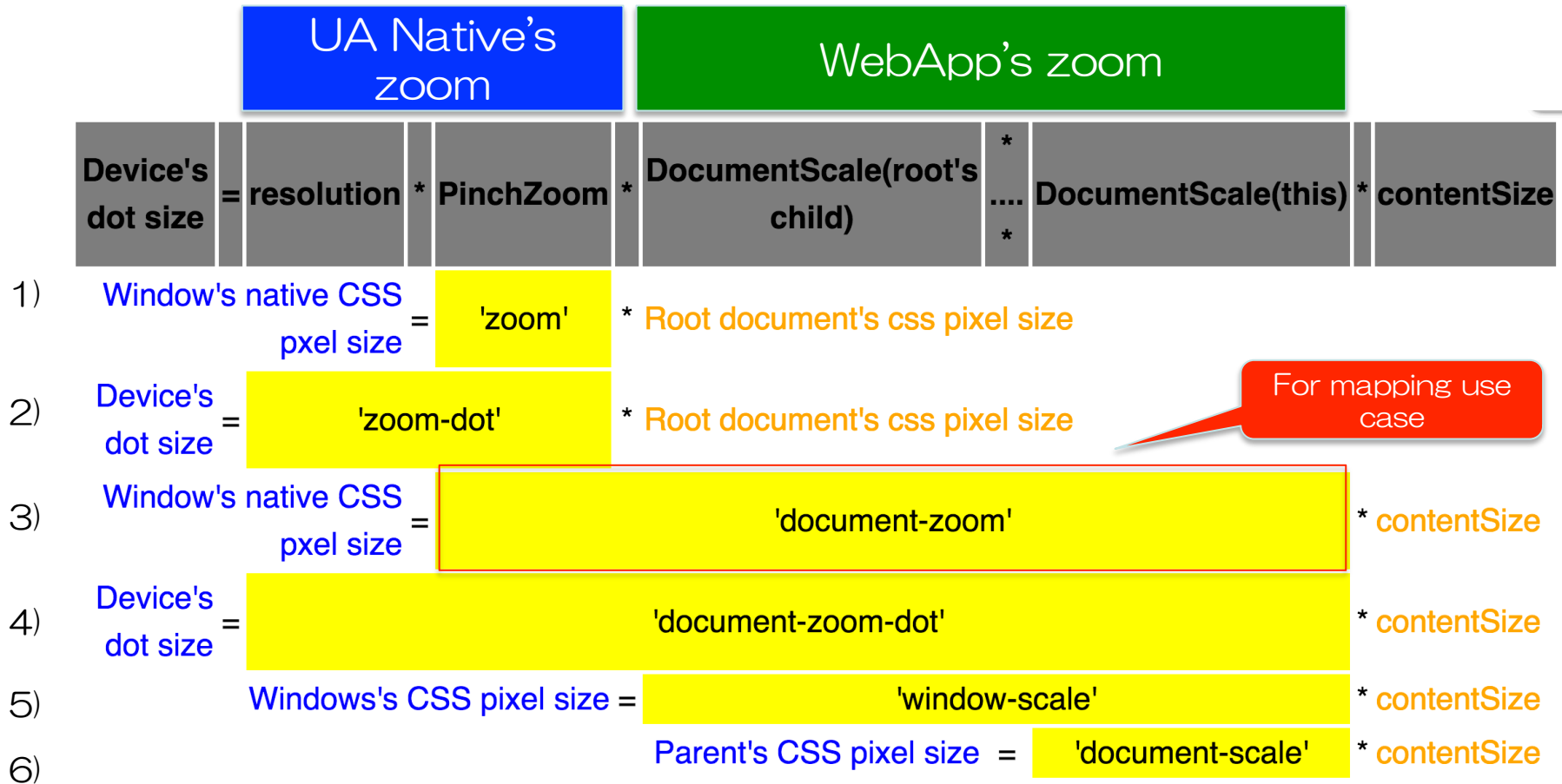
```
deviceDotSize = [resolution[dppx] * PinchZoom * DocumentScale(root's child)
* .... * DocumentScale(this)] * contentSize
```

```
resolution[dppx] = nativeResolution * PageZoom
```





# Possible Zooming Types:

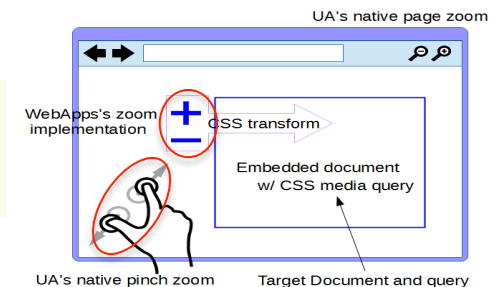




## Proposed Zoom Feature:

- “document-zoom” feature
  - Reflect CSS scale transform in addition to pinch zoom
  - Use case
    - e.g. Web page has a map content in iframe.
      - 1) User might zoom in whole web page.
      - 2) User might zoom in only a map content.
      - 3) When the whole web page is zoomed in using pinch zoom (not CSS transform), map content should be changed in some case.

```
@media (min-document-zoom: 2.0) { ... }
```





## Conclusion:

- Summary
  - Basic Functionality
  - Proposed Features
- Today's goal
  - Unofficial Draft => Editor's Draft
    - New feature: Zoom media features



## Points at Issues:

1. Concept is acceptable?
2. Specific zoom feature are acceptable?
3. Terminology.