



# **Trimming and Structuring Information on a Web Browser**

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# East Japan Earthquake



How many people took their mobile phone with them when evacuating?

78.5%

Wallet: 70%

What did they want  
after evacuating?

# Information





People want to know many kinds of information:

- ☐ Safety confirmation
- ☐ Transportation status
- ☐ Food supplies

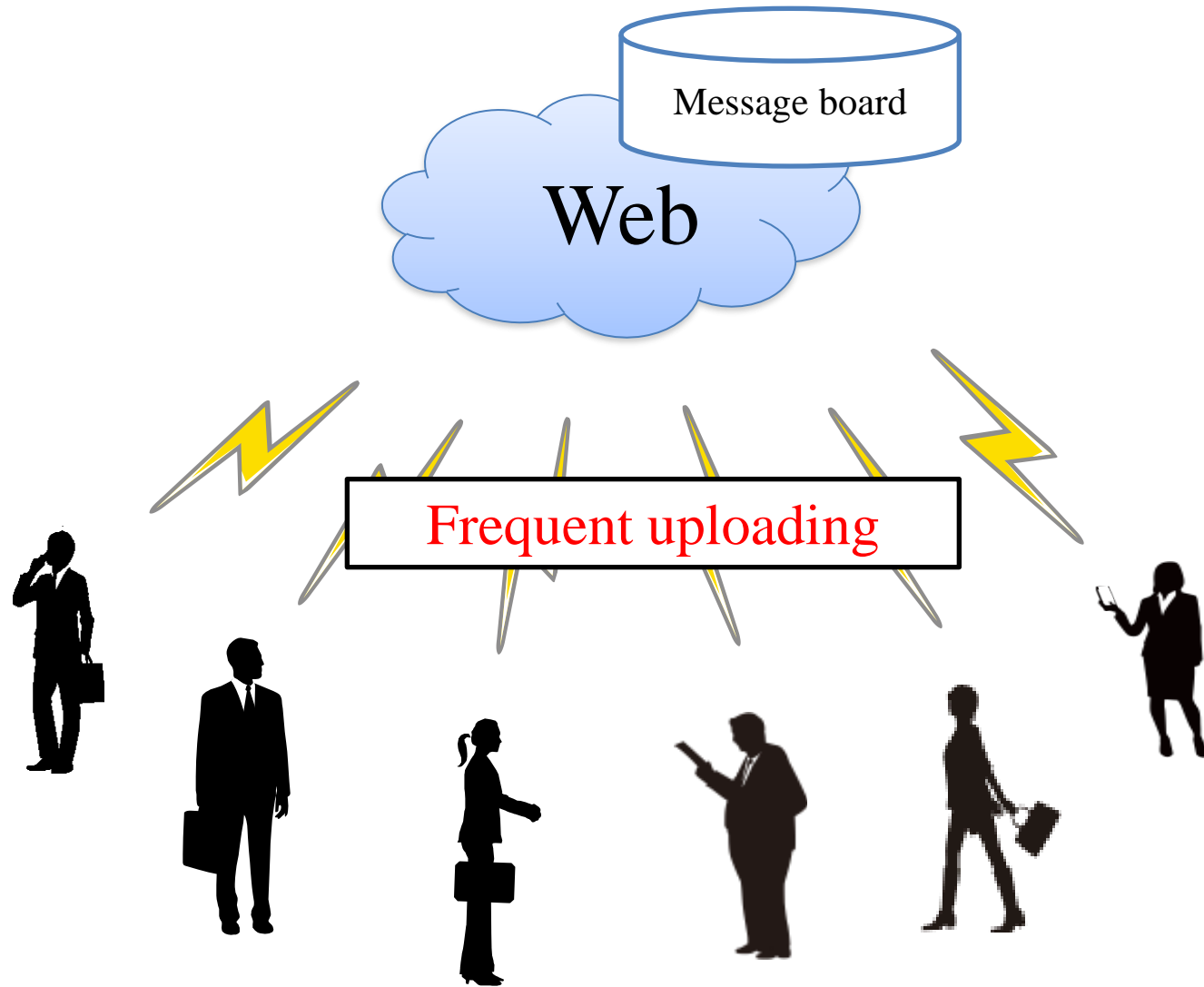
Train station



Evacuation center



# Uploading information on the Web

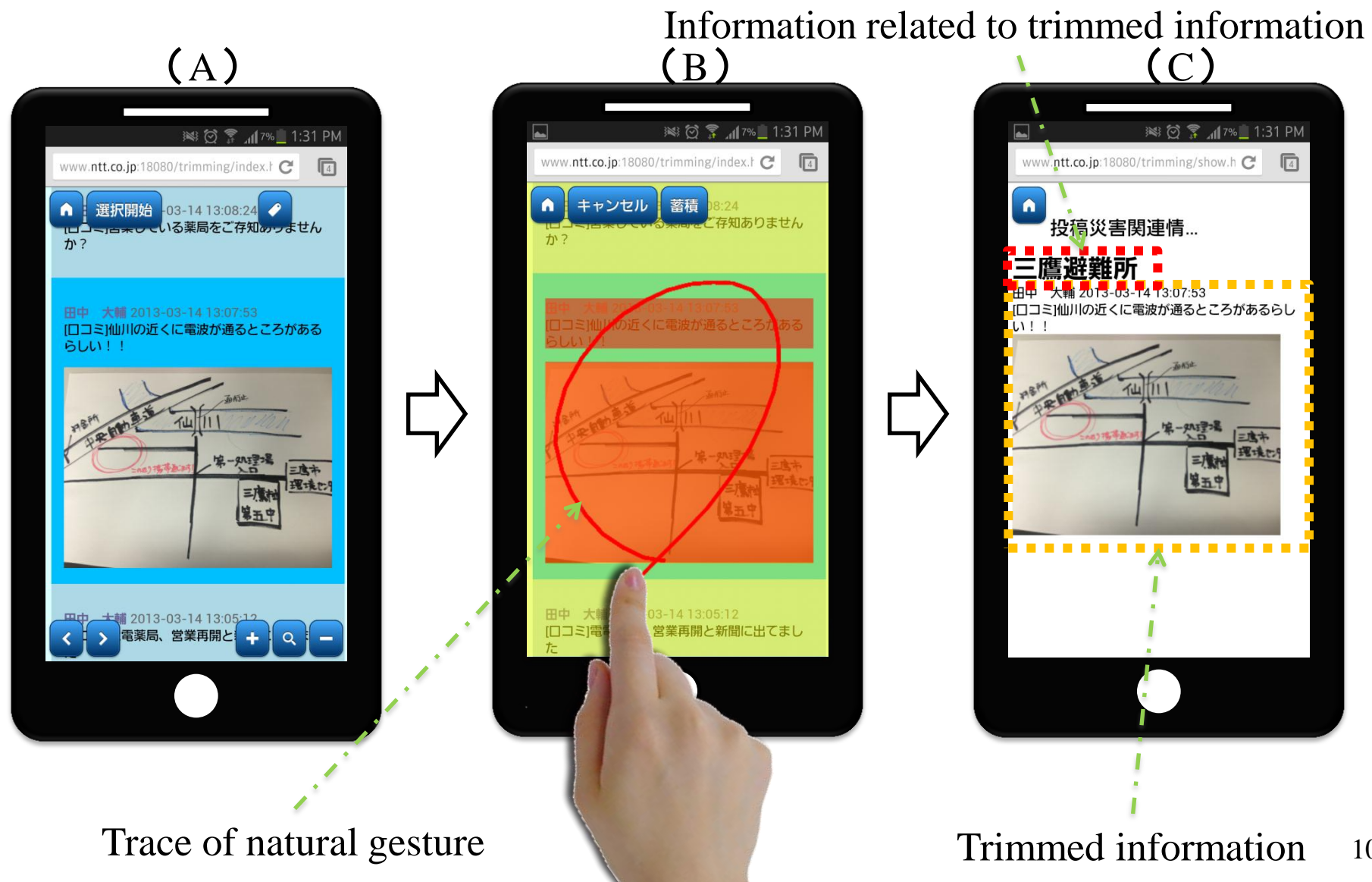




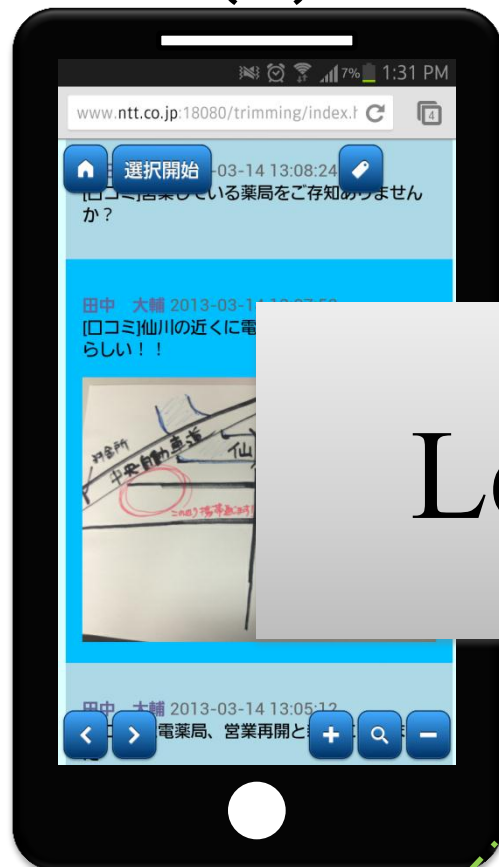
I found information on a message board

I couldn't find the information I have already seen

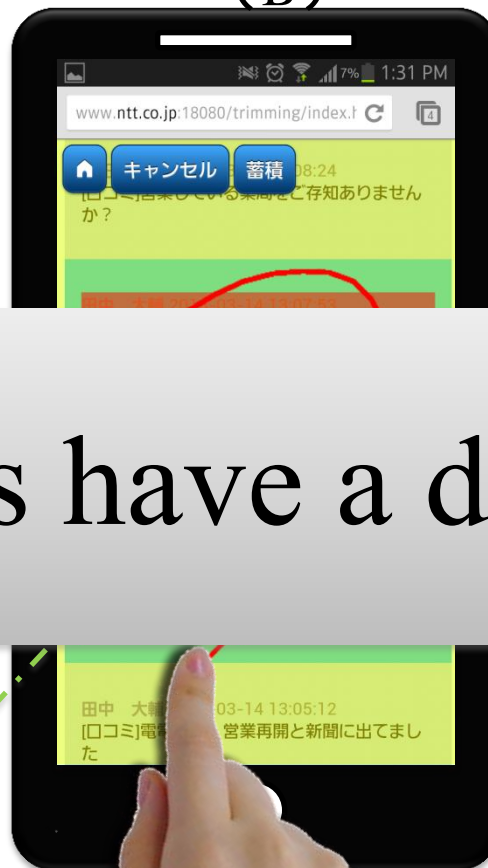




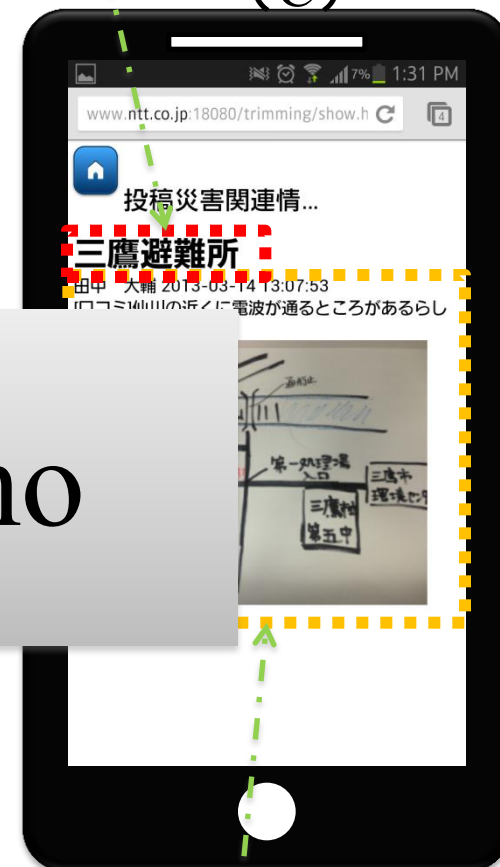
(A)



Information related with trimmed information  
(B)



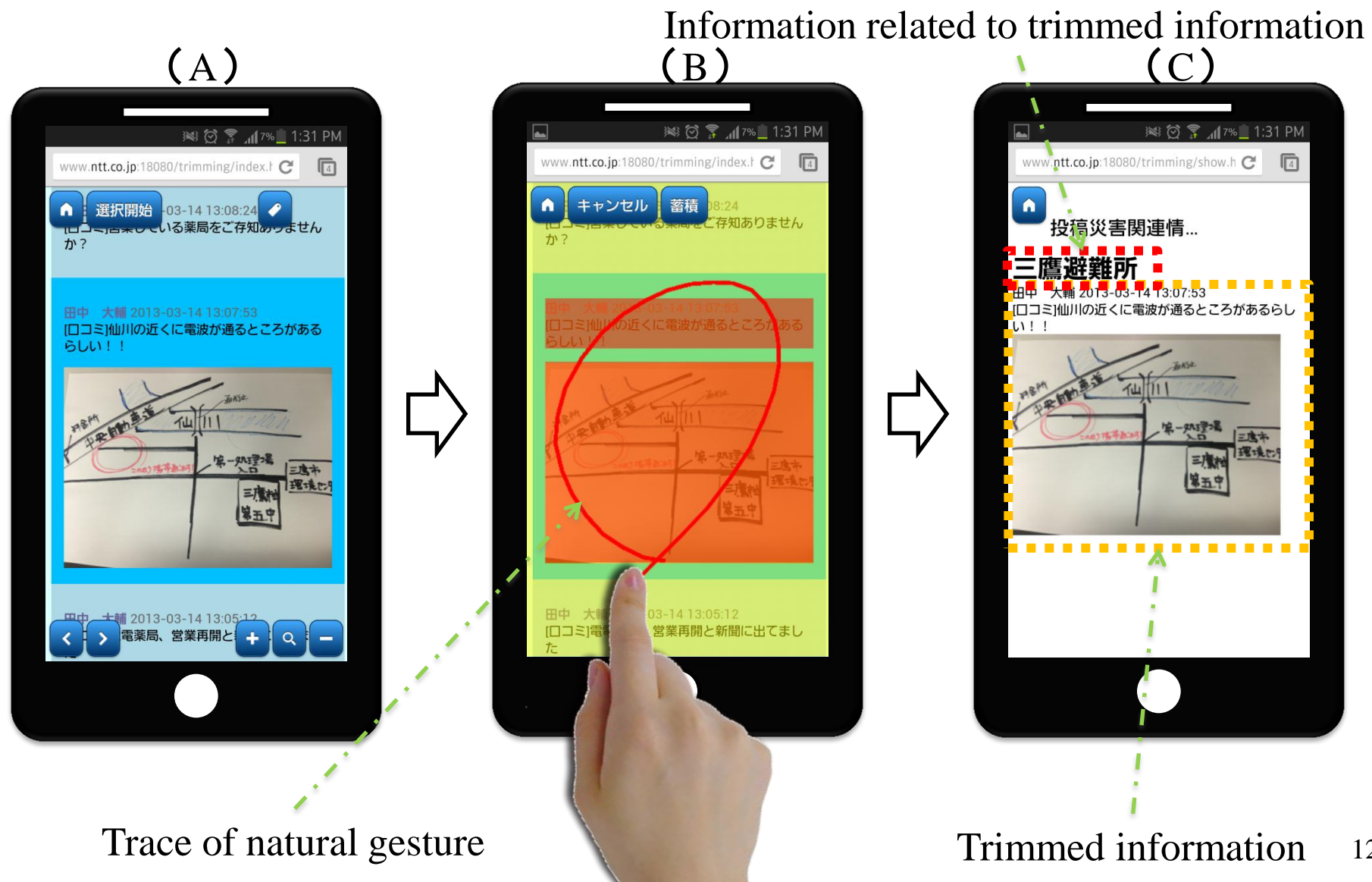
(C)



Let's have a demo

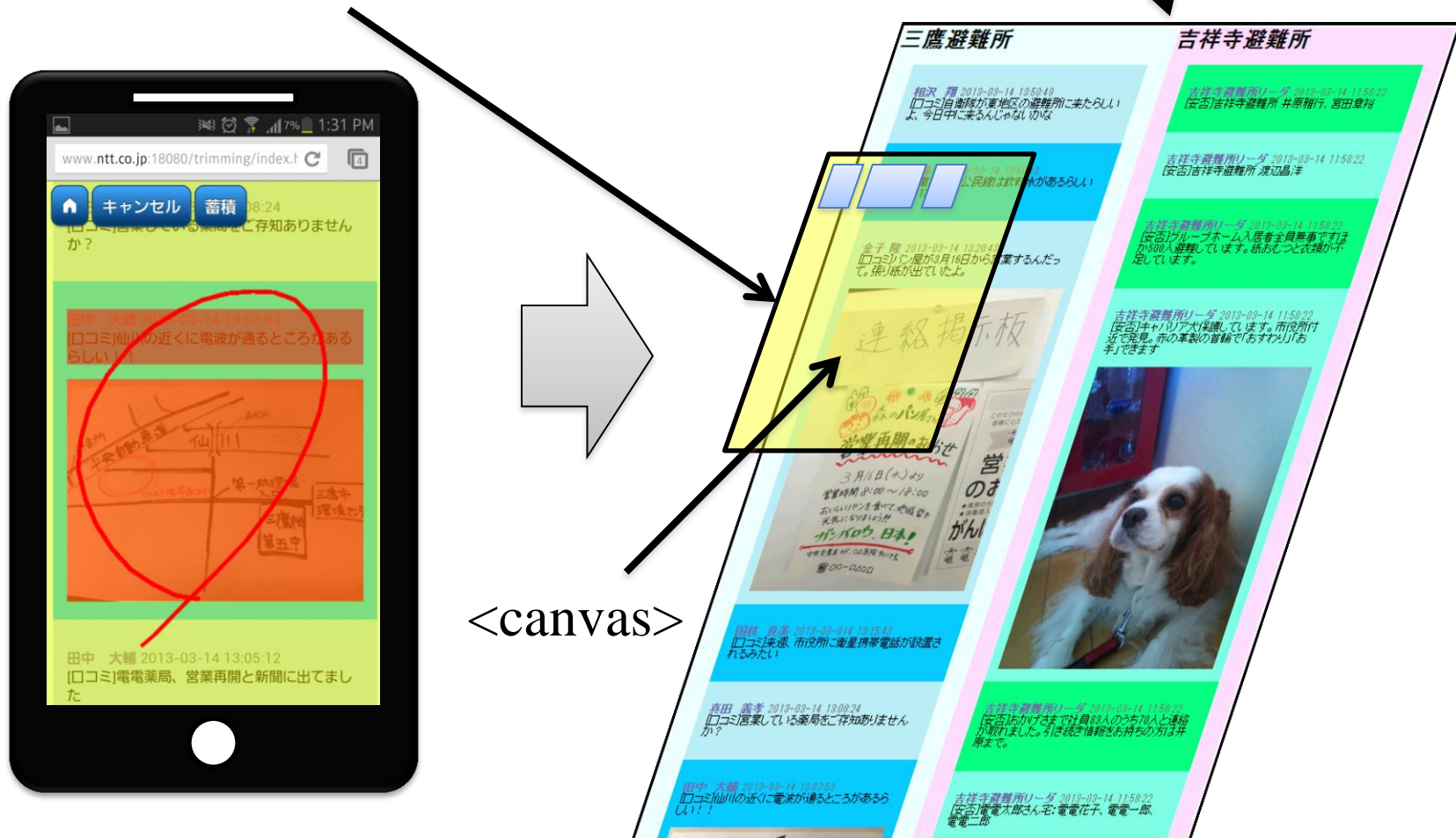
Trace of natural gesture

Trimmed information



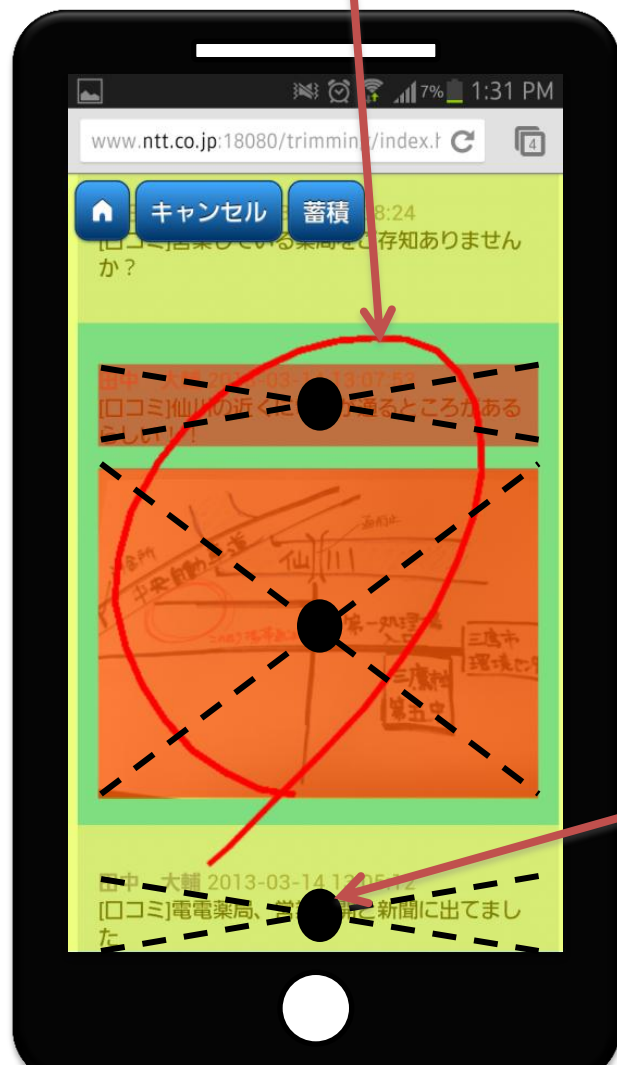
Browsing context to detect user's touch actions

Nested browsing context using <iframe> to display a target web page



# Recognizing selected HTML tags

IsPointInPath function of canvas is used to detect HTML tags within a polygon drawn by a user



Making a drawn polygon

Touchbegin  $\Rightarrow$  context.beginPath();

Touchmove  $\Rightarrow$  context.lineTo();

Touchend  $\Rightarrow$  context.stroke();

`context.isPointInPath(x, y);`

Center position of each HTML tag

※HTML tags include `<p>` `<img>` `<canvas>`  
`<textarea>`



## General Structure of HTML document

### 三鷹避難所

相沢 翔 2013-03-14 13:50:49  
[口コミ]自衛隊が東地区の避難所に来たらしいよ、今日中に来るんじゃないかな

砂田 陽子 2013-03-14 13:40:43  
[口コミ]南地区の公民館は飲料水があるらしいよ。一人1本制限

金子 隆 2013-03-14 13:20:43  
[口コミ]イン屋が3月16日から営業するんだって。張り紙が出ていたよ。



国枝 良美 2013-03-14 13:16:43  
[口コミ]来週、市役所に衛星携帯電話が設置されるみたい

真田 義孝 2013-03-14 13:08:24  
[口コミ]営業している薬局をご存知ありませんか？

### 吉祥寺避難所

吉祥寺避難所リーダー 2013-03-14 11:58:22  
[安否]吉祥寺避難所 井原雅行、宮田章裕

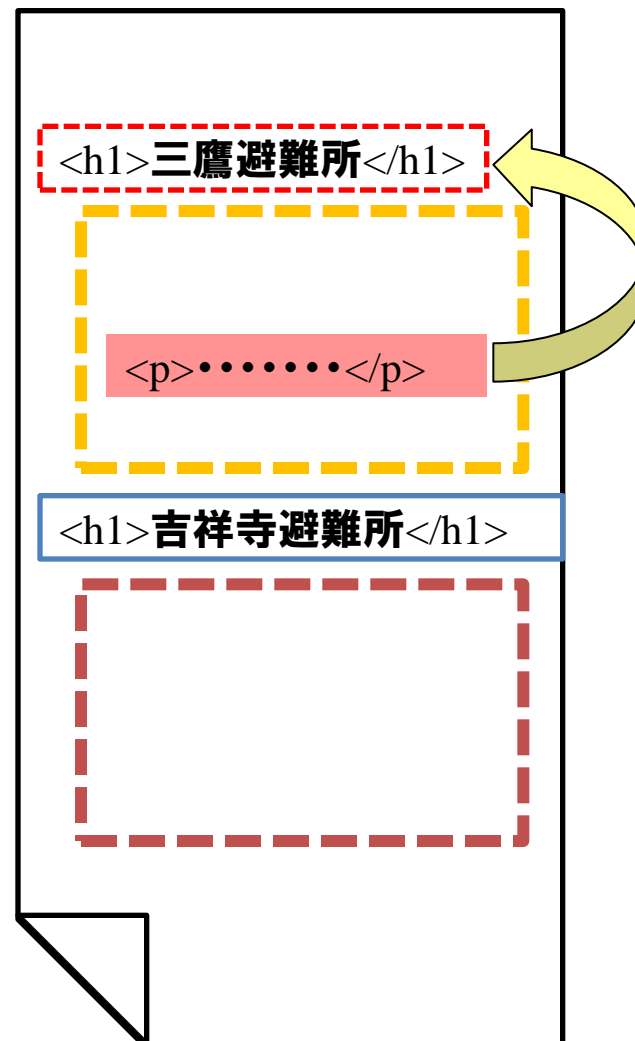
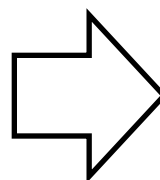
吉祥寺避難所リーダー 2013-03-14 11:58:22  
[安否]吉祥寺避難所 渡辺昌洋

吉祥寺避難所リーダー 2013-03-14 11:58:22  
[安否]グループホーム入居者全員無事です。ほか500人避難しています。紙おむつと衣類が不足しています。

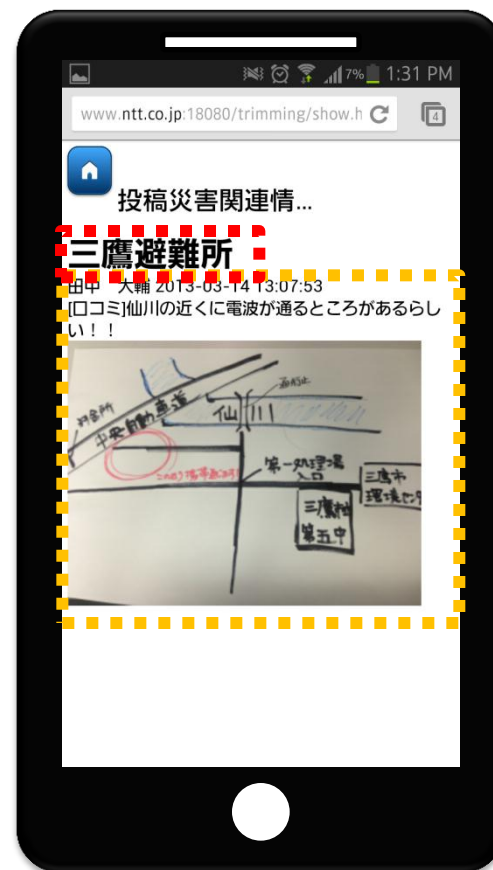
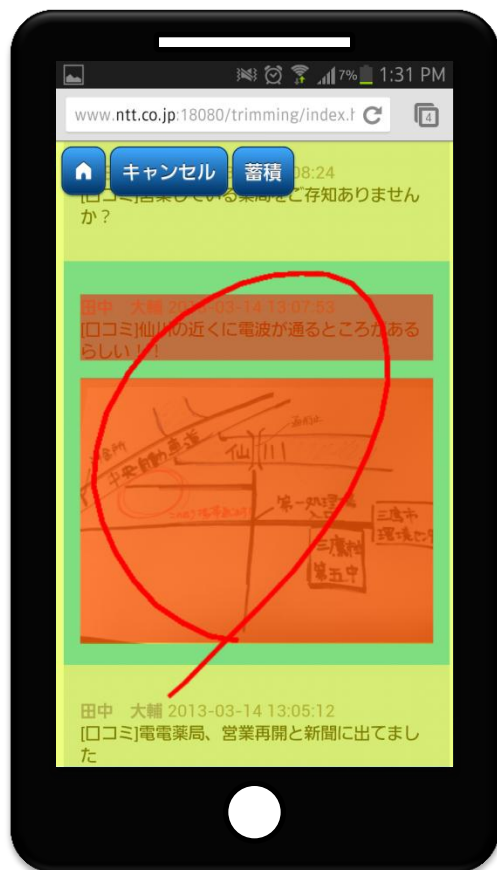
吉祥寺避難所リーダー 2013-03-14 11:58:22  
[安否]キャリリア犬保護しています。市役所付近で見え。赤の革製の首輪で「おすわり」「お手」できます



吉祥寺避難所リーダー 2013-03-14 11:58:22  
[安否]おかげさまで社員83人のうち70人と連絡が取れました。引き続き情報をお持ちの方は井原まで。



Layout of new page is structured to suit the screen size of the user's mobile device



- How can specification of iframe tag be unified for html5 browsers?
- ✂ Now, iframe tag's action differs with OS and browser
- How can mark-up reconstruct layout after trimming information?
- How can this user interface mashup another service/application?

# Thank you

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