

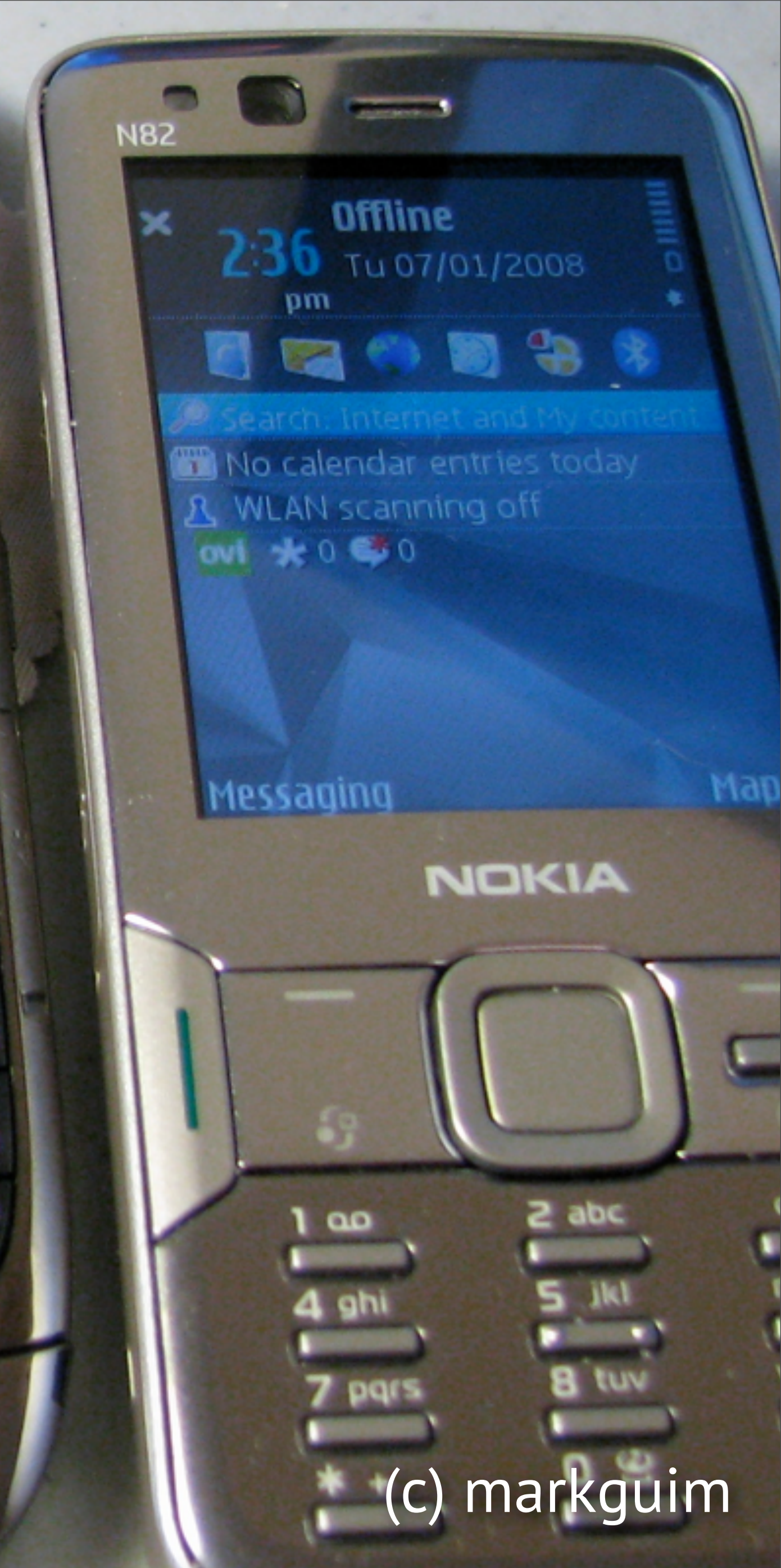
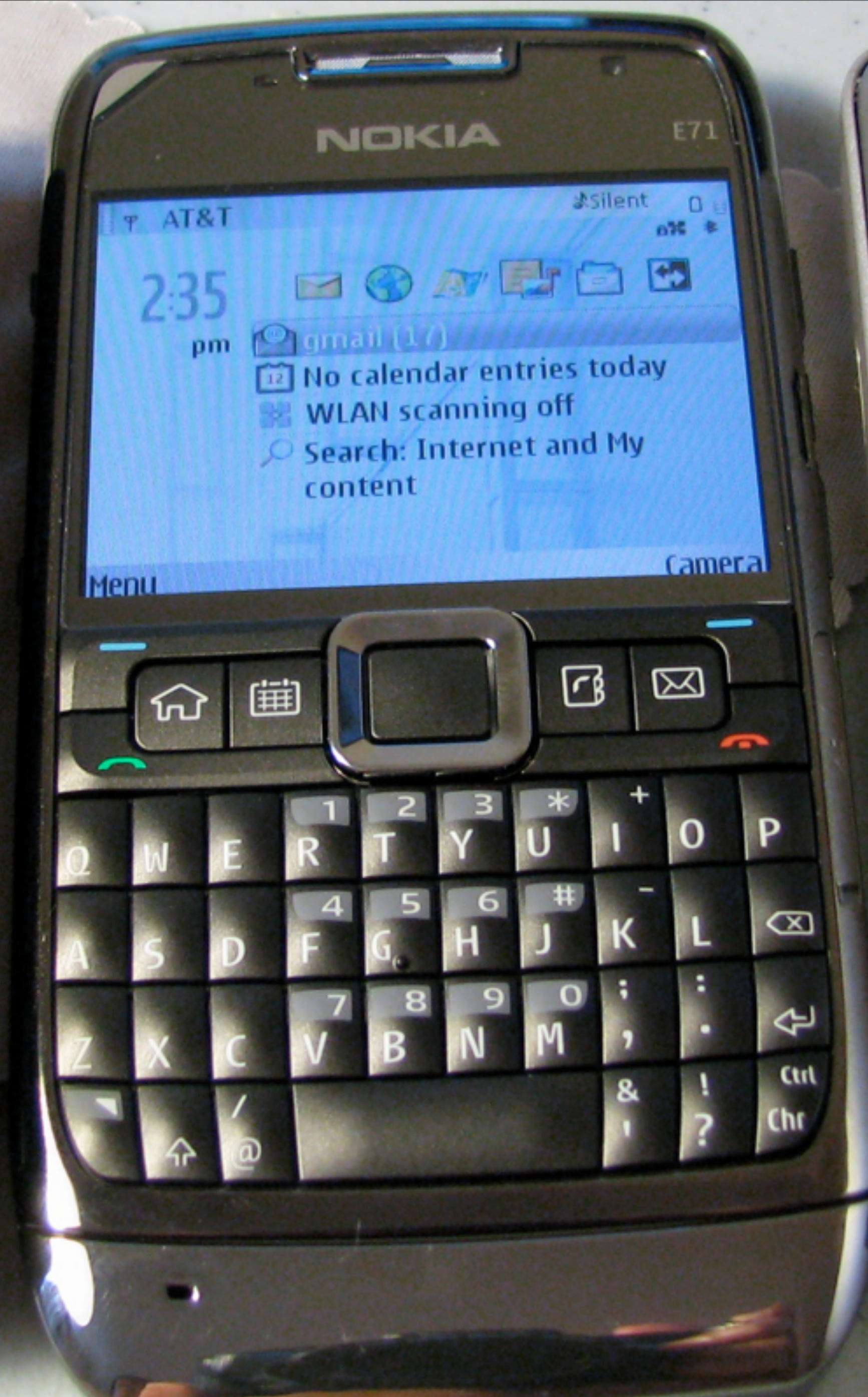
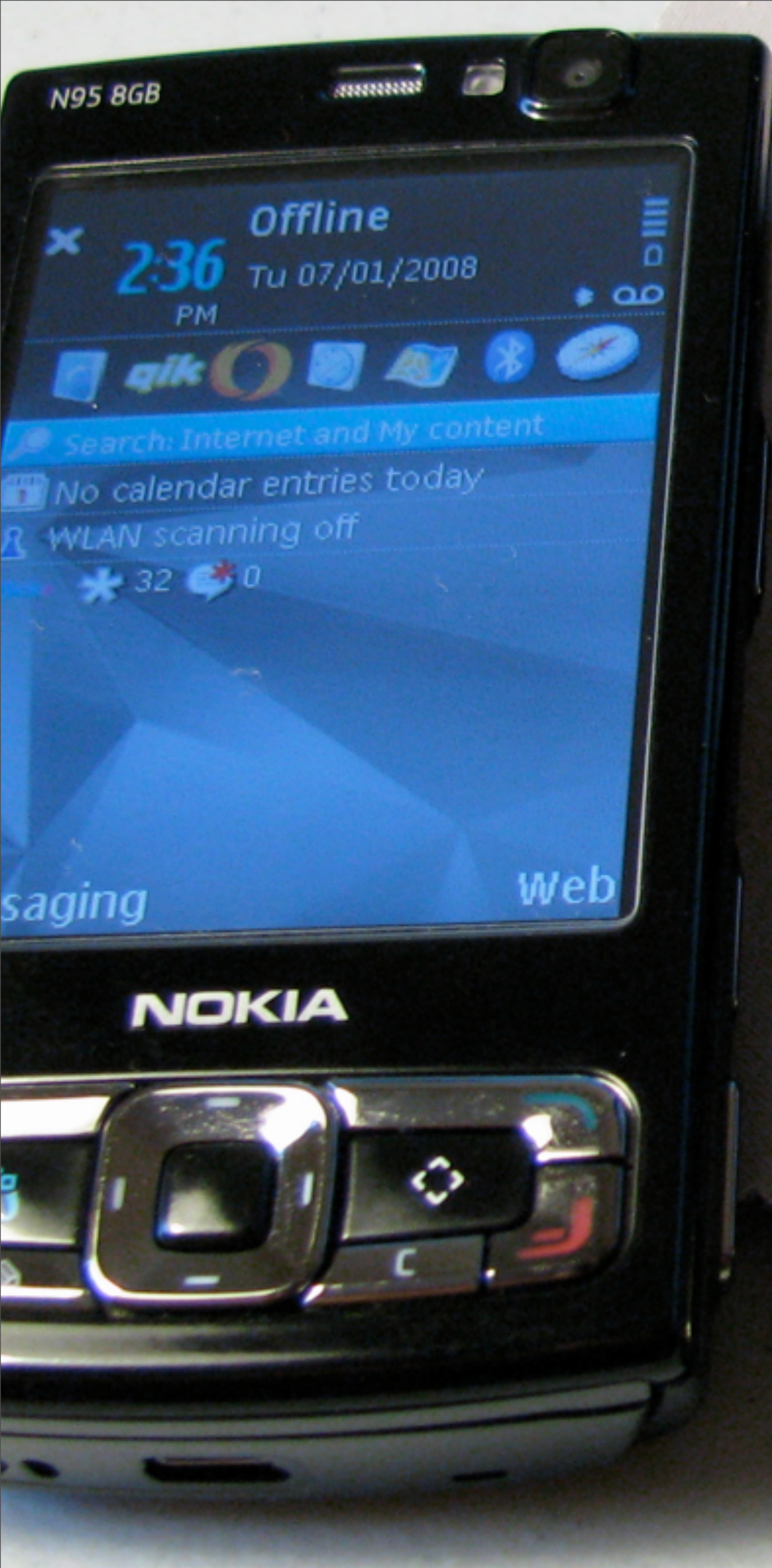
Responsive design principals

<matt.chadburn@theguardian.com>, Developer Manager, 2013

<http://github.com/guardian/frontend>

In the old days* screensize was
proportional to capability

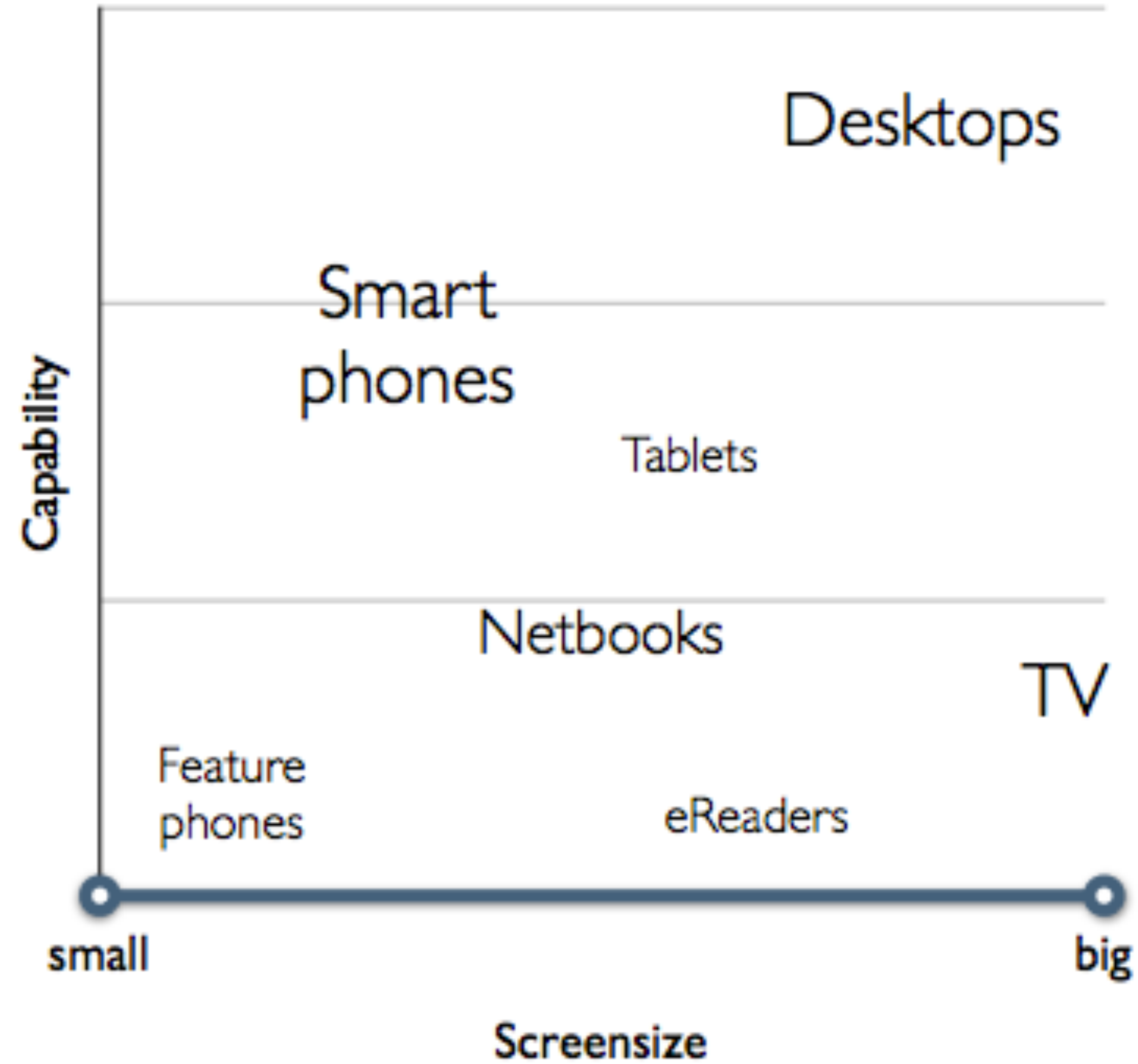
*2008



(c) markguim



(c) japp stronks



Viewports

Bandwidth

Capability

Interaction

be responsive to **Viewports**


```
$mq-breakpoints: (  
    (mobile          320px)  
    (tablet          740px)  
    (desktop         980px)  
    (wide            1300px)  
  
    // tweakpoints  
    (mobileLandscape 480px)  
    (desktopAd       810px)  
);
```


be responsive to **Bandwidth**


```
function isConnectionSlow() {  
    var connection = connection  
        || navigator.connection  
        || navigator.mozConnection;  
    if (connection.type === 3  
        || connection.type === 4  
        || /^[23]g$/.test(connection.type)  
    ) {  
    }  
}
```




2kb



25kb

be responsive to **Capability**


```
isModernBrowser: (  
    'querySelector'    in document  
&& 'addEventListener' in window  
&& 'localStorage'     in window  
&& (  
    ( 'XMLHttpRequest' in window  
&& 'withCredentials' in new XMLHttpRequest() )  
    || 'XDomainRequest' in window  
    ) ,  
    )
```

Just 90 companies
caused two-thirds
of man-made
global warming
emissions

 7h

 366

Antidepressant
use on the rise in
rich countries,
OECD finds

 7h

 433

be responsive to **Interaction**

Jill Treanor

The crisis at the Co-operative Group deepened on Tuesday when its chairman, Len Wardle, quit abruptly in the wake of allegations about drug taking by the former chairman of its embattled bank.

Wardle had intended to leave the post, which he has held since 2007, in May. But he will now go immediately, and is taking responsibility for appointing the disgraced Paul Flowers to chair the bank three years ago.

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Viewports

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