

Widgets

in theory and in practice



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A little story



Phones in
Japan

Galapagos



Widgets for desktop compatibility



Sound
familiar?

“Write once,
run anywhere”

```
graph TD; widget[widget] --- widget_runtime[widget runtime]; widget_runtime --- OS[OS]
```

widget

widget runtime

OS

Current runtimes

- Opera
- NetFront
- Aplx
- Obigo
- Borqs
- Samsung
- LG
- Nokia
- BlackBerry (sorta)

Not the
Holy Grail



Widgets 1

Web Apps 0

- No need to host
- Less insecurity
- X-domain AJAX
- Simpler UI
- Feedback & ratings

Widgets 0

Web Apps 1

- No auto-update
- No live stats
- No ad monetization
- Limited findability
- Isolation

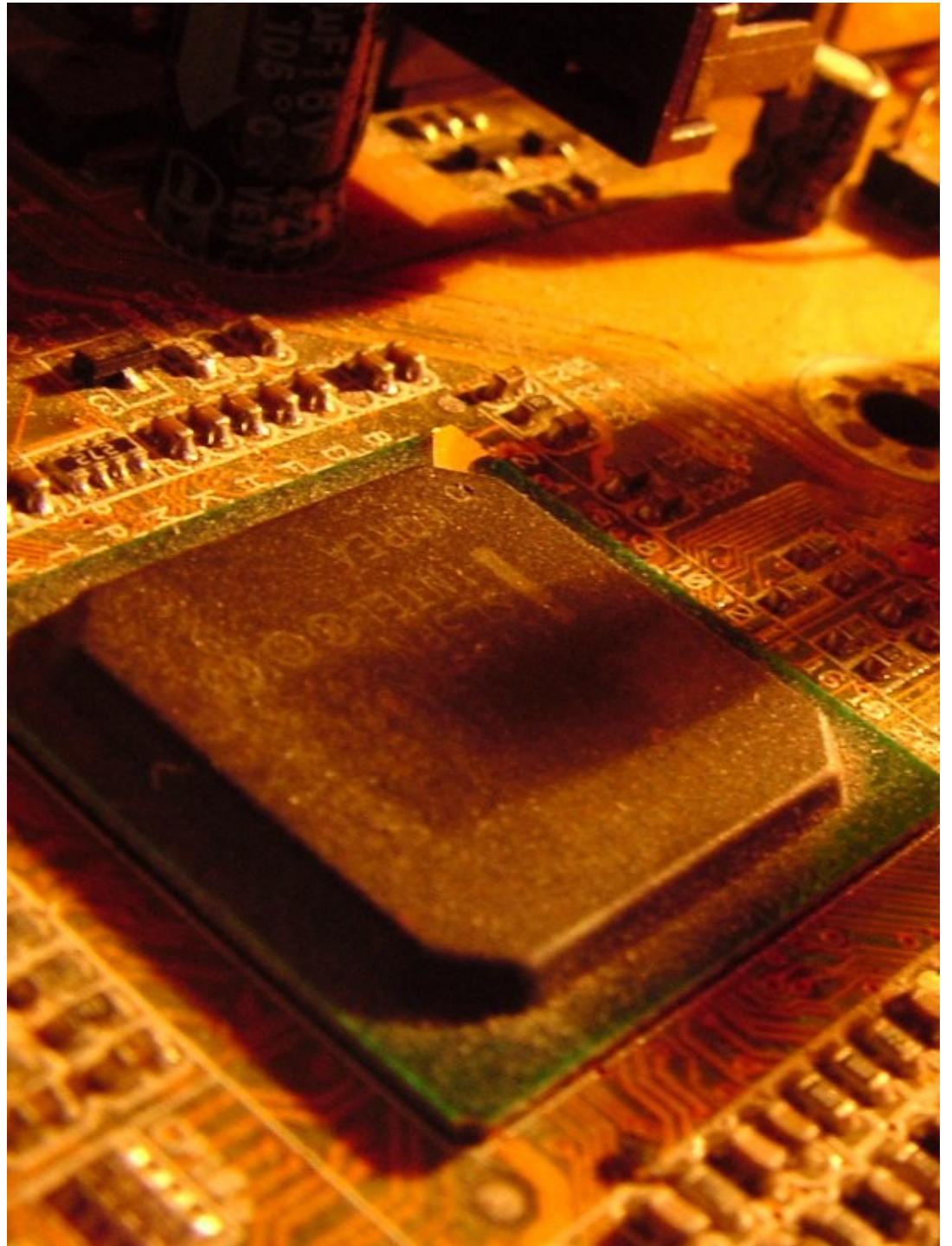
Just another
choice



Development

- Text editor
- Eclipse plugins
- WAC SDK
- KamiJS
- PhoneGap, please?

Dealing with devices



Screen sizes: Part I

Stay flexible

```
#content {  
    font-size: 1.1em;  
    margin: 0 auto;  
    width: 80%;  
}
```

Screen sizes: Part II

Media queries
are your friend.

```
// Puts the sidebar on  
// the right for screens  
// 768px or wider  
@media and  
(min-width: 768px) {  
    #sidebar {  
        float: right;  
    }  
}
```

Screen sizes: Part III

Media queries for JavaScript

```
// dev.opera.com/  
// articles/view/  
// media-query-library/  
testMediaQuery(  
    'screen and  
    (min-width: 768px)'  
) {  
    // Code for  
    // wide screens  
}
```

Distribution

Widget repositories

- widgets.opera.com
- WAC
- NetFront

Operator's stores

- BlackBerry
- Vodafone
- Others with WAC

Makin'
money



Final tips

- Start in a desktop browser
- Use a template or SDK
- Test on devices or at least an emulator
- Consider “hybrid” widgets

Resources

- widgets.opera.com
- [labs.opera.com/
news/2011/02/14/](http://labs.opera.com/news/2011/02/14/)
- [dev.opera.com/
articles/view/
opera-widgets-sdk/](http://dev.opera.com/articles/view/opera-widgets-sdk/)
- wacapps.net

Thank you!



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