Effectively Debugging Web Applications

Kelly Hutchins
Matt Priour
Overview

- Prevention tips
- Browser based debugging
- Mobile application debugging
- Gotchas
Text Editors

- ATOM
- Sublime Text
- Coda 2
- WebStorm
- Notepad++
- Brackets
- Visual Studio
- Komodo IDE
Prevention

- Code quality tools
  - JSLint
  - JSHint

- The trailing comma problem

```javascript
var map = new Map("mapDiv", {
  center: [-56.049, 38.485],
  zoom: 3,
  basemap: "streets",
});
```
IDE integration
Github JSAPI Resources
Beautifiers

- Jsbeautifier.org
- Cssbeautify.com
- Plug-ins
Task automation

• Automate tasks
  - Linting
  - Beautify
  - Minification
• Grunt
  - http://gruntjs.com
• Gulp
  - http://github.com/gulpjs/gulp
Developer tools

- Set breakpoints
- Log information
- View network traffic
- Inspect CSS
Get the tools

- Firefox + Firebug
- Chrome Developer Tools
- IE
CSS

- Inspect Elements
- Modify on the fly
- Save changes
Box Model
CSS Preprocessors
Network
Resources

- View application files
- Prettify
Storage

- IndexedDB
- Local Storage: https://developers.arc...
- Session Storage: https://developers.arc...
- Cookies

__utmb
__utmc
__utmz
_ga
_ga
Console

- Log info
- Write commands
Console Shortcuts

Esri JavaScript map center, zoom level and extent

Posted by bear on October 21st, 2013.

Several times a day, I need to find one or more of the following from a map on a web page

- The current center point
- The current zoom level
- The current extent

I want to make this easy. It makes sense for map center to be on /esri/js懂/Map/center/ on /esri/js懂/Map/zoom/ on /esri/js懂/Map/extent/ But no luck so far. Can I put something in the Gruntfile.js that can help me?
Breakpoint debugging and mobile

Matt Priour
Browser based mobile tools

- Emulation
- Touch
Geolocation
Mobile Browser

Kelly Hutchins
Mobile Browser Tools

• Emulate device
• Touch testing
• Responsive
Geolocation
Thank you…

• Please fill out the session survey:
  
  **First Offering ID:** 1334  
  **Second Offering ID:** 1427  

Online – [www.esri.com/ucsessionsurveys](http://www.esri.com/ucsessionsurveys)  
Paper – pick up and put in drop box