Debugging ArcGIS API for JavaScript Applications

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Agenda

• Coding Tools.

• Browser Developer Tools.
  - Inspect elements and handle CSS.
  - Breakpoints and blackboxing.
  - Take full advantage of the console.
  - Monitor network traffic.
Coding Tools

• JavaScript IDEs and Editors.

• Code quality tools.

• JavaScript beautifier.

• IDE integration.
Developer Tools
Debugging in the browser
Inspect elements and handle CSS
Demo

• Live changes to CSS.

• Esri CSS.

• CSS for widgets or themes.
Breakpoints and blackboxing

Demo

• Line of code breakpoints.

• Conditional breakpoints.

• Execution of asynchronous function calls.

• Blackbox ArcGIS JavaScript source files.
Take full advantage of the console

Demo

• Log to console.

• Retrieve formatted values.

• Execute JavaScript code snippet.
Monitor network traffic

Demo

• Isolate the issue on client or server.

• Common errors:
  - 400: Bad request.
  - 499: Token required.
  - 404: Not found.
  - 500: Internal server error.
  - 503: Service unavailable.
  - 403: Forbidden (Server URLs and referrers).
  - 402: Rate limiting.
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