

```
> { Cassian: "LUP", team: "leader", netzinkubator: "de" }
```

0) Common-sense
concepts.

there is [SIMPLY]

~~no~~ such thing

as a

bug free

app

learning

is a

>> process <<

--not

~~an event~~



JavaScript

without

a debugger

is like

going to **war**.

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JavaScript

without

a debugger


is like

going to **war**.

~~Blindfolded.~~

1) Chrome DevTools. Basic Usage.

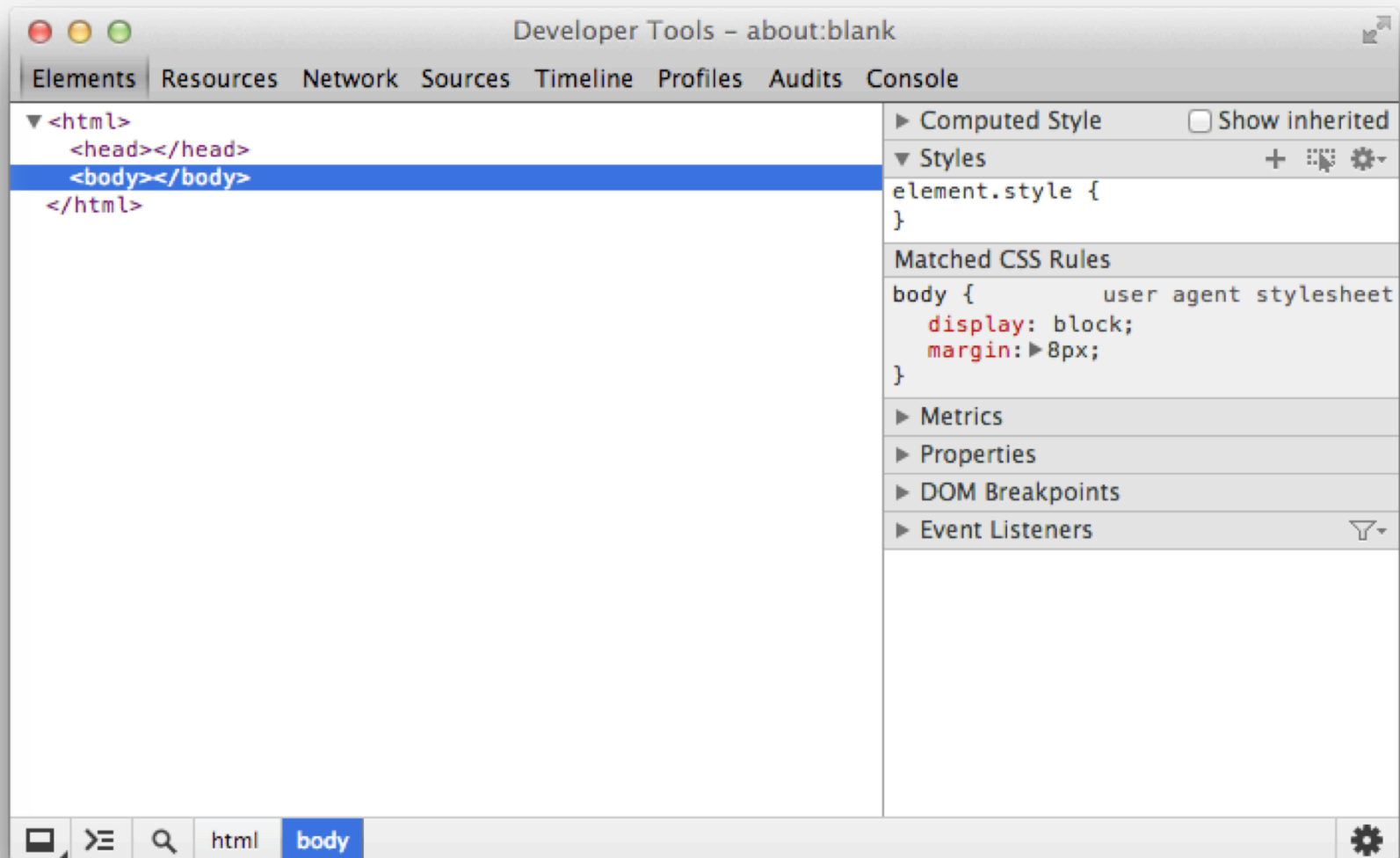
Getting there:

- › CTRL + SHIFT + J (COMMAND + OPTION + J)
- › Right Click + Inspect Element
- › Hotdog Menu () › Tools › Developer Tools

```
[ "HTML", "elements" ]
```

2) HTML Elements Hands-on.

[“HTML”, “elements”]



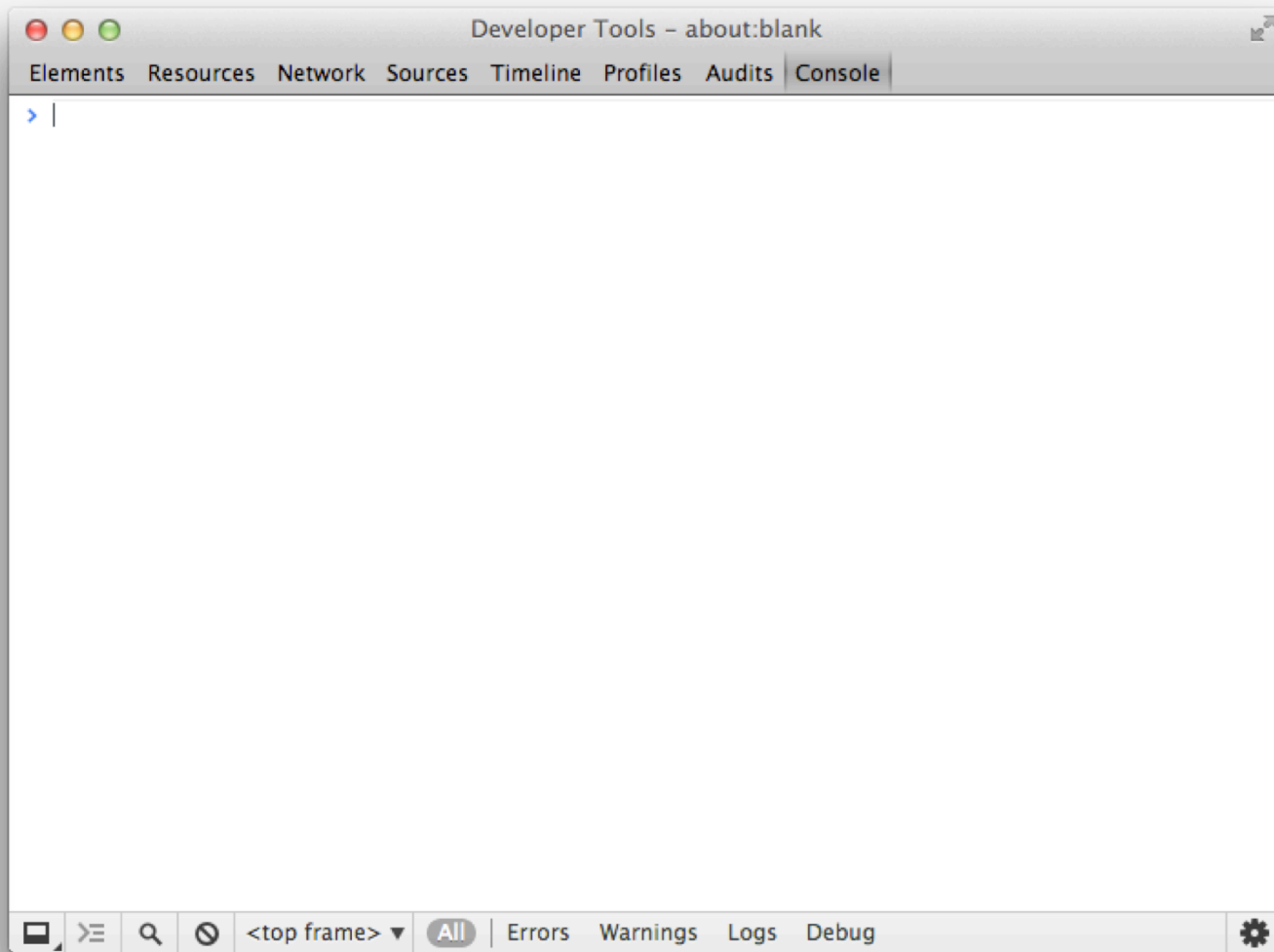
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```
[ "JS", "console" ]
```

3) JS Console Hands-on.

```
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```
[ "JS", "console" ]
```



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```
[ "JS", "sources" ]
```

4) JS Sources Hands-on.

```
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["JS", "sources"]

The screenshot shows the Chrome Developer Tools interface. The top bar indicates the page is 'Developer Tools - http://www.netzinkubator.de/'. The 'Sources' tab is active, showing a file named 'jslidernews.js?1322242706'. The source code is displayed in the left pane, and the right pane shows the 'Watch Expressions' panel with several expressions that are not available.

```
1 // JavaScript Document
2 /*! Copyright (c) 2009 Brandon Aaron (http://brandonaaron.net)
3 * Dual licensed under the MIT (http://www.opensource.org/licenses/mit-licen
4 * and GPL (http://www.opensource.org/licenses/gpl-license.php) licenses.
5 * Thanks to: http://adomas.org/javascript-mouse-wheel/ for some pointers.
6 * Thanks to: Mathias Bank(http://www.mathias-bank.de) for a scope bug fix.
7 *
8 * Version: 3.0.2
9 *
10 * Requires: 1.2.2+
11 */
12
13 (function($) {
14
15     var types = ['DOMMouseScroll', 'mousewheel'];
16
17     $.event.special.mousewheel = {
18         setup: function() {
19             if ( this.addEventListener )
20                 for ( var i=types.length; i; )
21                     this.addEventListener( types[--i], handler, false );
22             else
23                 this.onmousewheel = handler;
24         },
25
26         teardown: function() {
27             if ( this.removeEventListener )
28                 for ( var i=types.length; i; )
29                     this.removeEventListener( types[--i], handler, false );
30             else
31                 this.onmousewheel = null;
32         }
33     };
34
35     $.fn.extend({
36         mousewheel: function(fn) {
```

Watch Expressions:

- refReq.readyState: <not available>
- art: <not available>
- id: <not available>
- idmaterial: <not available>
- provider_array[k].prices_id.join(...

Call Stack

Scope Variables

Breakpoints

No Breakpoints

DOM Breakpoints

XHR Breakpoints +

Event Listener Breakpoints

Workers

> { Cassian: "LUP", team: "leader", netzinkubator: "de" }

```
[ "Ending", "thoughts" ]
```

> Google: "[error keywords] js"

(Stack Overflow, forums etc.)

> <https://developers.google.com/chrome-developer-tools/>

> <http://discover-devtools.codeschool.com/>

> <http://jsfiddle.net/>

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