

How Watir Works

Scripting Web Tests

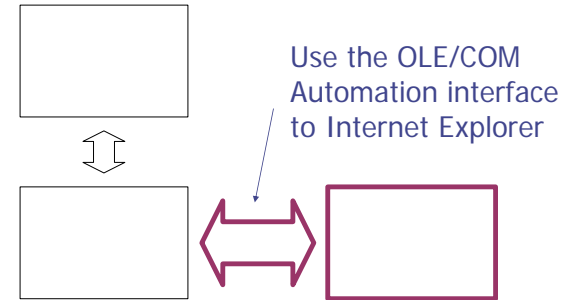
A One-Day Tutorial

July 2005

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Browser Automation



Tests drive the browser

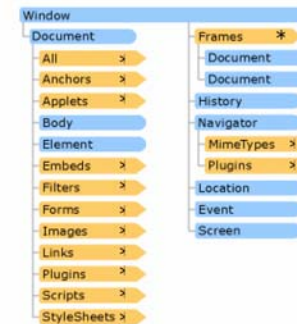
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Document Object Model

- ◆ "DOM"
- ◆ A standard model for elements of a web page
- ◆ Used by client-side JavaScript
- ◆ Supported by IE, Mozilla, FireFox and other browsers
- ◆ IE also provides access to the DOM via OLE/COM

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Document Object Model



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The DOM in Action



```
<!DOCTYPE html PUBLIC
  "-//W3C//DTD XHTML 1.0 Transitional//EN"
  "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html>
<head>
<title>Timeclock Login Page</title>
</head>
<body>
<div align="center">
  Timeclock Login Page
</div>
<p>
  Welcome to Timeclock. Please log in by typing your name and
  clicking the Login button.
</p>
<form action="login" method="get">
  <input type="text" value="" />
  <input type="submit" value="Login" />
</form>
<p>
  If you have never logged in before, simply type
  in a name and an account
  will be created for you.
</p>
<p>
  (There are no passwords in this program because it's just a demo.)
</p>
</body>
</html>
```

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How are tests created?



- ◆ View Source
- ◆ Watir's show methods in IRB
- ◆ DOM Inspector such as SpySmith

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Building Your Own



- ◆ Any decent language can use Internet Explorer's OLE/COM Automation interface
- ◆ There are equivalent interface mechanisms for other technologies

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