```
<!--

ajax1.html

Gets stock quote from quote1.php via Ajax, displaying result with alert().

David J. Malan
Computer Science E-75
Harvard Extension School

-->

<!DOCTYPE html PUBLIC
    "-//W3C//DTD XHTML 1.0 Transitional//EN"
    "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <script type="text/javascript">
    // <![CDATA[

        // an XMLHttpRequest
        var xhr = null;

        /*
         * void
         * quote()
         *
         * Gets a quote.
         */
        function quote()
        {
            // instantiate XMLHttpRequest object
            try
            {
                xhr = new XMLHttpRequest();
            }
            catch (e)
            {
                xhr = new ActiveXObject("Microsoft.XMLHTTP");
            }

            // handle old browsers
            if (xhr == null)
            {
                alert("Ajax not supported by your browser!");
                return;
            }

            // construct URL
            var url = "quote1.php?symbol=" + document.getElementById("symbol").value;

            // get quote
            xhr.onreadystatechange = handler;
            xhr.open("GET", url, true);
            xhr.send(null);
        }


        /*
         * void
         * handler()
         *
         * Handles the Ajax response.
         */
        function handler()
        {
            // only handle loaded requests
            if (xhr.readyState == 4)
            {
                if (xhr.status == 200)
                    alert(xhr.responseText);
                else
                    alert("Error with Ajax call!");
            }
        }

    // ]]>
    </script>
    <title></title>
  </head>
  <body>
    <form onsubmit="quote(); return false;">
      Symbol: <input id="symbol" type="text" />
      <br /><br />
      <input type="submit" value="Get Quote" />
    </form>
  </body>
</html>
```

```
<!--

ajax2.html

Gets stock quote from quote1.php via Ajax, embedding result in an input element.

David J. Malan
Computer Science E-75
Harvard Extension School

-->

<!DOCTYPE html PUBLIC
    "-//W3C//DTD XHTML 1.0 Transitional//EN"
    "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <script type="text/javascript">
    // <![CDATA[

        // an XMLHttpRequest
        var xhr = null;

        /*
         * void
         * quote()
         *
         * Gets a quote.
         */
        function quote()
        {
            // instantiate XMLHttpRequest object
            try
            {
                xhr = new XMLHttpRequest();
            }
            catch (e)
            {
                xhr = new ActiveXObject("Microsoft.XMLHTTP");
            }

            // handle old browsers
            if (xhr == null)
            {
                alert("Ajax not supported by your browser!");
                return;
            }

            // construct URL
            var url = "quote1.php?symbol=" + document.getElementById("symbol").value;

            // get quote
            xhr.onreadystatechange = handler;
            xhr.open("GET", url, true);
            xhr.send(null);
        }


        /*
         * void
         * handler()
         *
         * Handles the Ajax response.
         */
        function handler()
        {
            // only handle loaded requests
            if (xhr.readyState == 4)
            {
                if (xhr.status == 200)
                    document.getElementById("price").value = xhr.responseText;
                else
                    alert("Error with Ajax call!");
            }
        }

    // ]]>
    </script>
    <title></title>
  </head>
  <body>
    <form onsubmit="quote(); return false;">
      Symbol: <input id="symbol" type="text" />
      <br />
      Price: <input id="price" type="text" />
      <br /><br />
      <input type="submit" value="Get Quote" />
    </form>
  </body>
</html>
```

```
<!--

ajax3.html

Gets stock quote from quote1.php via Ajax, embedding result in page itself.

David J. Malan
Computer Science E-75
Harvard Extension School

-->

<!DOCTYPE html PUBLIC
    "-//W3C//DTD XHTML 1.0 Transitional//EN"
    "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <script type="text/javascript">
    // <![CDATA[

        // an XMLHttpRequest
        var xhr = null;

        /*
         * void
         * quote()
         *
         * Gets a quote.
         */
        function quote()
        {
            // instantiate XMLHttpRequest object
            try
            {
                xhr = new XMLHttpRequest();
            }
            catch (e)
            {
                xhr = new ActiveXObject("Microsoft.XMLHTTP");
            }

            // handle old browsers
            if (xhr == null)
            {
                alert("Ajax not supported by your browser!");
                return;
            }

            // construct URL
            var url = "quote1.php?symbol=" + document.getElementById("symbol").value;

            // get quote
            xhr.onreadystatechange = handler;
            xhr.open("GET", url, true);
            xhr.send(null);
        }


        /*
         * void
         * handler()
         *
         * Handles the Ajax response.
         */
        function handler()
        {
            // only handle loaded requests
            if (xhr.readyState == 4)
            {
                if (xhr.status == 200)
                    document.getElementById("price").innerHTML = xhr.responseText;
                else
                    alert("Error with Ajax call!");
            }
        }

    // ]]>
    </script>
    <title></title>
  </head>
  <body>
    <form onsubmit="quote(); return false;">
      Symbol: <input id="symbol" type="text" />
      <br />
      Price: <span id="price"><b>to be determined</b></span>
      <br /><br />
      <input type="submit" value="Get Quote" />
    </form>
  </body>
</html>
```

```
<!--

ajax4.html

Gets stock quote (plus day's low and high) from quote2.php via Ajax,
embedding result in a textarea.

David J. Malan
Computer Science E-75
Harvard Extension School

-->

<!DOCTYPE html PUBLIC
    "-//W3C//DTD XHTML 1.0 Transitional//EN"
    "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <script type="text/javascript">
    // <![CDATA[

        // an XMLHttpRequest
        var xhr = null;

        /*
         * void
         * quote()
         *
         * Gets a quote.
         */
        function quote()
        {
            // instantiate XMLHttpRequest object
            try
            {
                xhr = new XMLHttpRequest();
            }
            catch (e)
            {
                xhr = new ActiveXObject("Microsoft.XMLHTTP");
            }

            // handle old browsers
            if (xhr == null)
            {
                alert("Ajax not supported by your browser!");
                return;
            }

            // construct URL
            var url = "quote2.php?symbol=" + document.getElementById("symbol").value;

            // get quote
            xhr.onreadystatechange = handler;
            xhr.open("GET", url, true);
            xhr.send(null);
        }


        /*
         * void
         * handler()
         *
         * Handles the Ajax response.
         */
        function handler()
        {
            // only handle loaded requests
            if (xhr.readyState == 4)
            {
                if (xhr.status == 200)
                    document.getElementById("result").value = xhr.responseText;
                else
                    alert("Error with Ajax call!");
            }
        }

    // ]]>
    </script>
    <title></title>
  </head>
  <body>
    <form onsubmit="quote(); return false;">
      Symbol: <input id="symbol" type="text" />
      <br />
      <textarea cols="40" id="result" rows="3"></textarea>
      <br /><br />
      <input type="submit" value="Get Quote" />
    </form>
  </body>
</html>
```

```
<!--

ajax5.html

Gets stock quote (plus day's low and high) from quote3.php via Ajax,
embedding result in page itself.

David J. Malan
Computer Science E-75
Harvard Extension School

-->

<!DOCTYPE html PUBLIC
    "-//W3C//DTD XHTML 1.0 Transitional//EN"
    "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <script type="text/javascript">
    // <![CDATA[

        // an XMLHttpRequest
        var xhr = null;

        /*
         * void
         * quote()
         *
         * Gets a quote.
         */
        function quote()
        {
            // instantiate XMLHttpRequest object
            try
            {
                xhr = new XMLHttpRequest();
            }
            catch (e)
            {
                xhr = new ActiveXObject("Microsoft.XMLHTTP");
            }

            // handle old browsers
            if (xhr == null)
            {
                alert("Ajax not supported by your browser!");
                return;
            }

            // construct URL
            var url = "quote3.php?symbol=" + document.getElementById("symbol").value;

            // get quote
            xhr.onreadystatechange = handler;
            xhr.open("GET", url, true);
            xhr.send(null);
        }


        /*
         * void
         * handler()
         *
         * Handles the Ajax response.
         */
        function handler()
        {
            // only handle requests in "loaded" state
            if (xhr.readyState == 4)
            {
                if (xhr.status == 200)
                    document.getElementById("quote").innerHTML = xhr.responseText;
                else
                    alert("Error with Ajax call!");
            }
        }

    // ]]>
    </script>
    <title></title>
  </head>
  <body>
    <form onsubmit="quote(); return false;">
      Symbol: <input id="symbol" type="text" />
      <br /><br />
      <div id="quote"><b>quote will appear here!</b></div>
      <br /><br />
      <input type="submit" value="Get Quote" />
    </form>
  </body>
</html>
```

```
<!--

ajax6.html

Gets stock quote (plus day's low and high) from quote4.php via Ajax,
embedding result in page itself after indicating progress with text.

David J. Malan
Computer Science E-75
Harvard Extension School

-->

<!DOCTYPE html PUBLIC
    "-//W3C//DTD XHTML 1.0 Transitional//EN"
    "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <script type="text/javascript">
    // <![CDATA[

        // an XMLHttpRequest
        var xhr = null;

        /*
         * void
         * quote()
         *
         * Gets a quote.
         */
        function quote()
        {
            // instantiate XMLHttpRequest object
            try
            {
                xhr = new XMLHttpRequest();
            }
            catch (e)
            {
                xhr = new ActiveXObject("Microsoft.XMLHTTP");
            }

            // handle old browsers
            if (xhr == null)
            {
                alert("Ajax not supported by your browser!");
                return;
            }

            // construct URL
            var url = "quote4.php?symbol=" + document.getElementById("symbol").value;

            // inform user
            document.getElementById("quote").innerHTML = "Looking up symbol...";

            // get quote
            xhr.onreadystatechange = handler;
            xhr.open("GET", url, true);
            xhr.send(null);
        }


        /*
         * void
```

```
         * handler()
         *
         * Handles the Ajax response.
         */
        function handler()
        {
            // only handle requests in "loaded" state
            if (xhr.readyState == 4)
            {
                if (xhr.status == 200)
                    document.getElementById("quote").innerHTML = xhr.responseText;
                else
                    alert("Error with Ajax call!");
            }
        }

    // ]]>
    </script>
    <title></title>
  </head>
  <body>
    <form onsubmit="quote(); return false;">
      Symbol: <input id="symbol" type="text" />
      <br /><br />
      <div id="quote"><b>quote will appear here!</b></div>
      <br /><br />
      <input type="submit" value="Get Quote" />
    </form>
  </body>
</html>
```

```
<!--

ajax7.html

Gets stock quote (plus day's low and high) from quote4.php via Ajax,
embedding result in page itself after indicating progress with an
animated GIF.

David J. Malan
Computer Science E-75
Harvard Extension School

-->

<!DOCTYPE html PUBLIC
    "-//W3C//DTD XHTML 1.0 Transitional//EN"
    "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <script type="text/javascript">
    // <![CDATA[

        // an XMLHttpRequest
        var xhr = null;

        /*
         * void
         * quote()
         *
         * Gets a quote.
         */
        function quote()
        {
            // instantiate XMLHttpRequest object
            try
            {
                xhr = new XMLHttpRequest();
            }
            catch (e)
            {
                xhr = new ActiveXObject("Microsoft.XMLHTTP");
            }

            // handle old browsers
            if (xhr == null)
            {
                alert("Ajax not supported by your browser!");
                return;
            }

            // construct URL
            var url = "quote4.php?symbol=" + document.getElementById("symbol").value;

            // show progress
            document.getElementById("progress").style.display = "block";

            // get quote
            xhr.onreadystatechange = handler;
            xhr.open("GET", url, true);
            xhr.send(null);
        }


        /*
```

```
         * void
         * handler()
         *
         * Handles the Ajax response.
         */
        function handler()
        {
            // only handle requests in "loaded" state
            if (xhr.readyState == 4)
            {
                // hide progress
                document.getElementById("progress").style.display = "none";

                if (xhr.status == 200)
                    document.getElementById("quote").innerHTML = xhr.responseText;
                else
                    alert("Error with Ajax call!");
            }
        }

    // ]]>
    </script>
    <title></title>
  </head>
  <body>
    <form onsubmit="quote(); return false;">
      Symbol: <input id="symbol" type="text" />
      <br /><br />
      <div id="progress" style="display: none;">
        <img alt="Please Wait" src="pleasewait.gif" />
        <br /><br />
      </div>
      <div id="quote"></div>
      <br /><br />
      <input type="submit" value="Get Quote" />
    </form>
  </body>
</html>
```

```
<!--

ajax8.html

Gets stock quote (plus day's low and high) from quote5.php via Ajax,
embedding result in page itself.

David J. Malan
Computer Science E-75
Harvard Extension School

-->

<!DOCTYPE html PUBLIC
        "-//W3C//DTD XHTML 1.0 Transitional//EN"
        "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <script type="text/javascript">
    // <![CDATA[

        // an XMLHttpRequest
        var xhr = null;

        /*
         * void
         * quote()
         *
         * Gets a quote.
         */
        function quote()
        {
            // instantiate XMLHttpRequest object
            try
            {
                xhr = new XMLHttpRequest();
            }
            catch (e)
            {
                xhr = new ActiveXObject("Microsoft.XMLHTTP");
            }

            // handle old browsers
            if (xhr == null)
            {
                alert("Ajax not supported by your browser!");
                return;
            }

            // construct URL
            var url = "quote5.php?symbol=" + document.getElementById("symbol").value;

            // get quote
            xhr.onreadystatechange = handler;
            xhr.open("GET", url, true);
            xhr.send(null);
        }


        /*
         * void
         * handler()
         *
         * Handles the Ajax response.
         */
        function handler()
        {
            // only handle requests in "loaded" state
            if (xhr.readyState == 4)
            {
                if (xhr.status == 200)
                {
                    // get XML
                    var xml = xhr.responseXML;

                    // update price
                    var prices = xml.getElementsByTagName("price");
                    if (prices.length == 1)
                    {
                        var price = prices[0].firstChild.nodeValue;
                        document.getElementById("price").innerHTML = price;
                    }

                    // update low
                    var lows = xml.getElementsByTagName("low");
                    if (lows.length == 1)
                    {
                        var low = lows[0].firstChild.nodeValue;
                        document.getElementById("low").innerHTML = low;
                    }

                    // update high
                    var highs = xml.getElementsByTagName("high");
                    if (highs.length == 1)
                    {
                        var high = highs[0].firstChild.nodeValue;
                        document.getElementById("high").innerHTML = high;
                    }
                }
                else
                    alert("Error with Ajax call!");
            }
        }

    // ]]>
    </script>
    <title></title>
  </head>
  <body>
    <form onsubmit="quote(); return false;">
      Symbol: <input id="symbol" type="text" />
      <br /><br />
      Price: <span id="price"></span>
      <br />
      Low: <span id="low"></span>
      <br />
      High: <span id="high"></span>
      <br /><br />
      <input type="submit" value="Get Quote" />
    </form>
  </body>
</html>
```

```
<!--

ajax9.html

Gets stock quote from quote1.php via Ajax, inserting result into DOM.
Also displays new DOM nodes' XHTML in a textarea.

David J. Malan
Computer Science E-75
Harvard Extension School

-->

<!DOCTYPE html PUBLIC
    "-//W3C//DTD XHTML 1.0 Transitional//EN"
    "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <script type="text/javascript">
    // <![CDATA[

        // an XMLHttpRequest
        var xhr = null;

        /*
         * void
         * quote()
         *
         * Gets a quote.
         */
        function quote()
        {
            // instantiate XMLHttpRequest object
            try
            {
                xhr = new XMLHttpRequest();
            }
            catch (e)
            {
                xhr = new ActiveXObject("Microsoft.XMLHTTP");
            }

            // handle old browsers
            if (xhr == null)
            {
                alert("Ajax not supported by your browser!");
                return;
            }

            // get symbol
            var symbol = document.getElementById("symbol").value;

            // construct URL
            var url = "quote1.php?symbol=" + symbol;

            // get quote
            xhr.onreadystatechange =
            function()
            {
                // only handle loaded requests
                if (xhr.readyState == 4)
                {
                    if (xhr.status == 200)
                    {
                            // insert quote into DOM
                            var div = document.createElement("div");
                            var text = document.createTextNode(symbol + ": " + xhr.respons
eText);
                            div.appendChild(text);
                            document.getElementById("quotes").appendChild(div);

                            // show corresponding XHTML in textarea
                            document.getElementById("code").value = document.getElementByI
d("quotes").innerHTML;
                    }
                    else
                            alert("Error with Ajax call!");
                }
            }
            xhr.open("GET", url, true);
            xhr.send(null);
        }

    // ]]>
    </script>
    <title></title>
  </head>
  <body>
    <form onsubmit="quote(); return false;">
      Symbol: <input id="symbol" type="text" />
      <br /><br />
      <input type="submit" value="Get Quote" />
    </form>
    <br /><br />
    <div id="quotes"></div>
    <br /><br />
    <textarea cols="80" id="code" rows="16"></textarea>
  </body>
</html>
```

```
<!--

ajax10.html

Gets stock quote from quote6.php via Ajax, inserting result into DOM.
Also displays returned JSON in a textarea.

David J. Malan
Computer Science E-75
Harvard Extension School

-->

<!DOCTYPE html PUBLIC
    "-//W3C//DTD XHTML 1.0 Transitional//EN"
    "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <script type="text/javascript">
    // <![CDATA[

        // an XMLHttpRequest
        var xhr = null;

        /*
         * void
         * quote()
         *
         * Gets a quote.
         */
        function quote()
        {
            // instantiate XMLHttpRequest object
            try
            {
                xhr = new XMLHttpRequest();
            }
            catch (e)
            {
                xhr = new ActiveXObject("Microsoft.XMLHTTP");
            }

            // handle old browsers
            if (xhr == null)
            {
                alert("Ajax not supported by your browser!");
                return;
            }

            // get symbol
            var symbol = document.getElementById("symbol").value;

            // construct URL
            var url = "quote6.php?symbol=" + symbol;

            // get quote
            xhr.onreadystatechange =
            function()
            {
                // only handle loaded requests
                if (xhr.readyState == 4)
                {
                    if (xhr.status == 200)
                    {
                        // evaluate JSON
                        var quote = eval("(" + xhr.responseText + ")");

                        // show JSON in textarea
                        document.getElementById("code").value = xhr.responseText;

                        // insert quote into DOM
                        var div = document.createElement("div");
                        var text = document.createTextNode(symbol + ": " + quote.price
);

                        div.appendChild(text);
                        document.getElementById("quotes").appendChild(div);
                    }
                    else
                        alert("Error with Ajax call!");
                }
            }
            xhr.open("GET", url, true);
            xhr.send(null);
        }

    // ]]>
    </script>
    <title></title>
  </head>
  <body>
    <form onsubmit="quote(); return false;">
      Symbol: <input id="symbol" type="text" />
      <br /><br />
      <input type="submit" value="Get Quote" />
    </form>
    <br /><br />
    <div id="quotes"></div>
    <br /><br />
    <textarea cols="80" id="code" rows="16"></textarea>
  </body>
</html>
```

```
<!--

ajax11.html

Gets stock quote from quote7.php via Ajax, inserting result into DOM.
Also displays returned JSON in a textarea.

David J. Malan
Computer Science E-75
Harvard Extension School

-->

<!DOCTYPE html PUBLIC
    "-//W3C//DTD XHTML 1.0 Transitional//EN"
    "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <script type="text/javascript">
    // <![CDATA[

        // an XMLHttpRequest
        var xhr = null;

        /*
         * void
         * quote()
         *
         * Gets a quote.
         */
        function quote()
        {
            // instantiate XMLHttpRequest object
            try
            {
                xhr = new XMLHttpRequest();
            }
            catch (e)
            {
                xhr = new ActiveXObject("Microsoft.XMLHTTP");
            }

            // handle old browsers
            if (xhr == null)
            {
                alert("Ajax not supported by your browser!");
                return;
            }

            // get symbol
            var symbol = document.getElementById("symbol").value;

            // construct URL
            var url = "quote7.php?symbol=" + symbol;

            // get quote
            xhr.onreadystatechange =
            function()
            {
                // only handle loaded requests
                if (xhr.readyState == 4)
                {
                    if (xhr.status == 200)
                    {
                        // evaluate JSON
                        var quote = eval("(" + xhr.responseText + ")");

                        // show JSON in textarea
                        document.getElementById("code").value = xhr.responseText;

                        // insert quote into DOM
                        var div = document.createElement("div");
                        var text = document.createTextNode(symbol + ": " + quote.price
);

                        div.appendChild(text);
                        document.getElementById("quotes").appendChild(div);
                    }
                    else
                        alert("Error with Ajax call!");
                }
            }
            xhr.open("GET", url, true);
            xhr.send(null);
        }

    // ]]>
    </script>
    <title></title>
  </head>
  <body>
    <form onsubmit="quote(); return false;">
      Symbol: <input id="symbol" type="text" />
      <br /><br />
      <input type="submit" value="Get Quote" />
    </form>
    <br /><br />
    <div id="quotes"></div>
    <br /><br />
    <textarea cols="80" id="code" rows="16"></textarea>
  </body>
</html>
```

```
<!--

ajax12.html

Gets stock quote from quote7.php via Ajax, using YUI's Connection Manager,
embedding result in page itself.

David J. Malan
Computer Science E-75
Harvard Extension School

-->

<!DOCTYPE html PUBLIC
     "-//W3C//DTD XHTML 1.0 Transitional//EN"
     "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <script src="http://yui.yahooapis.com/2.5.0/build/yahoo/yahoo.js"></script>
    <script src="http://yui.yahooapis.com/2.5.0/build/event/event.js"></script>
    <script src="http://yui.yahooapis.com/2.5.0/build/connection/connection.js"></scri
pt>
    <script type="text/javascript">
    // <![CDATA[

        /*
         * void
         * quote()
         *
         * Gets a quote.
         */
        function quote()
        {
            // get symbol
            var symbol = document.getElementById("symbol").value;

            // construct URL
            var url = "quote7.php?symbol=" + symbol;

            // make call
            YAHOO.util.Connect.asyncRequest("GET", url, { success: handler });
        }


        /*
         * void
         * handler()
         *
         * Handles the Ajax response.
         */
        function handler(o)
        {
            // evaluate JSON
            var quote = eval("(" + o.responseText + ")");

            // insert quote into page
            document.getElementById("quote").innerHTML = quote.price;
        }

    // ]]>
    </script>
    <title></title>
  </head>
  <body>
    <form onsubmit="quote(); return false;">
      Symbol: <input id="symbol" type="text" />
      <br /><br />
      <div id="quote"><b>quote will appear here!</b></div>
      <br /><br />
      <input type="submit" value="Get Quote" />
    </form>
  </body>
</html>
```

```php
<?
    /**
     * quote1.php
     *
     * Outputs price of given symbol as text/html.
     *
     * David J. Malan
     * Computer Science E-75
     * Harvard Extension School
     */

    // get quote
    $handle = @fopen("http://download.finance.yahoo.com/d/quotes.csv?s={$_GET['symbol'
]}&f=ell1", "r");
    if ($handle !== FALSE)
    {
        $data = fgetcsv($handle);
        if ($data !== FALSE && $data[0] == "N/A")
            print($data[1]);
        fclose($handle);
    }
?>
```

```php
<?
    /**
     * quote2.php
     *
     * Outputs price, low, and high of given symbol as plain/text.
     *
     * David J. Malan
     * Computer Science E-75
     * Harvard Extension School
     */

    // send MIME type
    header("Content-type: text/plain");

    // try to get quote
    $handle = @fopen("http://download.finance.yahoo.com/d/quotes.csv?s={$_GET['symbol'
]}&f=el1lhg", "r");
    if ($handle !== FALSE)
    {
        $data = fgetcsv($handle);
        if ($data !== FALSE && $data[0] == "N/A")
        {
            print("Price: {$data[1]}\n");
            print("High: {$data[2]}\n");
            print("Low: {$data[3]}");
        }
        fclose($handle);
    }
?>
```

```php
<?
    /**
     * quote3.php
     *
     * Outputs price, low, and high of given symbol as text/html.
     *
     * David J. Malan
     * Computer Science E-75
     * Harvard Extension School
     */

    // try to get quote
    $handle = @fopen("http://download.finance.yahoo.com/d/quotes.csv?s={$_GET['symbol'
]}&f=el1hg", "r");
    if ($handle !== FALSE)
    {
        $data = fgetcsv($handle);
        if ($data !== FALSE && $data[0] == "N/A")
        {
            print("Price: {$data[1]}");
            print("<br />");
            print("High: {$data[2]}");
            print("<br />");
            print("Low: {$data[3]}");
        }
        fclose($handle);
    }
?>
```

```php
<?
    /**
     * quote3.php
     *
     * Outputs price, low, and high of given symbol as text/html, after
     * inserting an artificial delay.
     *
     * David J. Malan
     * Computer Science E-75
     * Harvard Extension School
     */


    // pretend server is slow
    sleep(5);

    // try to get quote
    $handle = @fopen("http://download.finance.yahoo.com/d/quotes.csv?s={$_GET['symbol'
]}&f=e1l1hg", "r");
    if ($handle !== FALSE)
    {
        $data = fgetcsv($handle);
        if ($data !== FALSE && $data[0] == "N/A")
        {
            print("Price: {$data[1]}");
            print("<br />");
            print("High: {$data[2]}");
            print("<br />");
            print("Low: {$data[3]}");
        }
        fclose($handle);
    }
?>
```

```php
<?
    /**
     * quote5.php
     *
     * Outputs price, low, and high of given symbol as text/xml.
     *
     * David J. Malan
     * Computer Science E-75
     * Harvard Extension School
     */

    // set MIME type
    header("Content-type: text/xml");

    // output root element's start tag
    print("<quote symbol='{$_GET['symbol']}'>");

    // try to get quote
    $handle = @fopen("http://download.finance.yahoo.com/d/quotes.csv?s={$_GET['symbol'
]}&f=el1lhg", "r");
    if ($handle !== FALSE)
    {
        $data = fgetcsv($handle);
        if ($data !== FALSE && $data[0] == "N/A")
        {
            print("<price>{$data[1]}</price>");
            print("<high>{$data[2]}</high>");
            print("<low>{$data[3]}</low>");
        }
        fclose($handle);
    }

    // output root element's end tag
    print("</quote>");
?>
```

```php
<?
    /**
     * quote6.php
     *
     * Outputs price, low, and high of given symbol in JSON format.
     *
     * David J. Malan
     * Computer Science E-75
     * Harvard Extension School
     */

    // set MIME type
    header("Content-type: application/json");

    // try to get quote
    $handle = @fopen("http://download.finance.yahoo.com/d/quotes.csv?s={$_GET['symbol'
]}&f=e1l1hg", "r");
    if ($handle !== FALSE)
    {
        $data = fgetcsv($handle);
        if ($data !== FALSE && $data[0] == "N/A")
        {
            if (is_numeric($data[1]))
                $price = $data[1];
            if (is_numeric($data[2]))
                $high = $data[2];
            if (is_numeric($data[3]))
                $low = $data[3];
        }
        fclose($handle);
    }

    // output JSON
    print("{ price: $price, high: $high, low: $low }");
?>
```

```php
<?
    /**
     * quote7.php
     *
     * Outputs price, low, and high of given symbol in JSON format
     * using PHP's JSON extension.
     *
     * David J. Malan
     * Computer Science E-75
     * Harvard Extension School
     */

    // defines a stock
    class Stock
    {
        public $price;
        public $high;
        public $low;
    }

    // set MIME type
    header("Content-type: application/json");

    // try to get quote
    $handle = @fopen("http://download.finance.yahoo.com/d/quotes.csv?s={$_GET['symbol'
]}&f=e1l1hg", "r");
    if ($handle !== FALSE)
    {
        $data = fgetcsv($handle);
        if ($data !== FALSE && $data[0] == "N/A")
        {
            $stock = new Stock();

            if (is_numeric($data[1]))
                $stock->price = $data[1];
            if (is_numeric($data[2]))
                $stock->high = $data[2];
            if (is_numeric($data[3]))
                $stock->low = $data[3];
        }
        fclose($handle);
    }

    // output JSON
    print(json_encode($stock));
?>
```