

## STUDENT ACTIVITY 4.2

MTA Course: Web Development Fundamentals  
Lesson name: Web Development Fundamentals 4.2  
Topic 4.1: Understand AJAX concepts.  
File name: WebDevFund\_SA\_4.2

**Lesson Objective:**

**4.2:** Understand AJAX concepts.

**Resources, software, and additional files needed for this lesson:**

- A Windows®-based PC with installed Web Development Software.  
Examples include: Microsoft® Visual Studio 2008®, or
  - Microsoft Visual Basic 2008®, Express Edition  
(<http://www.microsoft.com/express/downloads/#2008-Visual-Basic>)
  - Microsoft Visual C# 2008®, Express Edition  
(<http://www.microsoft.com/express/downloads/#2008-Visual-CS>)
  - Microsoft Visual Web Developer 2008, Express Edition  
(<http://www.microsoft.com/express/downloads/#2008-Visual-Web-Developer>)
- Use these sites for additional information:  
**Video lessons and references on using AJAX:**  
<http://www.asp.net/learn/ajax/>  
<http://www.asp.net/learn/ajax-videos/video-95.aspx>

**Directions to the student:**

Explore the tutorial at <http://www.asp.net/learn/Ajax/tutorial-01-cs.aspx> using Microsoft Visual Web Developer *or the Express version* to complete the *tutorial* activity. Answer the following questions.

**Questions:**

1. List problems with server-side processing that AJAX addresses.
2. List some of the benefits of using AJAX to do partial- page updates.
3. What is the role of the *ScriptManager* control?