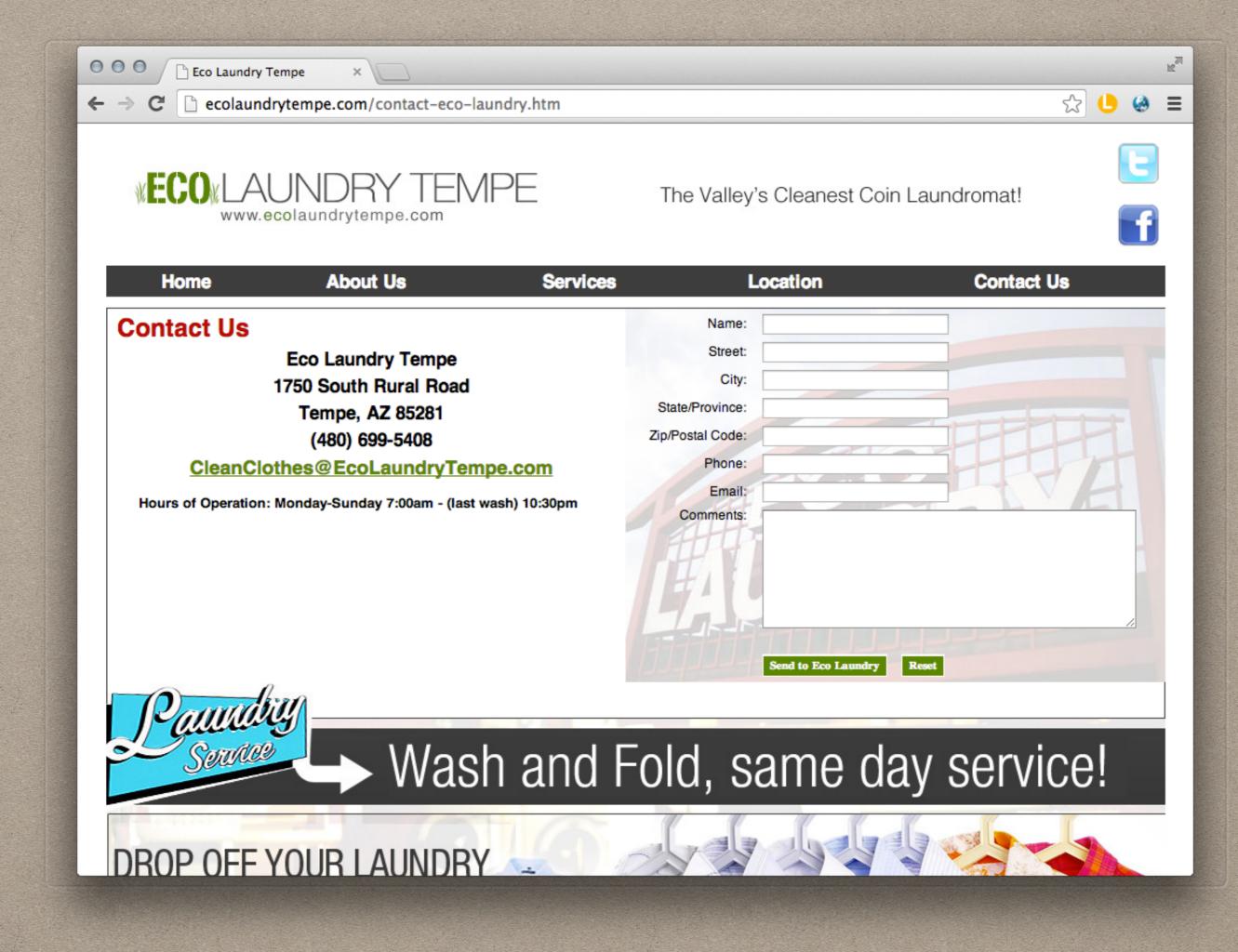
THE SEMANTIC WEB INTRODUCTION TO DIGITAL & COMPUTATIONAL METHODS IN THE HUMANITIES

"The Semantic Web is not a separate Web but an extension of the current one, in which information is given well-defined meaning, better enabling computers and people to work in cooperation."

> Tim Berners-Lee et al. (2001). The Semantic Web. Scientific American, 284(5):34-43

THE "TRADITIONAL" WEB

- HTML pages
- Developed for the human user
- Only minimal semantic markup of information
- No relationships between "things"



0	• • • view-source:ecolaundryten ×				R _M
<	C view-source:ecolaundrytempe.com/contact-eco-laundry.htm	숬	•	۲	≡
223	<pre><div id="xx2" style="position:absolute; top:1/2px; widtn:983px; left:upx"></div></pre>				
224 225 226	<pre></pre>				
227 228					
229 230	<pre></pre>				
231 232					
233 234	<pre><h2 align="center">Eco Laundry Tempe </h2></pre>				
235 236	1750 South Rural Road 				
237 238	Tempe, AZ 85281 				
239 240	(480) 699-5408 				
241 242	CleanClothes@EcoLaundryTempe.com				
243 244	<h3>Hours of Operation: Monday-Sunday 7:00am - (last wash) 10:30pm</h3>				
245 246					
247		repea	at:n	0-	
248					
249		"3">			
250 251					
252					
253					
254					
255					
256 257 258					
259 260	<pre><input id="fname" name="fname" size="30" type="text"/></pre>				
261					
262					
263					
264					
265 266					
267					

THE SEMANTIC WEB

- Software agents
- Retrieve information from the web
- Analyze information to make decisions
- Web services

ONTOLOGIES

- Hierarchy of concepts in a domain
- Specify properties of concepts
- Specify how concepts relate to each other
- Can be difficult in the humanities

RESOURCE DESCRIPTION FRAMEWORK (RDF)

- Form of XML
- Common format
- Information is encoded as triples
- Relies on URIs

1	<rdf:rdf< th=""></rdf:rdf<>
2	<pre>xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"</pre>
3	<pre>xmlns:ex="http://example.org/"></pre>
4	
5	<rdf:description rdf:about="http://embryo.asu.edu/pages/thomas-henry-</th></tr><tr><th></th><th>huxley-1825-1895"></rdf:description>
6	<pre><ex:topic rdf:resource="http://dbpedia.org/resource/</pre></th></tr><tr><th></th><th>Thomas_Henry_Huxley"></ex:topic></pre>
7	<ex:title>Thomas Henry Huxley (1825-1895)</ex:title>
8	
9	
10	<rdf:description rdf:about="http://dbpedia.org/resource/</th></tr><tr><th></th><th>Thomas_Henry_Huxley"></rdf:description>
11	<rdf:type rdf:resource="http://example.org/Person"></rdf:type>
12	<ex:name>Thomas Henry Huxley</ex:name>
13	
14	
15	