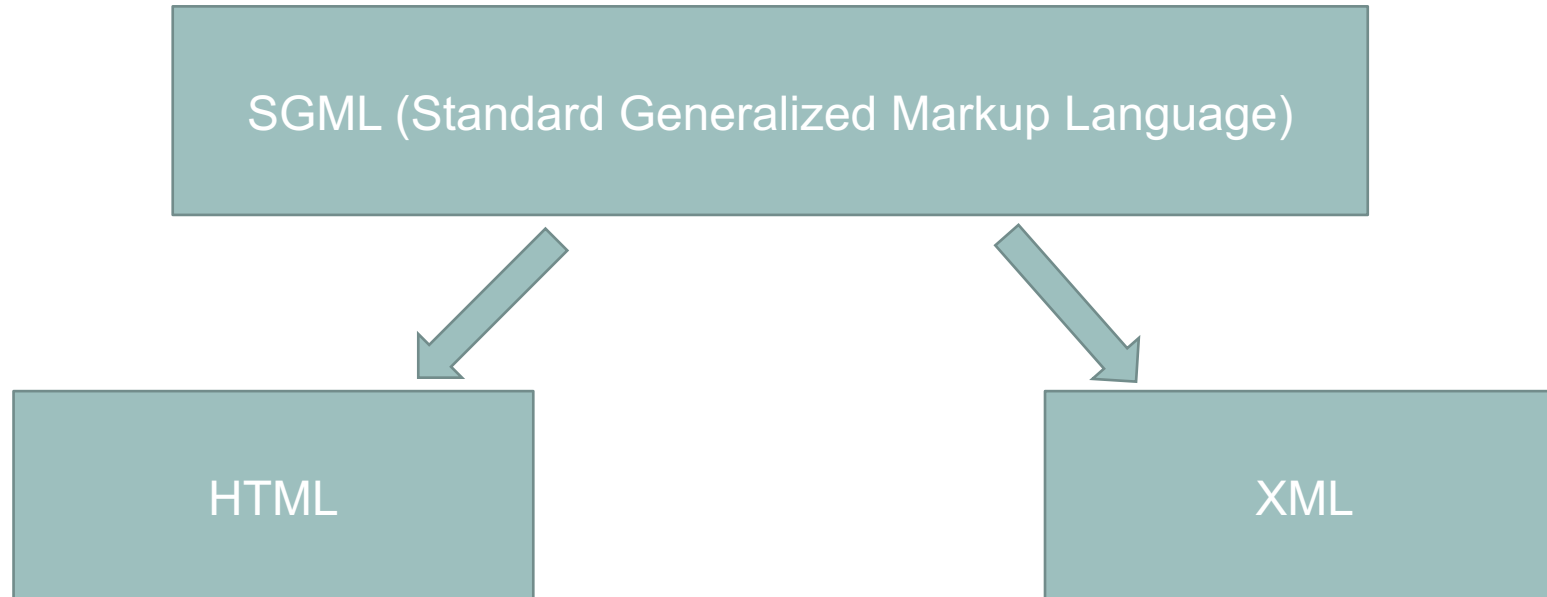


# What is XML?



# What is XML?



# What is XML?

XML (E**x**ensible **M**arkup **L**anguage)

- It is:

Technology concerned with the description and structuring of data

Not a language – but standard for creating languages that meet the XML criteria

Power comes from extensibility



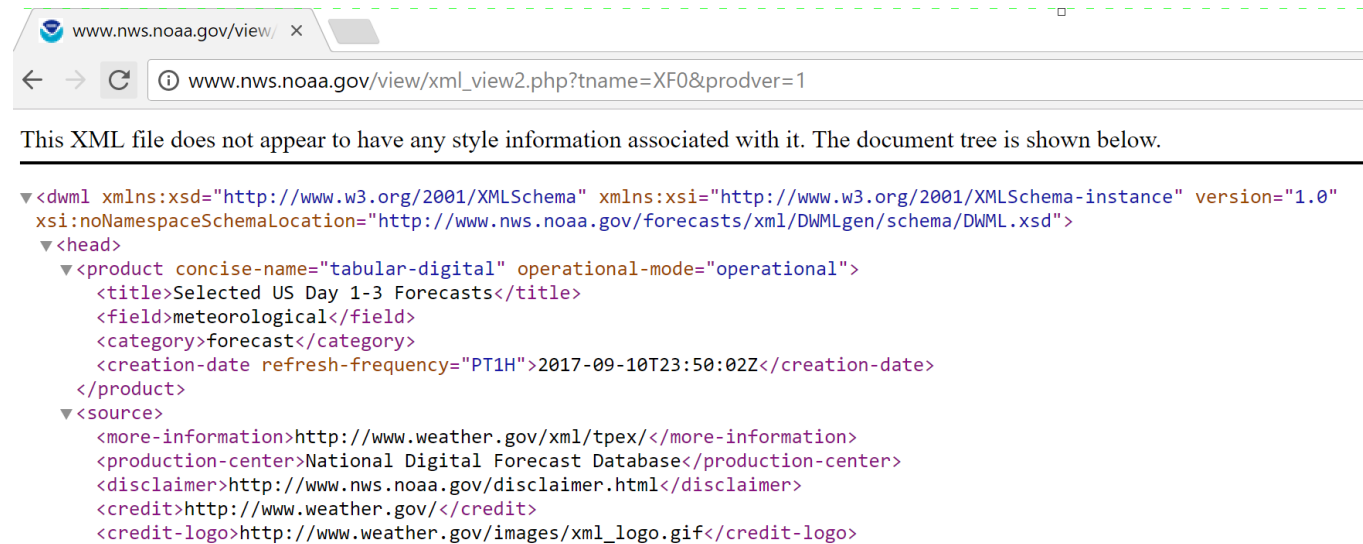
# What is XML?

- Each XML file is a text file
- File extension - .xml
- The standard is developed and maintained by the World Wide Web Consortium



# What is XML?

- What does it do?
- It doesn't do anything!

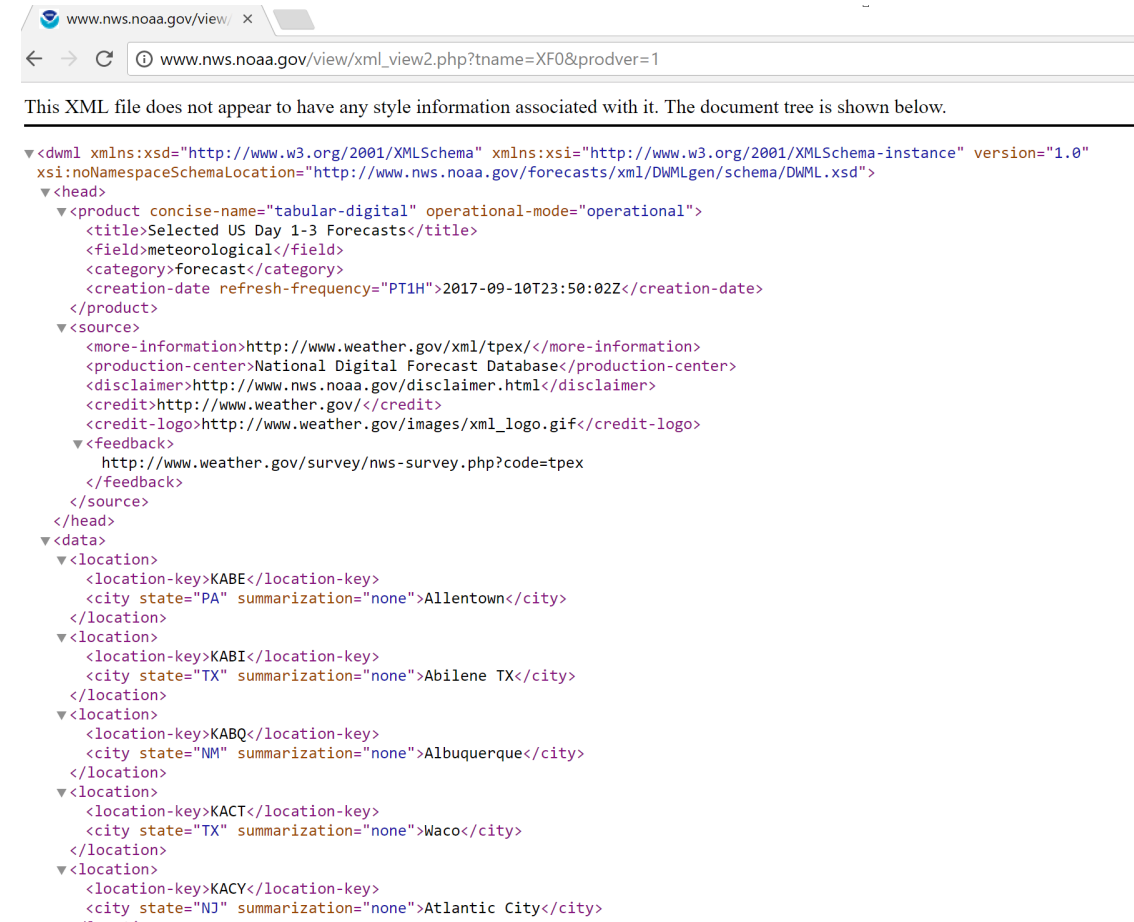


```
<dwml xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" version="1.0"
xsi:noNamespaceSchemaLocation="http://www.nws.noaa.gov/forecasts/xml/DWMLgen/schema/DWML.xsd">
  <head>
    <product concise-name="tabular-digital" operational-mode="operational">
      <title>Selected US Day 1-3 Forecasts</title>
      <field>meteorological</field>
      <category>forecast</category>
      <creation-date refresh-frequency="PT1H">2017-09-10T23:50:02Z</creation-date>
    </product>
    <source>
      <more-information>http://www.weather.gov/xml/tpex/</more-information>
      <production-center>National Digital Forecast Database</production-center>
      <disclaimer>http://www.nws.noaa.gov/disclaimer.html</disclaimer>
      <credit>http://www.weather.gov/</credit>
      <credit-logo>http://www.weather.gov/images/xml_logo.gif</credit-logo>
    </source>
  </head>
</dwml>
```



# What is XML?

- Where is it used?
  - Anywhere you need to exchange data:
    - Medical information
    - News Information
    - Weather Services
    - Financial Transactions
  - And more!



```
<dwml xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" version="1.0"
xsi:noNamespaceSchemaLocation="http://www.nws.noaa.gov/forecasts/xml/DWMLgen/schema/DWML.xsd">
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    <product concise-name="tabular-digital" operational-mode="operational">
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    </product>
    <source>
      <more-information>http://www.weather.gov/xml/tpex/</more-information>
      <production-center>National Digital Forecast Database</production-center>
      <disclaimer>http://www.nws.noaa.gov/disclaimer.html</disclaimer>
      <credit>http://www.weather.gov/</credit>
      <credit-logo>http://www.weather.gov/images/xml_logo.gif</credit-logo>
    </source>
  </head>
  <data>
    <location>
      <location-key>KABE</location-key>
      <city state="PA" summarization="none">Allentown</city>
    </location>
    <location>
      <location-key>KABI</location-key>
      <city state="TX" summarization="none">Abilene TX</city>
    </location>
    <location>
      <location-key>KABQ</location-key>
      <city state="NM" summarization="none">Albuquerque</city>
    </location>
    <location>
      <location-key>KACT</location-key>
      <city state="TX" summarization="none">Waco</city>
    </location>
    <location>
      <location-key>KACY</location-key>
      <city state="NJ" summarization="none">Atlantic City</city>
    </location>
  </data>
</dwml>
```



# Examples

- Let's Take a look at HTML and XML

