

Essential Skills. Lab 1

Ali Abdulmadzhidov

02 September 2016

1 Step by step DokuWiki installation and setup

1. Checking apache2 installed

```
service apache2 status
```

2. Installing DokuWiki

```
sudo apt install dokuwiki
```

3. Set password for user admin in wiki while installing

4. Realizing that we haven't enabled php in apache2 config.

```
nano /etc/apache2/apache2.conf  
LoadModule php7_module modules/libphp7.so
```

5. Realizing that we haven't got libapache2-mod-php and apache2 won't start without it.

```
sudo apt install libapache2-mod-php
```

6. Restarting apache2.

```
sudo service apache2 restart
```

7. Go to

```
http://st9.os3.su/dokuwiki/doku.php?id=federated_wiki
```

and add our first page about Federative Wiki

8. Go to

```
http://st9.os3.su/dokuwiki/
```

and add start page

2 XML entities creating

1. XML + DDT

```
<!DOCTYPE root
[
<!ELEMENT root (animal)>
<!ELEMENT animal (name,skin,voice)>
<!ELEMENT name (#PCDATA)>
<!ELEMENT skin (#PCDATA)>
<!ELEMENT voice (#PCDATA)>
<!ENTITY skin "have skin">
<!ENTITY fur "have fur">
<!ENTITY feathers "have feathers">
<!ENTITY bark "bark">
<!ENTITY mur "mur">
<!ENTITY bee "bee">
<!ENTITY brr "brr">
<!ENTITY mooo "mooo">
<!ENTITY oink "oink">
<!ENTITY whistle "whistle">
<!ENTITY no_voice "no_voice">
]>
<root>
<animal>
    <name>cow</name>
    <skin>&skin;</skin>
    <voice>&mooo;</voice>
</animal>
<animal>
    <name>sheep</name>
    <skin>&fur;</skin>
    <voice>&bee;</voice>
</animal>
<animal>
    <name>horse</name>
    <skin>&skin;</skin>
    <voice>&brr;</voice>
</animal>
<animal>
    <name>pig</name>
    <skin>&skin;</skin>
    <voice>&oink;</voice>
</animal>
<animal>
    <name>mockingbird</name>
    <skin>&feathers;</skin>
    <voice>&whistle;</voice>
</animal>
<animal>
    <name>eal</name>
    <skin>&feathers;</skin>
    <voice>&whistle;</voice>
</animal>
</root>
```

2. XS SCHEME

```
<?xml version="1.0" encoding="utf-8"?>
```

```

<xs:schema xmlns:xs="http://www.w3.org/2001/XMLSchema">
<xs:element name="root">
  <xs:complexType>
    <xs:sequence>
      <xs:element name="animal" maxOccurs="unbounded">
        <xs:complexType>
          <xs:sequence>
            <xs:element name="name" type="xs:string"/>
            <xs:element name="voice" type="xs:string"/>
            <xs:element name="skin" type="xs:string"/>
          </xs:sequence>
        </xs:complexType>
      </xs:element>
    </xs:sequence>
  </xs:complexType>
</xs:element>
</xs:schema>

```

XSLT and CSS

1. XSLT

```

<?xml version='1.0' encoding='UTF-8'?>
<xsl:stylesheet version='1.0' xmlns:xsl='http://www.w3.org/1999/XSL/Transform'>
<xsl:template match='/'>
  <html>
  <body>
    <h2>Animals</h2>
    <table border='1'>
      <tr>
        <th style='text-align:left'>Name</th>
        <th style='text-align:left'>Skin</th>
        <th style='text-align:left'>Voice</th>
      </tr>
      <xsl:for-each select='root/animal'>
        <tr>
          <td class='name-vl'><xsl:value-of select='name' /></td>
          <td class='skin-vl'><xsl:value-of select='skin' /></td>
          <td class='voice-vl'><xsl:value-of select='voice' /></td>
        </tr>
      </xsl:for-each>
    </table>
  </body>
</html>
</xsl:template>
</xsl:stylesheet>

```

2. CSS

```

td {
  background: #eecbb;
}
th {
  background: #ffff00;
}
.name-vl {
  color: #0f0;
}

```

```
}  
.name-vl:hover {  
    color: #00f;  
}  
.voice-vl {  
    color: #00f;  
}  
.voice-vl:hover {  
    color: #0f0;  
}  
.skin-vl {  
    color: #f00;  
}  
.skin-vl:hover {  
    color: #f0f;  
}
```

3. There you can see how does it work

<http://st9.os3.su/>