# Essential Skills. Lab 1

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# 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://localhost/dokuwiki/doku.php and add our first page about Federative Wiki

# 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">
          1>
          <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"</pre>
        <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: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>
    Name
       Skin
       Voice
      <xsl:for-each select='root/animal'>
      <xsl:value-of select='name'/>
       <xsl:value-of select='skin'/>
       <xsl:value-of select='voice'/>
      </xsl:for-each>
    </body>
   </html>
 </xsl:template>
 </xsl:stylesheet>
2. CSS
 td {
    bg-color: #ecb;
 }
 th {
    bg-color: red;
 }
 .name {
    color: #0f0;
 .name:hovered {
    color: #00f;
 .voice {
    color: #00f;
 .voice:hovered {
    color: #0f0;
 .skin {
    color: #f00;
 }
 .skin:hovered {
    color: #f0f;
```