



# JSON Example

This page shows examples of messages formatted using [JSON \(JavaScript Object Notation\)](#).

```
{
  "glossary": {
    "title": "example glossary",
    "GlossDiv": {
      "title": "S",
      "GlossList": {
        "GlossEntry": {
          "ID": "SGML",
          "SortAs": "SGML",
          "GlossTerm": "Standard Generalized Markup Language",
          "Acronym": "SGML",
          "Abbrev": "ISO 8879:1986",
          "GlossDef": {
            "para": "A meta-markup language, used to create markup languages such as DocBook.",
            "GlossSeeAlso": ["GML", "XML"]
          },
          "GlossSee": "markup"
        }
      }
    }
  }
}
```

The same text expressed as [XML](#):

```
<!DOCTYPE glossary PUBLIC "-//OASIS//DTD DocBook V3.1//EN">
<glossary><title>example glossary</title>
<glossdiv><title>S</title>
<glosslist>
  <glossentry id="SGML" sortas="SGML">
    <glossterm>Standard Generalized Markup Language</glossterm>
    <acronym>SGML</acronym>
    <abbrev>ISO 8879:1986</abbrev>
    <glossdef>
      <para>A meta-markup language, used to create markup
languages such as DocBook.</para>
      <glossseealso otherterm="GML">
        <glossseealso otherterm="XML">
      </glossdef>
      <glosssee otherterm="markup">
    </glossentry>
  </glosslist>
</glossdiv>
</glossary>
```

```
{ "menu": {
  "id": "file",
  "value": "File",
  "popup": {
    "menuitem": [
      { "value": "New", "onclick": "CreateNewDoc()" },
      { "value": "Open", "onclick": "OpenDoc()" },
      { "value": "Close", "onclick": "CloseDoc()" }
    ]
  }
}
```

The same text expressed as [XML](#):

```
<menu id="file" value="File">
  <popup>
    <menuitem value="New" onclick="CreateNewDoc()" />
    <menuitem value="Open" onclick="OpenDoc()" />
    <menuitem value="Close" onclick="CloseDoc()" />
  </popup>
</menu>
```

---

```
{ "widget": {
  "debug": "on",
  "window": {
    "title": "Sample Konfabulator Widget",
    "name": "main_window",
    "width": 500,
    "height": 500
  },
  "image": {
    "src": "Images/Sun.png",
    "name": "sun1",
    "hOffset": 250,
    "vOffset": 250,
    "alignment": "center"
  },
  "text": {
    "data": "Click Here",
    "size": 36,
    "style": "bold",
    "name": "text1",
    "hOffset": 250,
    "vOffset": 100,
    "alignment": "center",
    "onMouseUp": "sun1.opacity = (sun1.opacity / 100) * 90;"
  }
}
}}
```

The same text expressed as [XML](#):

```
<widget>
  <debug>on</debug>
  <window title="Sample Konfabulator Widget">
    <name>main_window</name>
    <width>500</width>
    <height>500</height>
  </window>
  <image src="Images/Sun.png" name="sun1">
    <hOffset>250</hOffset>
    <vOffset>250</vOffset>
    <alignment>center</alignment>
  </image>
  <text data="Click Here" size="36" style="bold">
    <name>text1</name>
    <hOffset>250</hOffset>
    <vOffset>100</vOffset>
    <alignment>center</alignment>
    <onMouseUp>
      sun1.opacity = (sun1.opacity / 100) * 90;
    </onMouseUp>
  </text>
</widget>
```

---

```
{ "web-app": {
  "servlet": [
    {
      "servlet-name": "cofaxCDS",
      "servlet-class": "org.cofax.cds.CDSServlet",
      "init-param": {
        "configGlossary:installationAt": "Philadelphia, PA",
        "configGlossary:adminEmail": "ksm@pobox.com",
        "configGlossary:poweredBy": "Cofax",
```

```

"configGlossary:poweredByIcon": "/images/cofax.gif",
"configGlossary:staticPath": "/content/static",
"templateProcessorClass": "org.cofax.WysiwygTemplate",
"templateLoaderClass": "org.cofax.FilesTemplateLoader",
"templatePath": "templates",
"templateOverridePath": "",
"defaultListTemplate": "listTemplate.htm",
"defaultFileTemplate": "articleTemplate.htm",
"useJSP": false,
"jspListTemplate": "listTemplate.jsp",
"jspFileTemplate": "articleTemplate.jsp",
"cachePackageTagsTrack": 200,
"cachePackageTagsStore": 200,
"cachePackageTagsRefresh": 60,
"cacheTemplatesTrack": 100,
"cacheTemplatesStore": 50,
"cacheTemplatesRefresh": 15,
"cachePagesTrack": 200,
"cachePagesStore": 100,
"cachePagesRefresh": 10,
"cachePagesDirtyRead": 10,
"searchEngineListTemplate": "forSearchEnginesList.htm",
"searchEngineFileTemplate": "forSearchEngines.htm",
"searchEngineRobotsDb": "WEB-INF/robots.db",
"useDataStore": true,
"dataStoreClass": "org.cofax.SqlDataStore",
"redirectionClass": "org.cofax.SqlRedirection",
"dataStoreName": "cofax",
"dataStoreDriver": "com.microsoft.jdbc.sqlserver.SQLServerDriver",
"dataStoreUrl": "jdbc:microsoft:sqlserver://LOCALHOST:1433;DatabaseName=goon",
"dataStoreUser": "sa",
"dataStorePassword": "dataStoreTestQuery",
"dataStoreTestQuery": "SET NOCOUNT ON;select test='test';",
"dataStoreLogFile": "/usr/local/tomcat/logs/datastore.log",
"dataStoreInitConns": 10,
"dataStoreMaxConns": 100,
"dataStoreConnUsageLimit": 100,
"dataStoreLogLevel": "debug",
"maxUrlLength": 500}},
{
  "servlet-name": "cofaxEmail",
  "servlet-class": "org.cofax.cds.EmailServlet",
  "init-param": {
    "mailHost": "mail",
    "mailHostOverride": "mail2"}},
{
  "servlet-name": "cofaxAdmin",
  "servlet-class": "org.cofax.cds.AdminServlet"},
{
  "servlet-name": "fileServlet",
  "servlet-class": "org.cofax.cds.FileServlet"},
{
  "servlet-name": "cofaxTools",
  "servlet-class": "org.cofax.cms.CofaxToolsServlet",
  "init-param": {
    "templatePath": "toolstemplates/",
    "log": 1,
    "logLocation": "/usr/local/tomcat/logs/CofaxTools.log",
    "logMaxSize": "",
    "dataLog": 1,
    "dataLogLocation": "/usr/local/tomcat/logs/dataLog.log",
    "dataLogMaxSize": "",
    "removePageCache": "/content/admin/remove?cache=pages&id=",
    "removeTemplateCache": "/content/admin/remove?cache=templates&id=",
    "fileTransferFolder": "/usr/local/tomcat/webapps/content/fileTransferFolder",
    "lookInContext": 1,
    "adminGroupID": 4,
    "betaServer": true}}},
"servlet-mapping": {
  "cofaxCDS": "/",
  "cofaxEmail": "/cofaxutil/aemail/*",
  "cofaxAdmin": "/admin/*",
  "fileServlet": "/static/*",

```

```
"cofaxTools": "/tools/*"},
"taglib": {
  "taglib-uri": "cofax.tld",
  "taglib-location": "/WEB-INF/tlds/cofax.tld"}}}
```

The same file expressed as [XML](#):

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<!DOCTYPE web-app
  PUBLIC "-//Sun Microsystems, Inc.//DTD Web Application 2.2//EN"
  "http://java.sun.com/j2ee/dtds/web-app_2.2.dtd">
<web-app>
  <servlet>
    <servlet-name>
      cofaxCDS
    </servlet-name>
    <servlet-class>
      org.cofax.cds.CDSServlet
    </servlet-class>

    <init-param>
      <param-name>configGlossary:installationAt</param-name>
      <param-value>Philadelphia, PA</param-value>
    </init-param>
    <init-param>
      <param-name>configGlossary:adminEmail</param-name>
      <param-value>ksm@pobox.com</param-value>
    </init-param>
    <init-param>
      <param-name>configGlossary:poweredBy</param-name>
      <param-value>Cofax</param-value>
    </init-param>
    <init-param>
      <param-name>configGlossary:poweredByIcon</param-name>
      <param-value>/images/cofax.gif</param-value>
    </init-param>
    <init-param>
      <param-name>configGlossary:staticPath</param-name>
      <param-value>/content/static</param-value>
    </init-param>

    <init-param>
      <param-name>templateProcessorClass</param-name>
      <param-value>org.cofax.WysiwygTemplate</param-value>
    </init-param>

    <init-param>
      <param-name>templateLoaderClass</param-name>
      <param-value>org.cofax.FilesTemplateLoader</param-value>
    </init-param>

    <init-param>
      <param-name>templatePath</param-name>
      <param-value>templates</param-value>
    </init-param>

    <init-param>
      <param-name>templateOverridePath</param-name>
      <param-value></param-value>
    </init-param>

    <init-param>
      <param-name>defaultListTemplate</param-name>
      <param-value>listTemplate.htm</param-value>
    </init-param>

    <init-param>
      <param-name>defaultFileTemplate</param-name>
      <param-value>articleTemplate.htm</param-value>
    </init-param>

    <init-param>
```

```
<param-name>useJSP</param-name>
<param-value>>false</param-value>
</init-param>

<init-param>
  <param-name>jspListTemplate</param-name>
  <param-value>listTemplate.jsp</param-value>
  </init-param>

  <init-param>
    <param-name>jspFileTemplate</param-name>
    <param-value>articleTemplate.jsp</param-value>
    </init-param>

  <init-param>
    <param-name>cachePackageTagsTrack</param-name>
    <param-value>200</param-value>
    </init-param>

  <init-param>
    <param-name>cachePackageTagsStore</param-name>
    <param-value>200</param-value>
    </init-param>

  <init-param>
    <param-name>cachePackageTagsRefresh</param-name>
    <param-value>60</param-value>
    </init-param>

  <init-param>
    <param-name>cacheTemplatesTrack</param-name>
    <param-value>100</param-value>
    </init-param>

  <init-param>
    <param-name>cacheTemplatesStore</param-name>
    <param-value>50</param-value>
    </init-param>

  <init-param>
    <param-name>cacheTemplatesRefresh</param-name>
    <param-value>15</param-value>
    </init-param>

  <init-param>
    <param-name>cachePagesTrack</param-name>
    <param-value>200</param-value>
    </init-param>

  <init-param>
    <param-name>cachePagesStore</param-name>
    <param-value>100</param-value>
    </init-param>

  <init-param>
    <param-name>cachePagesRefresh</param-name>
    <param-value>10</param-value>
    </init-param>

  <init-param>
    <param-name>cachePagesDirtyRead</param-name>
    <param-value>10</param-value>
    </init-param>

  <init-param>
    <param-name>searchEngineListTemplate</param-name>
    <param-value>forSearchEnginesList.htm</param-value>
    </init-param>

  <init-param>
    <param-name>searchEngineFileTemplate</param-name>
    <param-value>forSearchEngines.htm</param-value>
    </init-param>
```

```
<init-param>
  <param-name>searchEngineRobotsDb</param-name>
<param-value>WEB-INF/robots.db</param-value>
</init-param>

<init-param>
  <param-name>useDataStore</param-name>
<param-value>>true</param-value>
</init-param>

<init-param>
  <param-name>dataStoreClass</param-name>
<param-value>org.cofax.SqlDataStore</param-value>
</init-param>

  <init-param>
    <param-name>redirectionClass</param-name>
<param-value>org.cofax.SqlRedirection</param-value>
</init-param>
  <init-param>
    <param-name>dataStoreName</param-name>
<param-value>cofax</param-value>
</init-param>

  <init-param>
    <param-name>dataStoreDriver</param-name>
<param-value>com.microsoft.jdbc.sqlserver.SQLServerDriver</param-value>
</init-param>

  <init-param>
    <param-name>dataStoreUrl</param-name>
<param-value>jdbc:microsoft:sqlserver://LOCALHOST:1433;DatabaseName=goon</param-value>
</init-param>

  <init-param>
    <param-name>dataStoreUser</param-name>
<param-value>sa</param-value>
</init-param>

  <init-param>
    <param-name>dataStorePassword</param-name>
<param-value></param-value>
</init-param>

  <init-param>
    <param-name>dataStoreTestQuery</param-name>
<param-value>SET NOCOUNT ON;select test='test';</param-value>
</init-param>

  <init-param>
    <param-name>dataStoreLogFile</param-name>
<param-value>/usr/local/tomcat/logs/datastore.log</param-value>
</init-param>

  <init-param>
    <param-name>dataStoreInitConns</param-name>
<param-value>10</param-value>
</init-param>

  <init-param>
    <param-name>dataStoreMaxConns</param-name>
<param-value>100</param-value>
</init-param>

  <init-param>
    <param-name>dataStoreConnUsageLimit</param-name>
<param-value>100</param-value>
</init-param>
<init-param>
  <param-name>dataStoreLogLevel</param-name>
<param-value>debug</param-value>
</init-param>

<init-param>
```

```
        <param-name>maxUrlLength</param-name>
    <param-value>500</param-value>
    </init-param>

</servlet>

<servlet>
    <servlet-name>
        cofaxEmail
    </servlet-name>
    <servlet-class>
        org.cofax.cds.EmailServlet
    </servlet-class>

    <init-param>
        <param-name>mailHost</param-name>
    <param-value>mail1</param-value>
    </init-param>

    <init-param>
        <param-name>mailHostOverride</param-name>
    <param-value>mail2</param-value>
    </init-param>
</servlet>

<servlet>
    <servlet-name>
        cofaxAdmin
    </servlet-name>
    <servlet-class>
        org.cofax.cds.AdminServlet
    </servlet-class>
</servlet>

<servlet>
    <servlet-name>
        fileServlet
    </servlet-name>
    <servlet-class>
        org.cofax.cds.FileServlet
    </servlet-class>
</servlet>

<servlet>
    <servlet-name>
        cofaxTools
    </servlet-name>
    <servlet-class>
        org.cofax.cms.CofaxToolsServlet
    </servlet-class>

    <init-param>
        <param-name>templatePath</param-name>
        <param-value>toolstemplates/</param-value>
    </init-param>

    <init-param>
        <param-name>log</param-name>
        <param-value>1</param-value>
    </init-param>

    <init-param>
        <param-name>logLocation</param-name>
        <param-value>/usr/local/tomcat/logs/CofaxTools.log</param-value>
    </init-param>

    <init-param>
        <param-name>logMaxSize</param-name>
        <param-value></param-value>
    </init-param>

    <init-param>
        <param-name>dataLog</param-name>
        <param-value>1</param-value>
    </init-param>
</servlet>
```

```
</init-param>

<init-param>
  <param-name>dataLogLocation</param-name>
  <param-value>/usr/local/tomcat/logs/dataLog.log</param-value>
</init-param>

<init-param>
  <param-name>dataLogMaxSize</param-name>
  <param-value></param-value>
</init-param>

<init-param>
  <param-name>removePageCache</param-name>
  <param-value>/content/admin/remove?cache=pages&id=</param-value>
</init-param>

<init-param>
  <param-name>removeTemplateCache</param-name>
  <param-value>/content/admin/remove?cache=templates&id=</param-value>
</init-param>

<init-param>
  <param-name>fileTransferFolder</param-name>
  <param-value>/usr/local/tomcat/webapps/content/fileTransferFolder</param-value>
</init-param>

<init-param>
  <param-name>lookInContext</param-name>
  <param-value>1</param-value>
</init-param>

<init-param>
  <param-name>adminGroupID</param-name>
  <param-value>4</param-value>
</init-param>

<init-param>
  <param-name>betaServer</param-name>
  <param-value>true</param-value>
</init-param>

</servlet>

<servlet-mapping>
  <servlet-name>
    cofaxCDS
  </servlet-name>
  <url-pattern>
    /
  </url-pattern>
</servlet-mapping>

<servlet-mapping>
  <servlet-name>
    cofaxEmail
  </servlet-name>
  <url-pattern>
    /cofaxutil/aemail/*
  </url-pattern>
</servlet-mapping>

<servlet-mapping>
  <servlet-name>
    cofaxAdmin
  </servlet-name>
  <url-pattern>
    /admin/*
  </url-pattern>
</servlet-mapping>

<servlet-mapping>
  <servlet-name>
    fileServlet
```



```

        </servlet-name>
        <url-pattern>
        /static/*
        </url-pattern>
    </servlet-mapping>

<servlet-mapping>
    <servlet-name>
    cofaxTools
    </servlet-name>
    <url-pattern>
    /tools/*
    </url-pattern>
</servlet-mapping>

<taglib>
    <taglib-uri>cofax.tld</taglib-uri>
    <taglib-location>/WEB-INF/tlds/cofax.tld</taglib-location>
</taglib>

</web-app>

```

---

The action and label values only need to be provided if they are not the same as the id.

```

{"menu": {
  "header": "SVG Viewer",
  "items": [
    {"id": "Open"},
    {"id": "OpenNew", "label": "Open New"},
    null,
    {"id": "ZoomIn", "label": "Zoom In"},
    {"id": "ZoomOut", "label": "Zoom Out"},
    {"id": "OriginalView", "label": "Original View"},
    null,
    {"id": "Quality"},
    {"id": "Pause"},
    {"id": "Mute"},
    null,
    {"id": "Find", "label": "Find..."},
    {"id": "FindAgain", "label": "Find Again"},
    {"id": "Copy"},
    {"id": "CopyAgain", "label": "Copy Again"},
    {"id": "CopySVG", "label": "Copy SVG"},
    {"id": "ViewSVG", "label": "View SVG"},
    {"id": "ViewSource", "label": "View Source"},
    {"id": "SaveAs", "label": "Save As"},
    null,
    {"id": "Help"},
    {"id": "About", "label": "About Adobe CVG Viewer..."}
  ]
}}

```

The same message expressed as [XML](#):

```

<menu>
  <header>Adobe SVG Viewer</header>
  <item action="Open" id="Open">Open</item>
  <item action="OpenNew" id="OpenNew">Open New</item>
  <separator/>
  <item action="ZoomIn" id="ZoomIn">Zoom In</item>
  <item action="ZoomOut" id="ZoomOut">Zoom Out</item>
  <item action="OriginalView" id="OriginalView">Original View</item>
  <separator/>
  <item action="Quality" id="Quality">Quality</item>
  <item action="Pause" id="Pause">Pause</item>
  <item action="Mute" id="Mute">Mute</item>
  <separator/>
  <item action="Find" id="Find">Find...</item>
  <item action="FindAgain" id="FindAgain">Find Again</item>
  <item action="Copy" id="Copy">Copy</item>
  <item action="CopyAgain" id="CopyAgain">Copy Again</item>
  <item action="CopySVG" id="CopySVG">Copy SVG</item>

```

```
<item action="ViewSVG" id="ViewSVG">View SVG</item>
<item action="ViewSource" id="ViewSource">View Source</item>
<item action="SaveAs" id="SaveAs">Save As</item>
<separator/>
<item action="Help" id="Help">Help</item>
<item action="About" id="About">About Adobe CVG Viewer...</item>
</menu>
```