

**TuberXpert How to add a language**

***Release 1.0***

**Herzig Melvyn**

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# 1) Get the ISO 639-1 code[[1]](#footnote-1) of the language to add

For example, if you try to add German, the corresponding code is "de".

# 2) Duplicate an existing translations file and rename it with the previous code

Go in *“dev/tucuxi-tuberxpert/language*”, copy one of the files and rename it *“de.xml”*.

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| --- | --- | --- |
|  |  |  |

# 3) Open the new file and change all translations to the new language

For example, with the *“maximum\_dosage\_warning”* translation.

|  |
| --- |
| <translation key="maximum\_dosage\_warning">  Maximum recommended dosage reached  </translation> |
|  |
| <translation key="maximum\_dosage\_warning">  Die empfohlene Höchstdosis ist erreicht  </translation> |

# 4) Add the ISO code in the XSD of the query for the xpertRequest element

In “*dev/tucuxi-tuberxpert/xml/query/tuberxpert\_computing\_query.xsd”.*

|  |  |  |
| --- | --- | --- |
| <xs:complexType name="xpertRequestType">  *[…]* | | |
| <xs:element name="language">   <xs:simpleType>    <xs:restriction  base="xs:string">     <xs:enumeration value="en" />     <xs:enumeration value="fr" />    </xs:restriction>   </xs:simpleType>  </xs:element> |  | xs:element name="language">   <xs:simpleType>    <xs:restriction   base="xs:string">     <xs:enumeration value="en" />     <xs:enumeration value="fr" />     <xs:enumeration value="de" />    </xs:restriction>   </xs:simpleType>  </xs:element> |

# 5) Add the ISO code in the XSD of the query for the report language element

In “*dev/tucuxi-tuberxpert/xml/response/tuberxpert\_computing\_response.xsd”.*

|  |  |  |
| --- | --- | --- |
| <xs:element name="tuberxpertResult">  *[…]* | | |
| <xs:element name="language">   <xs:simpleType>    <xs:restriction  base="xs:string">     <xs:enumeration value="en" />     <xs:enumeration value="fr" />    </xs:restriction>   </xs:simpleType>  </xs:element> |  | xs:element name="language">   <xs:simpleType>    <xs:restriction   base="xs:string">     <xs:enumeration value="en" />     <xs:enumeration value="fr" />     <xs:enumeration value="de" />    </xs:restriction>   </xs:simpleType>  </xs:element> |

# 6) Add the language in the language enumeration

In the TuberXpert Qt project, go in *“tuberxpert/query/xpertquerydata.h”.*

|  |  |  |
| --- | --- | --- |
| *enum* *class* **OutputLang**  {  *ENGLISH* = 0,  *FRENCH*  }; |  | *enum* *class* **OutputLang**  {  *ENGLISH* = 0,  *FRENCH*   *DEUTSCH*  }; |

# 7) Update the TuberXpert query importer

In the TuberXpert Qt project, go in *“tuberxpert/query/xpertqueryimport.cpp”.*

|  |
| --- |
| In XpertQueryImport::**createXpertRequesData** |
| *if* (languageStr == "en") {  language = OutputLang::*ENGLISH*;  } *else* *if* (languageStr == "fr") {  language = OutputLang::*FRENCH*;  } *else* {  setStatus(Status::*Error*, "Unknown output language");  } |
|  |
| *if* (languageStr == "en") {  language = OutputLang::*ENGLISH*;  } *else* *if* (languageStr == "fr") {  language = OutputLang::*FRENCH*;  } *else* *if* (languageStr == "de") {  language = OutputLang::*DEUTSCH*;  } *else* {  setStatus(Status::*Error*, "Unknown output language");  } |

# 8) Update the TuberXpert conversion utility method

In the TuberXpert Qt project, go in *“tuberxpert/utils/xpertutils.cpp”.*

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| --- |
| In **outputLangToString** |
| *switch* (\_lang) {  *case* OutputLang::*ENGLISH* : *return* "en";  *case* OutputLang::*FRENCH* : *return* "fr";  *default* : *throw* LanguageException("Unknown language");  } |
|  |
| *switch* (\_lang) {  *case* OutputLang::*ENGLISH* : *return* "en";  *case* OutputLang::*FRENCH* : *return* "fr";  *case* OutputLang::*DEUTSCH* : *return* "de";  *default* : *throw* LanguageException("Unknown language");  } |

# 9) Update the TuberXpert utility test

In the TuberXpert Qt test project, go in *“sources/tests/test\_xpertutils.cpp”.*

In:

TestXpertUtils::**outputLangToString\_behavesCorrectly\_withAllOutputLangAndUnsupportedValues**

Add the line:

fructose\_assert\_eq(Xpert::outputLangToString(Xpert::OutputLang::*DEUTSCH*), "de");

1. <https://www.loc.gov/standards/iso639-2/php/code_list.php> [↑](#footnote-ref-1)