

The ISE, TEI and XML Encoding

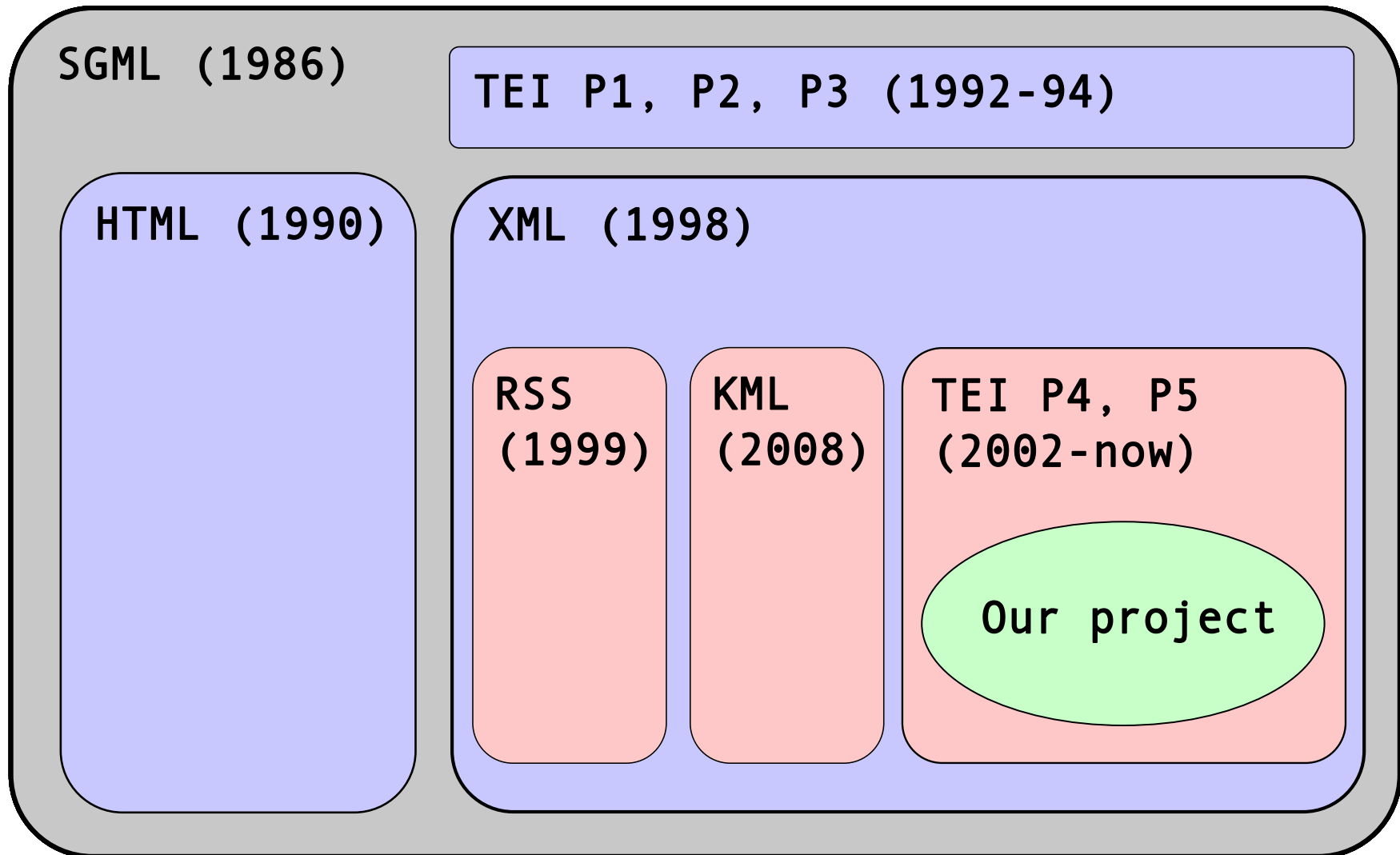
The ISE is contemplating moving to TEI

- Why?
- What are the implications for editors?
- How will it help them?
- How hard will it be?
- What tools are available and how do they work?
- What are the drawbacks?
- What more can we do?

What makes a good encoding system?

- intelligible
- precise
- nice (fine distinctions)
- concise
- comprehensive
- unambiguous
- well-supported with tools for editors
- open, standardized, documented, maintained...

Encoding texts: where TEI fits



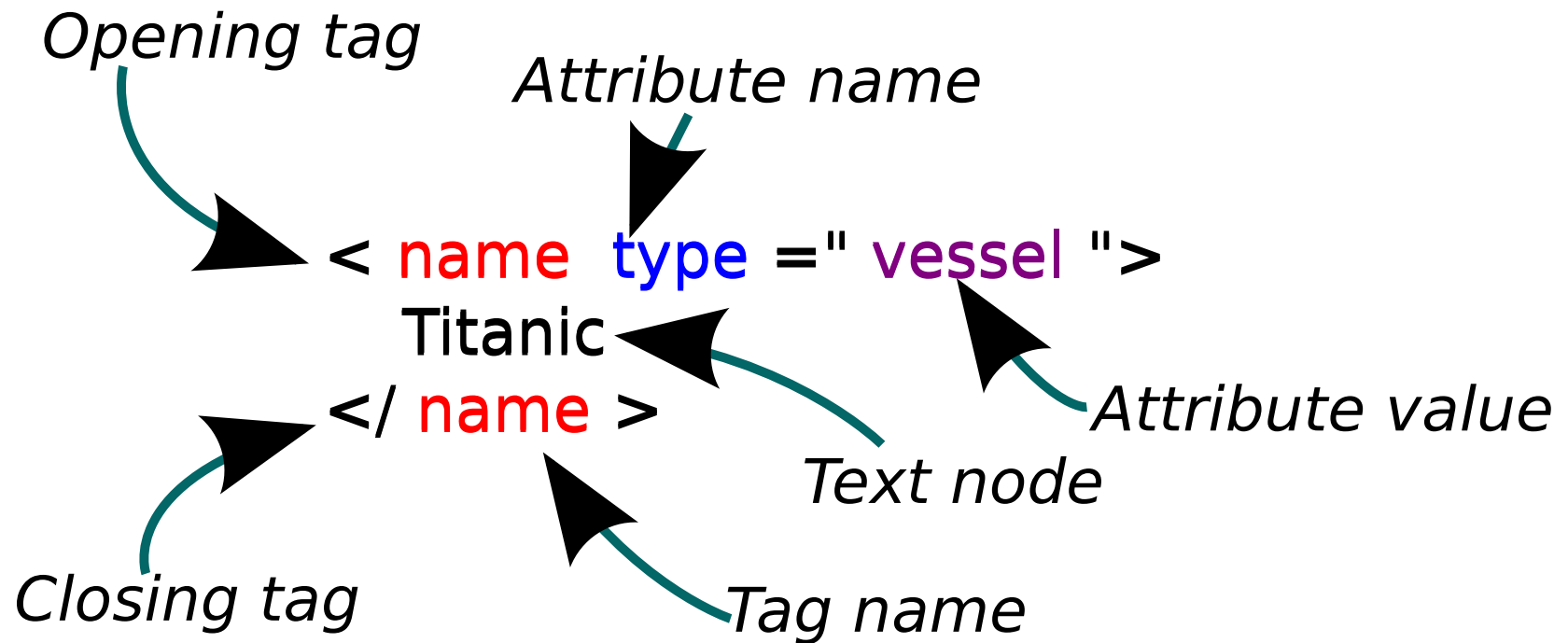
A quick intro to/refresher on XML

XML elements

<p>His name is **<name>**Fred**</name>**.**</p>**

- Opening tag: **<p>**
- Closing tag: **</p>**

Elements, attributes, values and text nodes



Creating an XML file in Oxygen

- File / New / XML Document / Create.
- This gives a file consisting of:

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

- Now add this:

```
<human period="stone-age">  
  <name>Fred Flintstone</name>  
</human>
```


Check well-formedness

- **Document / Validate / Check Well-Formedness**

- What do you see at the bottom?

- Now add a second human, after Fred:

```
<human period="stone-age">  
  <name>Barney Rubble</name>  
</human>
```

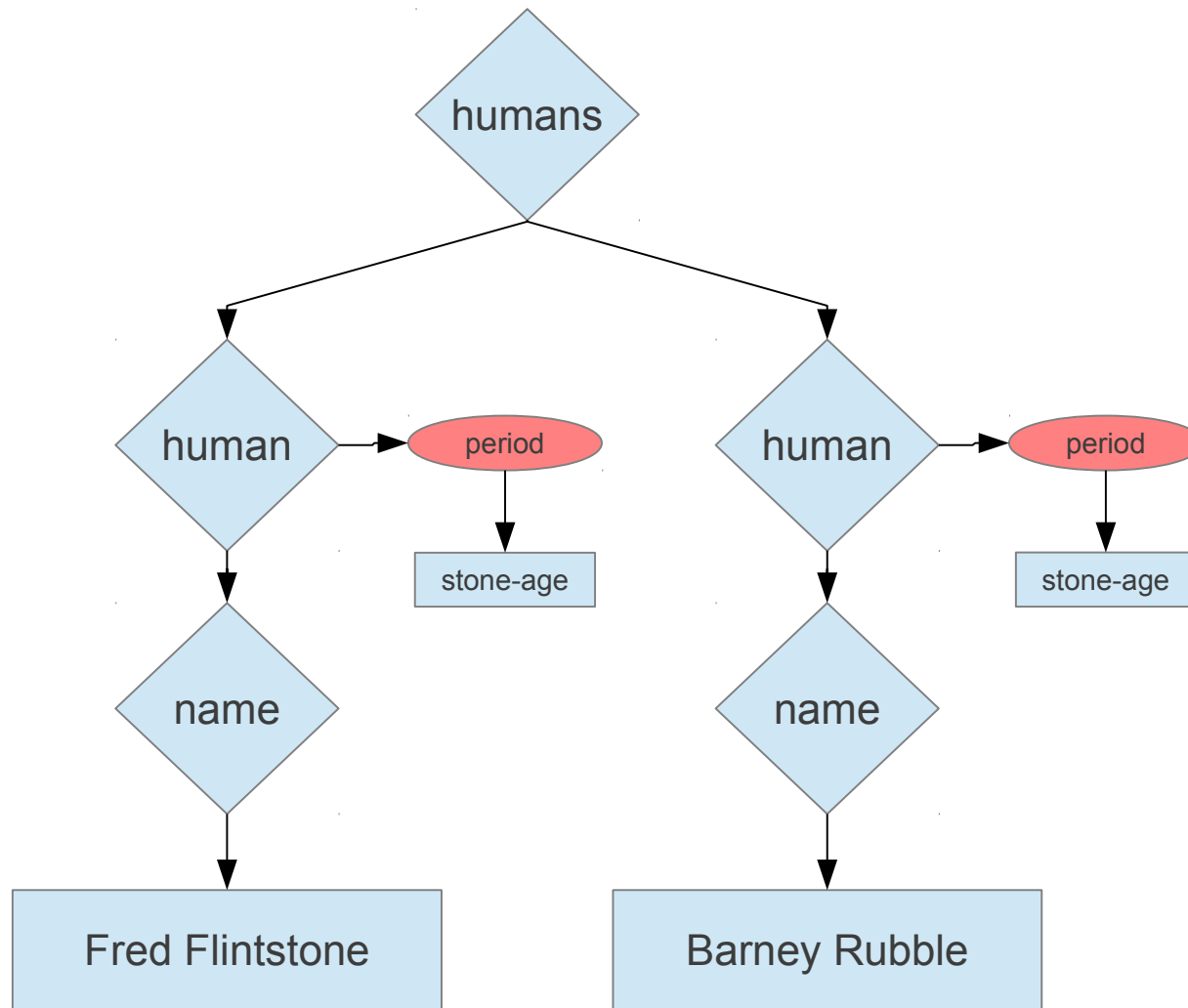
- Check well-formedness again. What happens?
Why?

- How can we fix it?

Required: a single root element

- Select both your humans, and press Control+e.
- Type “humans” and press return.
- Check for **well-formedness**.

XML documents are trees



Anybody can make up XML tags

- In our document, we made up three XML elements and one attribute.
- We have the power.
- Everybody has the power.
- What might be the drawbacks of this?

XML Schemas to the rescue

- We need standardization.
- We need a way to enforce compliance and consistency.
- **XML schemas** allow us to do that.
- There are several different types of schema. Hahahaha.
- But we'll be using RelaxNG schemas.

How to use a schema

- <http://hcmc.uvic.ca/workshops/ise/humans.rng>
- In Oxygen:
Document / Schema / Associate Schema.
- Type or paste in the URL above, and press OK.

```
<?xml-model  
  href="http://hcmc.uvic.ca/workshops/ise/humans.rng"  
  type="application/xml"  
  schematypens="http://relaxng.org/ns/structure/1.0"  
?>
```

An ISE project for Oxygen

- Download the package of materials here:
http://hcmc.uvic.ca/workshops/ise/ise_tei.zip
- Unzip it somewhere convenient.
- In Oxygen, **Project / Open Project**, then navigate to the **ise_tei.xpr** file.

What will this do for you?

- Allow you to create a new ISE TEI file based on a template.
- Validate that file continuously while you work on it.
- Allow you to work in both a code view and a reader-friendly view.
- Create an HTML page from your document automatically.