



Perseus Digital Library

Scaife Viewer

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Outline

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- **Tour of Scaife Part 1**
- Text Pipeline, CTS URNs, CapiTainS
- Architecture
- **Tour of Scaife Part 2**
- **Some Code Examples**
- How to Contribute
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History and Motivation

- Perseus Digital Library
- P4 “Hopper”
- Make it much easier to add new texts
- Make a more open and extensible platform
- Scaife Viewer

Scaife Viewer

- Part of the Open Greek and Latin Project
- Funded by the Humboldt Chair of Digital Humanities at the University of Leipzig
- Developed by Eldarion, Inc.
- Open Source under an MIT License
- Named for Ross Scaife (1960–2008)



Tour of Scaife

Part 1

First1KGreek Pipeline

- Lace OCR
 - Markup (TEI XML / EpiDoc / CapiTainS)
 - GitHub
-
- Existing Perseus Digital Library
 - Other repositories

CTS URNs

cts namespace

work identifier

passage reference

urn:cts:greekLit:tlg0012.tlg001.perseus-grc2:1.1-1.7

tlg0012.tlg001.perseus-grc2

text group

work

edition / translation

TEI XML (EpiDoc)

- Text Encoding Initiative

<http://www.tei-c.org/index.xml>

- EpiDoc

<http://www.stoa.org/epidoc/gl/latest/>

- Markup
- Transcription
- Metadata

CapiTainS

- Software suite and guidelines for Citable Text

`http://capitains.org/`

- Directory Structure
- Metadata Files
- References Declaration

Directory Structure

data/

└─ <textgroup> /

└─ ──cts──.xml

└─ <work> /

└─ ──cts──.xml

└─ <work-identifier-1>.xml

└─ <work-identifier-2>.xml

References Declaration

1.7

```
<TEI xmlns="http://www.tei-c.org/ns/1.0">
  ...
  <text xml:lang="grc">
    <body>
      <div type="edition" ... >
        <div type="textpart" subtype="Book" n="1">
          ∴
          <l n="7">Ἀτρεΐδης τε ἄναξ ἀνδρῶν καὶ δῖος Ἀχιλλεύς.</l>

```

`/TEI/text/body/div/div[@n="1"]//l[@n="7"]`

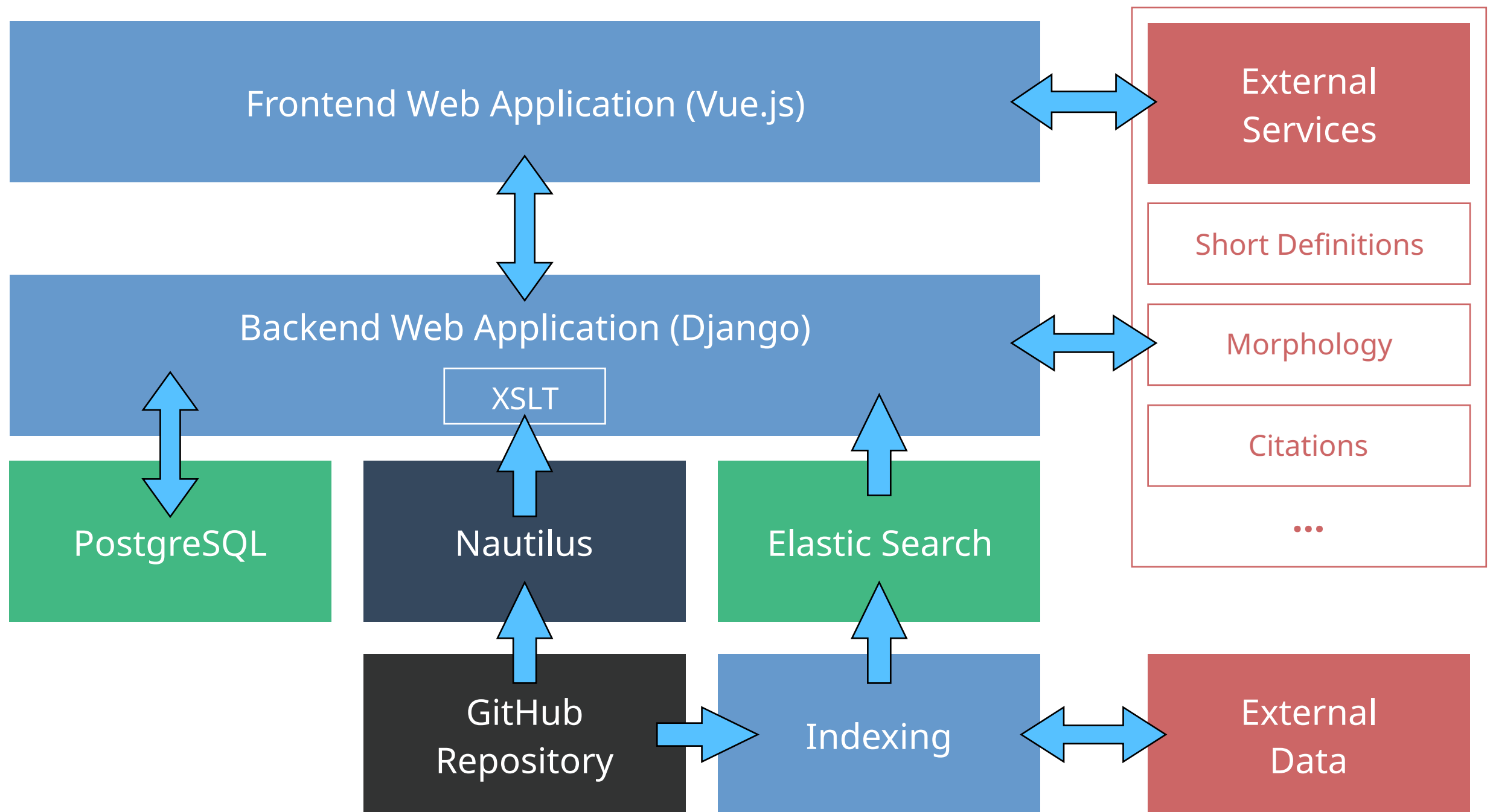
References Declaration

1.7

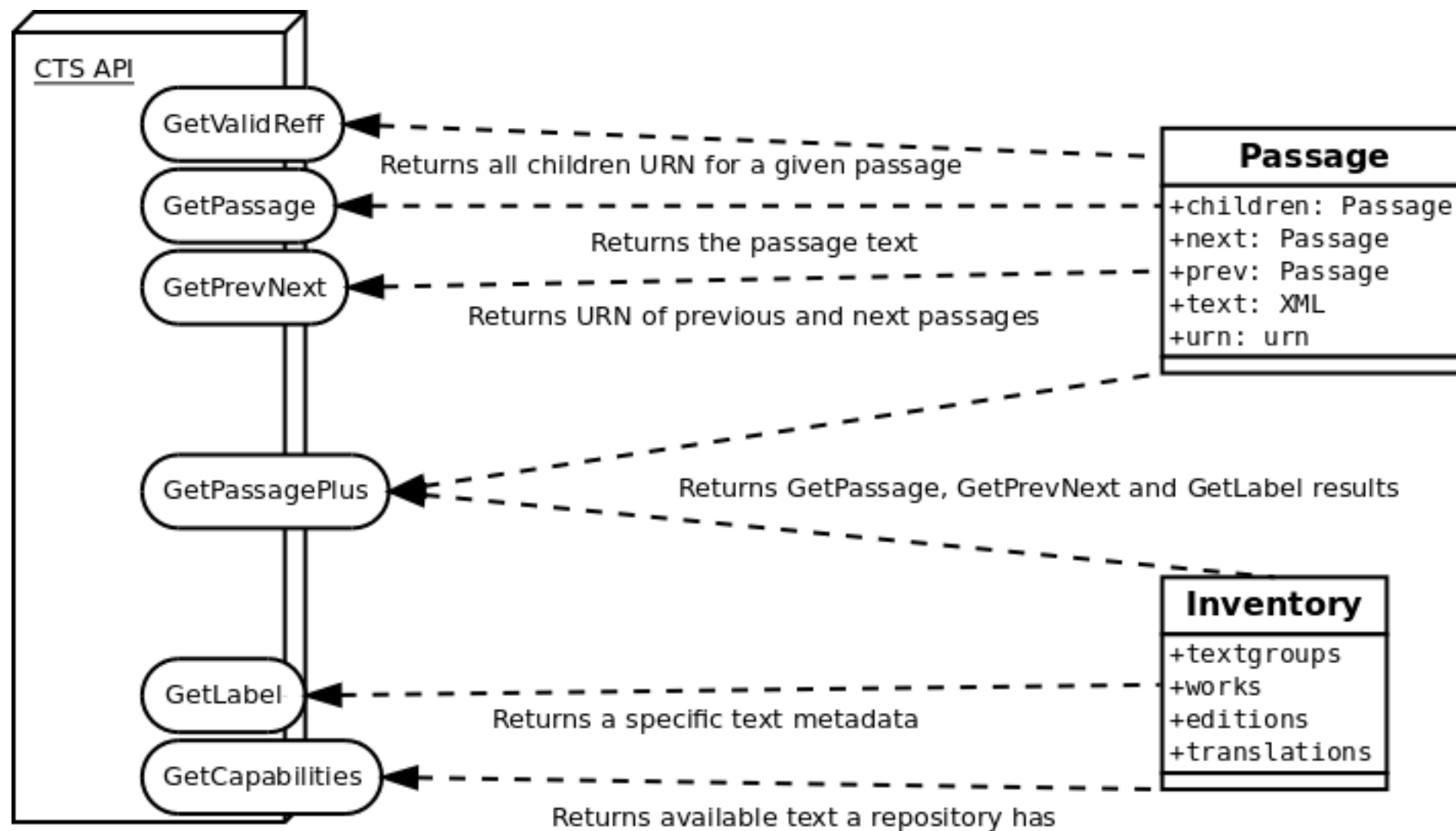
```
<refsDecl n="CTS">
  <cRefPattern
    n="line" matchPattern="( \w+). ( \w+)"
    replacementPattern="#xpath(/TEI/text/body/div/div[@n='$1']//l[@n='$2'])">
    <p>This pointer pattern extracts Book and Line</p>
  </cRefPattern>
  <cRefPattern
    n="book" matchPattern="( \w+)"
    replacementPattern="#xpath(/TEI/text/body/div/div[@n='$1'])">
    <p>This pointer pattern extracts Book</p>
  </cRefPattern>
</refsDecl>
```

`/TEI/text/body/div/div[@n="1"]//l[@n="7"]`

Architecture



Nautilus and the CTS Protocol





Tour of Scaife

Part 2

Widget Architecture

- Vue.js components
- Inherit from Widget component
- Internal state
- Shared reader state
- Calls to external services



Some Widget Code Examples

How to Contribute

<https://github.com/scaife-viewer/scaife-viewer>

- Look at Issues
- Join our Slack workspace
- New and Improved Texts
- Internationalisation and Localisation
- New Widgets (and/or external services)
- Core Architecture

Roadmap

- Localisation
- Personalisation
- Reading Lists
- Note Taking
- Text Alignment
- Tree Banks
- External Citations
- Images



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