Climbing the XML Tree

Let XPath be your ladder

Presented by Annie Glerum OLAC Preconference - October 26, 2017

- **Document**
- ▶ Root Element
 - ▶ Element 1
 - ▶ Element 1
 - ▶ Element 1
 - text
 - ▶ Element 2
 - ▶ Element 1
 - ▶ text
 - ▶ Element 2
 - text
 - ▶ Element 3
 - text
 - ▶ Element 2
 - ▶ Element 1
 - ▶ Element 1
 - ▶ text
 - ▶ Element 2
 - ▶ text
 - ▶ Element 2
 - ▶ Element 1
 - text
 - ▶ Element 3
 - ▶ Element 1
 - ▶ text
 - ▶ Element 2
 - ▶ text
 - Element 3
 - ▶ text

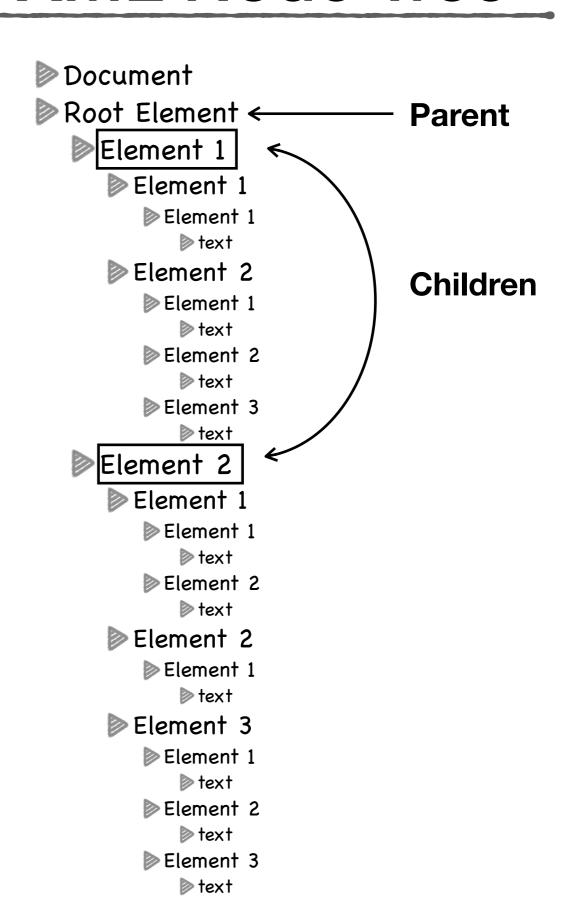
- Document
- ▶ Root Element
 - Element 1
 - Element 1
 - ▶ Element 1
 - text
 - ▶ Element 2
 - ▶ Element 1
 - ▶ text
 - ▶ Element 2
 - text
 - ▶ Element 3
 - text
 - ▶ Element 2
 - Element 1
 - ▶ Element 1
 - ▶ text
 - ▶ Element 2
 - text
 - ▶ Element 2
 - ▶ Element 1
 - ▶ text
 - ▶ Element 3
 - ▶ Element 1
 - ▶ text
 - ▶ Element 2
 - ▶ text
 - ▶ Element 3
 - text

- DocumentRoot Element
 - ▶ Element 1
 - Element 1
 - ▶ Element 1
 ▶ text
 - ▶ Element 2
 - ▶ Element 1
 - text
 - ▶ Element 2
 - ▶ text
 - ▶ Element 3
 - text
 - ▶ Element 2
 - Element 1
 - ▶ Element 1
 - text
 - ▶ Element 2
 - ▶ text
 - ▶ Element 2
 - ▶ Element 1
 - text
 - ▶ Element 3
 - ▶Element 1
 - ▶ text
 - ▶ Element 2
 - ▶ text
 - ▶ Element 3
 - ▶ text

- **Document**
- ▶ Root Element
 - ▶ Element 1
 - ▶ Element 1
 - ▶ Element 1
 ▶ text
 - ▶ Element 2
 - ▶ Element 1
 - text
 - ▶ Element 2
 - ▶ text
 - ▶ Element 3
 - ▶ text
 - ▶Element 2
 - Element 1
 - ▶ Element 1
 - ▶ text
 - ▶Element 2
 - text
 - ▶ Element 2
 - Element 1
 - text
 - ▶ Element 3
 - ▶ Element 1
 - text
 - ▶ Element 2
 - text
 - Element 3
 ▶ text

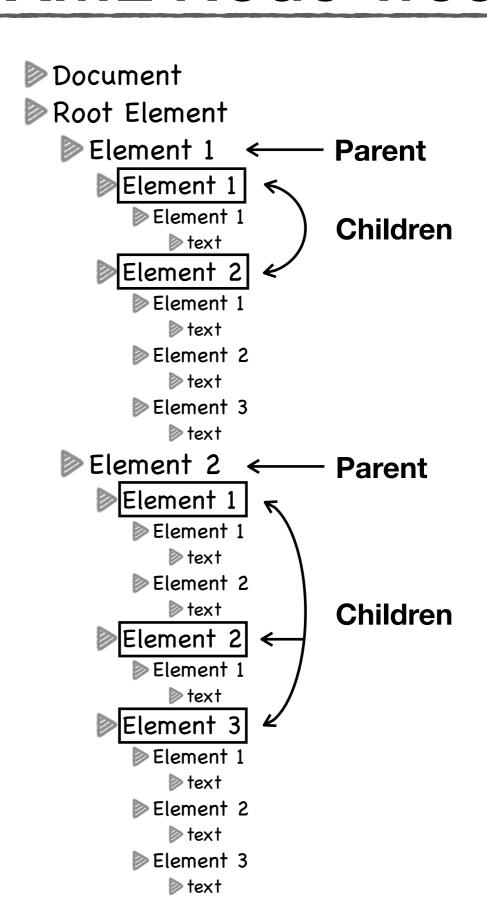
Document ▶ Root Element ← **Parent** Element 1 Element 1 ▶ Element 1 text ▶ Element 2 ▶ Element 1 text ▶ Element 2 text ▶ Element 3 ▶ text Element 2 Element 1 ▶ Element 1 text ▶ Element 2 text ▶ Element 2 ▶ Element 1 text ▶ Element 3 ▶ Element 1 text ▶ Element 2 text ▶ Element 3

text



- **Document**
- ▶ Root Element
 - ▶ Element 1
 - ▶ Element 1
 - ▶ Element 1
 - text
 - Element 2
 - ▶ Element 1
 - ▶ text
 - ▶Element 2
 - ▶ text
 - ▶ Element 3
 - text
 - Element 2
 - **Element** 1
 - ▶Element 1
 - ▶ text
 - ▶ Element 2
 - ▶ text
 - ▶Element 2
 - ▶ Element 1
 - text
 - **▶**Element 3
 - Element 1
 - ▶ text
 - ▶ Element 2
 - ▶ text
 - ▶ Element 3
 - ▶ text

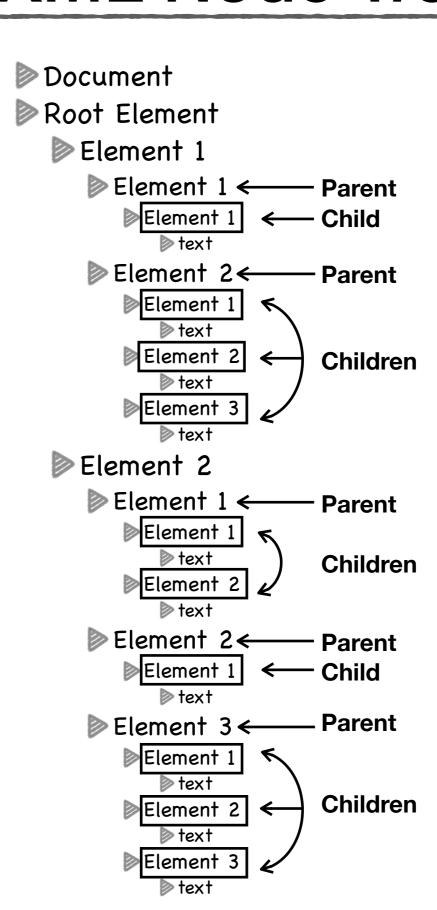
Document Root Element Element 1 **Parent** Element 1 ▶ Element 1 ▶ text Element 2 ▶ Element 1 text ▶ Element 2 text ▶ Element 3 ▶ text ▶ Element 2 ← **Parent** ▶Element 1 Element 1 text ▶ Element 2 ▶ text Element 2 Element 1 ▶ text Element 3 ▶ Element 1 text ▶ Element 2 text ▶ Element 3 text

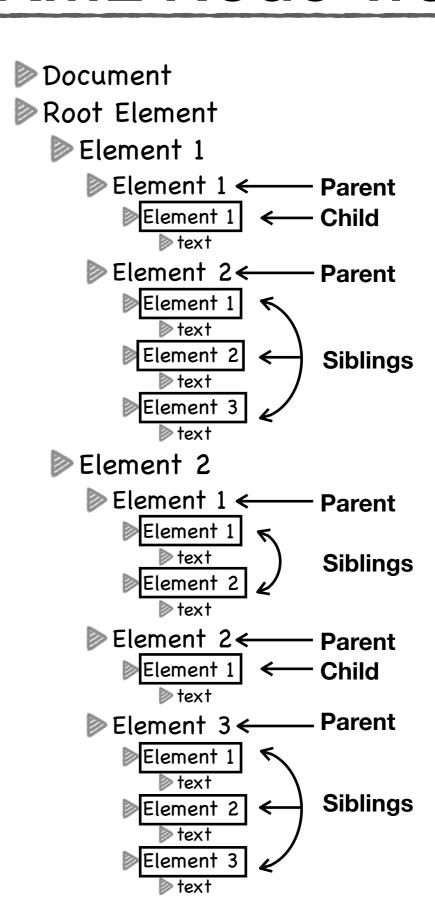


3 1

- **Document**
- ▶ Root Element
 - Element 1
 - Element 1
 - Element 1
 - ▶ Element 2
 - Element 1
 - Element 2
 - Element 3
 - ▶ Element 2
 - ▶ Element 1
 - Element 1
 - Element 2
 - ▶ Element 2
 - Element 1
 - ▶ Element 3
 - Element 1
 - Element 2
 - Element 3

Document Root Element Element 1 **Parent** ▶ Element 1 text ▶ Element 2← - Parent ▶Element 1 ▶ text Element 2 ▶ text Element 3 text ▶ Element 2 ▶ Element 1 ← **Parent** ▶ Element 1 ▶ text Element 2 text ▶ Element 2 ← **Parent ▶**Element 1 text **Parent** ▶ Element 3 ← Element 1 text Element 2 text Element 3 text



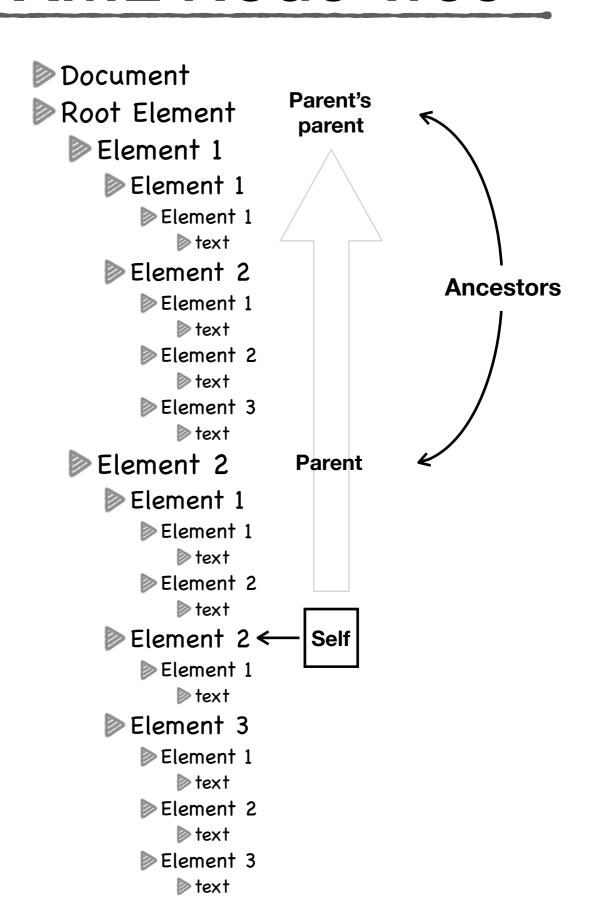


Document ▶ Root Element Element 1 Element 1 ▶ Element 1 text ▶ Element 2← - Parent ▶ Element 1 ▶ text Element 2 **Siblings** ▶ text Element 3 text ▶ Element 2 Element 1 ▶ Element 1 text ▶ Element 2 text ▶ Element 2 ▶ Element 1 text ▶ Element 3 ▶ Element 1 text ▶ Element 2 text ▶ Element 3

text

Document Root Element Element 1 Element 1 ▶ Element 1 text ≥ Element 2 ▶ Element 1 preceeding-sibling text ▶ Element 2 Self ▶ text ▶ Element 3 following-sibling ▶ text ▶ Element 2 Element 1 ▶ Element 1 text ▶ Element 2 text ▶ Element 2 ▶ Element 1 text ▶ Element 3 ▶ Element 1 text ▶ Element 2 ▶ text ▶ Element 3

text



Document Root Element Element 1 Element 1 ▶ Element 1 text ≥ Element 2 ▶ Element 1 text ▶ Element 2 text ▶ Element 3 ▶ text Element 2 ← Self Element 1 Child ▶ Element 1 Child's Child text ▶ Element 2 Child's Child text ▶ Element 2 Child ▶ Element 1 **Decendants** Child's Child text ▶ Element 3 Child ▶ Element 1 Child's Child text ▶ Element 2 Child's Child ▶ text Child's Child ▶ Element 3 text

XML Node Bush

