A blue screen with white text

Description automatically generated



安装好环境和包之后，

打开bib.xml到tree

A computer screen with white text

Description automatically generated

检索tree内部的element，可以带序号。序号居然从1开始！不是0！

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Description automatically generated

不指定序号的话，就返回所有book

A computer screen shot of white text

Description automatically generated

继续检索更具体的

A blue screen with white text

Description automatically generated

更具体的



检索attribute。为了区分attribute和element，记得加@符号

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用attribute来检索出指定的element



find title of books published in 1995



Print without element sign

A close up of words

Description automatically generated

A close up of a computer code

Description automatically generated

# find titles of books published between 1995 and 2000



Find titles of books which has an author with *first-name* as sub-element



Find titles of books which has an author with *first-name and year* as sub-element



Find titles of books which has an author whose name is Rick



Or



Find year of books written by author whose name contains Serge



Find (all) authors of books that are written by author whose name contains Serge



Find book authors whose name contains Serge



“.”表示自己，

错误写法：（下面这个表示，author下一层中，含有Serge的author。）



Find titles of books whose price(attribut, not element) is at least 35 dollars



错误：



“/\*” means all the element one level down

“/\*”表示下一层的所有element

A computer screen shot of a computer code

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观察 “\*”, “text()”, “node()”的不同点

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Node()表示含有either sub-element or text.

还有一个 “@\*”



用 “//”来省略前面所有层级，直接找到所有author

A computer code with text

Description automatically generated with medium confidence

或者



“//”对于text()也适用

A close up of words

Description automatically generated

“//@\*”可以找到所有的attribute

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用 node()来filter out不含任何内容的element。（下面的code没有返回<author age =”25” />，因为它没有sub-element或者text）

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用反例



# find authors who are at least 20 years old

# assume author with age attributes

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如果输入printf(tree.xpath('//\*'))，结果会是所有的element。顺序是depth first

题：find all elements with attributes.

解答：

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Description automatically generated

Xquery FLWR

for let where return clauses