

What can XPath do?

- Extract attribute values
- Extract text between tags
- Extract nodes that match pattern
- Count nodes that match pattern
- Find nodes with certain attribute value
- Calculate values from subqueries
- ...

XPath Examples

- `/plan-library, count(//plan)`
 - count number of plans in plan library
- `//plan, count(//argument)`
 - show number of arguments a plan takes
- `//plan, derived-from@plan-name`
 - show the plan this plan is derived from
- `//abort-condition, count(//any-state-specific-pattern)+count(//temporal-pattern)`
 - count patterns in abort-condition

XPath Examples

- `//time-range, concat(„[“, starting-shift/earliest/numerical-constant@value, „“, starting-shift/latest/numerical-constant@value, „] [“, ... )`
 - make „[ESS, EFS] [LSS, LFS], [MinDu, MaxDu]“

Jump to Referenced Attribute

```
<plan-activation>
  <plan-schema name=„planB“ />
</plan-activation>
....
<plan name=„planB“>
  ...
</plan>
```



Consider Namespaces

ReferenceAttributeA	localvarA	☒
	localvarB	☐
	localvarC	☐
	globalvarA	☐
	globalvarB	☐

Boring Technical Details

- Written in C++ (Speed)
- Uses
 - GTK+/GTK--
 - Apache Xerces (DOM)
 - Apache Xalan (XPath)
- Compiles on Linux & Windows (Cygnus)
- Documentation with Doxygen and Dia

Main PIXEE Features

- Run XPath query when folding
- Show available elements before/after/below current element
- Consider namespaces and scopes in reference attributes
- Jump to referenced element
- Validate based on HSL description