

ECMA TC39/TG1 XML Sub-group 8 August 2002

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Agenda

- Establish Terms of Reference
- Develop task breakdown and schedule
- Identify broad use cases and scenarios
- Define common design principles
- Determine/establish baseline XML knowledge
- Discussion and questions
- [Additional agenda items?]

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Proposed Terms of Reference

Name: ECMAScript for XML (E4X)

Scope:

To standardize the syntax and semantics of a general purpose, cross platform, vendor neutral set of programming language extensions adding native XML support to ECMAScript

Program of Work

- Develop a standard set of language extensions to add native XML support to ECMAScript
- Facilitate integration of developed extensions into the ECMAScript Language Specification
- On completion of tasks 1 and 2, investigate the future direction of XML support in ECMAScript and consider proposals for complementary or additional technology
- Maintain liaison with appropriate ECMA and external standards bodies
- [Other responsibilities?]

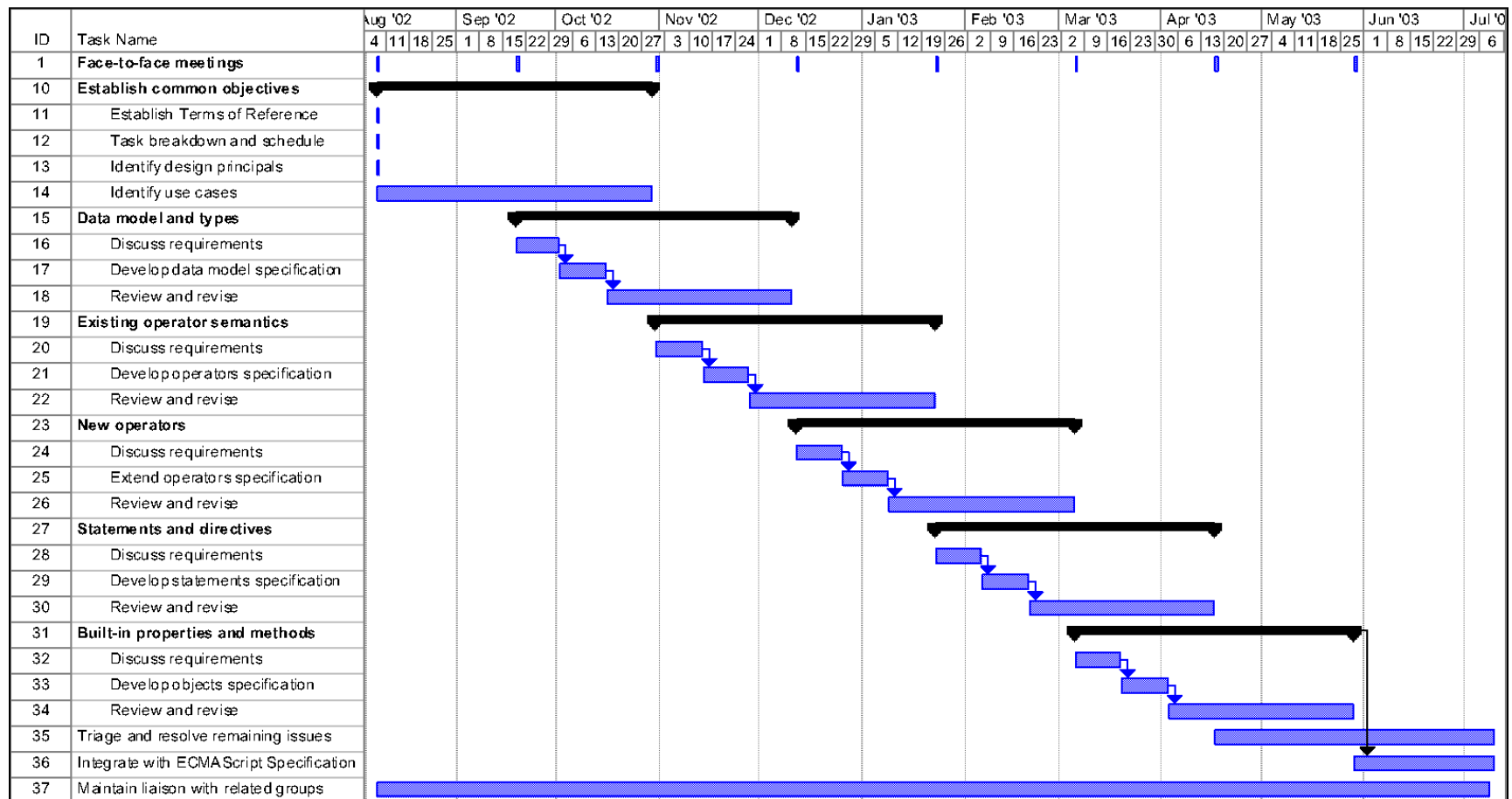
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Proposed Task Breakdown

- Establish objectives, design principles and use cases
- Discuss and agree on language extension concepts
 - Data model and type extensions
 - Extended semantics for existing operators
 - New operators
 - Statements and directives
 - Built-in classes (properties and methods)
- Develop specification formalizing syntax and semantics of language extensions for ECMAScript Edition 3
- Develop specification formalizing syntax and semantics of language extensions for ECMAScript Edition 4
- Integrate with ECMAScript Language Specification (future)

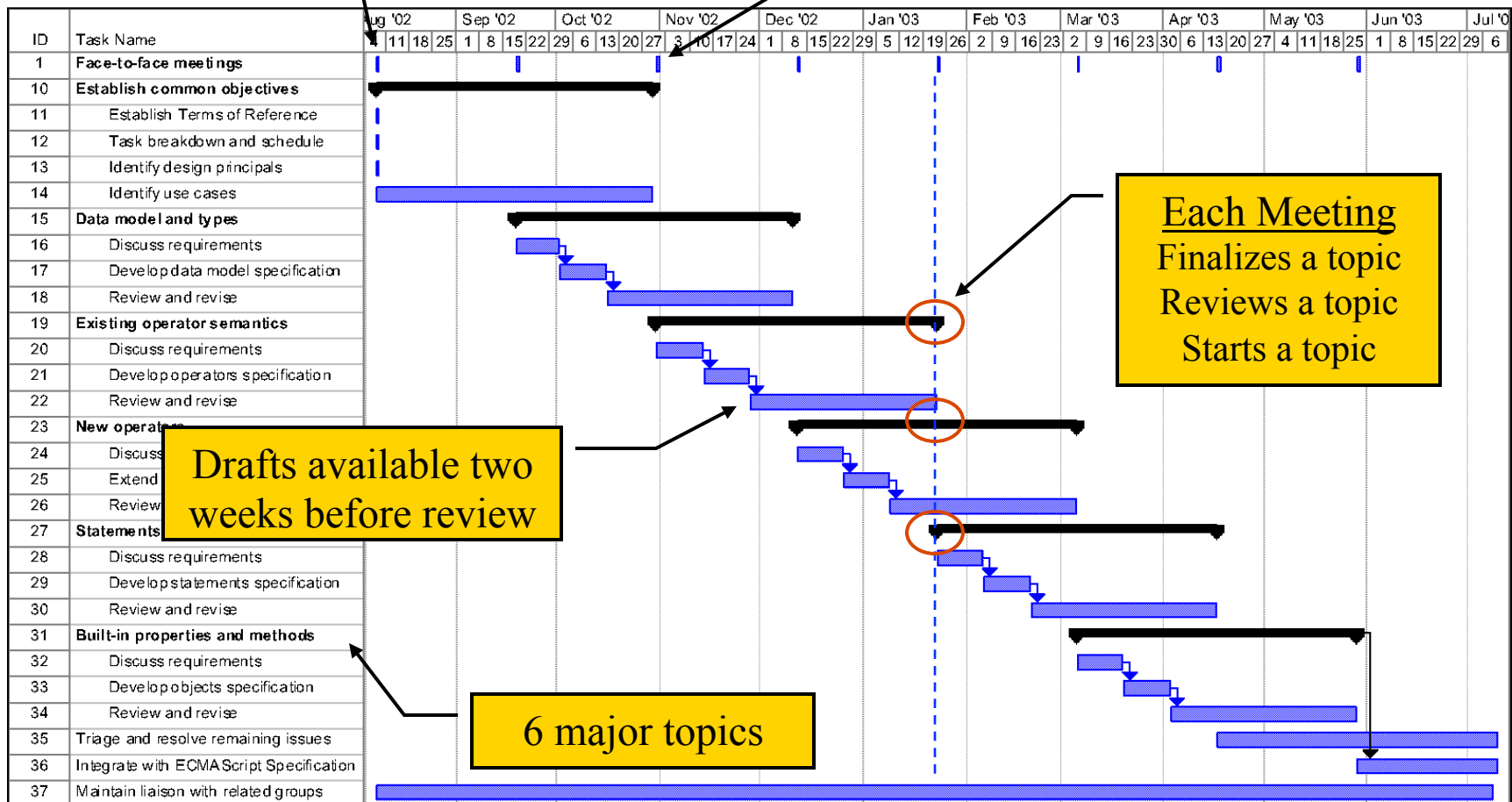
Proposed Schedule



Proposed Schedule

You are here

8 meetings



Each Meeting
Finalizes a topic
Reviews a topic
Starts a topic

Drafts available two
weeks before review

6 major topics

The party is here

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Broad Use Case Candidates

- Client side XML scripting
 - Dynamic XHTML, WML
 - SVG interaction and SMIL animation
- Server side XML generation (XHTML, XForms, SVG, WML)
- Web services
- Off-line XML processing
 - Log analysis and processing
 - Publishing and document production
 - Config file, makefile, deployment descriptor processing
- XML mapping and binding (e.g., XML <--> objects)
- XML transformation (e.g., XML Data --> XHTML)
- XML searching and filtering
- XML updates (insert, delete, modify)
- Events and notification [possibly for any object, not just XML]

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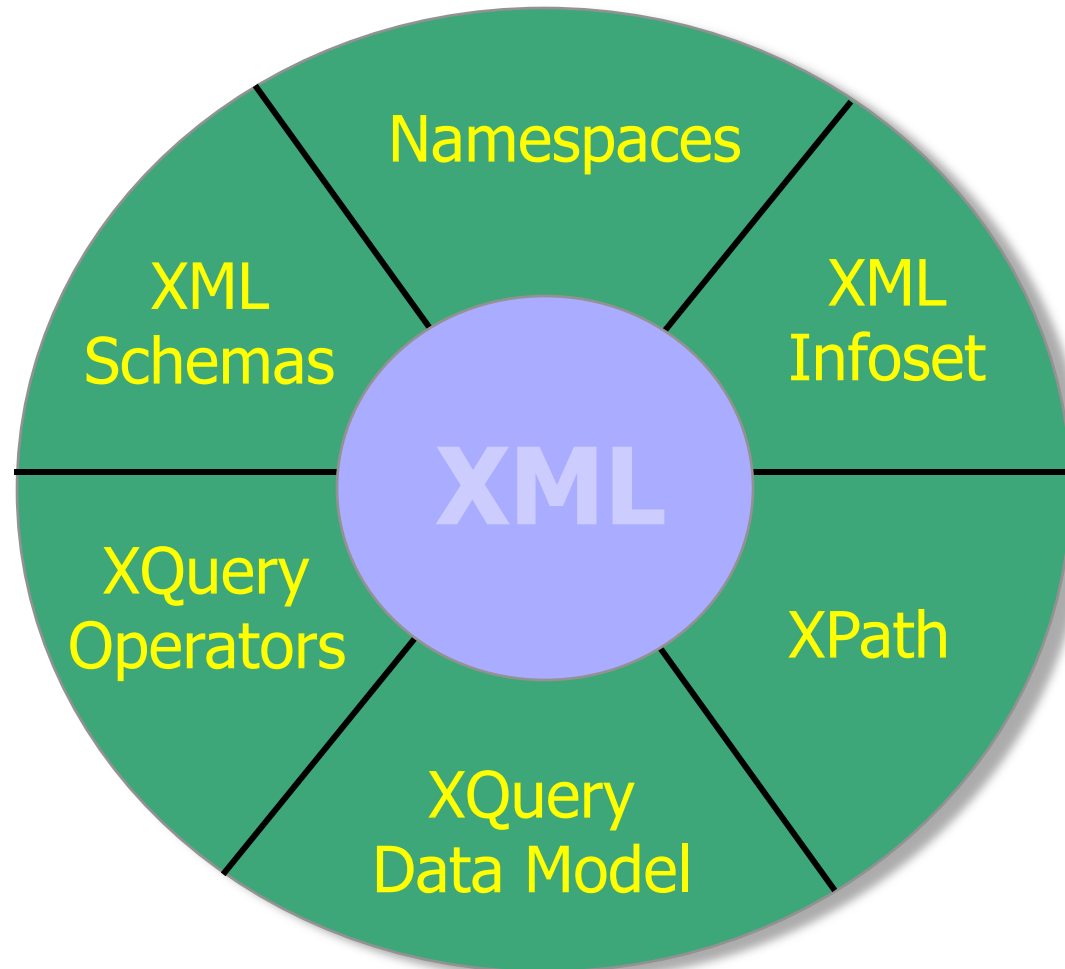
Proposed Design Principles

- Simple [for user]
- Familiar [to user]
- Minimal [feature set]
- Complementary [to XML technologies]
- Loosely coupled [reduce app dependencies]
- Consistent [design]
- Secure (Edition 4 goal):
 - Use Edition 4 access control and visibility
 - Verify data integrity (data types using Schema)

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Some Relevant XML Specifications



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We' re done!

Nice job!!!