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The main task of the joint technical committee is to prepare International Standards. Draft International Standards adopted by the joint technical committee are circulated to national bodies for voting. Publication as an International Standard requires approval by at least 75 % of the national bodies casting a vote.

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ISO/IEC 30170 was prepared by the Japanese Industrial Standards Committee (as JIS X3017) and was adopted, under a special "fast-track procedure", by Joint Technical Committee ISO/IEC JTC 1, *Information technology*, in parallel with its approval by the national bodies of ISO and IEC.

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This International Standard is based upon a submission from the Japanese National Standards Body called JIS X3017 “Programming Language Ruby”, registered and published in 2011.

Ruby is an object-oriented scripting language designed to be developer-friendly, productive and intuitive. There is a continuing growth of interest in Ruby around the world, especially among web application developers, while its use spans from web applications to private tools.

As the Ruby language grows and spreads, there is no globally agreed upon documented Ruby specification. In order to avoid confusion as a result of diversification of usage and incompatibility among implementations, the Japan Industry Standard is proposed as an international standard.

There are multiple Ruby implementations available. Many of them are distributed as open source software. The implementation called “Matz Ruby Implementation (MRI)” has been treated as a reference implementation insofar as virtually all implementers check compatibility of their implementations by comparing them to MRI. Therefore, this specification of Ruby is codified as a strict subset of MRI.

This International Standard specifies only core language features and core libraries which are stable enough and common between MRI versions and compatible between existing implementations. There are two versions of MRI currently distributed and maintained: MRI 1.8, which has been available since 2003 and MRI 1.9, which was released in 2010. Currently, MRI 1.8 is more widely used than MRI 1.9. Use of MRI 1.9 will likely spread in the next several years. To avoid future divergence, features which are planned or prospected to be changed are excluded from this version of the specification, or it is clearly stated that the behavior of the features are not specified. For example, this specification does not specify the handling of character type in detail because it is planned to be changed in MRI 1.9 for full support of ISO/IEC 10646. The full support of ISO/IEC 10646 is going to be standardized in a future version of this standard. The library defined in this specification is limited to that which is commonly used or necessary to write simple programs.

This International Standard introduces special notations and a concept called “Execution context” in order to specify flexible syntax and dynamic semantics of the Ruby language as simple as possible.