



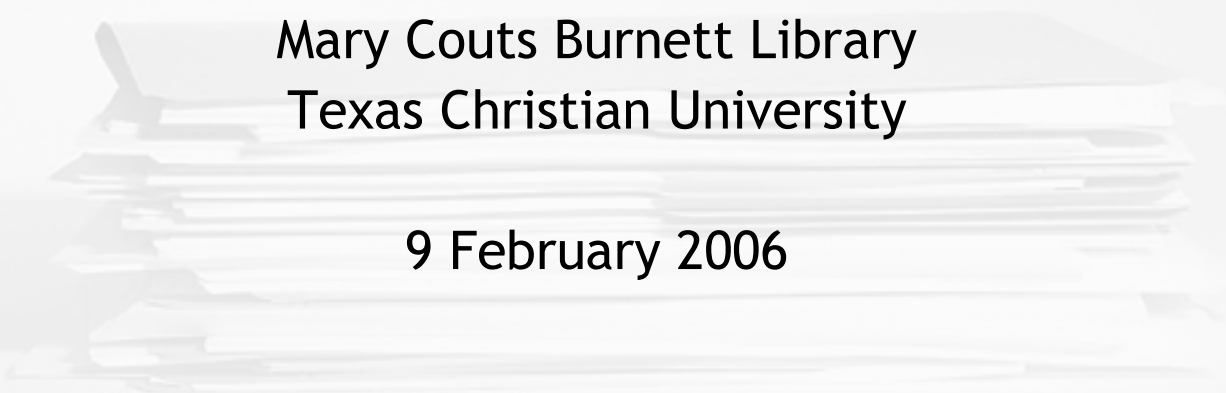
# ISBN 13

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## Definitions

- ISBN - International Standard Book Number
  - A unique number
  - Assigned to books and other formats
  - Used internationally
  - Adopted as an ISO standard in 1973
- 10 digit format - ISBN-10
  - group identifier
  - publisher prefix
  - title number
  - check digit

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## Group Identifier

- First set of digits
- Identifies language/nationality
- Table found at <http://www.morovia.com/education/isbn-gj-table.asp>

0 & 1	English (Australia, Canada (E.), Gibraltar, Ireland, (Namibia), New Zealand, Puerto Rico, South Africa, Swaziland, UK, USA, Zimbabwe)	84	Spain
		85	Brazil
2	French (France, Belgium, French Canada, Switzerland)	88	Italian (Italy, Switzerland)
3	German (Germany, Austria, Switzerland)	968 & 970	Mexico
4	Japan	980	Venezuela
7	China	987	Argentina

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## Publisher Prefix

- Assigned by the ISBN Agent in each country
- R.R. Bowker, LLC is the US ISBN Agent
- Directories may be purchased
  - 2 volumes arranged geographically
  - 1 volume arranged numerically

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## Sample Publisher Prefixes

Publisher	Prefix	ISBN	Title
Open Court (SRA / McGraw-Hill)	0-02	0-02-661358-1	SRA/Open Court Reading Kindergarten
SRA / McGraw-Hill	0-02	0-02-683494-4	SRA Journeys Grade 1
Glencoe (SRA / McGraw-Hill)	0-02	0-02-825327-2	Algebra 1: Integration - Applications ...
Holt, Rinehart & Winston (Harcourt)	0-03	0-03-052062-2	Elements of Literature, Third Course
McGraw-Hill	0-07	0-07-823141-8	Integrated Physics and Chemistry
Prentice Hall	0-13	0-13-095406-3	The Prose Reader: Essays for Thinking ...
Oxford University Press	0-19	0-19-515885-7	A HISTORY OF US, Grade 8
Scott Foresmen (Addison Wesley)	0-201	0-201-36506-5	Scott Foresman - Addison Wesley Matemáticas
Scholastic	0-439	0-439-06152-0	Scholastic Literacy Place
Rigby (Harcourt)	0-7578	0-7578-7749-4	On Our Way to English/Rigby (Student Pkg)
Leapfrog	1-58605	1-58605-826-6	The Ready, Set, Leap! English and Spanish Ed.
Editorial Trillas	968-24	968-24-4105-6	Fiesta de Numeros 2

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## Title Number & Check Digit

- Title number - a sequential number assigned by the publisher
- Check digit - a calculated number added to detect human typographical errors
  - Transposing adjacent numbers
    - 76 becomes 67
  - Doubling the wrong digit
    - 667 becomes 677

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## ISBN-13

- Why?
  - Expand pool of numbers
  - Align numbering system with EAN
- When?
  - As of 1 January 2007 all publishers will only issue 13 digit ISBNs
- How?
  - Two prefixes, 978 used with ISBN-10 and 979

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## Converting ISBN-10 to ISBN-13

1. Drop check digit from ISBN-10
2. Add prefix 978
3. Multiply each digit by the appropriate weight factor
4. Total all the products
5. Divide by the modulus (10), and calculate the remainder
6. The new check digit equals the modulus minus the remainder

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## Example - Steps 1 & 2

ISBN-10 0-02-661358-1

digit	1	2	3	4	5	6	7	8	9	10	11	12	13
ISBN	9	7	8	0	0	2	6	6	1	3	5	8	
Weight Factor	1	3	1	3	1	3	1	3	1	3	1	3	1

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## Example - Step 3

ISBN-10 0-02-661358-1

digit	1	2	3	4	5	6	7	8	9	10	11	12	13
ISBN	9	7	8	0	0	2	6	6	1	3	5	8	
Weight Factor	1	3	1	3	1	3	1	3	1	3	1	3	1
Product	9	21	8	0	0	6	6	18	1	9	5	24	

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## Example - Steps 4 & 5

ISBN-10 0-02-661358-1

digit	1	2	3	4	5	6	7	8	9	10	11	12	13
ISBN	9	7	8	0	0	2	6	6	1	3	5	8	
Weigh Factor	1	3	1	3	1	3	1	3	1	3	1	3	1
Product	9	21	8	0	0	6	6	18	1	9	5	24	

Total Product	107
Divide by Modulus (10)	10
Remainder	7

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## Example - Step 6

ISBN-10 0-02-661358-1

digit	1	2	3	4	5	6	7	8	9	10	11	12	13
ISBN	9	7	8	0	0	2	6	6	1	3	5	8	3
Weigh Factor	1	3	1	3	1	3	1	3	1	3	1	3	1
Product	9	21	8	0	0	6	6	18	1	9	5	24	3

Total Product	107
Divide by Modulus (10)	10
Remainder	7
Modulus - Remainder =	3

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# Your Turn!

ISBN-10

0-03-052062-2

digit	1	2	3	4	5	6	7	8	9	10	11	12	13
ISBN	9	7	8										
Weigh Factor	1	3	1	3	1	3	1	3	1	3	1	3	1
Product	9	21	8										

Total Product


Divide by Modulus (10)

Remainder

Modulus - Remainder =


## ISBN 13 Convert

<http://www.isbn.org/converterpub.asp>




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## EAN

- European Article Number (13 digits)
- Replaced the 12-digit UPC
- Also known as the International Article Number
- Books will retain the ISBN-13 structure, not the EAN structure
- ISBN version commonly known as the Bookland EAN-13
- Sole barcode for books and book-related products

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## EAN Barcode



ISBN-10 for items published before January 2007

ISBN: 1-4028-9462-7

9 781402 894626

5 0495

Currency Code (0=£ and 5=\$) and Suggested Retail Price. This item would retail for \$4.95

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## What should I expect from vendors?

- Publishers
  - All new items (starting with items published in 2007) will have ISBN-13
    - Most recent items should also have ISBN-13
  - All paperwork (invoices, shipping tickets, etc.) that list an ISBN should use ISBN-13
- Software vendors
  - You should be able to enter & search ISBN-13 and ISBN-10
  - Existing ISBN indexes should be converted to ISBN-13

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## Resources

- International ISBN Agency: <http://www.isbn-international.org/en>
- Bowker (US Agency): <http://www.isbn.org>
- Are you ready?: <http://www.isbn.org/standards/home/isbn/transition.asp>
- Converter: <http://www.isbn.org/converterpub.asp>
- ISBN13 For Dummies: [http://www.bisg.org/isbn-13/ISBN13\\_For\\_Dummies.pdf](http://www.bisg.org/isbn-13/ISBN13_For_Dummies.pdf)
- Group Identifier Table: <http://www.morovia.com/education/isbn-gi-table.asp>

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Thank You!

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9 February 2006

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