



BASIS ...for GIS Education, Applications and Software

The Berry & Associates // Spatial Information Systems (Basis) website provides access to Dr. Berry's popular *Beyond Mapping* columns for *GeoWorld* magazine, as well as posting recent papers and other materials available for download.

Joseph K. Berry is a leading consultant and educator in the application of Geographic Information System (GIS) technology and serves as Principal of Berry & Associates // Spatial Information Systems (Basis).

BASIS provides consulting, application development and training in GIS technology for a wide range of clients (founded in 1988).

Understanding GIS Technology

Online Papers → ...[click here](#) for listing/links to 50+ online papers

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- [Making a Case for SpatialSTEM](#) (15 pgs)
- [An Analytical Framework for GIS Modeling](#) (23 pgs)
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Beyond Mapping Compilation Series by Joseph K. Berry

...compilation of over three hundred "Beyond Mapping" columns appearing in *GeoWorld* 1989 to 2013 — organized into four online books...

Beyond Mapping IV: columns from **2007 to 2013** with 10 Topics, Introduction and Epilog

Beyond Mapping III: columns from **1996 to 2007** with 10 Topics, Introduction and Epilog

Beyond Mapping II: columns from **1993 to 1996** with 10 Topics, Introduction and Epilog

Beyond Mapping I: columns from **1989 to 1993** with 10 Topics, Introduction and Epilog

Chronological Listing of **all columns** — selected columns in **Español** (select "Beyond Mapping")

SpatialSTEM Presentations and Teaching Materials by Joseph K. Berry

...SpatialSTEM is an innovative approach to understanding and communicating spatial reasoning, map analysis and modeling fundamentals within the traditional mathematical/statistical framework that resonates with science, technology, engineering and math/stat communities (2013)

GIS Modeling Course Materials by Joseph K. Berry

...all of the supporting materials (PowerPoint, Software, Exercises, Exams, Projects) needed for an Upper Division/Graduate college course (2013)

Map Analysis Workshop Materials by Joseph K. Berry

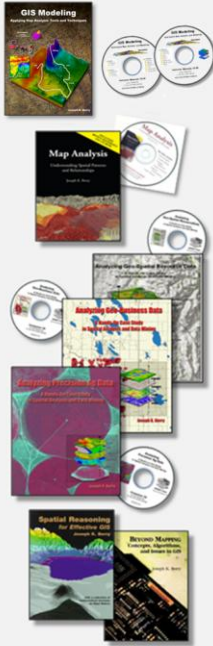
...all of the materials (PowerPoint, Software, Exercises) needed for a 4 hour (real-time demos) session or an 8 hour (hands-on lab) session (2013)

The Precision Farming Primer by Joseph K. Berry

...compilation "Inside the *GIS Toolbox*" column published in the @gInnovator newsletter from **1993 to 2000**

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Hardcopy and Electronic Books → ...click on the links below for more information



GIS Modeling J. K. Berry (*Basis, 2013*)

...provides a structured view of grid-based map analysis and modeling with software for “hands-on” exercises (US\$45)

Map Analysis J. K. Berry (*GeoTec Media, 2007*)

...provides a structured view of grid-based map analysis and modeling with software for “hands-on” exercises (US\$45)

Spatial Reasoning J. K. Berry (*Wiley, 1995*)

...explores the basic concepts of map analysis and emerging issues as GIS moves from mapping to map analysis (US\$95)

Beyond Mapping J. K. Berry (*Wiley, 1993*)

...investigates the concepts, algorithms and issues in GIS (US\$95)

Analyzing Geospatial Resource Data J. K. Berry (2005)

...case studies in Spatial Analysis and Data Mining in Natural Resources with software for “hands-on” exercises

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Analyzing Geo-Business Data J. K. Berry (2003)

...a case study in Spatial Analysis and Data Mining in Business with software for “hands-on” exercises

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Analyzing Precision Ag Data J. K. Berry (2002)

...a case study in Spatial Analysis and Data Mining in Agriculture with software for “hands-on” exercises

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Software → ...click on the links below for information on MapCalc grid-based map analysis software



(Downloads free)

- [MapCalc Software](#)
- [MapCalc Tutorials](#)
- [MapCalc Data Sets](#)
- [MapCalc User's Manual](#)

MapCalc Description & Example Applications describes MapCalc's analytical capabilities using several GIS modeling examples

GeoWorld Quick-Take Review of *MapCalc Learner*

Paper describing *MapCalc Academic* for instructors

Listing of *MapCalc Operations* by traditional math/stat categories

Cross-reference to ESRI Grid/SpatialAnalyst

Instructor Materials for grid-based map analysis instruction

MapCalc Legacy describing the history of MapCalc

Berry & Associates // Spatial Information Systems

Fort Collins, Colorado, USA

E-mail: jberry@innovativegis.com