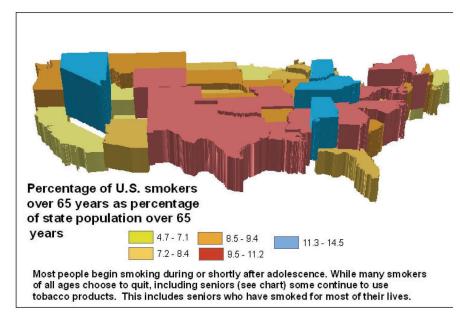
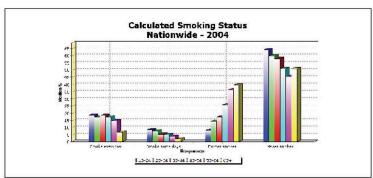
color figures

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"False Truths": Ethics and Mapping as a Profession *Tom Koch*

Still Smoking: After all these years!





Smokers as a percentage of the total age-related population versus those who chose to quit by age group.

A product of Napp-Off, Ltd.

Source: http://apps.nccd.cdc.gov/brfss/tobacco

Figure 1. Long-lived smokers is a potential response to the hypothetical ATT contract for a map of data on smokers over 70 years of age in the United States. Map by author.

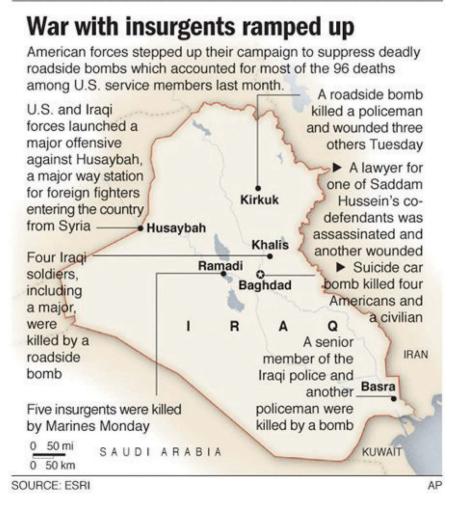


Figure 2. This map-story by the Associated Press of military events in Iraq argued for increased US military activity in response to "foreign" insurgents. (AP Graphic). Accessed 8 Nov. 2005 at http://global.net/.

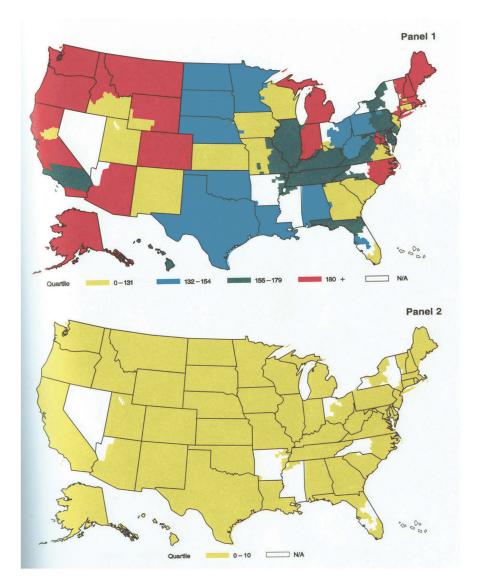


Figure 3. The map of liver transplant candidate waiting times for all those with liver disease (top) and those in urgent need of a liver transplant argued equality of service for critical patients but variable waiting times in some places for non-urgent patients. Source: National Institute of Medicine. Organ Procurement and Transplantation, 58a.

Non-Photorealistic Rendering and Terrain Representation Patrick J. Kennelly and A. Jon Kimerling

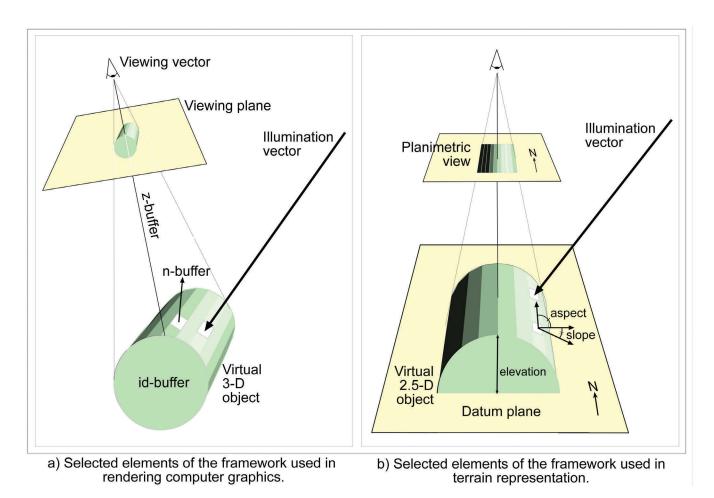
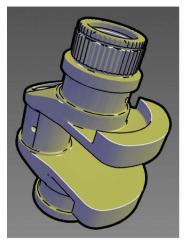
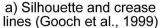


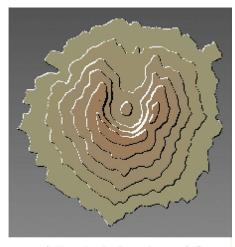
Figure 1. Selected elements of the frameworks used for rendering computer graphics and terrain. a) The geometric buffers used for rendering, including the z-buffer, n-buffer, and id-buffer. Also shown are the relationships among the viewing vector and plane, the 3-D virtual object, and the illumination vector. b) The metrics used for representing terrain, including elevation, slope and aspect. Also shown are the relationships among the planimetrically correct map, the datum plane, and the illumination vector.







b) Illuminated contours (after Imhof, 1982)



c) Illuminated contours (after Kennelly and Kimerling, 2001)

Figure 7. A comparison of illuminated contours with crease and silhouette lines. The right shows silhouette lines in black and crease lines in white designed to communicate the shape and structure of a complex mechanical model (Reprinted from A.A. Gooch and B. Gooch, 1999 with permission from ACM SIGGRAPH). The middle is a hand-rendered illuminated contour map (Modified from the cover of Imhof (1982)). The left is a computer automated illuminated contour map of Mt. St. Helens in Washington state (modified from Kennelly and Kimerling (2001) with permission from Cartography and Geographic Information Science).

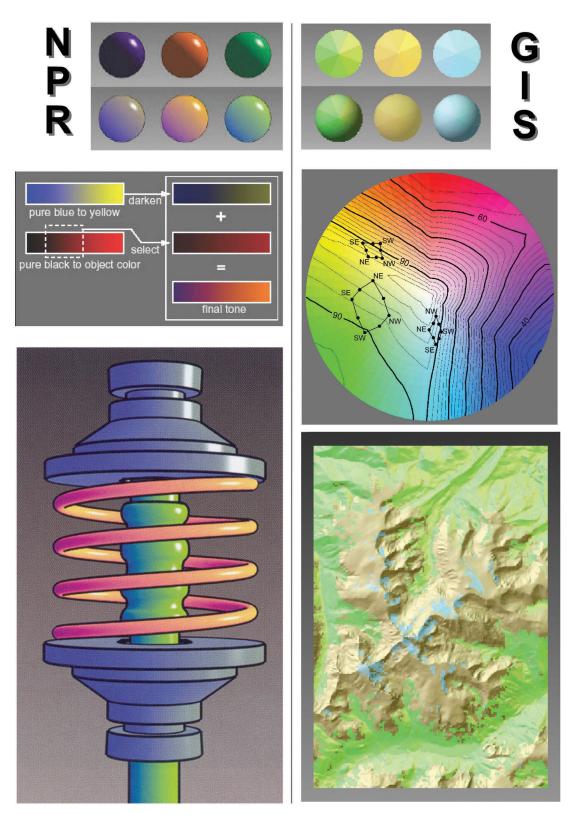


Figure 9. These two coloring schemes add color details and highlights to conventional shading techniques. The NPR technique on the left uses cool to warm undertones to add subtle tonal variations to object colors (From Gooch et al., 1998 with permission from ACM SIGGRAPH). The terrain rendering scheme on the right of a portion of the Absaroka mountains of southwestern Montana uses aspect-variant colors that add luminous highlights and enhance shading of surface elements (Modified from Kennelly and Kimerling (2004) with permission of Cartography and Geographic Information Science).

From Afghanistan to Iraq in Media Maps: Journalistic Construction of Geographic Knowledge Robert R. Churchill and E. Hope Stege

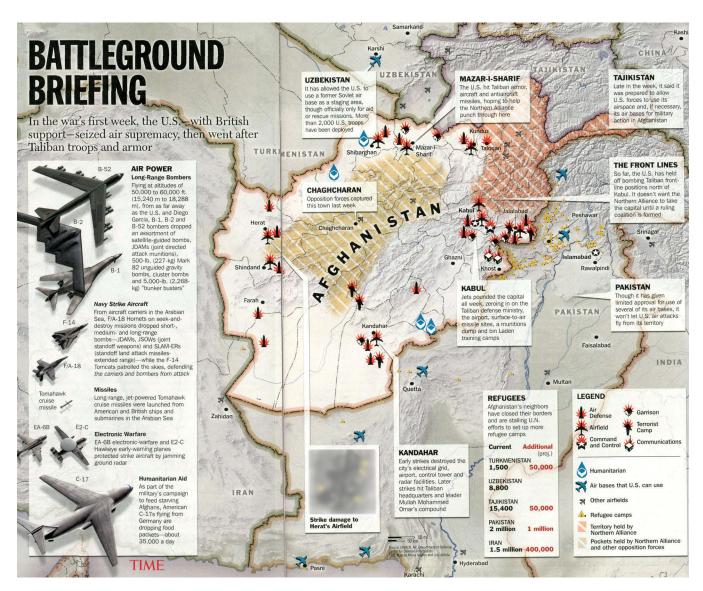


Figure 1. "Battleground Briefing." Time, 22 October, 2001. © 2006 Time Inc. All rights reserved. Reprinted from **Time Magazine** ® with permission. Cartography by Missy Adams and Joe Lertola.

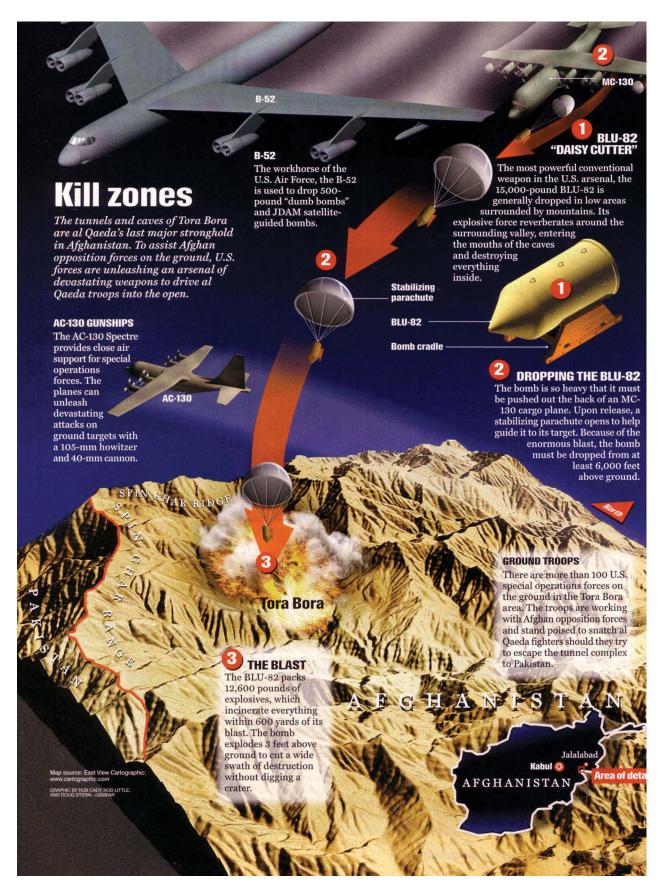


Figure 2. "Kill Zones." U.S. News & World Report, 24 December, 2001. Copyright 2001 U.S. News & World Report, L.P. Reprinted with permission. Cartography by Rob Cady, Rod Little, and Doug Stern.

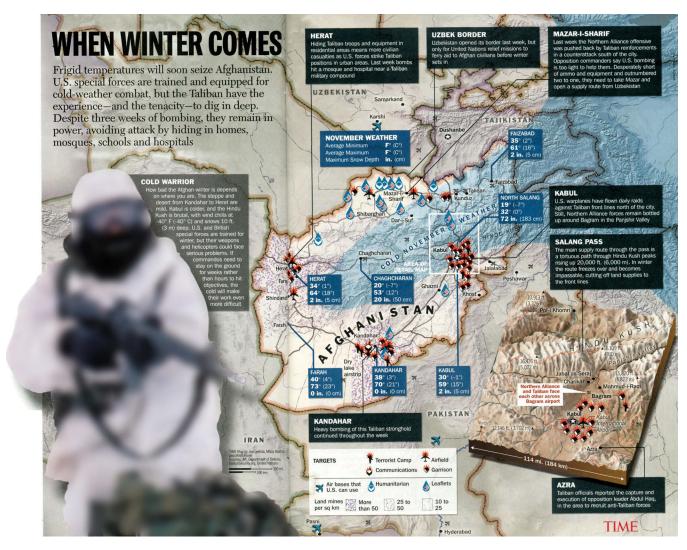


Figure 3. "When Winter Comes." Time, 5 November, 2001. Satellite images courtesy of Space Imaging. © 2006 Time Inc. All rights reserved. Reprinted from **Time Magazine** ® with permission. Cartography by Joe Lertola, Missy Adams, and Mitch Frank.



Figure 5. "Saddam's Game." Time, 2 September, 2002. © 2006 Time Inc. All rights reserved. Reprinted from **Time Magazine** ® with permission. Cartography by Jackson Dykman.

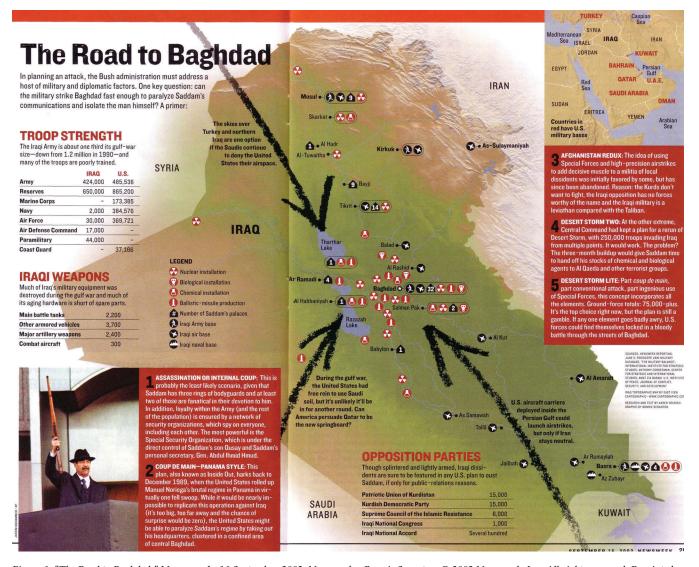


Figure 6. "The Road to Baghdad." Newsweek, 16 September, 2002. Newsweek—Bonnie Scranton. © 2002 Newsweek, Inc. All rights reserved. Reprinted by permission. Cartography by Bonnie Scranton.

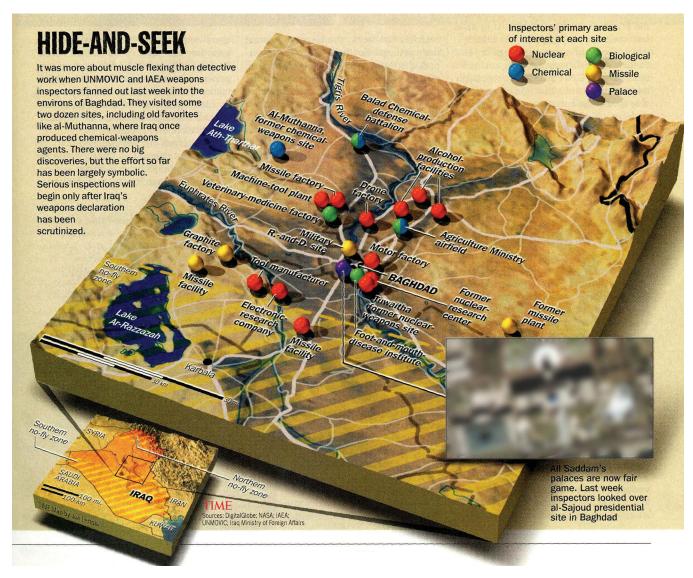


Figure 7. "Hide-And-Seek." Time, 16 December, 2002. © 2006 Time Inc. All rights reserved. Reprinted from Time Magazine ® with permission. Cartography by Joe Lertola.



Figure 8. "Strike Force." Time, 17 March, 2003. © 2006 Time Inc. All rights reserved. Reprinted from **Time Magazine** ® with permission. Cartography by Jackson Dykman.

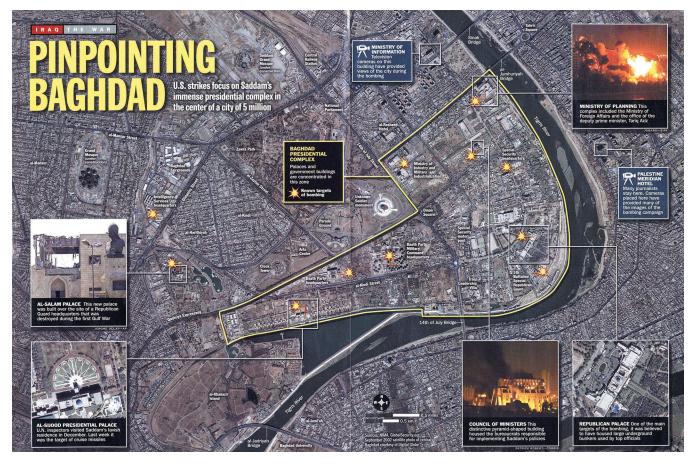


Figure 9. "Pinpointing Baghdad." Time, 31 March, 2003. © 2006 Time Inc. All rights reserved. Reprinted from Time Magazine @ with permission. Satellite image courtesy of DigitalGlobe.