

# Form-Based Zoning

## THE PRINCIPAL DIFFERENCES BETWEEN FORM-BASED AND TRADITIONAL ZONING

**Prescriptive, Contextual Standards.** Traditional zoning *proscribes* minimum setbacks, permitting building placement anywhere within the allowable zone. Form-based zoning *prescribes* build-to lines, specifically defining desired development patterns. Based on ideal urban forms or contextual cues, form-based zoning ensures that new development will be appropriate to community vision or existing character.

**Encouraging Mixed Use.** By rigidly focusing on land use, traditional zoning makes mixed-use development difficult, if not impossible. Form-based zoning de-emphasizes land-use regulation, allowing the market to determine the use. For example, form-based regulation would prescribe large windows and entrances oriented toward the street to promote ground-floor retail. Form-based zoning encourages a healthy mix of retail and residential uses, and aims to curb sprawl and reduce car dependence by removing elements of the zoning code that encourage exclusionary housing practices and density restrictions.

**Adapting to the Market.** By prescribing use, traditional zoning attempts to predict demand. Uses that are no longer threats to public health are still segregated (e.g., office and light industrial from residential uses). Residential zoning regulations adopted when household size was on the rise cannot adapt to modern needs of empty nesters and young, childless professionals without extensive revision. Form-based zoning restores use determination to the market, allowing the use to automatically adapt to demographic and market shifts. Some designers of form-based codes find that, in the early stages of adoption, prescribing a mix of uses may be necessary to wean developers from the ingrained practice of segregating uses. Freeing the real estate market to respond to changes in demand has been shown to increase property values. Regionally, improving the quality of life through form-based zoning may lead to a competitive advantage in attracting a talented labor force.

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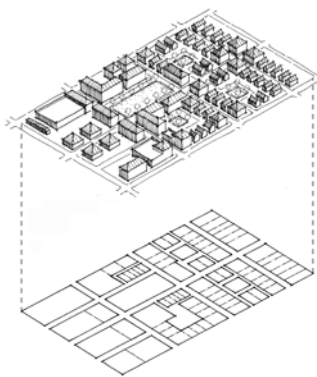
## COMPONENTS OF THE FORM-BASED APPROACH

**The Regulating Plan.** The regulating plan illustrates where form-based codes apply and guides developers to implement them properly. It classifies sites according to street, block, and district characteristics and includes easy-to-follow illustrations of build-to lines, projected building footprints, location of public spaces, and allowable building types specific for each site. Developers and planners view the site as part of a larger, unified design. Unlike traditional zoning maps, which provide little information about vacant land, regulating plans provide a vision of future development.

Overlay: The Bixby Company; Photo: Stephen Laxton



Matt Tucker



**Building Envelope Standards.** Building envelope standards ensure that development fits the desired character of the zone, regulating building height, placement, and orientation. The standards prescribe the ideal. For example, height parameters define the minimum height needed to define the street edge and a maximum height allowable to fit the context. In addition, the standards prescribe the ideal number of stories to prevent developers from minimizing floor-to-ceiling heights to fit more floors within the height parameters.

**Architectural Standards.** Architectural standards are used to achieve a community's aesthetic vision. They are highly subjective and are best determined through public participation techniques (e.g., design charrettes). In designated historic districts, architectural standards can be

*(Continued on back.)*

*Cross sections help define the desired character of the street. The regulating plan (right) illustrates a three-dimensional vision, more detailed than a simple lot-based zoning map.*

highly regulatory, governing building scale, architectural features, building materials (e.g., siding for housing) and even construction techniques. They are *not a requirement* in form-based codes.

**Street Standards.** Street standards share the same objective as architectural standards, but instead apply to hardscape and landscape materials, including tree species and paving type. They are key to developing a coherent streetscape and a connection to public space. Although street standards vary in specificity, they are more prescriptive than architectural standards and are an essential component of form-based codes.

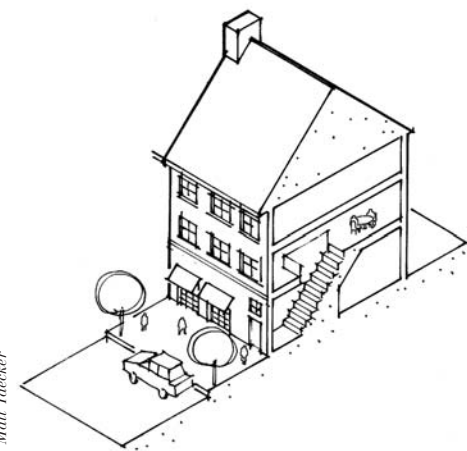
## APPLICATION OF FORM-BASED ZONING

**Form-Based Coding.** This technique provides detailed prescriptions of physical form in a well-illustrated, clear plan. The clarity and prescriptive nature of the plan allows developers to avoid the long, unpredictable review processes common to traditional zoning.

Form-based coding often is implemented through a “parallel” approach where new codes are applied as an option to existing codes. Incentives for using the form-based option, including expedited permitting processes and tax breaks, can enhance its appeal to developers and lead to implementation. Developers and architects praise the clarity of a form-based code and the more predictable, streamlined review process. Also, citizens value the opportunity to shape their communities through public design charrettes. Still, adoption and implementation of form-based codes requires considerable political will to overcome skepticism among politicians and creditors.



*The diversity of paving and plantings create a vibrant pedestrian experience.*



*The live-work unit is a popular housing alternative for home-based entrepreneurs.*

**Form District Zoning.** This technique defines districts according to distinguishable development patterns or desired formal characteristics, such as building form and orientation, street grid, and streetscape. This approach can apply to an entire region or specific districts within a city or region with common characteristics (e.g., architectural style or proximity to transit stations).

Current applications of form district zoning use a two-tiered approach to incorporate

existing zoning regulation. The form districts regulate physical form and design while existing zoning districts regulate use.

Form district zoning respects and adheres to the diversity of existing patterns while providing developers a more flexible and predictable development process. Developers praise its ability to promote context-sensitive design while not being overly restrictive. The two-tiered approach is a politically feasible way to rezone an entire region. As form district zoning becomes more established, it may merge with elements of use-based zoning, creating a hybrid option. *Franz Heitzer* ■

## Examples of Form-Based Codes

Arlington, Virginia, Columbia Pike Special Revitalization District Form-Based Code, [www.co.arlington.va.us/forums/columbia/current](http://www.co.arlington.va.us/forums/columbia/current)

Austin, Texas, Traditional Neighborhood District Ordinance, [www.ci.austin.tx.us/development/ldc1.htm](http://www.ci.austin.tx.us/development/ldc1.htm)

Columbus, Ohio, Traditional Neighborhood Development Article, [www.columbusinfobase.org/eleclib/elechome.htm](http://www.columbusinfobase.org/eleclib/elechome.htm)

Gainesville, Florida, Land Development Code, Traditional City Neighborhood Development, [comdev.cityofgainesville.org](http://comdev.cityofgainesville.org)

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## References

### THE PRINCIPAL DIFFERENCES BETWEEN FORM-BASED AND TRADITIONAL ZONING

#### 1. Published by American Planning Association

Kayden, Jerold S. 2004. "Reconsidering Zoning: Expanding an American Land-Use Frontier." *Zoning Practice*, January.

Rouse, David C., Nancy L. Zobl, and Graciela P. Cavicchia. 2001. "Beyond Euclid: Integrating Zoning and Physical Design, Part Two: Emerging Tools for an Integrated Development Approach." *Zoning News*, November.

2001. "Beyond Euclid: Integrating Zoning and Physical Design, Part One: The Evolution of Physical Design in Zoning." *Zoning News*, October.

#### 2. Other Resources

Chael, Maurice. 2003. "The Smartcode: A Weapon to Fight the Sprawl War." [Accessed June 18, 2004]. Available at [www.tndtownpaper.com/Volume5/smartcode.htm](http://www.tndtownpaper.com/Volume5/smartcode.htm).

Crawford, Paul. 2003. "History of Sprawl and New Urban Codes." *The Town Paper, Council Report IV: On Codes*, 46-47.

Ferrell, Geoffrey, and Mary Madden. 2002. "Form-Based Coding." *The Town Paper*, August, 12.

Frangos, Alex. 2003. "What's New Urbanism Worth?" *Wall Street Journal*. December, 24.

Jefferson, County of. 2003. *Land Development Code: Executive Summary, Chapter 5: Form District Regulation*. March 1.

Katz, Peter, and Geoffrey Ferrell. 2002. "Introduction to Form-Based Codes." *The Town Paper, Council Report IV: On Codes*, 48-49, 61.

Lanford, Brent. 2003. "The Future of Civic Life: New Rules Concerning Urban Design Could Make Sprawl a Thing of the Past." *Charleston City Paper*, June 18, 2003.

Lewis, Megan. 2004. "Form-Based Zoning." Summary of session at 2004 APA national conference. [Accessed June 16, 2004]. Available at [www.planning.org/conferencecoverage/2004/tuesday/formbased.htm](http://www.planning.org/conferencecoverage/2004/tuesday/formbased.htm).

Lynch, Timothy. 2003. "Form-Based Code: What and How?" *Land Development*, Fall, 26-28.

Palo Alto, City of. Department of Planning and Community Environment. 2001. *Types of Zoning Codes and Formats*, July.

Peirce, Neil. 2003. "Zoning: Ready to Be Reformed?" *Washington Post Writers Group*, February.

Wilson, Alex T. 1998. *Green Development Integrating Ecology and Real Estate*. New York: John Wiley, & Sons.

## COMPONENTS OF THE FORM-BASED APPROACH

### 1. Published by American Planning Association

Duany, Andres, and Emily Talen. 2002. "Transect Planning." *Journal of American Planning Association* 68, no. 3 (Summer): 245-266.

Parfrey, Eric. 2004. "Duany, New Urbanists, and 'Form-Based' Zoning Dominate State APA Conference." *Planners Tabloid*, Sacramento Valley Section, California Chapter, American Planning Association, January. [Accessed June 14, 2004]. Available at [www.sactoapa.org/newsltr/news0312.pdf](http://www.sactoapa.org/newsltr/news0312.pdf).

Ross, Lynn. 2004. "New Urbanist Codes." Summary of session at 2004 APA national conference. [Accessed June 14, 2004]. Available at [www.planning.org/conferencecoverage/2004/sunday/newurbcodes.htm](http://www.planning.org/conferencecoverage/2004/sunday/newurbcodes.htm).

Rouse, David C., and Nancy L. Zobl. 2004. "Form-Based Development Codes." *Zoning Practice*, May.

### 2. Other Resources

Arlington, County of. 2003. *The Columbia Pike Special Revitalization District Form-Based Code; Proposed Section 20 (Appendix A) of the Columbia Pike Zoning Ordinance*. February 18.

Burdette, Jason T. 2004. "Form-Based Codes: A Cure for the Cancer Called Euclidean Zoning?" Unpublished manuscript. Department of Urban and Regional Planning, Virginia Polytechnic Institute and State University. [Accessed June 18, 2004]. Available at [scholar.lib.vt.edu/theses/available/etd-05122004-113700/unrestricted/BurdetteFINALmajorpaper.pdf](http://scholar.lib.vt.edu/theses/available/etd-05122004-113700/unrestricted/BurdetteFINALmajorpaper.pdf).

Dover, Victor. 2001. *Charrettes for New Urbanism*. [Accessed June 18, 2004]. Available at [www.doverkohl.com/writings\\_images/charrettes\\_for\\_NU\\_in\\_FL.htm](http://www.doverkohl.com/writings_images/charrettes_for_NU_in_FL.htm).

\_\_\_\_\_. 2003. "A Townmaker's Vision of a Livable Community." *Proceedings of the Second Annual new Partners for Smart Growth: Building Safe, Healthy, and Livable Communities*. [Accessed June 18, 2004]. Available at [www.growingsensibly.org/archive/archiveDetail.asp?objectID=1257](http://www.growingsensibly.org/archive/archiveDetail.asp?objectID=1257).

Katz, Peter, and Geoffrey Ferrell. 2002. "Introduction to Form-Based Codes." *The Town Paper, Council Report IV: On Codes*, 48-49, 61.

Palo Alto, City of. Department of Planning and Community Environment. 2001. *Types of Zoning Codes and Formats*. July.

Santa Barbara, County of. 2003. *The Isla Vista Form-Based Regulating Code: Chapter 6 of the Draft Isla Vista Master Plan: Building Type Codes*. June 5.

## APPLICATION OF FORM-BASED ZONING

### 1. Published by American Planning Association

Greenberg, Ellen. 2004. "From Building to Region: New Urbanist Regulation in Place." In *Codifying New Urbanism: How to Reform Municipal Land Development Regulations*. Planning Advisory Service Report No. 526. Chicago: American Planning Association, pp. 39-80.

Rouse, David C., and Nancy L. Zobl. 2004. "Form-Based Development Codes." *Zoning Practice*, May.

Russell, Joel. 2004. "Putting New Urbanism to Work in Your Community." In *Codifying New Urbanism: How to Reform Municipal Land Development Regulations*. Planning Advisory Service Report No. 526. Chicago: American Planning Association, pp. 25-38.

### 2. Other Resources

Alminana, Robert, Paul Crawford, Andres Duany, Laura Hall, Steve Lawton, and David Sargent. 2003. *White Paper on Smart Growth Policy in California*. Governor's Office of Planning and Research. California. [Accessed June 18, 2004]. Available at [fisherandhall.com/OPR/WhitePaper.pdf](http://fisherandhall.com/OPR/WhitePaper.pdf).

Chael, Maurice. 2003. "The Smartcode: A Weapon to Fight the Sprawl War." [Accessed June 18, 2004]. Available at [www.tndtownpaper.com/Volume5/smartcode.htm](http://www.tndtownpaper.com/Volume5/smartcode.htm).

Dover, Victor. 2003. "A Townmaker's Vision of a Livable Community." *Proceedings of the Second Annual new Partners for Smart Growth: Building Safe, Healthy, and Livable Communities*. [Accessed June 18, 2004]. Available at [www.growingsensibly.org/archive/archiveDetail.asp?objectID=1257](http://www.growingsensibly.org/archive/archiveDetail.asp?objectID=1257).

French, Christopher, Deborah Bilitski, and Charles Cash. 2004. "APA Powerpoint Presentation on Form-based Coding." Presentation at 2004 APA national conference. [Accessed June 18, 2004]. Available at [www.loukymetro.org/Department/PlanDesign/pdf/APA\\_Powerpoint.pdf](http://www.loukymetro.org/Department/PlanDesign/pdf/APA_Powerpoint.pdf).

Freund, Adrian P. 1997. "FORM, Character and Context in Jefferson County, Kentucky." APA San Diego Conference Proceedings. [Accessed June 6, 2004]. Available at [www.asu.edu/caed/proceedings97/freund.html](http://www.asu.edu/caed/proceedings97/freund.html).

Jefferson, County of. 2003. *Land Development Code: Executive Summary, Chapter 5: Form District Regulation*. March 1.

Katz, Peter, and Geoffrey Ferrell. 2002. "Introduction to Form-Based Codes." *The Town Paper, Council Report IV: On Codes*, 48-49, 61.

Katz, Peter. 1994. *The New Urbanism: Toward an Architecture of Community*. New York: McGraw-Hill.

\_\_\_\_\_. 2003. "Beyond Zoning: New Approaches to Development Regulation." Presentation to the forum at Redwood City. [Accessed June 15, 2004]. Available at [www.redwoodcity.org/misc/morehottopics/pdf/Forum\\_Summary\\_031203.pdf](http://www.redwoodcity.org/misc/morehottopics/pdf/Forum_Summary_031203.pdf).

Lewis, Megan. 2004. "Form-Based Zoning." Summary of session at 2004 APA national conference. [Accessed June 16, 2004]. Available at [www.planning.org/conferencecoverage/2004/tuesday/formbased.htm](http://www.planning.org/conferencecoverage/2004/tuesday/formbased.htm).

Peirce, Neil. 2003. "Zoning: Ready to Be Reformed?" *Washington Post Writers Group*, February.

Porter, Douglas. 1997. *Managing Growth in America's Communities*. Washington, DC: Island Press.

## Examples of Form District Zoning

Atlanta, Georgia, Quality of Life Zoning Districts, [apps.atlantaga.gov/citydir/DPCD/Bureau\\_of\\_Planning/BOP/Zoning/Web\\_Pgs/zoningdistricts.htm](http://apps.atlantaga.gov/citydir/DPCD/Bureau_of_Planning/BOP/Zoning/Web_Pgs/zoningdistricts.htm)

Louisville Metro Government, Kentucky, Old Louisville/Limerick Traditional Neighborhood Zoning District Land Development Code Including Form Districts, [www.loukymetro.org/Department/PlanDesign/lcd.asp](http://www.loukymetro.org/Department/PlanDesign/lcd.asp)

McKinney, Texas, McKinney Regional Employment Center, Urban Design Standards, [www.mckinneytexas.org/develop/plan.htm](http://www.mckinneytexas.org/develop/plan.htm)

Seattle, Washington, Station Area Overlay District Ordinances, [www.cityofseattle.net/planning/transportation/SAP/CouncilActions.htm](http://www.cityofseattle.net/planning/transportation/SAP/CouncilActions.htm)