

# Bookdown test

subtitle goes here

Jack Dougherty and contributors

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# Preface

This is a test book

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## Authors and Contributors

Info about each author

and contributor

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# Chapter 1

## Video Tests

Problem: Video stream content from CT Digital Archives and Trinity Kaltura automatically runs in autoplay mode in web browsers, and I have not yet found a consistent way to block this from happening.

**BEFORE TESTING:** TEST in both Firefox and Chrome for auto-play issue. Make sure that your browser settings do NOT block autoplay content by default, since we cannot ensure that users will have same browser settings as developers.



Figure 1.1: Here's a sample YouTube caption, with option to add Markdown links and footnote to full video at CTDA.

**1.0.0.0.1 Best solution so far: Upload relevant clip to YouTube to display as iframe in web edition, with static image in PDF/Word**

**editions, with caption link and footnote to full video, uploaded for historical preservation to CTDA or Kaltura**

### Issue Background

Here is an oral history video as displayed on the CTDA site, which does NOT autoplay:

<https://collections.ctdigitalarchive.org/islandora/object/120002:172>

Here is the CTDA MP4 video stream for that object, which runs AUTOPLAY in Chrome and FFox for Mac (and perhaps other browsers). CTDA says there is no setting to turn off autoplay from datastreams

<https://collections.ctdigitalarchive.org/islandora/object/120002:172/datastream/MP4>

The stream above also works with this “view” ending, but also runs autoplay:

<https://collections.ctdigitalarchive.org/islandora/object/120002:172/datastream/MP4/view>

### Failed: iframe with autoplay=false

Here is Bookdown code-chunk that displays CTDA video in web edition, static image in PDF edition, BUT CANNOT TURN OFF AUTOPLAY using the iframe method, even if I add “?autoplay=0” or “?autoplay=false” to the end of the src string, as suggested in Stackoverflow further below.

Also tried but did not succeed in adding a “no autoplay” command to the iframe through jQuery in the custom-script.html

### Not Bookdown-friendly: HTML5 video tag solution

Here’s a solution using the HTML5 video tag, which inserts user “controls” but omits “autoplay”.

The HMTL5 video tag solution stops autoplay, but it is NOT ideal for Bookdown-generated books because:

- Bookdown/knitr does not *appear* to support the HMTL 5 video tag in the same way as it supports knitr::include\_url. I could submit a request to Bookdown to support HTML5 video tag, but it’s not likely to happen soon....
- This means that I cannot use Bookdown built-in support for figures using the HMTL5 video tag, such as:



Figure 1.2: Here's a sample CTDA video caption, with option to add Markdown link and footnote.

- the if-else statement in the R code-chunk that places the interactive iframe in HTML and the static floating image in the PDF, but the same caption for both
- figure auto-numbering, such as Figure 1.2, 1.3, etc.

#### **Failed: iframe solution with short video clip, stored locally, with custom script - but it autoplays**

An alternative method is to store the video locally and display with HTML5 video tags, with a custom-script to stop auto-play. But Bookdown does not recognize HMTL5, so no figure auto-numbering and captions will be displayed, and therefore not ideal, as described above.

#### **More resources**

See Stackoverflow discussions about HTML iframe, HTML5 video, and autoplay:

<https://stackoverflow.com/questions/49256942/how-to-disable-autoplay-video-in-iframe> and <https://stackoverflow.com/questions/31956221/how-to-disable-auto-play-for-local-video-in-iframe>

See Google Chrome Developer autoplay policy change in April 2018:

<https://developers.google.com/web/updates/2017/09/autoplay-policy-changes>

See Firefox Developer note for Video HTML5 autoplay:



Figure 1.3: Here's a sample local video clip caption, with option to add Markdown link and footnote.

<https://developer.mozilla.org/en-US/docs/Web/HTML/Element/video>

# Chapter 2

## Notes chapter test

Minor test for note placement

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<sup>1</sup>Philip Tegeler, ed., *Finding Common Ground: Coordinating Housing and Education Policy to Promote Integration* (Washington, DC: Poverty & Race Research Action Council, 2011), <http://www.prrac.org/pdf/HousingEducationReport-October2011.pdf>.

<sup>2</sup>Robert Harvey Whitten, *West Hartford Zoning: Report to the Zoning Commission on the Zoning of West Hartford* (West Hartford, Conn: Zoning Commission, 1924), [http://magic.lib.uconn.edu/magic\\_2/raster/37840/hdimg\\_37840\\_155\\_1924\\_unkn CSL\\_1\\_p.pdf](http://magic.lib.uconn.edu/magic_2/raster/37840/hdimg_37840_155_1924_unkn CSL_1_p.pdf).

<sup>3</sup>Lis Pennington, Emily Steele, and Jack Dougherty, “A Political History of School Finance Reform in Metropolitan Hartford, Connecticut, 1945-2005” (American Educational Research Association conference paper, April 2007), [http://digitalrepository.trincoll.edu/cssp\\_papers/29/](http://digitalrepository.trincoll.edu/cssp_papers/29/).

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<sup>4</sup>Jack Dougherty, “Review of ‘Connecticut’s Public Schools: A History, 1650-2000’ by Christopher Collier,” *Connecticut History* 50, no. 1 (2011): 120–22, [http://digitalrepository.trincoll.edu/cssp\\_papers/41](http://digitalrepository.trincoll.edu/cssp_papers/41).

<sup>5</sup>Jack Dougherty, “Conflicting Questions: Why Historians and Policymakers Miscommunicate on Urban Education,” in *Clio at the Table: Using History to Inform and Improve Education Policy*, ed. Kenneth Wong and Robert Rothman (New York: Peter Lang, 2009), 251–62, [http://digitalrepository.trincoll.edu/cssp\\_papers/4/](http://digitalrepository.trincoll.edu/cssp_papers/4/).

<sup>6</sup>Jack Dougherty, Jesse Wanzer, and Christina Ramsay, “Sheff V. O’Neill: Weak Desegregation Remedies and Strong Disincentives in Connecticut, 1996-2008,” in *From the Courtroom to the Classroom: The Shifting Landscape of School Desegregation*, ed. Claire Smrekar and Ellen Goldring (Cambridge, MA: Harvard Education Press, 2009), 103–27, [http://digitalrepository.trincoll.edu/cssp\\_papers/3/](http://digitalrepository.trincoll.edu/cssp_papers/3/).

<sup>7</sup>Jack Dougherty, “Bridging the Gap Between Urban, Suburban, and Educational History,” in *Rethinking the History of American Education*, ed. William Reese and John Rury (New York: Palgrave MacMillan Press, 2007), 245–59, [http://digitalrepository.trincoll.edu/cssp\\_papers/5/](http://digitalrepository.trincoll.edu/cssp_papers/5/).

**Fourth-level header non-numbered**

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**2.0.0.0.1 Fifth-level header non-numbered** Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.<sup>9</sup>

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Testing hashtag cross-reference to the media chapter

Testing hashtag cross-reference to the subchapter section

Testing html cross-reference to the bibliography chapter

## 2.1 Notes subchapter test

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<sup>8</sup>Jack Dougherty et al., "School Choice in Suburbia: Test Scores, Race, and Housing Markets," *American Journal of Education* 115, no. 4 (August 2009): 523–48, [http://digitalrepository.trincoll.edu/cssp\\_papers/1](http://digitalrepository.trincoll.edu/cssp_papers/1).

<sup>9</sup>Amy Stuart Wells et al., "Boundary Crossing for Diversity, Equity, and Achievement: Interdistrict School Desegregation and Educational Opportunity" (Cambridge MA: Charles Hamilton Houston Institute for Race and Justice, November 2009), [http://charleshamiltonhouston.org/assets/documents/publications/Wells\\_BoundaryCrossing.pdf](http://charleshamiltonhouston.org/assets/documents/publications/Wells_BoundaryCrossing.pdf).

<sup>10</sup>Mark Berends, Marisa Cannata, and Ellen Goldring, eds., *School Choice and School Improvement* (Cambridge Mass.: Harvard Education Press, 2011), <http://www.hepg.org/hep-home/books/school-choice-and-school-improvement>.

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<sup>11</sup>Pennington, Steele, and Dougherty, “A Political History of School Finance Reform in Metropolitan Hartford, Connecticut, 1945-2005.”

<sup>12</sup>Dougherty, “Review of ‘Connecticut’s Public Schools.’”

<sup>13</sup>Tegeler, *Finding Common Ground*.

<sup>14</sup>Whitten, *West Hartford Zoning*.

# Chapter 3

## PDF image testing

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### Testing with and without auto\_pdf

- Define a text reference for captions, because this method accepts complex syntax, such as RMarkdown cites and links, as shown below. For details, see Bookdown sections on Figures <https://bookdown.org/yihui/bookdown/figures.html> and Markdown extensions <https://bookdown.org/yihui/bookdown/markdown-extensions-by-bookdown.html>.
- Insert a BLANK LINE between the text reference and the R code chunk coming up.
- Insert an R code chunk <https://bookdown.org/yihui/bookdown/r-code.html>, with NO SPACES between ref:chunk-label, as shown below.
- To reduce the width (or height) of the output, add `out.width="30%"` to the code chunk, which works for Web edition and also PDF edition. If width is less than full, also insert `fig.align="center"`.
- To display interactive content in the Web edition and a static image in the PDF edition, create both elements and insert an if-else statement in the R code chunk to display these elements in different outputs, as shown below. (Thanks to Michael Dorman for this tip.)
- If the interactive content includes an iframe (for a map or chart), the default height will be 400 pixels. To adjust the iframe height (or width),

---

<sup>1</sup>Tegeler, *Finding Common Ground*.

insert a line of code in `custom-scripts.html` and add a code comment to the text to serve as a reminder, as shown below. Also, make sure that the `index.Rmd` file includes the custom script in the header, as described in the section above.

- Optional: In the body text, insert a dynamic reference to the figure in the same file, because PDF engine creates floating images that may be placed on the next page. Sample dynamic reference to a figure further below: ... as shown in Figure 3.3.
- Reminder: If the image appears a second time in the book, in a separate chapter, be sure to relabel the text ref: year-title2.
- Note: Bookdown does not auto-number figures in the `index.Rmd` file, which serves as a preface or introduction.

TODO for final PDF edition:

- About `auto_pdf`: “`include_graphics()` can be smart enough to use PDF graphics automatically when the output format is LaTeX and the PDF graphics files exist, e.g., an image path `foo/bar.png` can be automatically replaced with `foo/bar.pdf` if the latter exists. PDF images often have better qualities than raster images in LaTeX/PDF output. To make use of this feature, set the argument `auto_pdf = TRUE`, or set the global option `options(knitr.graphics.auto_pdf = TRUE)` to enable this feature globally in an R session.” from <https://bookdown.org/yihui/bookdown/figures.html>
- Decide if ‘`out.width`’ and ‘`out.height`’ is preferable in all cases to “`fig_height=7`”

#### **3.0.0.0.1 Static image in all editions, WITH `auto_pdf`, no interactive version**

**3.0.0.0.2 Same as above, WITHOUT `auto_pdf`, and `out.width` for all set to 50%** Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.<sup>2</sup>

#### **3.0.0.0.3 Interactive iframe in web edition (with adjusted height), static image in PDF edition, WITH `auto_pdf`**

#### **3.0.0.0.4 same as above, WITHOUT `auto_pdf`**

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<sup>2</sup>Whitten, *West Hartford Zoning*.

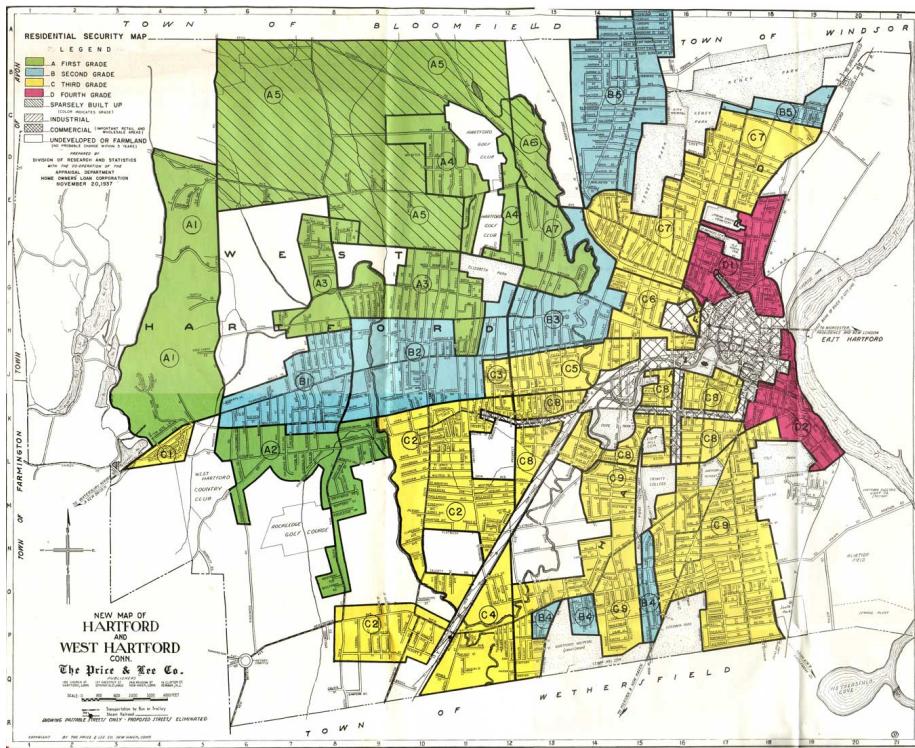


Figure 3.1: Caption for sample static image, with Markdown formatting, links, citation.

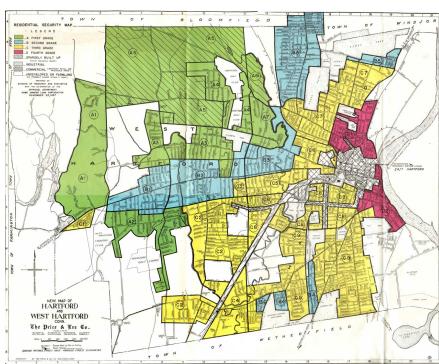


Figure 3.2: Caption for sample static image, with Markdown formatting, links, citation.

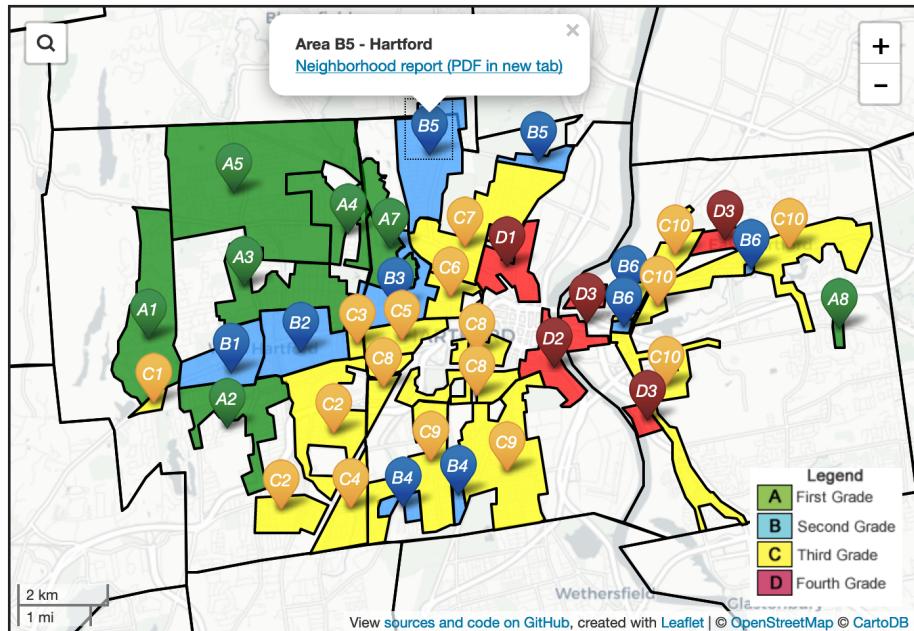


Figure 3.3: Caption for all versions here, with link to full-screen interactive map with its own caption, and link to sources and the code View map historical sources, known issues, and the code, developed by Ilya Ilyankou and Jack Dougherty, with footnote (if I can get it to work)

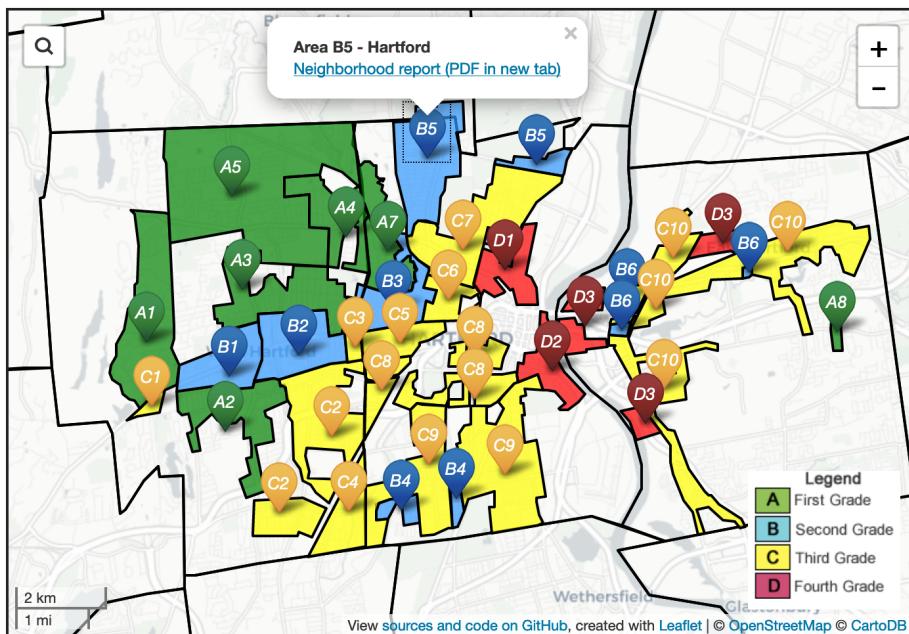


Figure 3.4: Caption for all versions here, with link to full-screen interactive map with its own caption, and link to sources and the code View map historical sources, known issues, and the code, developed by Ilya Ilyankou and Jack Dougherty, with footnote (if I can get it to work)



## Chapter 4

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