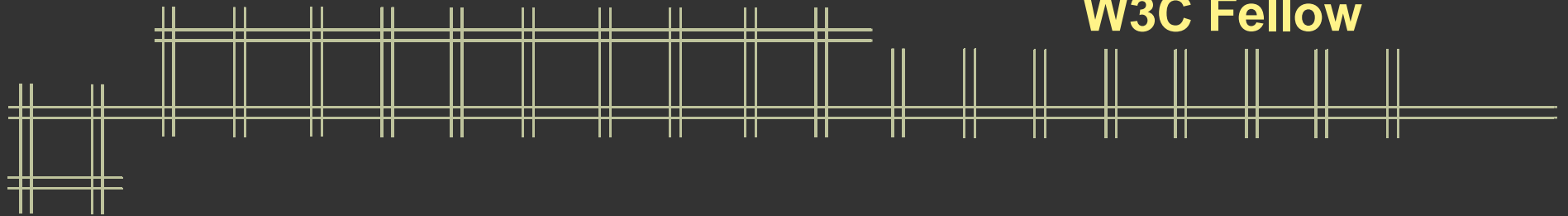


# SVG for the BnF

Scalable Vector Graphics (SVG)  
for the  
Bibliothèque Nationale de France  
(French National Library)

Vincent Hardy  
W3C Fellow



# Agenda

- ✍ What is SVG?
- ✍ The French National Library
- ✍ The SVG on-line exhibition
- ✍ Demonstration
- ✍ Advantages and drawbacks
- ✍ Metrics
- ✍ Conclusion

# About the Speaker

- ✍ Vincent Hardy is a W3C fellow since mid-2001, coming from Sun Microsystems. He has been working in the SVG Working Group since late 1999. Vincent's background is in distributed computing and high-end 2D graphics. Vincent has a Master of Science from the Ecole National Supérieure des Telecommunication in Paris, France.

# What is SVG?

- ✍ SVG = Scalable Vector Graphics
- ✍ A document format for rich, dynamic 2D graphics
- ✍ An XML syntax
- ✍ A W3C recommendation (Septembre 2001)
- ✍ Goal: open and rich 2D vector graphic format for a wide array of applications

# SVG Features

- ✎ Shapes, text, bitmap images
- ✎ Simple geometry or arbitrary shapes
- ✎ Rich fill types (gradients, patterns)
- ✎ Very sophisticated text
- ✎ Text searching and zooming
- ✎ Transparency
- ✎ Graphical filters (e.g., drop shadow)
- ✎ Scripts and Animation
- ✎ Internationalization

# The “Bibliothèque Nationale de France”

- ✍ The french national library has four core missions :
  - ✍ Build and enrich its collections;
  - ✍ Describe its documents;
  - ✍ Restaure and preserve documents;
  - ✍ Make collections available to the public.

# The “BD Européenne” SVG exhibition

## ✍ W3C Goals:

- ✍ Use SVG for an existing and difficult scenario
- ✍ Demonstrate SVG's advantages and flexibility

## ✍ BnF Goals:

- ✍ Experiment with a new Web format
- ✍ Experiment with a new XML format

# Demonstration

- ✍ Zoom & Pan
- ✍ Text search
- ✍ Animation, Navigation
- ✍ Lighter site

Site linked from: <http://www.bnf.fr>



# Results

- ✎ SVG can handle complexity, and large sites
- ✎ SVG has rich and interesting features:
  - ✎ Better rendering than HTML
  - ✎ High-end graphical features
  - ✎ Animation
  - ✎ Indexability (XML)
  - ✎ Accessibility

# Results

- ✎ For example, SVG is able to handle:
  - ✎ Transitions and navigation management
  - ✎ Scrolling
  - ✎ Large volumes

# Metrics

## ✎ Original HTML site:

- ✎ 20Mo
- ✎ 1600 fichiers
- ✎ 635 fichiers HTML

## ✎ SVG site:

- ✎ 9Mo
- ✎ 518 fichiers
- ✎ 207 fichiers SVG

# Conclusion

- ✍ Technically very encouraging:
  - ✍ SVG and HTML can be combined successfully
  - ✍ High-end graphical features are useful
  - ✍ Accessibility & indexability
  - ✍ Content persistence (compared to binary)
- ✍ Challenges:
  - ✍ SVG consultants
  - ✍ Penetration of SVG technology