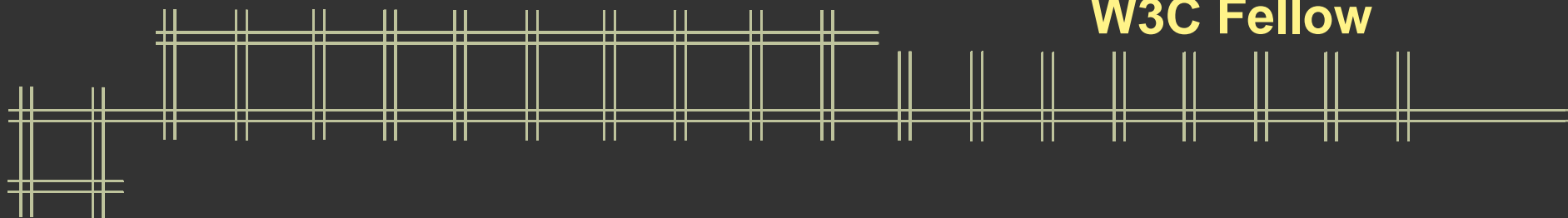


SVG for the BnF

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

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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