



# Leveraging G6's IPv6 Tutorial material for training activity

## Feedback from a G6 member (France)

“Skills for IPv6” Workshop

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# G6: Context & History



- 1995: G6 group created
  - Around INRIA IPv6 stack
  - Co-founded the 6bone network (DK-FR-JP)
- 1998: First edition of G6's Book, "IPv6 Théorie & Pratique"
  - Co-authored by 20+ IPv6 French-speaking experts
- 1998: First version of G6 IPv6 tutorial
  - English was a natural choice, for use at international level
- 2000: G6 became a Non-profit association
  - Organizing G6 activities, notably G6's book update, training/knowledge transfer, testing and research
- 2004: The G6's book put online (wiki): <http://livre.g6.asso.fr/>
- 2009: French IPv6 Task Force got under G6's umbrella
  - 2010: The "French IPv6 Task Force" became a G6 working group called "IPv6 Promotion" ("G6-Training" is another one)

# G6's IPv6 Tutorial material usage:



## A basis for training sessions

- *What is the G6's IPv6 Tutorial*
  - A collective course: 10+ G6 contributors in different specialties over 12 years
  - Modular, adaptable to multiple audiences/needs
  - Generic format: 2 hours - 3 days
- *At National Level (France)*
  - Inside early adopting entities among G6 community: labs, universities, engineering schools (such as TELECOM Bretagne), companies (such as AFNIC)...
  - For training programs by some short/long term ICT training providers: TELECOM Bretagne, CiRen (CINES-RENATER)
  - Interest from private training companies setting up an IPv6 curriculum
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- *At International Level*
  - Many IPv6 workshops and tutorials coupled with international events: IPv6 summit, RIPE meeting 43, AFNIC's FFTI2 program (Advanced Training on ICT) for its "Collège international" ([http://www.afnic.fr/afnic/international/college/fft2\\_en](http://www.afnic.fr/afnic/international/college/fft2_en))
  - Substantially used by European IPv6 projects to build their own tutorial material: 6DISS, 6DEPLOY

# G6's IPv6 Tutorial material usage: A basis for training sessions (cont.)



- For R&D Audience
  - Understand IPv6, what has been done and what still needs to be done
- For Operational Audience
  - Network Architects / Engineers / Developers / Administrators
  - Understand IPv6 concepts and how to integrate it in their environment
- For Students
  - Get up-to-date network skills: IPv6 is still taught in many places as the “Future version of IP” :-)

# Feedback on ground experience:

## Multiple hats, wide scope



- “G6 hat” on: 1998
  - Member of G6’s “Training working group”: IPv6 tutorials (with hands-on) given at multiple events at both National and International levels
- “AFNIC hat” on (my employer): 2002+
  - IPv6 tutorials with hands-on given to both AFNIC’s Registrars (.fr) and “Collège International” community (5 FFTI2 sessions in 5 African countries)
- “Private hat” on: 1998+
  - IPv6 classes/seminars given to French students (different universities and engineering schools)
  - 2002+: Instructor for TELECOM-Bretagne (private activity) within the “IPv6 curriculum): 15+ sessions given (theory and practice), cf.  
<http://www.telecom-bretagne.eu/formation-continue/architecture-reseaux/stage-fcg30-2011.php>

# Feedback on ground experience:



## Witnessed Trends evolution over time

- **Needs have significantly evolved since the early stages of IPv6 adoption**
- Initially (1998-2001), trainees used to ask for IPv6 tutorials for their own networking culture and/or for anticipation
- The main audience profile used to be curious “geeks” and researchers who always want to be ahead of new technology deployment
- A few years later (2003+), we have witnessed growing interest from the operational field (network architects / engineers / administrators / developers...)
- Quite recently, we saw some trainees in “panic mode” (“I need IPv6 now!”) :-)
- Needs are more and more challenging for a single instructor: both in-width and in-depth knowledge/expertise are needed for heterogeneous groups of trainees
- IPv6 Technology watch has never been an option, this will hardly change in the near future (still a long way to go in order to get IPv6 integration/transition mechanisms stabilized)