

## Samuel Hocevar

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Born on 5th August 1978 in  
Forbach (Moselle)  
French nationality  
French driving licence

## Languages

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French	fluent (mother tongue), good grammar and spelling
English	fluent (TOEFL score: 647 in 1997), numerous stays in England, can tell the difference between <i>it's</i> and <i>its</i>
German	good knowledge and practice
Spanish	good knowledge

## Professional experience

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2009–present	Senior R&D Engineer at <b>DONTNOD Entertainment</b> ( <i>C, C++, Unreal Engine, fluid simulations, PS3, Xbox 360, PowePC, SPU, Cell, AltiVec, SSE3</i> )
2006–2009	Director of R&D at [ <b>redacted</b> ], a 700-employee company ( <i>surveillance systems, video streaming solutions, intelligent vision</i> )
2003–2006 (not defended yet)	<b>SNCF</b> - Direction de l'Innovation et de la Recherche, <b>ENST</b> - Laboratoire Informatique et Réseaux: Computer Science Industrial PhD ("Generation of realistic railroad simulations from video images") ( <i>image processing, computer vision, 3D reconstruction, video coding, HDTV, C, Unix</i> )
2002	<b>SNCF</b> - Direction de la Recherche et de la Technologie, unité Nouvelles Technologies de l'Information et de la Communication (Paris, France), 8 months: work on a showpiece for at-seat multimedia services and video streaming research ( <i>C, C++, Unix, Win32, WinCE, MPEG, MPEG2, MPEG4, WiFi</i> )
1998–2002	VideoLAN, video streaming solution and cross-platform DVD player: major project contributor for several years ( <i>C, C++, Unix, Win32, MPEG, MPEG2, DVD</i> )
1999	<b>ClaraNet France</b> (Paris, France), 7 months: systems team - Unix administration, nextwork tools development ( <i>C, PHP, MySQL</i> )

## Training

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2003–2006	(unfinished) École Nationale Supérieure des Télécommunications (ENST), Paris: Computer Science Industrial PhD
1997–2002	École Centrale of Paris: engineer's diploma, electromechanical systems and applied mechatronics speciality, project management specialisation, graduated with honours (mention bien)
1995–1997	Lycée Fabert, Metz (France, Moselle): preparatory classes

## Personal knowledge

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| Operating systems | <ul style="list-style-type: none"><li>- GNU/Linux (administration well-mastered, part of the Debian project)</li><li>- 3rd generation console systems (PS3 &amp; Xbox 360), iOS, Android</li><li>- Solaris, BSD Unix, Mac OS X, GNU/Hurd, Windows</li></ul>   |
| Networks          | <ul style="list-style-type: none"><li>- LAN (Ethernet, ARP, RARP, Token Ring), ATM</li><li>- Cisco IOS, SNMP administration and monitoring</li><li>- low-level Internet: IP, TCP, UDP, ICMP, IGMP</li><li>- high-level Internet: HTTP, NNTP, SMTP, DNS, DHCP, NFS</li></ul>   |
| Administration    | <ul style="list-style-type: none"><li>- 9 years of Unix administration experience, excellent knowledge of the common tools</li><li>- examples of well-known server setups: INN, Apache, BIND, Postfix</li></ul>   |
| Programming       | <ul style="list-style-type: none"><li>- low-level: x86 and amd64 assembly (MMX, SSE, SSE3, excellent knowledge), PowerPC &amp; Cell assembly (AltiVec, SPU), NEC/Saturn assembly (mastered), Z80 and m68k assembly, reverse-engineering</li><li>- high-level: C &amp; C++ (excellent knowledge, several personal and team projects of more than 5,000 lines), C#, Java, Scheme (good knowledge), bases in Pascal and Caml</li><li>- libraries: Xlib, GTK+/GNOME, SDL</li><li>- scripting languages: POSIX shell, PHP, sed and awk well mastered, good knowledge of Python, Perl</li></ul> |
| Other             | <ul style="list-style-type: none"><li>- databases: MySQL, PostgreSQL</li><li>- markup languages: LaTeX2e, SGML, HTML, XHTML, CSS</li><li>- good knowledge of the MPEG and MPEG2 standards (especially the system layer), excellent knowledge of the DVD format</li><li>- excellent image processing skills (various projects, from robot guiding to captcha decoding)</li></ul>   |

## Miscellanea

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| Sports              | <ul style="list-style-type: none"><li>- practical experience of judo for 8 years, soccer, badminton, coneball</li><li>- chess competitions (current ELO: 1860)</li></ul>  |
| Culture and leisure | <ul style="list-style-type: none"><li>- drawing and painting, calligraphy, reading, cinema, XXth century artistic movements, sabotage of oppressive structures, cooking</li><li>- active contributor of the <b>Wikipedia</b> project (French and English versions) since 2004</li></ul> |
| Computers           | <ul style="list-style-type: none"><li>- part of the <b>Debian</b> project since 1999 (Project Leader 2007-2008), various activities amongst the OpenSource community, mostly development</li></ul>  |