

The **HIP method** makes information processing finally possible

ABSTRACT

HIP is a **fundamentally new method** able to archive, arrange and process the totality of information using one single and fixed size data structure, a quadruple called the **Link**.

The HIP method allows the description and archival of all the available information and meta-information, including the HIP system itself, by means of Links. These Links are tied together in such a way that each Link can re-create the context that it needs to constitute the information that it represents. The HIP method does not isolate information and meta-information, it process linked information, called **hiper information**.

The actual state of the art postulates : **information resides in data**. Thus, actual methods are processing *data* and *references to data*. **Databases** process Records and references to Records (FK), **Object oriented languages** process Objects and references to Objects (pointer), **Web** process Pages and references to Pages (URL), **Semantic Web** process Resources&Literals and references to Resources&Literals (Triples)... But data only exists **by** other data. Information resides in the *by*, not in the *byte*.

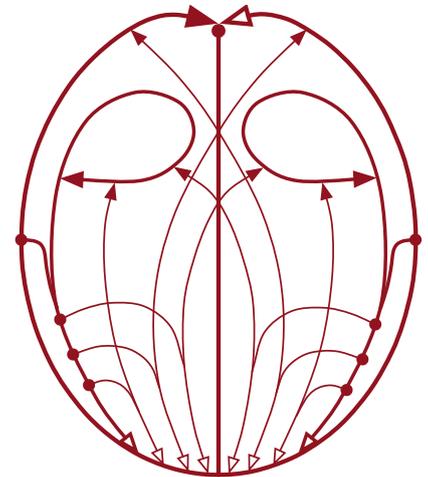
HIP new postulate says : **Information resides in the Links**. Data by itself does not have any existence, it takes meaning **at the moment it links** to other data, and the same applies recursively to all of these other data... Data is uniquely defined as and by a set of Links, therefore *data linked together* are represented by *sets of Links linked together*. At the end, **data disappear, the HIP method process only Links !** A minimal set of Links is required to bootstrap a hiper information system : the **HIP kernel**. Additional time attributes to the Link structure make **chronological Links** and allow a native and incomparable temporal information management.

The HIP method creates information by creating uniquely identified Links. HIP is able to archive and represent **dynamic and complex information patterns**. HIP offers many technological advantages : global identification, global and temporal indexing, multi levels of semantic marking, heterogeneous-dynamic-evolutive-complex modeling, history and projection, persistence of any information...

SHORT BIOGRAPHY

Richard Chappuis, inventor of the HIP method, is a pragmatic and autodidact person.

1985 Audio editing project using modified tape recorders (ReVox) controlled by a Motorola CPU. **1986** Graduate in electronics (Fribourg). Development of user interfaces for machine-tools (Willemin-Macodel, Jura). **1988** Maintenance of audio mixing consoles as electronic engineer (TSR, swiss TV broadcaster, Geneva). **1992** Projects in radio broadcasting and banking domains as software engineering using NeXTSTEP Object Oriented platform, the technology inside the iPhone (Lausanne). **1993** Berners-Lee's first web browser runs on its NeXT computer, but still no way to arrange and store complex informations. NeXTSTEP consulting for the UBS bank (Zürich). **1994** Developments of business information management softwares. **1995** Reverse engineering of a banking software (ERI, Olympic, Geneva). **1997** Software developments for Digital Television : programs scheduler, video-server controllers, digital assets management (Lysis, Lausanne). **1999** Development of a graphical, dynamic and persistent user interface builder. **2001** Development of a method to archive and process temporal structures (TV programs). **2002** HIP researches. **2004** First HIP prototype (Jura). **2006** HIP method patenting (P&TS, Neuchâtel). **2007** "The linked model" white paper. **2008** HE-Arc academic partner involved in a CTI project (Swiss Innovation Promotion Agency). Design of a new approach to interact with computers. **2009** Creapole startup coaching (Jura). CTI Feasibility Study accepted. **2010** Second CTI project accepted to prove the concept with a product, hipSpace. **2012** HIP method patented, US8250039. **2013** Patenting and launching of hipSpace application (hipSpace.net).



Wiring of a **HIP kernel**