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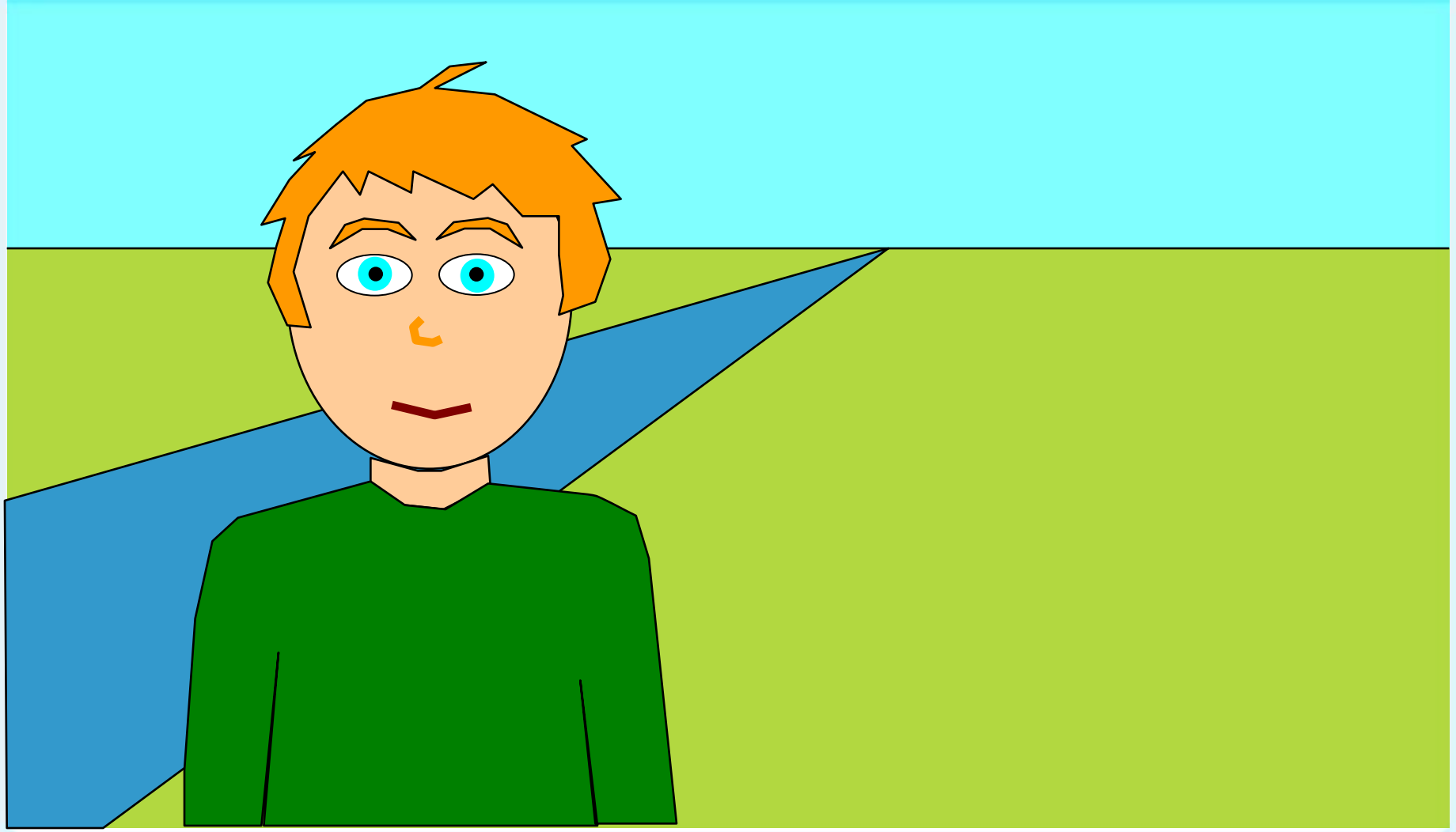
Knowledge sharing on hydromorphology: The REFORM wiki

Erik Mosselman, Gertjan Geerling, Wenen, September 2013



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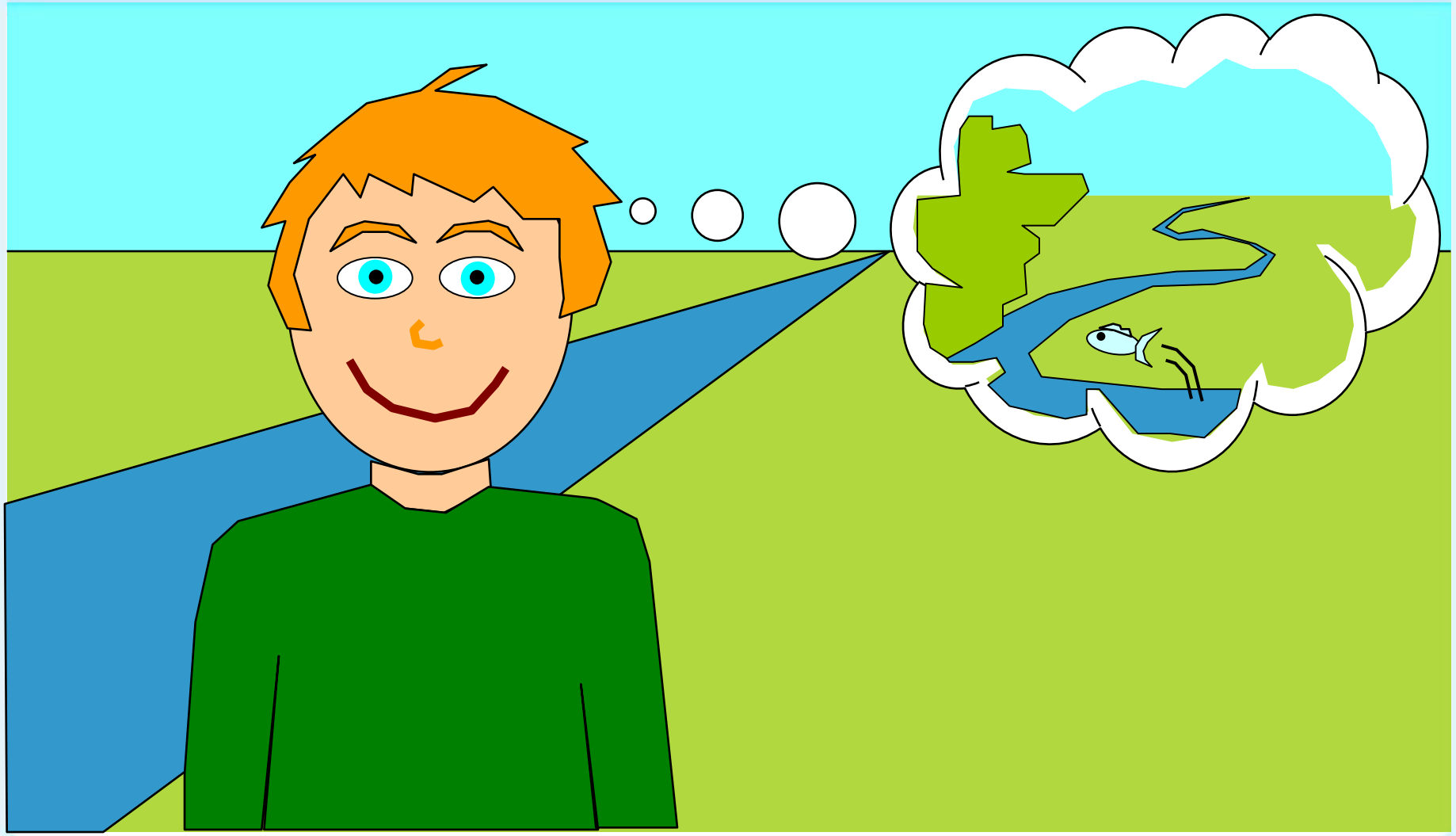

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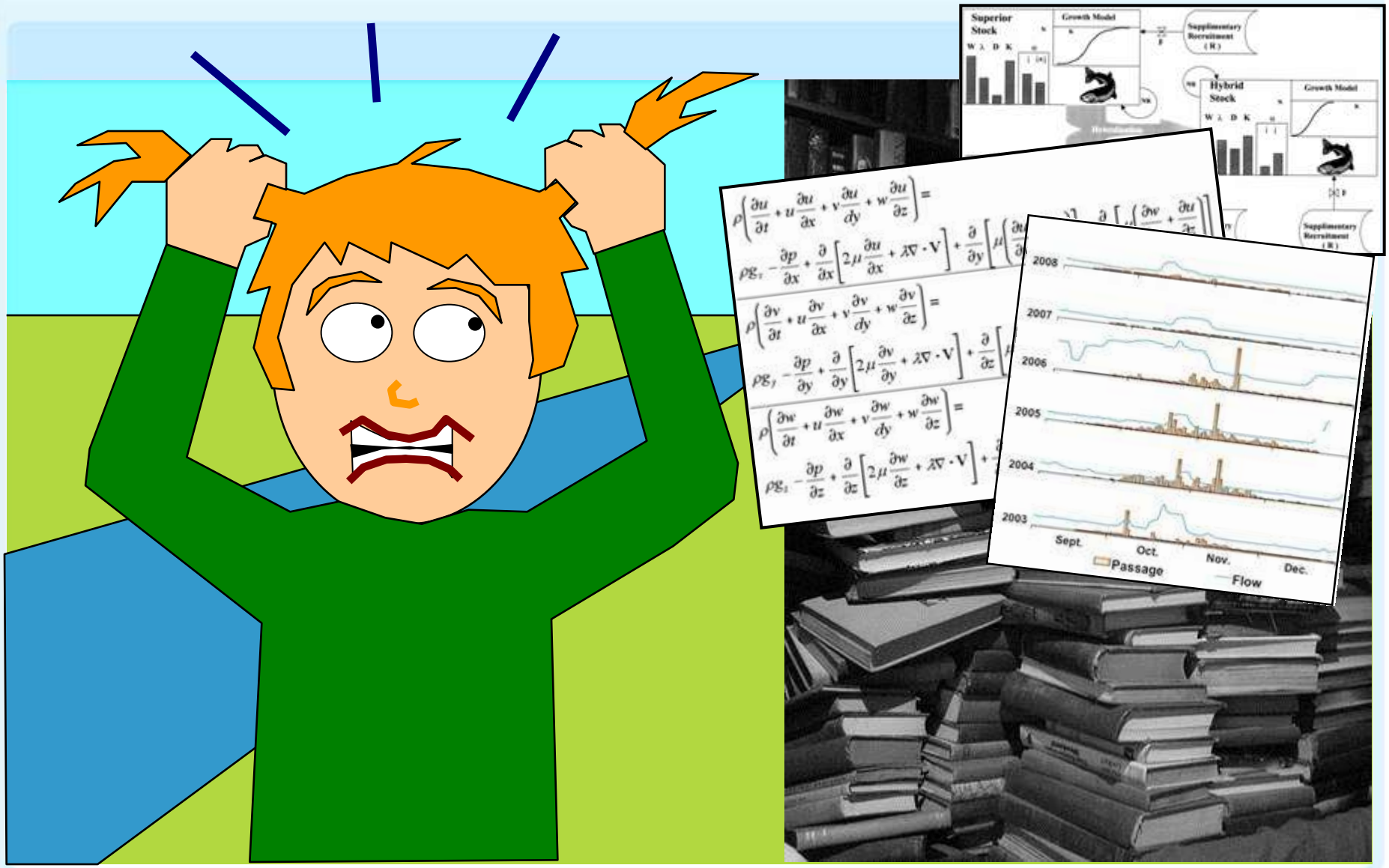

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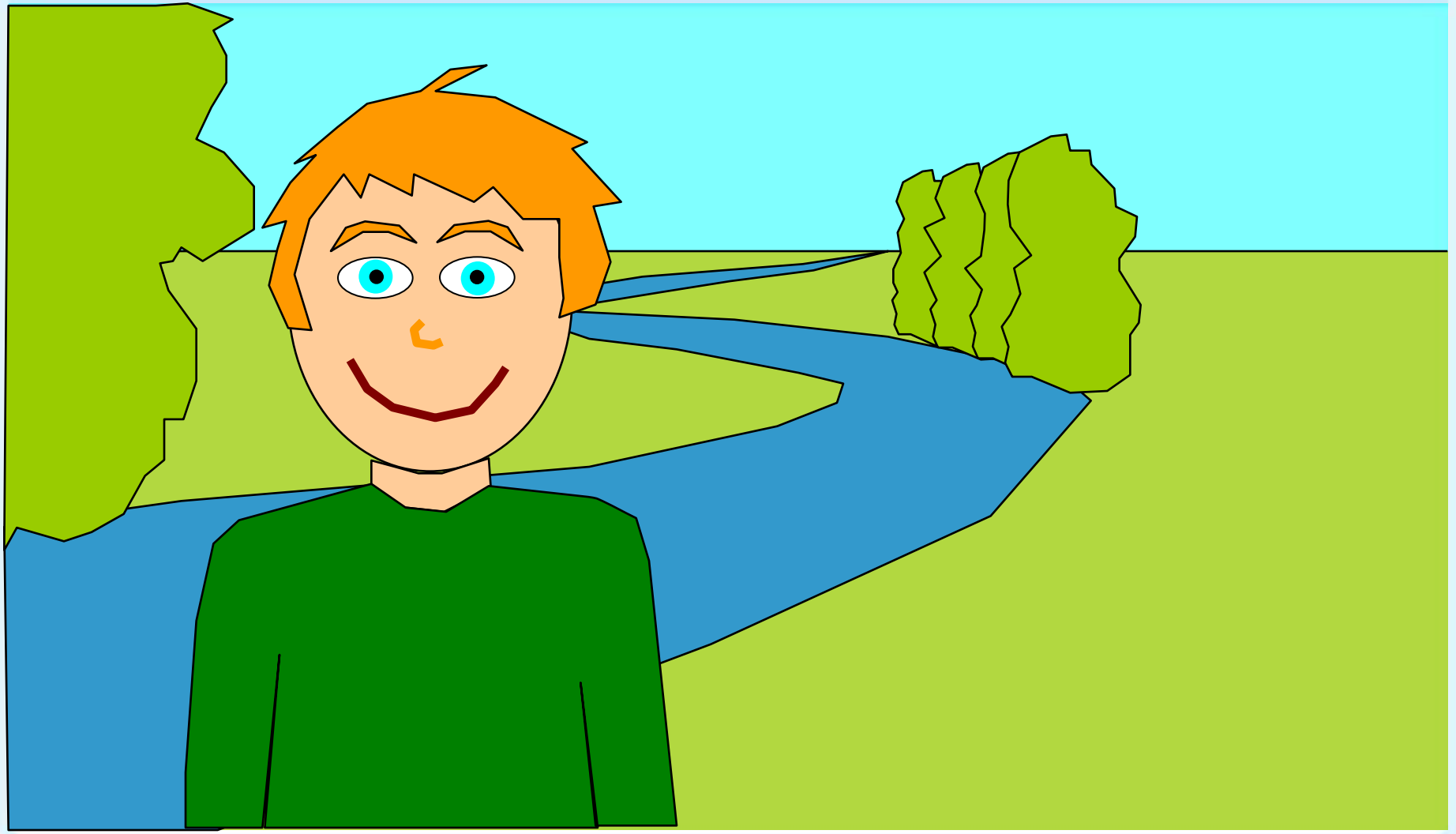

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Interaction with end-users

Communication & Dissemination Strategy

End-user groups: policy makers, practitioners, scientists

Standard

- Website, Newsletters (2/yr), Policy Briefs (3)

Advanced

- WIKI linking theory to practice and experience
- Interactive preparation of end-user workshop
- Interaction with ECOSTAT

Events

- interactive stakeholder workshop (Feb 2013)
- local workshops in case study catchments (tbd)
- summer school (2015)
- final conference (2015)

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Knowledge sharing

Peer-reviewed publications

- for scientists only

Project reports

- poorly traceable
- in national languages

Wiki: web-based knowledge management system

- open access
- web-based translation facilities
- link between science and practice

Wikipedia proves that it works

Structure

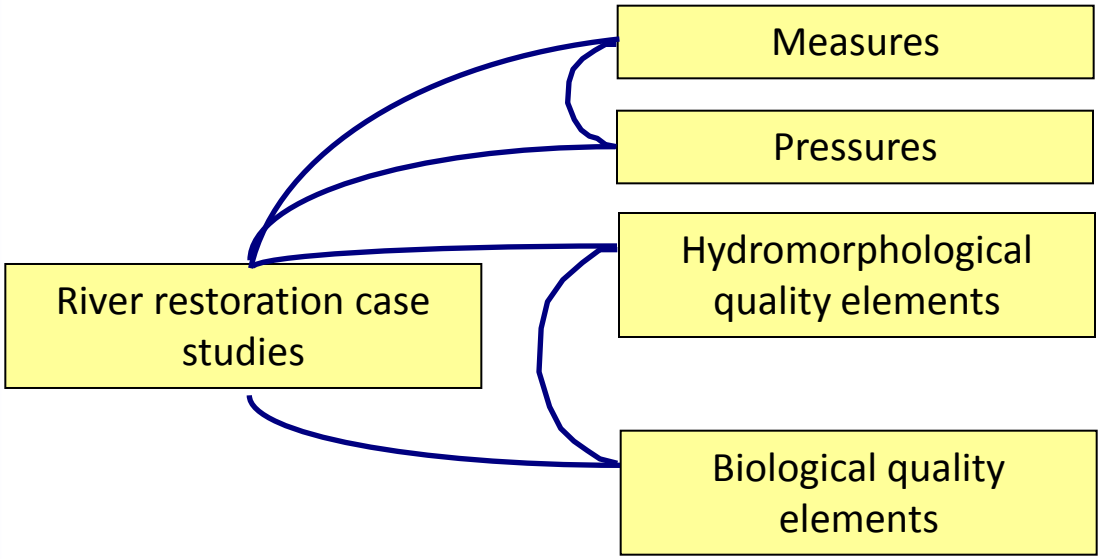
Multilevel structure for tracing relevant information

- *Geographically:*
  - Locations in Google Maps
- *Thematically:*
  - Database:
    - essential facts
    - filter for relevant case studies in Google Maps
    - live links
  - Wiki: information according to standardized table of contents
  - Links to internal and external background information

Structure: live links in FORECASTER wiki

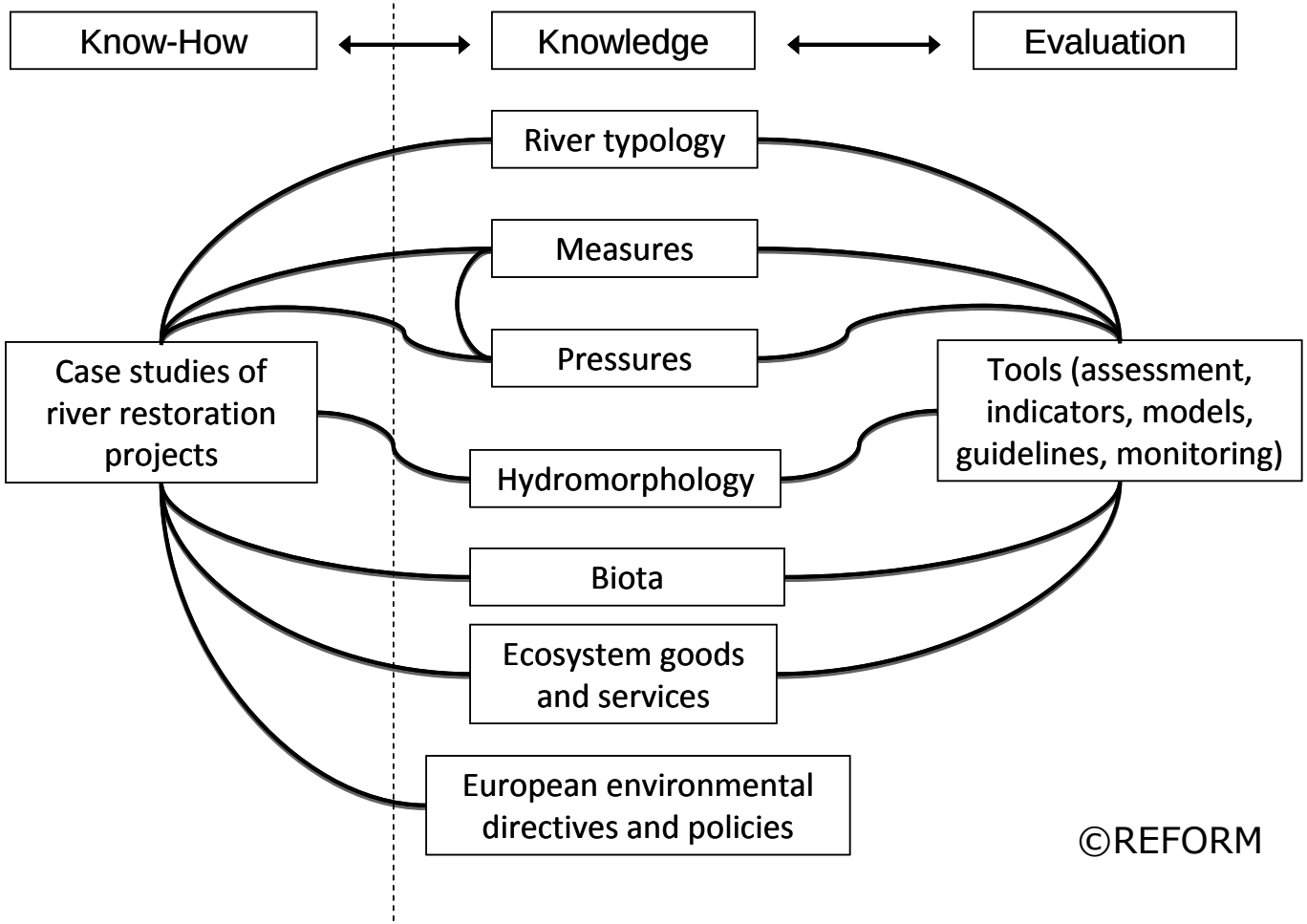
Know-how

Knowledge



REFORM GEO-WIKI

Open source web-based knowledge management system



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DEMO WIKI

Hierarchical process-based HYMO framework that is ecologically relevant

Indicative Space Scale	Scale Linkages	Indicative Time Scale
$>10^4$ km^2	Region	$>10^4$ years
10^2 - 10^4 km^2	Catchment	10^3 - 10^4 years
10^2 - 10^3 km^2	Landscape unit	10^3 - 10^4 years
10^1 - 10^2 km	Segment	10^2 - 10^3 years
10^{-1} - 10^1 km (20+ *widths*)	**Reach**	10^1 - 10^2 years
10^0 - 10^2m (0.1 - 20 widths)	Geomorphic unit	10^0 - 10^1 years
10^{-1} - 10^1 m (5 - 20 D_{50})	Hydraulic unit	10^{-1} - 10^1 years
10^{-2} - 10^{-1} m (10^0 - 10^1 D_{50})	River element	10^{-2} - 10^0 years

CONTROLS AND SIGNIFICANCE OF RIVER-FLOODPLAIN FORM, STRUCTURE AND DYNAMICS

Further work

Populating of wiki with content

- interim results in March-April to support 2nd RBMPs
- subsequently as deliverables become available

Development in interaction with end users

- CEDEX, ISPRA, EA, DLG

Co-operation and tuning with RESTORE wiki

- aim to be complementary

Wish to discuss wider use of wikis

- added value regarding official information supply by EC and member states
- for WFD implementation (e.g. CIRCABC, WISE)

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Messages to take home

All REFORM deliverables organized in wiki

- reports, papers, tools

Care for post-project hosting

Visit the REFORM wiki online

- http://wiki.reformrivers.eu

We welcome your feedback!


Thanks!

OFF-LINE DEMO

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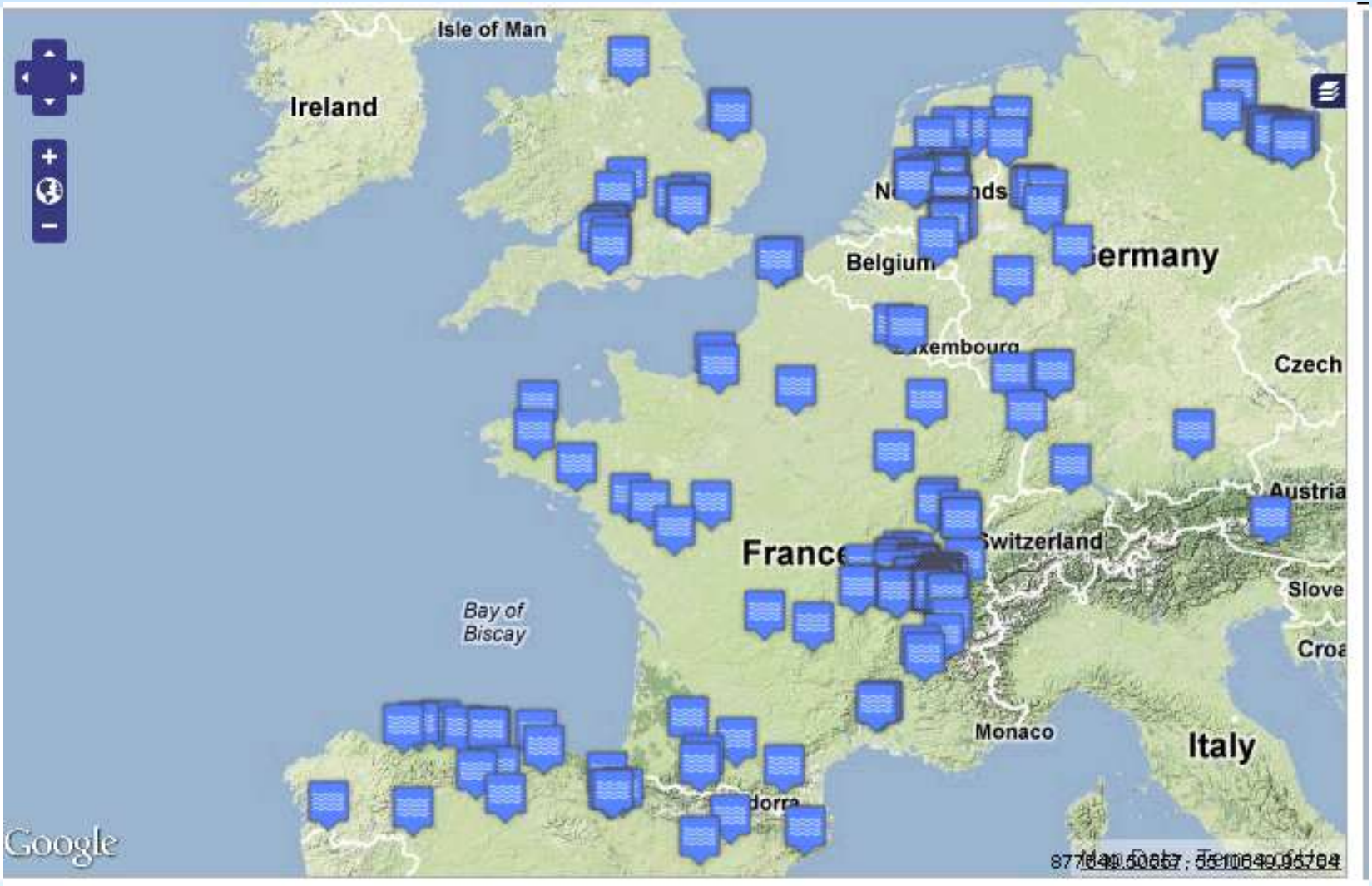
Case studies



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Case studies

Filter options:

Pressures	Channelisation / cross section alteration
Measures	Reconnect backwaters and wetlands
Evaluation	Select/Unselect Evaluation
Hydo-morphological QE	Select/Unselect Hydo-morphological QE
Biological QE	Select/Unselect Biological QE
Ecosystem Services	Select/Unselect Ecosystem Services
EU directives and policies	Select/Unselect directives and policies

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Gameren

Gameren

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Case studies

Key features of the case study

Site description

View on side channel set of Floodplain "Gameren", downstream direction. Photo: Rijkswaterstaat (NL)

Under the authority of the Ministry of Transport, Public Works and Water Management (Eastern Netherlands division), the Institute for Inland Water Management and Waste Water Treatment RIZA executed a monitoring program on secondary channels in the Gamerensche Waard. During the period 1996-2002 a broad and complete program was executed with three main objectives: 1) evaluation of the desired effects, 2) assessment of the undesirable side-effects (risks) and 3) increase of the knowledge about secondary channels.

In the period 1995-1999 three secondary channels were excavated in the Gamerensche Waard along the river Waal (the main side branch of the river Rhine). Regarding the dimensions, these channels are unique for Dutch rivers. These channels are digged out partly from former agricultural grassland and partly they ecxists of connected former sand

Factsheet: Gameren

General

Country	NL
River Name	Waal
Site Name	Gameren

River Characterisation

River typology

Location (Lat Lon)	51.8062000807445, 5.20940780639648
Altitude	lowland: < 200 m
Catchment area	very large: > 10000 km2
Geology	Calcareous
National code/ River type name	R7

Hydromorphological quality elements

- River depth and width variation
- Structure of the riparian zone

Biological quality elements

- Phytoplankton
- Macrophytes and phytobenthos

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Case studies

Extra background information

References

- Evaluatie nevengeulen Gamerensche Waard (Dutch with summary in English)
- Powerpoint (English) Habitat Evaluation Case study Gameren
- Grift, R. E., Buijse, A. D., Van Densen, W. L. T., Machiels, M. A. M., Kranenbarg, J., Klein Breteler, J. G. P. and Backx, J. J. G. M. (2003), Suitable habitats for 0-group fish in rehabilitated floodplains along the lower River Rhine. River Research and Applications, 19: 353–374 (language: english, abstract)

Related Measures

- Lower river banks or floodplains to enlarge inundation and flooding
- Reconnect backwaters and wetlands
- Adjust land use to develop riparian vegetation

Related Pressures

- Artificial barriers upstream from the site
- Channelisation / cross section alteration
- Alteration of riparian vegetation
- Embankments, levees or dikes
- Alteration of instream habitat

Categories: Case studies | River depth and width variation | Structure of the riparian zone | Phytoplankton | Macrophytes and phytobenthos | Benthic invertebrates | Fish

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Case studies

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River Research and Applications

Research Article

Suitable habitats for 0-group fish in rehabilitated floodplains along the lower River Rhine

R. E. Grift[1]*, A. D. Buijse[2], W. L. T. Van Densen[1], M. A. M. Machiels[1], J. Kranenbarg[1], J. G. P. Klein Breteler[3], J. J. G. M. Backx[2]

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River Research and Applications

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