

Snowflake
software

Experiences in GML

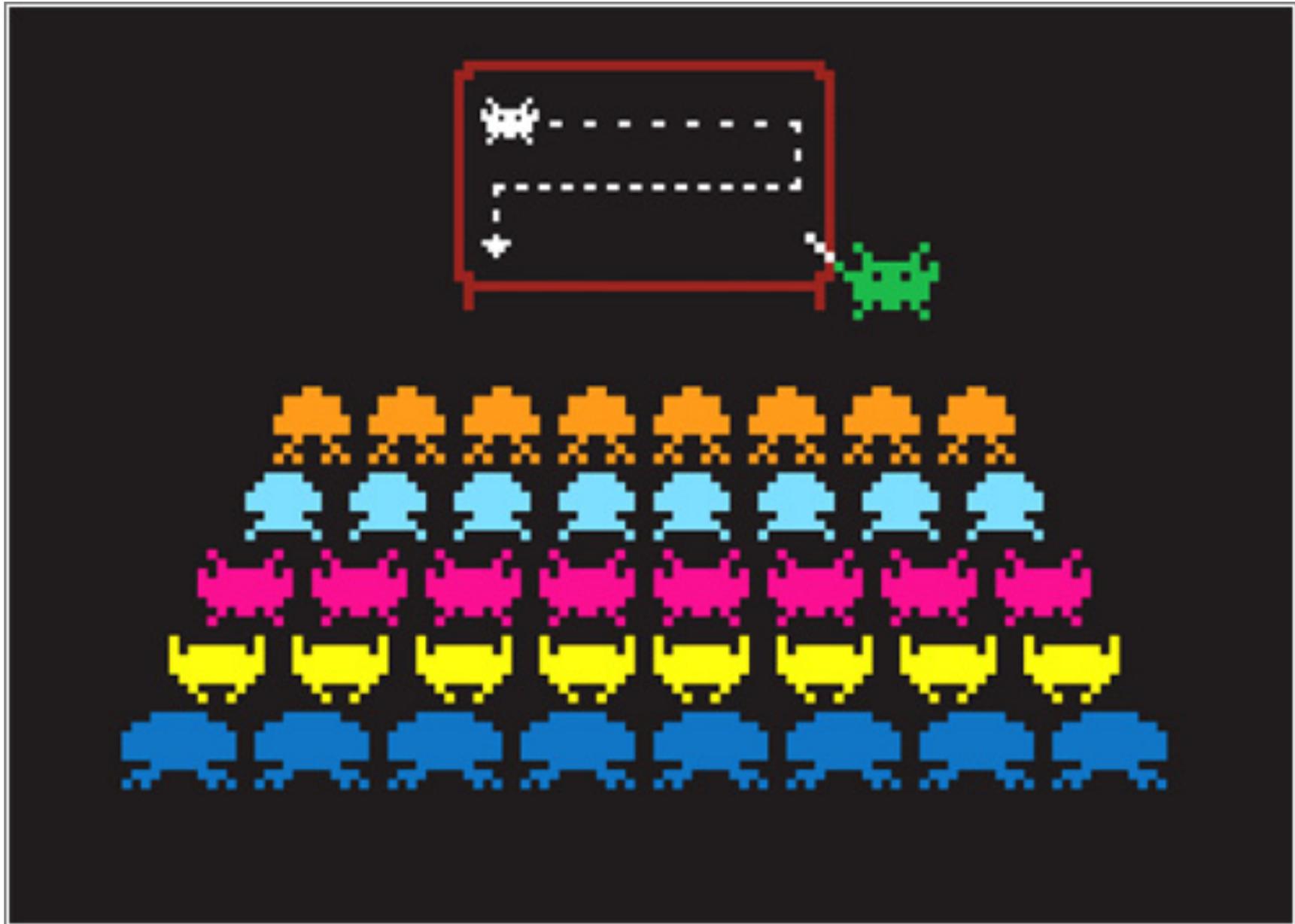
Ian Painter

Our experience with GML

- GO Loader – GML2.2, 3.1.1 and 3.2.1
 - From local government to central government, primarily in UK, Netherlands and Germany but deployment worldwide
- GO Publisher – GML2.2, 3.1.1, 3.2.1, XML and KML
 - Large data providers ~ national mapping agencies, geological survey, metrological surveys, Air Traffic Management (primarily complex models in GML3.2.1)
- GML Viewer (GML 2.2, 3.1.1, 3.2.1)
 - 50,000+ download over the last 9 1/2 years
- GML Training
 - GML Fundamentals
 - GML Hands On
- GML LinkedIn Group

What we support

- GML2.2, 3.1.1 and 3.2.1
- Geometry: Envelopes, Point, LineString, LinearRing, Curve (single / multiple), Polygon, Surface (single / multiple patches), PolyhedralSurface, Triangulated Surface, Tin, Composite Curves, Rings, CompositeSurface, CompositeSolid, Multi*, Arc, ArcString, Circle, ArcByCenterPoint, Geodesic, OffsetCurve, Polygon Patch, Triangle, Rectangle
- Time, CRS, UoM, xlink in local feature associations
- Some O&M
- No Spatial Topology, No Coverages



What we dislike

- Profiles as an answer to simplicity

Clemens I need
a GML profile



Holey, adoption
tangles. To the
Enterprise Architect
install



- Mandatory ids on geometry
- Geometry by reference
- Remote resolving of xlink

It all started here



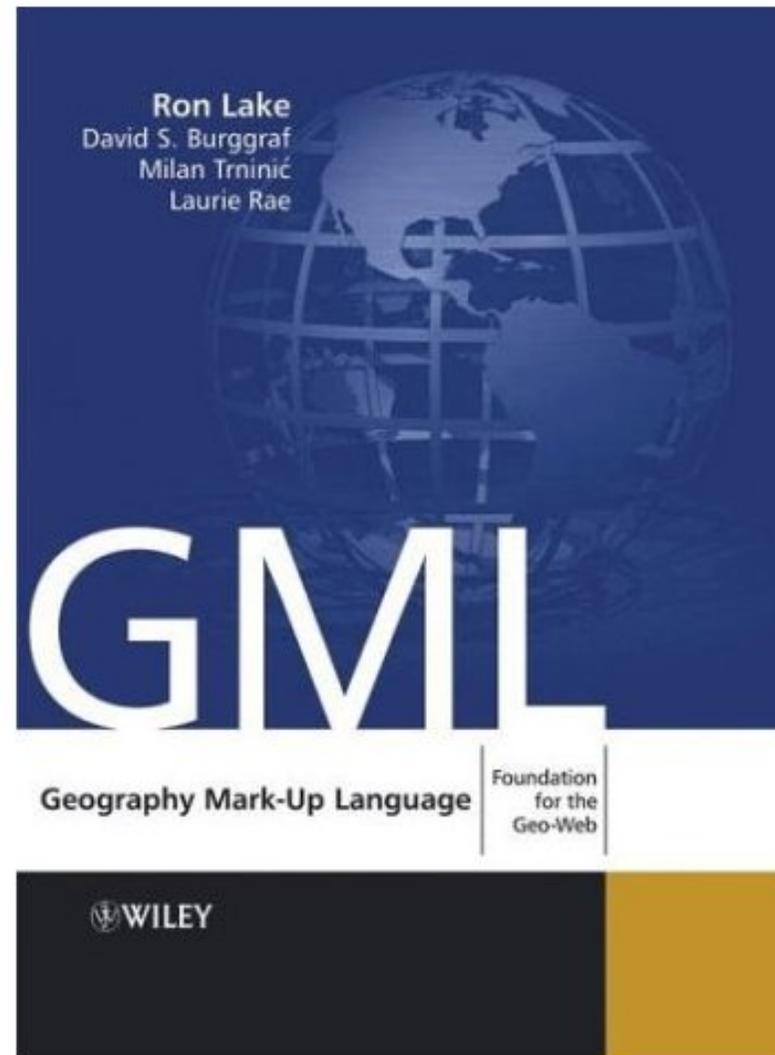
- The early years of GML ... GML 2.2
 - simple schemas,
 - simple models
- Emphasis on adoption
 - Plenty of complaints and moaning GIS vendors
 - Plenty of adoption problem (transition from NTF)
- Made extensive use of GML2.2
 - TOID ~ gml:id
 - 5 feature types, feature associations
 - Simple geometry: points, linestrings and polygons
- From no GML to 450 million features in every UK wide dataset
- That's billions of GML features loaded on a weekly basis: local government, utilities, fire and rescue, police you name them they loaded it ... a success story for GML!



And then we started adding more ...



So we needed ...



The OGC collective

- ...is made of :
 - Specialists;
 - Early adopters;
 - Domain experts;
 - Data modelers;
 - Software architects, and
 - Mathematicians
- Who are passionate about their domains of expertise
- But very few are end users

We are the OGC. Your data models will be assimilated and added to the GML spec



What if

- We hadn't developed GML 3 and stuck with GML2?
 - OGC TC's would be a very different place
 - OGC would have less membership
- but ...
 - Would GML be more widespread
 - Would KML have extended from GML?
 - Would there be more tool support?
 - Would we have more people using GML?

My wish list

- Widespread adoption will only ever come from simplicity
 - Follow the KML example, follow the Geoserver example
 - It may not work for you but it works for 99% of other people
 - There are companies like ourselves who cater for the specialists
 - Design GML for the membership AND for the consumers
- No additions, just restructuring
 - Make the entry level a single schema file:
 - Features, point, lines and polygons
 - With optional gml:ids
 - One single page of documentation (just a wiki page)
 - Let people pick and mix easily and work up to the fine dining experience of the full blown spec

Suggested Daily Cals: 2,774
HOMER'S ESTIMATED CALS: 24,929

Breakfast:
Clothoid,
Geodesic,
Orientable Surfaces

Lunch:
Cones,
Cylinders,
Spheres

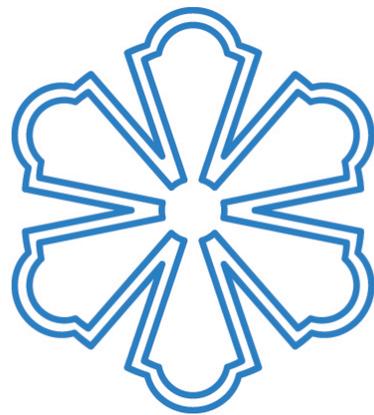
Drinks:
ArcByBulge
OffsetCurve

Dinner:
Quasi Uniform Knots
BSpline,
Cubic Spline

Snacks:
Shells,
Polyhedrals,
Geodesics







Snowflake
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The data eXchange company

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LinkedIn GML Group:

<http://www.linkedin.com/groups?home=&gid=1503247>