Supporting Web-based Scholarly Annotation

Anna Gerber
Yeti Crab — Census of Marine Life

Census scientist discovers unusual, hairy "yeti crab" is new species and new family of crustaceans. During a series of submersible dives on the Easter Island Moraines, Michel Segonzac, a Census of Marine Life scientist participating in the March-April 2005 PAR 5 Research Expedition, encountered a unique "hairy" crustacean on a hydrothermal site. Dubbed the "Yeti Crab," this unusual looking critter had not been previously encountered in more than 30 years of hydrothermal vent exploration. Close examination revealed its unique morphology, including a lack of eyes and a profusion of hair-like setae.

Links to more information:
- Biogeography of Deep-Water Chemosynthetic Ecosystems (CheSS)
- Kiwa hirsuta: New Species
<table>
<thead>
<tr>
<th>Description</th>
<th>Tag Cloud</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>A wooden carving of a tall bird with a grasshopper at the back.</td>
</tr>
<tr>
<td>Design</td>
<td>- Assume is a Tiwi people's design</td>
</tr>
<tr>
<td>Location</td>
<td>- Brisbane</td>
</tr>
</tbody>
</table>
1. Publications of this version include the following 31:

- The Bulletin vol.12 no.649 23 July 1852
  PERIODICAL ISSUE (pp.21-22)
  Find the full text at University of Queensland Library.

- Short Stories in Prose and Verse SELECTED WORK POETRY PROSE SHORT STORY
  Author: Lawson, Henry (birth name: Larsen, Henry (Lawson) (a.k.a. H. L.)
  Sydney: New South Wales : Louisa Lawson, [1894]
  (pp.26-39)

- While the Billy Boils SELECTED WORK SHORT STORY
  Author: Lawson, Henry (birth name: Larsen, Henry (Lawson) (a.k.a. H. L.)
  Sydney, New South Wales : Angus and Robertson, 1896
  (pp.127-138)

Settler's tale of olden times---

As told me by our sage friend, Egressed.

In the olden times went forth

of his most bold and trusted men

wildness--went forth to seek

flocks and herds. On foot were

and wider pastures for his fast

clouded up with bush,

marshes perilously deep---

wild wolds clouded up with bush,

marshes, perilously pathless.
were sometimes startled by a bearded apparition, who smiled kindly down on us, and whom our mother introduced, as we raised our hats, as "An old mate of your father's on the diggings, Johnny." And he would pat our heads and say we were fine boys, or girls—"as the case may have been—and that we had our father's nose but our mother's eyes, or the other way about; and say that the baby was the "dead spitting image" of its mother, and then add, for father's benefit, "But you look like you, Tom." It did seem strange to the children to hear him address man by his Christian name—especially as we knew that the mother always referred to "Father." She called the old man "Mr So-and-so" (whatever his name might have been), and father called him "Bill," or something to that effect.

Occasionally the old mate would be dressed in the latest city fashion, and at other times in a new suit of "reach-me-downs," and yet again he would turn up in clean white moleskins, washed tweed coat, crimen shirt, blucher boots, soft felt hat, and with a fresh-looking speckled handkerchief round his neck. But his face was mostly round and red and jolly, his hands were always horny, and his beard grey. At time he might have seemed strange and uncouth to us at first, but the old man never appeared the least surprised at anything he said or did. They understood each other so
Scholarly Annotation Requirements

- Citable
  - Including private annotations
- Precise
- Annotation of segments / regions
- Annotate extensible list of media types e.g. text, HTML, PDF, raster images, vector images, video, audio, 3D objects, research data e.g. protein crystallography models, repositories
- Annotate within dynamic web applications e.g. maps
Scholarly Annotation Requirements

• Migrate / display annotations across
  – Multiple copies of identical resource
  – Multiple representations of equivalent resource
    • E.g. TEI/XML rendered using different stylesheets to HTML/PDF, 3D objects at different resolutions
  – Multiple versions of resource
    • E.g. versions of web page over time, versions within a scholarly edition, pre-print vs publisher copy of journal article

• Copyright concerns
Semantic scholarly annotations

• Annotate non-information resources e.g. identifiers for concepts, database entities
• "Stand-off" annotation to retain integrity of original resource
• Multiple targets
  – Particularly expressing relationship between targets
• Multiple bodies/structure content
  – E.g. multiple semantic tags + commentary
Implementation concerns

• Our systems use Annotea, OA
  – Shared generic backend, custom clients

• Discoverability, sharability between systems requires agreed protocols & APIs not just shared model

• Flexibility of model needs to be balanced with ease of implementation