



oEmbed Service for Islandora

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Abstract

The University of Oklahoma Libraries launched an international exhibit in 2015 called Galileo's World (<http://galileo.ou.edu>) featuring our unique History of Science collections. The Drupal-based exhibit site links to high-resolution scans in an Islandora repository (<https://repository.ou.edu>) using an Islandora-specific fork of oEmbed (<http://oembed.com>) that will be contributed to the Islandora Foundation in 2016.

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What is oEmbed and how does it work?

oEmbed is an open format designed to allow embedding content from a website into another page of another website [1]. It has become the mainstream standard to implement rich media embeds. Hundreds of millions of oEmbed requests are sent out monthly [2].

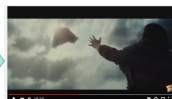
Users can send a URL following the oEmbed format to request the resources (e.g. pictures, videos, audios) from a provider (e.g. YouTube, Flickr, Vimeo), and the returned response can be interpreted and displayed as embedded pictures, videos or ANYTHING in the webpage.



Types in a URL following the embed format to request a video

Response from server:
JSON or XML text

User's computer transforms the response to be the embedded display in user's post



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Embedding work has never been so easy!

Before oEmbed, one had to do this...

```
<iframe width="459" height="344"
src="https://www.youtube.com/embed/
dQw4w9WgXcQ
feature=oembed" frameborder="0"
allowfullscreen></iframe>
```



After oEmbed, it's this easy...

```
http://www.youtube.com/watch?
v=dQw4w9WgXcQ
```



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OU Libraries: Pre-requisites for embedding Internet Archive BookReader

Client website needs:

- ❖ Drupal oEmbed module
- ❖ oEmbed service provider set up as the repository server
- ❖ Created oEmbed field or link to host the embedded book reader

Repository server needs:

- ❖ Islandora embed module which responds with JSON or XML text to the requests

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OU Libraries: The embedding process

Client oEmbed link or field with a url:
<http://repository.ou.edu/embed/uuid/1234s//>

oEmbed module converts it to the format

https://repository.ou.edu/embed_service/uuid/ — The endpoint
[?url=https://repository.ou.edu/embed/uuid/1234](https://repository.ou.edu/embed/uuid/1234) — The scheme

Sent to the remote repository server

oEmbed module converts the response to embedded bookreader

Islandora Embed module processes the request and sends back the JSON/XML response

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Future plans:

- ❖ Contribute the source code of Islandora Embed to the Islandora code base.
- ❖ Expand the oEmbed service to other Islandora data models.

Source code:

- ❖ The Islandora Embed module: https://github.com/OUlibraries/islandora_embed.git
- ❖ The Islandora Embed theme: https://github.com/OUlibraries/islandora_embed_theme

Reference: [1] oEmbed – Wikipedia: <https://en.wikipedia.org/wiki/OEmbed>
[2] <http://embed.ly>