Service / API for thumbnails

Draft for the documentation, specs, and tasks... May be moved to some github repository: https://github.com/Natim/Thumbnailer

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•Vision (share concept and goals)

•Alternatives (don't reinvent the wheel)

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•Specs & examples

Vision

Abstract

An ecosystem around thumbnails:

1.a ready to use service around thumbnails.

2.recipes to generate, host, serve and reference thumbnails.

Creating thumbnails/previews of any documents (images, PDF, html... or any URL) is a killer feature.

Features

•Open source.

•Hosted or install-it-at-home.

•Provide an API where, given an URL and some parameters, you get a thumbnail (images) or some preview (documents?).

•Provide plugins and/or API so that it is easy to use the thumbnail generation service in your favorite framework (i.e. some template tag for Django)

•Provide recipes to build a stable and efficient architecture to serve thumbnails (i.e. charm for juju, varnish config, ...)

•Ability to choose/plugin engines: resize, crop, zoom...

•Form to get thumbnail URL: given an engine and parameters (at least an URL)

Alternatives

List of services or apps that provide similar functionality.

Services

http://www.webresourcesdepot.com/10-free-website-thumbnail-generation-services/

Python packages

http://pypi.python.org/pypi?%3Aaction=search&term=thumbnail&submit=search http://pypi.python.org/pypi?%3Aaction=search&term=preview&submit=search

Name

Brainstorm... Name of repository is temporary.

API

scale

Scale the input image to enter the box, if either width or height are empty, it will scale on only one

> curl -o thumb_scale.png 'http://localhost:5000/scale/?url=http://localhost:8000/images/horizontal.jpg&width=200&height=150'

< 200 OK + image/png thumb with max size 200x150

crop

Crop the input image at the right size

> curl -o thumb_crop.png 'http://localhost:5000/crop/?url=http://localhost:8000/images/horizontal.jpg&width=200&height=150'

< 200 OK + image/png thumb with a center crop at size 200x150

upscale

Upscale the input image if it is too little for a crop

> curl -o thumb_upscale.png 'http://localhost:5000/upscale/?url=http://localhost:8000/images/horizontal.jpg&width=200&height=150'

< 200 OK + image/png thumb with an upscale crop at size 200x150