



# SpaceAPI

## Dezentrales Hackerspace-Informationssystem

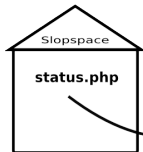
sloppjong, rohieb

GPN13

1. Juni 2013

# Motivation

Jeder Hackerspace kennt das Problem...



```
<?php
$file = "arduino_status.txt";
$status = file_get_contents($file);
if ( $status )
    echo "green_bulb.png";
else
    echo "red_bulb.png";
?>
```



# Motivation

- einheitliche API für Metadaten über Hackerspaces

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  - Adressen
  - Kontaktdaten
  - Events
  - ...you name it.



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- einheitliche API für Metadaten über Hackerspaces
  - Adressen
  - Kontaktdaten
  - Events
  - ...you name it.
- because we can
- more dataporn



# Architektur

- HTTP
- JSON
- dezentral!
  - Endpoints
  - OpenSpace Directory



# OpenSpace Directory

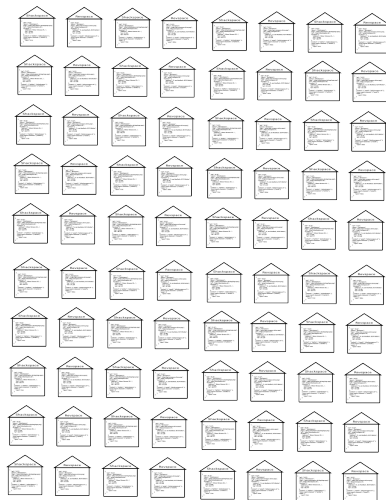
GET `http://spaceapi.net/directory.json`

- Mapping Hackerspace-Name  $\Rightarrow$  Endpoint-URL
- Attribut-Filter

```
$ curl http://spaceapi.net/directory.json?filter=cam
```

```
{  
  "Ace Monster Toys":"http://acemonstertoys.org/status.json",  
  "Bitlair":"https://bitlair.nl/statejson.php",  
  "FamiLAB":"http://familab.org/status/status.php",  
  "Farset Labs":"http://openspace.slojong.de/cache/Farset-  
  [...]  
}
```

# ALL the Spaces



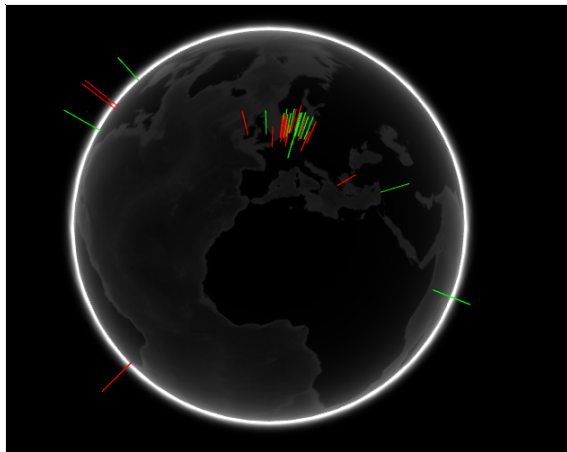
```
{
  "091 Labs": "http://V/galileo.fedorapeople.org/vstatus.json",
  "Ace Monster Toys": "http://V/acemonstertoys.org/vstatus.json",
  "ACKspace": "https://V/ackspace.nl/vstatus.php",
  "backspace": "https://V/status.backspace.de/vspacestatus.php",
  "Mainframe": "http://V/status.kreativitaet.triff-technik.de/vstatus.json",
  "Bitlair": "https://V/bitlair.nl/vstatejson.php",
  "CCCFr": "http://V/cccf.de/vstatus/vspaceapi.py",
  "Chaos Darmstadt": "http://V/vapi.chaos-darmstadt.de/vjson",
  "Chaos in KL": "http://V/openspace.slojong.de/V/cache/VChaos+inKL",
  "Chaostreff Dortmund": "http://V/www.chaostreff-dortmund.de/vspaceapi.php",
  "Embassy of Nerdistan": "http://V/embassy.cccbh.de/vstatus.json",
  "FamilLAB": "http://V/familab.org/vstatus/vstatus.php",
  "Farset Labs": "http://V/unit1.farsetlabs.org.uk/vspaceapi/vspaceV",
  "FIXME": "https://V/fixme.ch/vcgi-bin/vspaceapi.py",
  "Frack": "http://V/frack.nl/vspacestateV7api",
  "Garoa Hacker Clube": "https://V/garoahc.appspot.com/vstatus",
  "Hack42": "http://V/hack42.nl/vspacestate/vjson.php",
  "Hackburg": "http://V/www.hackburg.ch/vstatus.json",
  "Hackspace-jena": "http://V/status.hackspace-jena.de/vapiV",
  "HeatSync Labs": "http://V/mtranet.heatynclabs.org/V~access/vcgi-bin/vspaceapi.rb",
  "Hickerspace": "http://V/hickerspace.org/vapi/vinfoV",
  "Hive13": "http://V/www.hive13.org/vsOpen/vapi.php",
  "IT-Syndikat": "http://V/it-syndikat.org/vstatus.php",
  "Le Loop": "http://V/openspace.slojong.de/V/cache/VLe+Loop",
  "Make. Hack. Void Canberra": "http://V/Vspace.makehackvoid.com/vstatus",
  "Makers Local 256": "https://V/256.makerslocal.org/vstatus.json",
  "Maschinenraum": "http://V/vapi.maschinenraum.ku/vstatus.json",
  "MetaMeute": "https://V/status.metameute.de/vspaceapi.json",
  "MidsouthMakers": "http://V/midsouthmakers.org/vspaceapiV",
  "milKlabs": "http://V/vstatus.milkbz/vjson",
  "Milwaukee Makerspace": "http://V/wapps.2xlinetworks.net/milwaukeeemakerspaceV",
  "Noisebridge": "http://V/vapi.noisebridge.net/vspaceapiV",
  "Noklab": "https://V/cccgog.de/vspaceapi.php",
  "P-Space": "http://V/Vspace.dyndns.org/vstatus.php",
  "Post Tenebras Lab": "http://V/www.posttenebraslab.ch/vapi/vstatus.json",
  "Randomdata": "http://V/randomdata.nl/vsapi.php",
  "RaumZeitLabor": "http://V/openspace.slojong.de/V/cache/VRaumZeitLabor",
  "realraum": "http://V/realraum.at/vstatus.json",
  "RevSpace": "http://V/revspace.nl/vstatus/vstatus.php",
  "Stratum 0": "http://V/status.stratum0.org/vstatus.json",
  "Sublab": "http://V/sublab.org/vstatus.json",
  "synZcat": "http://V/www.hackerspace.lu/vodV",
  "SYNHAK": "https://V/synhak.org/vauth/vstatus.json",
  "Technologia incognita": "http://V/technologia.space/vspacestate.json",
  "Tetalab": "http://V/status.tetalab.org/vstatus.json",
  "TtkrLab": "http://V/ttkrnl/vstatejson.php",
  "TOG": "http://V/tog.ie/vcgi-bin/vspace",
  "Urilab": "http://V/vapi.urilab.be/vspaceapiV",
  "Void Warranties": "http://V/voidwarranties.be/vSpaceAPIV",
  "Shackspace": "http://V/openspace.slojong.de/V/cache/VShackspace"
}
```



# Endpoints

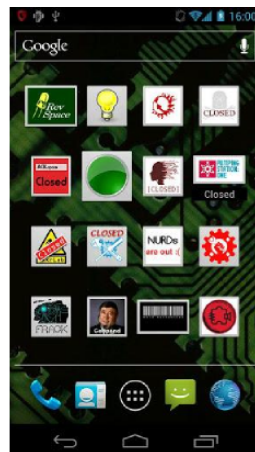
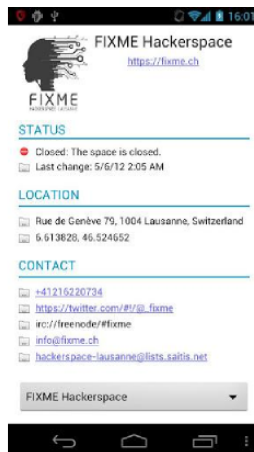
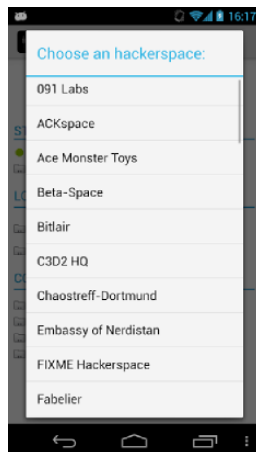
```
$ curl http://status.stratum0.org/status.json
{
  "api": "0.12",
  "space": "Stratum 0",
  "url": "https://stratum0.org",
  "logo": "https://stratum0.org/mediawiki/images/thumb/c",
  "address": "Hamburger Strasse 273a, 38114 Braunschweig, Germany",
  "lon": 10.5211247, "lat": 52.2785658,
  "lastchange": 1369899560
  "open": true, "status": "We're open for public",
  "contact": {
    "phone": "+4953128769245",
    "twitter": "@stratum0",
    "ml": "normalverteiler@stratum0.org",
    "irc": "irc://irc.freenode.net/#stratum0" },
  "icon": {
    "open": "http://status.stratum0.org/open_square.png",
    "closed": "http://status.stratum0.org/closed_square.png"
  } }
```

# Hackerspace Globe



<http://joewalnes.github.io/hackerspace-globe/>

# Hackerspace Globe



<https://github.com/fixme-lausanne/MyHackerspace>



# Kontakt

- <http://spaceapi.net>
- Mailingliste: <http://lists.hackerspaces.org/mailman/listinfo/spaceapi-devel>
- IRC: #spaceapi auf FreeNode