



SpaceAPI

Dezentrales Hackerspace-Informationssystem

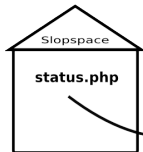
sloppjong, rohieb

GPN13

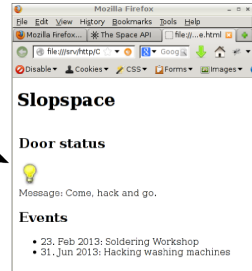
1. Juni 2013

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.



Motivation

- 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

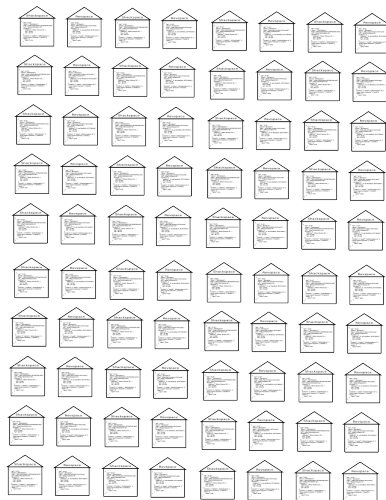
GET `http://spaceapi.net/directory.json`

- 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



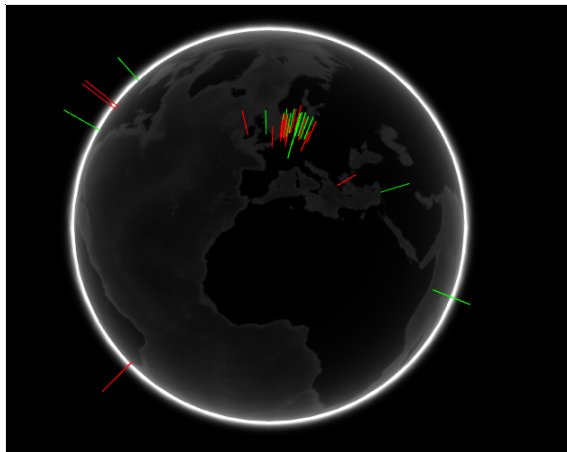
```
{
  "091 Labs": "http://Vgalileo.fedorapeople.org/vstatus.json",
  "Ace Monster Toys": "http://Vacemonstertoys.org/vstatus.json",
  "ACKspace": "https://Vackspace.nl/vstatus.php",
  "backspace": "https://Vstatus.bckspc.de/vspacestatus.php",
  "Mainframe": "http://Vstatus.kreativitaet.triff-technik.de/vstatus.json",
  "Bitlair": "https://Vbitlair.nl/vstatejson.php",
  "CCCFr": "http://Vcccf.de/vstatus/vspaceapi.py",
  "Chaos Darmstadt": "http://Vapi.chaos-darmstadt.de/vjson",
  "Chaos in KL": "http://Vopenspace.slojong.de/Vcache/VChaos+inKL",
  "Chaostreff Dortmund": "http://Vwww.chaostreff-dortmund.de/vspaceapi.php",
  "Embassy of Nerdistan": "http://Vembassy.cccbh.de/vstatus.json",
  "FamilLAB": "http://Vfamilab.org/vstatus/vstatus.php",
  "Farset Labs": "http://Vunit1.farsetlabs.org.uk/vspaceapi/vspaceV",
  "FIXME": "https://Vfixme.ch/vcgi-bin/vspaceapi.py",
  "Frack": "http://Vfrack.nl/vspacestateV7api",
  "Garoa Hacker Clube": "https://Vgaroahc.appspot.com/vstatus",
  "Hack42": "http://Vhack42.nl/vspacestate/vjson.php",
  "Hackburg": "http://Vwww.hackburg.ch/vstatus.json",
  "Hackspace-jena": "http://Vstatus.hackspace-jena.de/vapiV",
  "HeatSync Labs": "http://Vintraneat.heatynclabs.org/V-access/vcgi-bin/vspaceapi.rb",
  "Hickerspace": "http://Vhickerspace.org/vapi/vinfoV",
  "Hive13": "http://Vwww.hive13.org/vsOpen/vapi.php",
  "IT-Syndikat": "http://Vit-syndikat.org/vstatus.php",
  "Le Loop": "http://Vopenspace.slojong.de/Vcache/VLe+Loop",
  "Make, Hack, Void Canberra": "http://Vspace.makehackvoid.com/vstatus",
  "Makers Local 256": "https://V256.makerslocal.org/vstatus.json",
  "Maschinenraum": "http://Vapi.maschinenraum.ku/vstatus.json",
  "MetaMeute": "https://Vstatus.metameute.de/vspaceapi.json",
  "MidsouthMakers": "http://Vmidsouthmakers.org/vspaceapiV",
  "milKlabs": "http://Vstatus.milkbz/vjson",
  "Milwaukee Makerspace": "http://Vwapps.2xlinetworks.net/milwaukee-makerspaceV",
  "Noisebridge": "http://Vapi.noisebridge.net/vspaceapiV",
  "Noklab": "https://Vcccgog.de/vspaceapi.php",
  "P-Space": "http://Vvspace.dyndns.org/vstatus.php",
  "Post Tenebras Lab": "http://Vwww.posttenebraslab.ch/vapi/vstatus.json",
  "Randomdata": "http://Vrandomdata.nl/vsapi.php",
  "RaumZeitLabor": "http://Vopenspace.slojong.de/Vcache/VRaumZeitLabor",
  "realraum": "http://Vrealraum.at/vstatus.json",
  "RevSpace": "http://Vrevspace.nl/vstatus/vstatus.php",
  "Stratum 0": "http://Vstatus.stratum0.org/vstatus.json",
  "Sublab": "http://Vsublab.org/vstatus.json",
  "synZcat": "http://Vwww.hackerspace.lu/vodV",
  "SYNHAK": "https://Vsynhak.org/Vauth/vstatus.json",
  "Technologia incognita": "http://Vtechninc.nl/vspace/vspacestate.json",
  "Tetalab": "http://Vstatus.tetalab.org/vstatus.json",
  "TtkrLab": "http://Vtkrkrab.nl/vstatejson.php",
  "TOG": "http://Vtog.ie/vcgi-bin/vspaceV",
  "Urilab": "http://Vapi.urilab.be/vspaceapiV",
  "Void Warranties": "http://Vwww.voidwarranties.be/vSpaceAPIV",
  "Shackspace": "http://Vopenspace.slojong.de/Vcache/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"
  } }
```

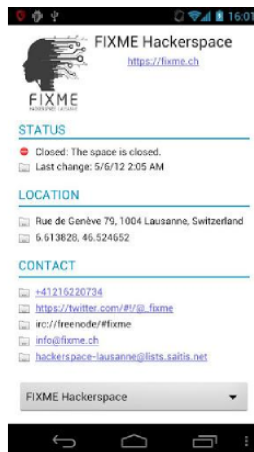
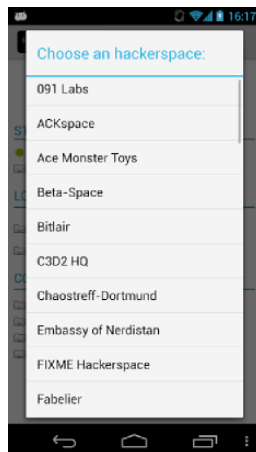


Hackerspace Globe



<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