



Open
Food
Data

Welcome to the Open Food Hackdays

10/11 February 2017

Supported by
ENGAGEMENT
EIN FÖRDERFONDS DER MIGROS-GRUPPE



Open Food Hackdays



Opening & Challenges

Teambuilding

Hack

Project Pitch

- 09.30 Welcoming – Luc Henry, Opendata.ch
- 09.45 Introduction to Opendata.ch – Oleg Lavrovsky, Opendata.ch
- 10.00 Introduction Engagement Migros – Samira Lütscher, Engagement Migros
- 10.05 Introduction & Challenge Open Food Facts – Pierre Slamich, Open Food Facts
- 10.15 Introduction Openfood.ch – Marcel Salathé, Openfood.ch
- 10.25 Introduction & Challenge BeerDeCoded – Jonathan Sobel, BeerDeCoded
- 10.30 Challenge Elsa – Fanny Vuilleumier, Elsa Mifroma
- 10.35 Challenge Foodways – Laura Robinson, Foodways
- 10.40 Challenge – Maryam Yepes
- 10.45 Challenge – Damien Carpataux

- 10.50 Open Stage – Pitch your idea in 2 Minutes





Open Food Hackdays



Opening & Challenges

Teambuilding

Hack

Project Pitch

Maximum 8 persons per team

- Assembly at the **Coffee Area**
- **Find your team**
- Distribute to a workspace at the **Hack area**





Open Food Hackdays



Opening & Challenges

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Hack

Project Pitch

Project Deadline – Saturday 13.00

- Project documented on **hack.opendata.ch**
- **Presentation Slide** sent to florian.wieser@opendata.ch
- **Keep moving** until the presentations at 3pm





Open Food Hackdays



Opening & Challenges

Teambuilding

Hack

Project Pitch

Project Pitches – Saturday 15.00

- Every team has **90 seconds** to pitch their project
- **1 Slide** per team





Slack Channel

All official communication is going to happen at the Food.Opendata Slack Channel

- **The link has been sent in a mail** yesterday night to all participants
- **Please join the #openfoodhack-official** channel



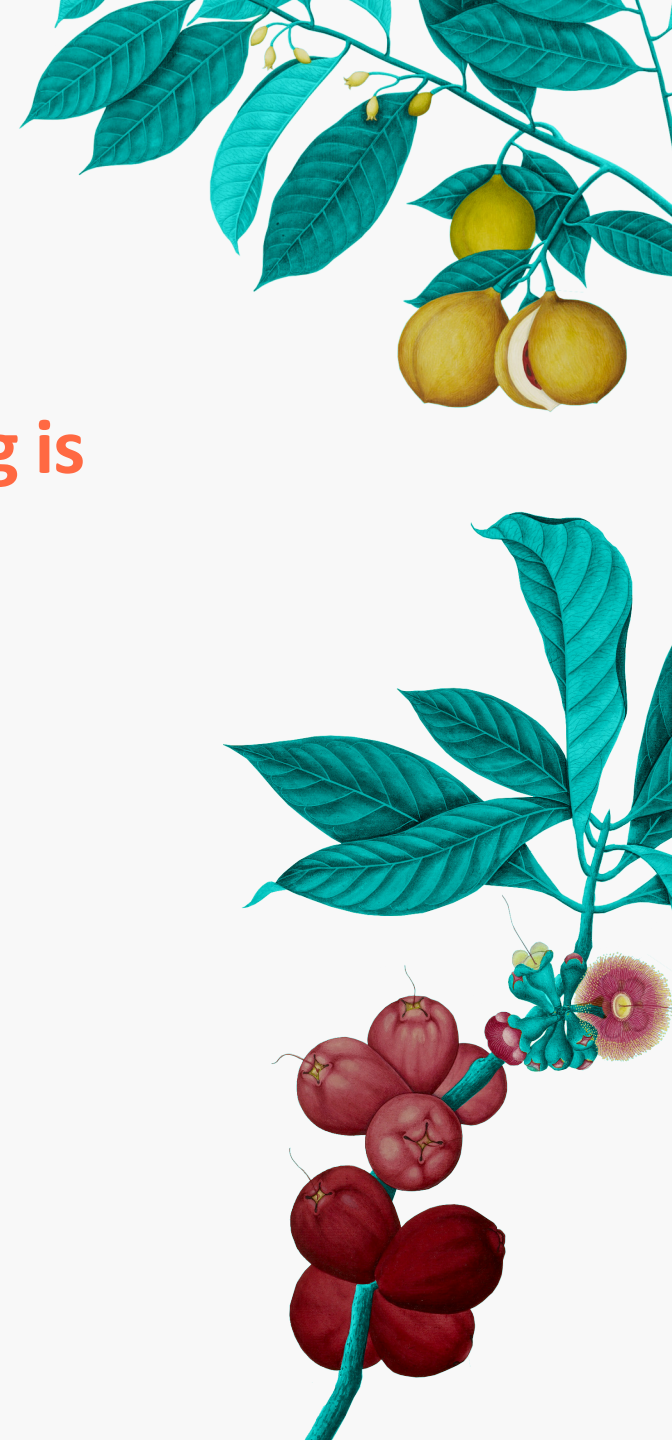


Social Media

Check out what is happening in Zurich. Our Hashtag is **#openfood**

Tonight at 19.00 we are having an exchange through Skype with Zurich

- Follow us on Twitter: @opendataCH
- Follow us on Facebook: /Opendatach





Oleg Lavrovsky
Opendata.ch





Open
Food
Data

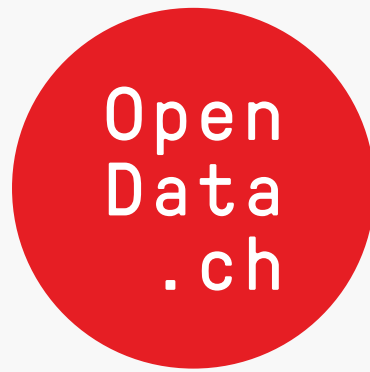
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WHAT!





MOVEMENT



MOVEMENT COMMUNITY



MOVEMENT COMMUNITY ENABLER



**WHAT
OPEN!**



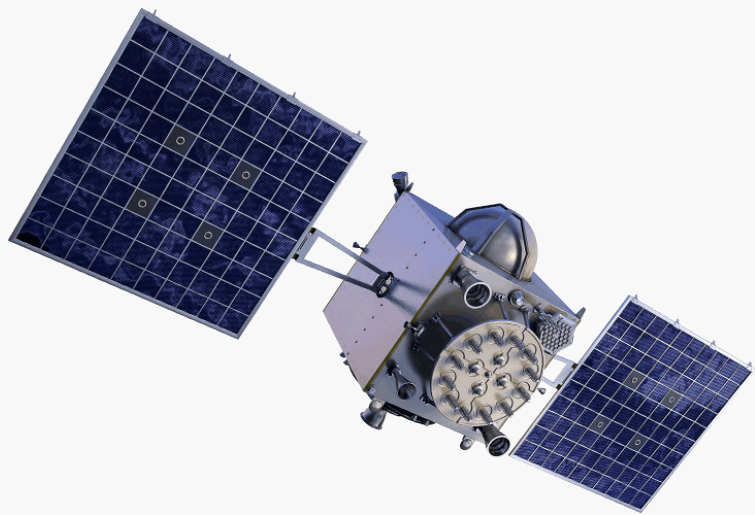
“Open data and content can be freely used, modified, and shared by anyone for any purpose”

<http://opendefinition.org>



WHAT BUSINESS INNOVATION







Open
Food
Data

Business Innovation

food.opendata.ch

2017-2019

**WHAT
MONEY!**





> 100K per year
for open food
data projects



ENGAGEMENT

A DEVELOPMENT FUND OF THE MIGROS GROUP



ÉCOLE POLYTECHNIQUE
FÉDÉRALE DE LAUSANNE

z

hdk

Zürcher Hochschule der Künste



ÉCOLE HOTELIÈRE
LAUSANNE

Since 1893

A MEMBER OF EHL GROUP

id est
avocats

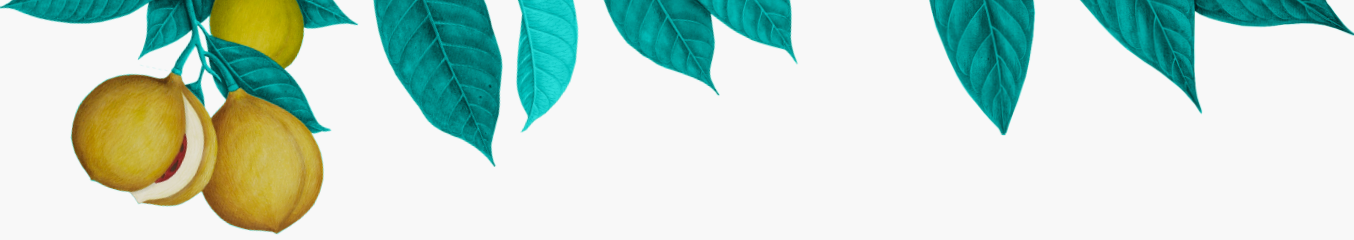


LAUX
LAWYERS AG
ZÜRICH | BASEL



**“The enemy is not the
team next to you.
The deadline is the
enemy.”**





**WHAT
NOW?**





Samira Lütscher

Engagement Migros



Open
Food
Data

Business Innovation
food.opendata.ch

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Pierre Slamich

Open Food Facts





Open data in your kitchen... and bathroom !



@OpenFoodFacts – OpenFoodCH Hackathon - February 2017 - EPFL

Citizen and crowdsourced projects



WIKIPÉDIA
L'encyclopédie libre



OpenStreetMap France
Cartographions le monde rue après rue...



OPEN FOOD FACTS
l'information alimentaire ouverte

and ?

A lot of data to digest

MONDELI **TENDRE GENOISE RECOUVERTE D'UNE MARMELADE D'ORANGE ET D'UNE COQUE DE CHOCOLAT FIN** - Ingrédients : Marmelade d'oranges 41 % [(sirop de glucose-fructose, sucre, pulpe d'orange 4,5 %, jus d'orange concentré 1,4 % (équivalent jus d'orange 7,8 %), pulpe d'orange concentrée 0,6 % (équivalent pulpe d'orange 2,6 %), gélifiant (pectines), acidifiant (acide citrique), correcteurs d'acidité (citrate de calcium, citrate de sodium), arôme naturel d'orange, épaississant (gomme xanthane)], chocolat 24,9 % [sucre, pâte de cacao, beurre de cacao, graisses végétales (illipe, mangue, sal, karité et palme en proportions variables), arôme, émulsifiant (lécithine de soja), lactose et protéines de lait], farine de blé, sucre, œufs, sirop de glucose-fructose, huile végétale (colza), poudre à lever (carbonate acide d'ammonium, diphosphate disodique, carbonate acide de sodium), sel, émulsifiant (lécithine de soja). **Peut contenir sésame.**

INFORMATION NUTRITIONNELLE / VOEDINGSWAARDE-INFORMATIE / NAHRWERTANGABEN

	100g	1 biscuit (12,5g)	%* / biscuit
Énergie / Energie / Energiewert	1675 kJ/400 kcal	210kJ/50kcal	3 %
Graisses / Vetten / Fett	12,5 g	1,6 g	2 %
dont acides gras saturés / waarvan verzadigde vetzuren / davon gesättigte Fettsäuren	6,1 g	0,8 g	4 %
Glucides / Koolhydraten / Kohlenhydrate	66 g	8,3 g	3 %
dont sucres / waarvan suikers / davon Zucker	49 g	6,2 g	7 %
Fibres alimentaires / Vezels / Ballaststoffe	2,0 g	0,2 g	
Protéines / Eiwitten / Eiweiss	3,5 g	0,4 g	1 %
Sel / Zout / Salz	0,36 g	0,045 g	<1 %

~ 12 biscuits / étui, verpakking, Packung

* Apport de référence pour un adulte-type (8400 kJ / 2000 kcal). Pour plus d'information: www.mondelezinternational.fr / www.lu.be

* Referentie-inname van een gemiddelde volwassene (8400 kJ / 2000 kcal). Meer informatie op: www.lu.nl / www.lu.be

* Referenzmenge für einen durchschnittlichen Erwachsenen (8400 kJ / 2000 kcal).

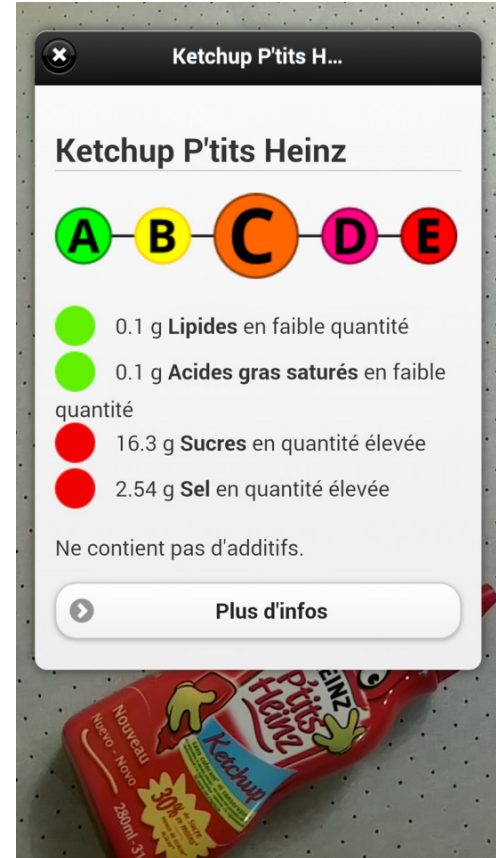
How much data do you use?



A Wikipedia for food products



- Crowdsourcing
- Open Database Licence (ODbL)



From Images to Open Data



☐ Photo sur fond blanc : essayer d'enregistrer l'image

Enregistrer et/ou recadrer l'image

Image actuelle :

Farine de blé, margarine (huiles et graisses végétales: palme - colza, eau, sel, émulsifiants: mono- et diglycérides d'acides gras, correcteur d'acidité: acide citrique, colorant: B-carotène, arôme), sucre, eau, chocolat en poudre 7,7% (sucre, cacao), humectants: glycérol - sorbitol, œufs entiers en poudre, sirop de sucre inverti, arômes, poudres à lever: diphosphate disodique - carbonate acide de sodium - phosphate monocalcique, sel, alcool aromatisé, épaississant: gomme xanthane. Traces éventuelles de soja, lait, fruits à coque.

Extraire les ingrédients de

Liste des ingrédients

Farine de blé, margarine (huiles et graisses végétales 1 palme - colza, eau, sel, émulsifiants: mono- et diglycérides d'acides gras, correcteur d'acidité: acide citrique, colorant: B-carotène, arôme), sucre, eau, chocolat en poudre 7,7% (sucre, cacao), humectants: glycérol - sorbitol, œufs entiers en poudre, sirop de sucre inverti, arômes, poudres à lever: diphosphate disodique - carbonate acide de sodium - phosphate monocalcique, sel, alcool aromatisé, épaississant: gomme xanthane. Traces éventuelles de soja, lait, fruits à coque.

→ Conserver l'ordre, indiquer le % lorsqu'il est précisé, séparer par une virgule ou ., utiliser les () pour les ingrédients d'un ingrédient
Exemple : Céréales 85,5% (farine de blé, farine de blé complet 11%), extrait de malt (orge), cacao 4,8%, vitamine C



Open Food Facts - Schweiz

Neueste hinzugefügte Produkte:

→ [Produkte \(z.B. von unserer mobilen App\), die vervollständigt werden müssen](#)

Open Food Facts erfasst Nahrungsmittel aus der ganzen Welt.

16712 Produkte

[Produkte nach Kriterien anzeigen...](#)

Ein Produkt hinzufügen

[Bild mit Strichcode](#)

oder Strichcode

[Hinzufügen](#)

[Produkt ohne Strichcode](#)

Hallo teolemon

Sie sind verbunden als teolemon

[Abmelden](#)



Produkte, die Sie hinzugefügt oder bearbeitet haben

Von Ihnen hinzugefügte Produkte, die noch fertiggestellt werden müssen

Begeben Sie sich auf Mission



2 coeurs
fondants au
chocolat Gü -



Tortilla
española aux
oignons - Te



Jambon de
Paris,
Découenné



C.M. Plus
Original -
Familia - 600



Kinder Riegel
- 210 g (10 *
21 g)



Coupe
Chantilly
Caramel -



Drink lait
demi écrémé
- Coop - 1 L



Panettone -
Coop - 500 g



Panettone -
Motta - 750 g



Panettone
Nostrano -
Coop - 500 g



crème de
caramel -
Yann de



Coconut Milk
: Kati : Light -
Thai Kitchen -



Coca-Cola -
2 l



Tomato
Ketchup
(Unlimited)



Nutella -
Ferrero - 1 kg



Senza Glutine
Spaghetti n°5



Lungo -
Nescafé - 7 g



Nutella -
Ferrero -



Gaufrettes au
beurre - Jules



Cini Minis
Crunchy



Open Food Facts erfasst
Nahrungsmittel aus der ganzen
Welt.

Ein Produkt hinzufügen

📷 Bild mit Strichcode

oder Strichcode

Hinzufügen

Produkt ohne Strichcode

Hallo teolemon

Sie sind verbunden als teolemon

Abmelden



Toblerone - 100 g

Strichcode: 7614500010013 (EAN / EAN-13)

Produkteigenschaften

Allgemeiner Name: Chocolat au lait Suisse avec nougat (10%) au miel et aux amandes

Menge: 100 g

Verpackung: [Carton](#), [Film aluminium](#)

Marken: [Toblerone](#), [Kraft foods](#), [Mondelez International](#)

Kategorien: [Süßwaren](#), [Confectioneries](#), [Schokoladen](#), [Milchschokoladen](#), [Schweizer Schokoladen](#)

Labels, Zertifizierungen, Preise: [Vegetarisch](#)

Herstellungs- oder Verarbeitungsorte: [Mondelez Switzerland GmbH](#)
[Lindbergh-Allee 1 8152 Glattpark Schweiz, Suisse](#)

Link zur Produktseite auf der offiziellen Seite des Herstellers:

<http://www.mondelezinternational.com>

🗑 Formular löschen

✎ Produkt bearbeiten



nehmen hinzugelegte Produkte, die noch fertiggestellt werden müssen

Begeben Sie sich auf Mission



Tragen Sie zu Open Food Facts bei indem Sie Produkte hinzufügen und Sterne gewinnen durch das Erfüllen Missionen!

Zutaten

→ Die Inhaltsstoffe werden nach ihrer Wichtigkeit (Menge) gereiht.

Inhaltsstoffliste: Sucre, poudre de lait entier, beurre de cacao, pâte de cacao, miel (3,0%), beurre concentré, amandes (1,6%), émulsifiant : lécithine de soja, blanc d'oeuf, arôme: vanilline - Cacao: 28% minimum

Spuren: Eier, Milch, Schalenfrüchte, Sojabohnen

Zusatzstoffe:

- E322 - Lecithine

Nährwertangaben

Nährstoffmengen für 100 g

-  29.5 g **Fett** in große Menge
-  18 g **gesättigte Fettsäuren** in große Menge
-  59.5 g **Zucker** in große Menge
-  0.15 g **Salz** in geringe Menge

Portionsgröße: 25g

Vergleich mit den durchschnittlichen Werte von Produkten gleicher Kategorie:

☒ Schweizer Schokoladen ([13 Produkte](#))

nutrient: sucrose 3.0%, miel 3.0%, beurre de cacao 28%, pâte de cacao 28%, beurre concentré 1.6%, amandes 1.6%, émulsifiant: lécithine de soja, blanc d'oeuf, arôme: vanilline - Cacao: 28% minimum

Déclaration nutritionnelle / Voedingsovername informatie / Informazione nutrizionale			
	100g	25g	%* / 25g
Energie / Energie	223 kJ / 53 kcal	55 kJ / 13 kcal	7%
Grasso / Vetten / Matières grasses	29.5g	7.4g	14%
di cui acidi grassi saturi / waarvan verzadigde vetzuren / dont acides gras saturés	18.0g	4.5g	9%
Carboidrati / Koolhydraten / Glucides	60.5g	15.1g	30%
di cui zuccheri / waarvan suikers / dont sucres	59.5g	14.9g	29%
Fibre / Vezes / Fibres alimentaires	2.3g	0.6g	1%
Proteine / Eiwitten / Protéines	5.5g	1.4g	3%
Salz / Zout / Sel	0.15g	0.04g	1%

☒ Unterschied in % ☐ Wert pro 100 g / 100 ml

→ Anmerkung: Der Durchschnitt für jeden Nährstoff wird anhand derjenigen Produkte berechnet, für diese der Wert bekannt ist, nicht als Durchschnitt über alle Produkte.

Nährwertangaben	für 100 g / 100 ml	pro Portion	Schweizer Schokoladen
Energie	2238 kJ (535 kcal)	560 kJ (134 kcal)	-2%
Fett	29.5 g	7.38 g	-17%
- gesättigte Fettsäuren	18 g	4.5 g	+2%
Kohlenhydrate	60.5 g	15.1 g	+27%
- Zucker	59.5 g	14.9 g	+33%
Ballaststoffe	2.2 g	0.55 g	-55%
Eiweiß	5.6 g	1.4 g	-19%
Salz	0.150114 g	0.0375 g	+73%
Natrium	0.0591 g	0.0148 g	+73%

Produkt hinzugefügt am 12. April 2012 um 10:20:28 CEST von [andre](#).

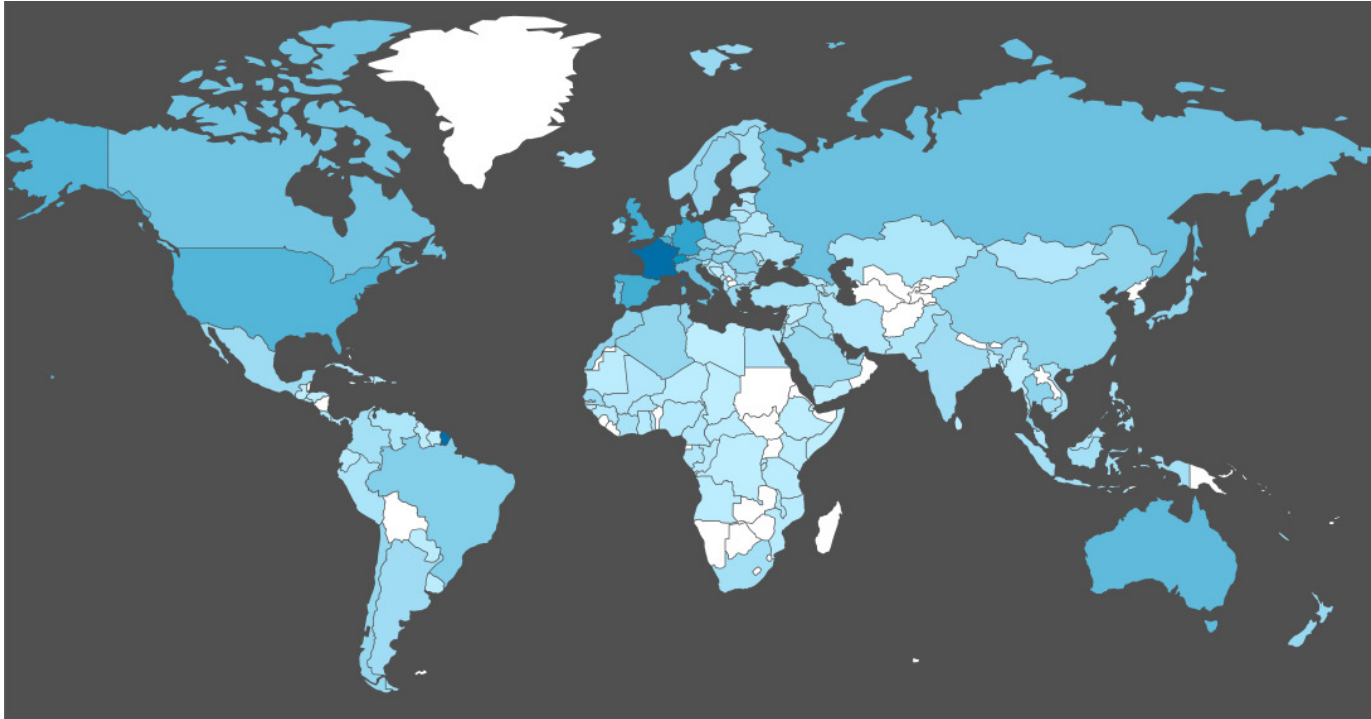
Letzte Bearbeitung der Produktseite am 17. Dezember 2016 um 23:44:48 CET von [openfoodfacts-contributors](#).

Produktseite auch bearbeitet von [emerycm](#), [manu1400](#), [morganesh](#), [scanbot](#), [tacite](#).

Sollten die die Informationen auf diese Seite unvollständig oder falsch sein, dann können Sie diese vervollständigen oder korrigieren.

A database of food products from around the world

May 2012, 12 languages, 4600 contributors,
130.000 products from 181 countries



<http://world.openfoodfacts.org/countries>

Thank you OpenFood !

13 000 Swiss products liberated !



- Switzerland becomes the **2nd largest contributing country on Open Food Facts**
- For all Swiss products:
 - **Additives, Allergens and Palm Oil detection**
 - **Nutriscore** 



What's next ?

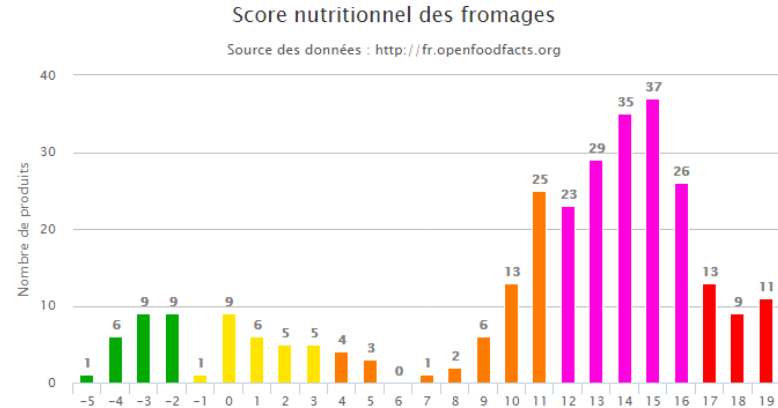
The Open Food Facts contributors are hard at work enriching **OpenFood** data:

- Packaging & recycling
- Labels
- Categories
- Geotagging & factory codes

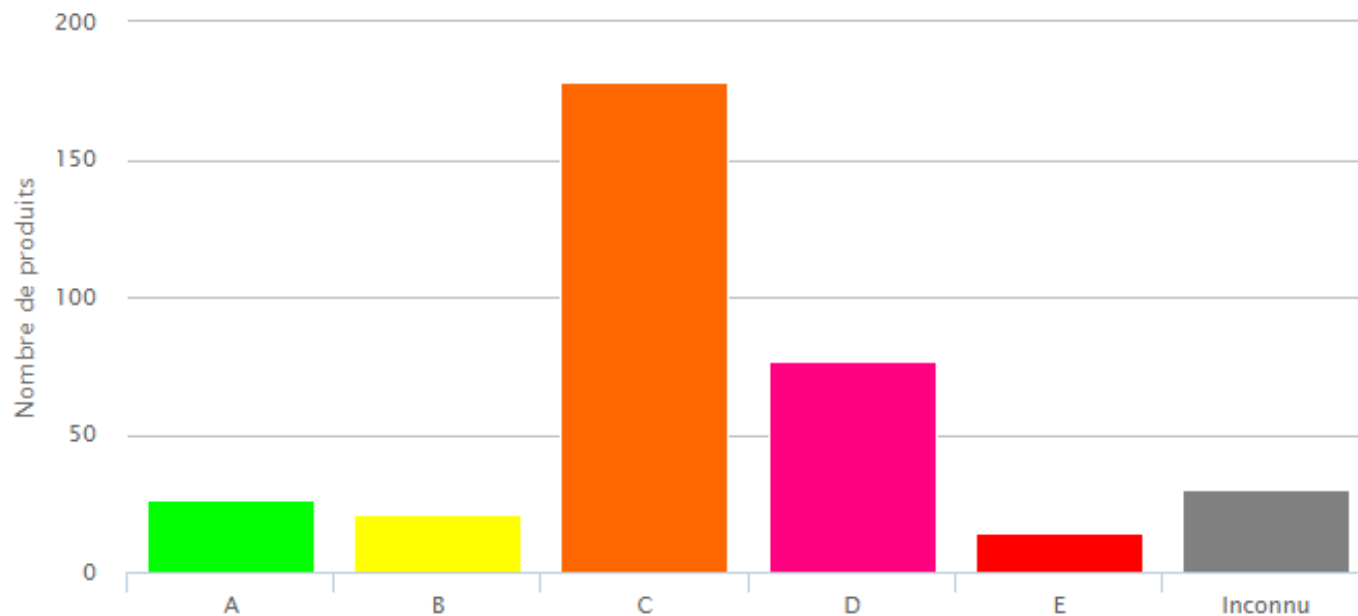
What can we do with all that data
?

Nutrition research and public health policy

Open Food Facts data used
for research studies and newspaper investigations.



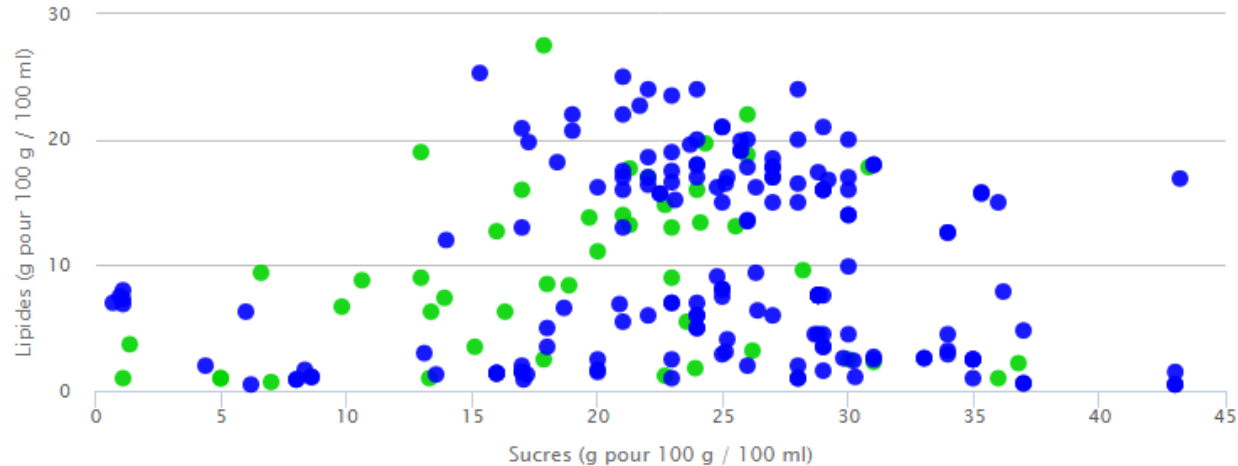
Nutritional score of breakfast cereals



Compare products

Sugars and fat in breakfast cereals

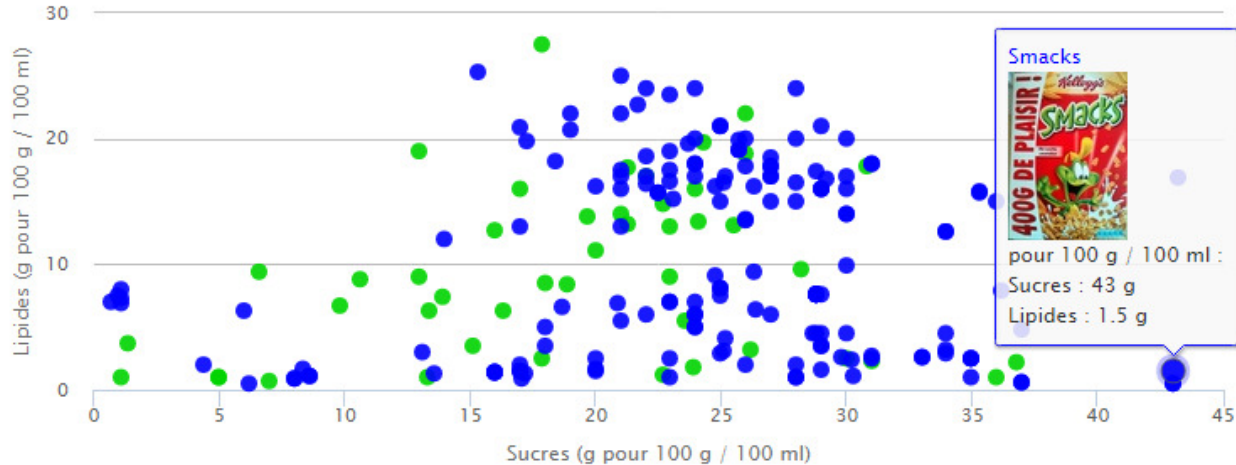
Data source: <http://world.openfoodfacts.org>



Compare products

Sugars and fat in breakfast cereals

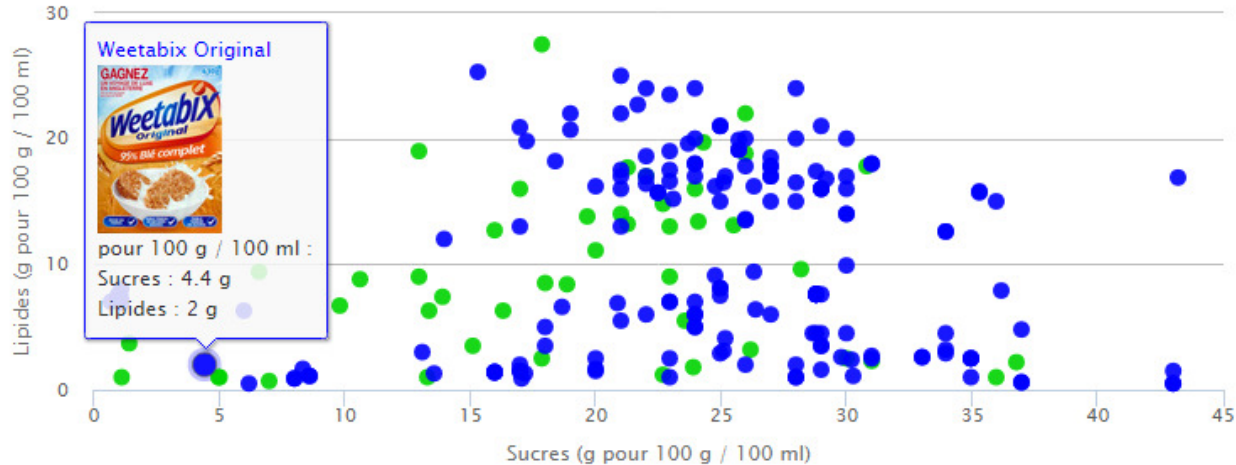
Data source: <http://world.openfoodfacts.org>



Compare products

Sugars and fat in breakfast cereals

Data source: <http://world.openfoodfacts.org>





+



+



OpenStreetMap

=



Made Near Me

The Interactive Food Products Map



CH
2434



Interactive nutrition game

The screenshot shows the 'How Much SUGAR? in' game interface. On the left, a blue sidebar contains the game logo (a stack of white cubes) and the title 'How Much SUGAR? in'. Below this, a question is posed: 'How much sugar in 100% pure Apple Juice from Concentrate Princes?'. The product details are listed: 'Apple Juice from Concentrate', 'Brand: Princes', and 'Quantity: 1 L'. A sub-question asks: 'How many small sugar cubes (4g) corresponds to 1 L of 100% pure Apple Juice from Concentrate Princes?'. An image of a 'PRINCES 100% Pure Apple Juice' carton is shown with a 'Click to zoom' link. Social sharing buttons for Twitter, Facebook (Like), and Google+ are present, each with a '0' count. A progress bar at the bottom of the sidebar indicates 'Evaluate 2 more products to see your score.' with a blue bar showing approximately 25% completion.

How Much SUGAR? in

How much sugar in 100% pure Apple Juice from Concentrate Princes?

Apple Juice from Concentrate
Brand: Princes
Quantity: 1 L

How many small sugar cubes (4g) corresponds to 1 L of 100% pure Apple Juice from Concentrate Princes ?

PRINCES
100% Pure Apple Juice from Concentrate

Click to zoom

See if your friends know the answer!

Twitter 0 Like 0 G+1

Evaluate 2 more products to see your score.

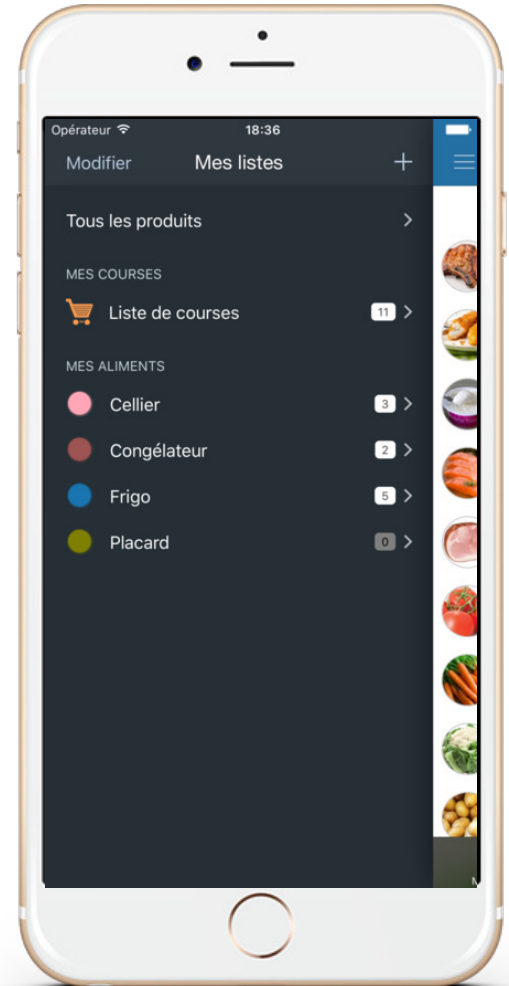
The main game area has a dark blue background. It features a grid of white sugar cubes. On the right side, there are four green buttons with white text: '-1', '-5', '+1', and '+5'. Below these is a blue button with a white checkmark. At the bottom, there is a row of white sugar cubes, some of which are tilted or falling.

<http://howmuchsugar.in>



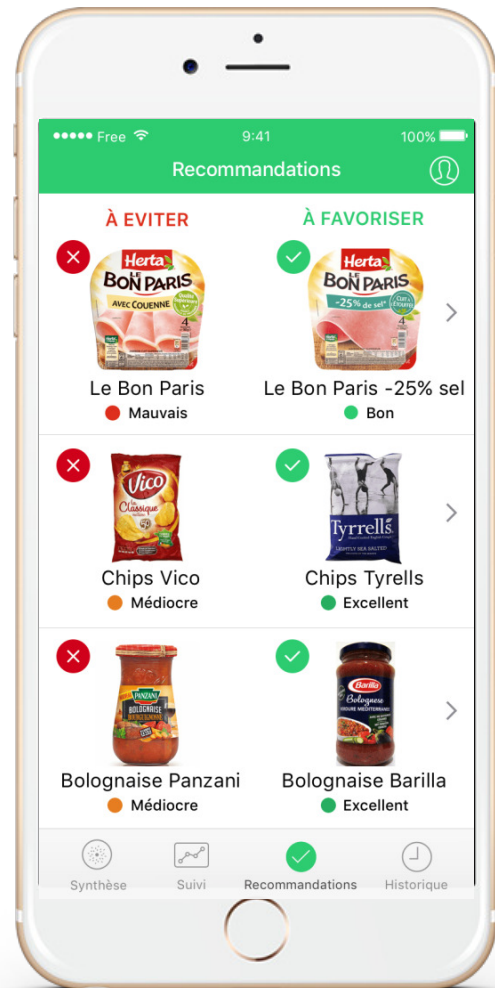
Manage your fridge

Every Swiss citizen throws away
20kg of unconsummed food
per year



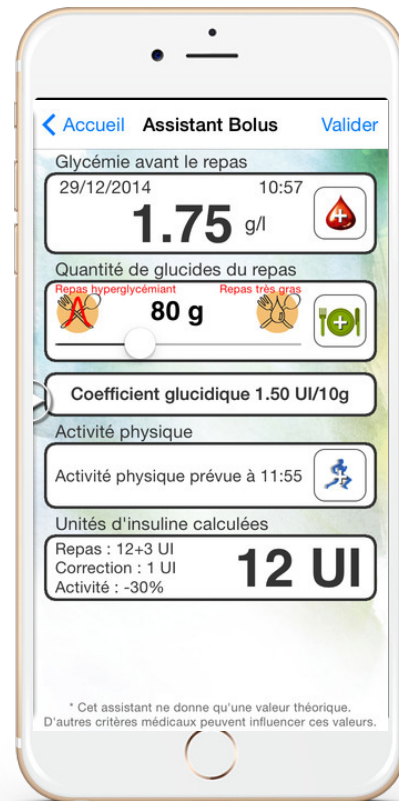


- Rate the quality of your purchases
- Get personalized recommendations
- Get the ranking of the best products



VeryDiab

a log-book for
Diabetes



Get nutrition data straight from your supermarket receipt

MesInfos Nutritionnelles

Mes Statistiques

Données Nutritionnelles

A Propos

MESINFOS NUTRITIONNELLES

Mes Infos Nutritionnelles vous permet de suivre votre nutrition en se basant directement sur vos tickets d'achat Intermarché.

Elle vous permet d'obtenir des données nutritionnelles précises, sans avoir à peser les aliments. Les données sont disponibles pour les catégories : glucides, lipides, protéines, fibres, vitamines, minéraux, etc.



MesInfos (Fing & Intermarché) experiment

Source code available

<http://mes-infos-nutritionnelles.lookal.fr/>

[PR-012261]-INGREDIENTS ·

Aqua, Sodium Laureth Sulfate, Glycerin, Cocamidopropyl Betaine, Sucrose Cocoate, Citrus Aurantifolia Fruit Extract, Citrus Nobilis Fruit Extract, Propylene Glycol, Polysorbate 20, Cocamide MEA, Lauryl Glucoside, Disodium Cocoamphodiacetate, Ceteareth-60 Myristyl Glycol, Polyquaternium-7, Sodium Chloride, Sodium Sulfate, Tetrasodium EDTA, Citric Acid, Sodium Glycolate, Methylisothiazolinone, Sodium Benzoate, Parfum, Limonene, CI 19140 CI 42051, CI 47005

SANS PARABEN



OPEN BEAUTY FACTS

the free cosmetics database

Making the food industry more transparent and open?

Join us!

Yes we scan!



Disponible dans
l'App Store



ANDROID APP ON
Google play



Windows Phone Store





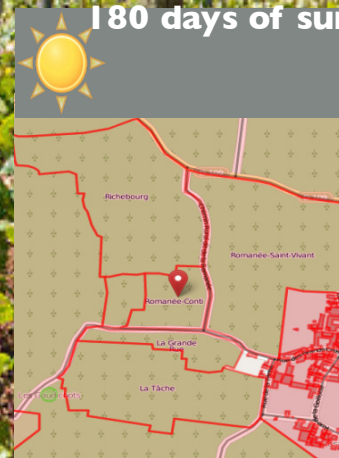
10 Proposed Challenges



Mission Me



180 days of sun in 2016



2. Create an advanced ingredient analyser

- Parsing the ingredients list

Ingredients : Sucre, graisses végétales, lait entier 10%, farine de froment 8,5%, oeuf 8,5%, sirop de glucose-fructose, lait écrémé en poudre 5%, cacao maigre

- Displaying “Contains Gluten” etc.
- Enabling (gluten/lactose/palm-oil/...) -free product search

3. Smart Trash



What if sorting trash was easier ?

- Using data about packaging to give trash sorting instructions
- Bonus point: the right trash opens using Arduino
- Bonus point: voice synthesis of the instructions

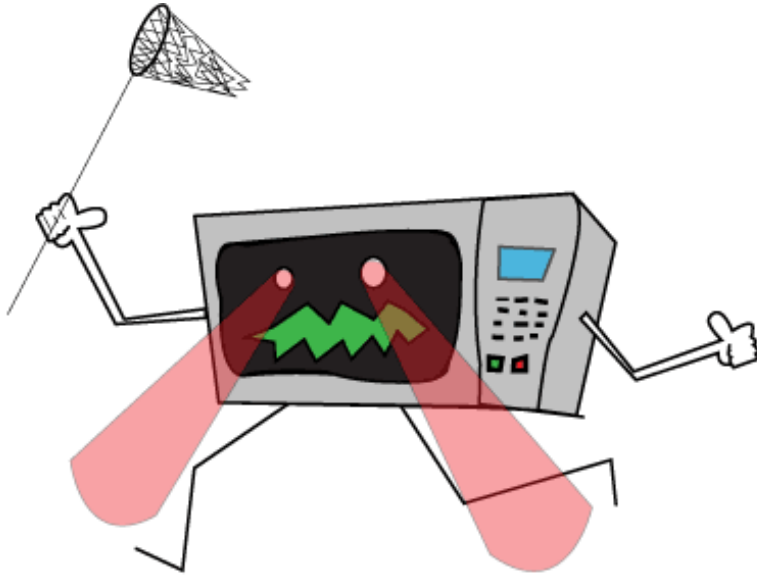
4. Clever Fridge



What will a fridge that's aware of its content do ?

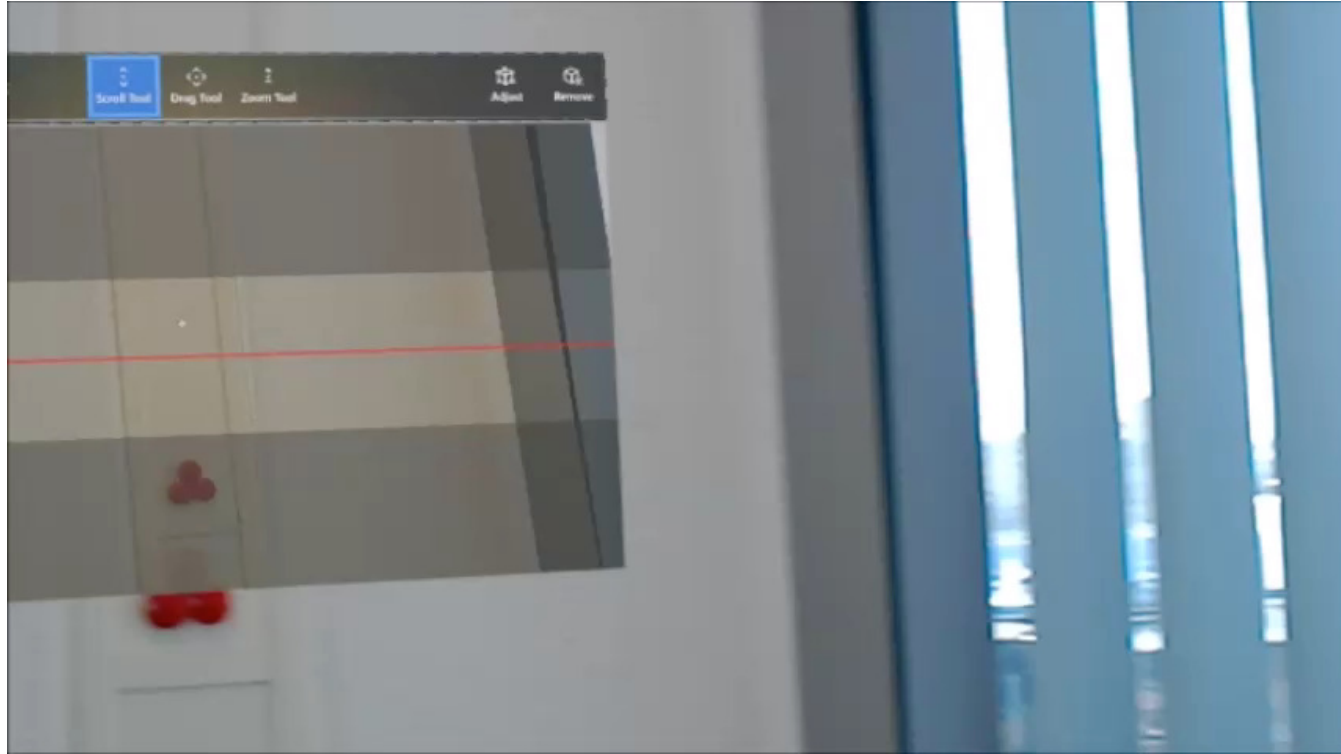
- Its own shopping ?
- Insult you about the molding cheese ?
- Lock itself at night ? For certain family members ?
- If you code it, we'll bring a fridge on stage 😊

5. Sentient Microwave



- Adding and using cooking instructions from Open Food Facts
- Using Arduino, set the microwave to the right time, using the barcode
- Bonus point if the microwave is able to go beyond the « Ding! »

6. Explore uses of augmented reality

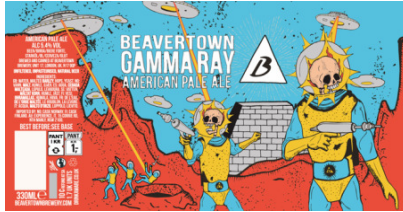


https://en.wiki.openfoodfacts.org/Experiments/Google_Glass

7. Create a universal ingredient translator



8. Create open 3D models of food products



Getting food into the Third Dimension...

- How can we 3D-scan products at scale ?
- What can we do once we have 3 models of food products ?
- Customized MMORPG video games in a supermarket ?
- Virtual shopping ?
- Real life product recognition?



9. Collecting and storing additional open data

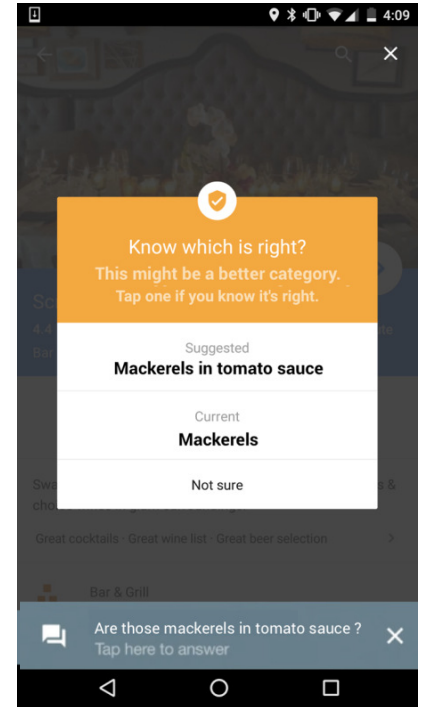
- Beyond packaging & legal requirements: Open Science
- Not quite as easy as taking pictures: Every citizen can't have a lab at home
- Reliability & cost questions: DNA, Spectrometry, 3D...
- Measurement costs high but going down

10. Create data collection games

Why play Candy Crush ?

What about playing with real food ?

- Get people to enrich Open Food Facts data
- In the train, in the bus, anywhere.
- Even offline





Marcel Salathé
Openfood.ch



@openfood_ch (E)

@openfood_ch_d (D)

@openfood_ch_f (F)



Marcel Salathé

@marcelsalathe

Food

-  is a major source of health or disease
-  is a major economic driver
-  CH household spends over 1000 CHF / month
-  is a major source of pleasure
-  is something we do multiple times, every day

One of the largest industries in the world,
enormous potential for new models.

Information about food

In the 20th century, data lived mainly on paper. For food products, that meant all the information about a product was on the package.

Then, the internet & the mobile revolution came along, and everything changed - **except** how we get information about our food.

openfood.ch wants to make food information in CH open.

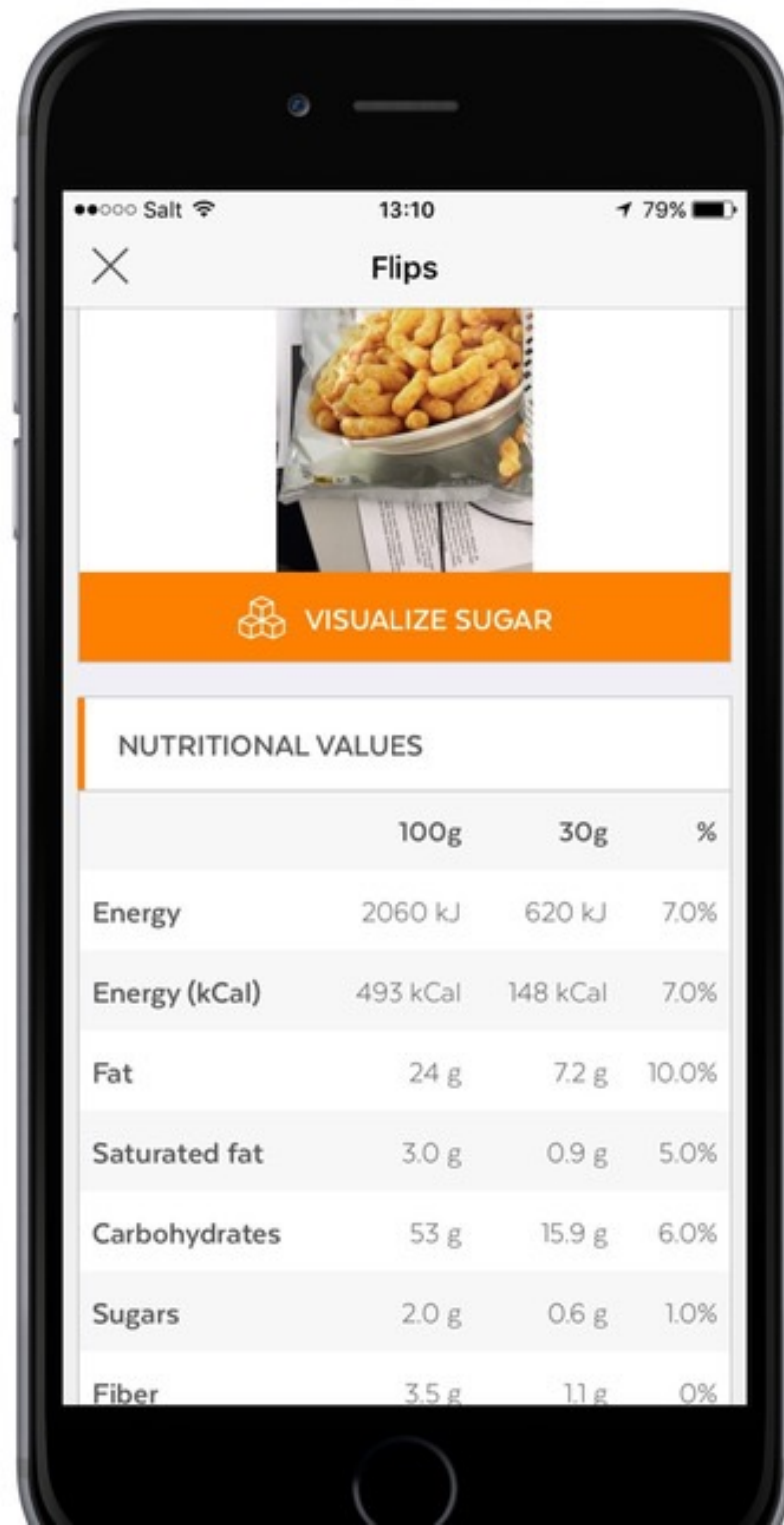
Old...



- on package
- barely readable
- limited information
- cannot be queried or reused

DEAD DATA

New...



- 🍊 in the cloud
- 🍊 digital
- 🍊 extensible
- 🍊 can be queried and reused
- 🍊 accessible via API

OPEN DATA

Attention:

openfood.ch is primarily an **open database accessible by an API**. Great for app developers!

Our own mobile app (openfood) is **just a demo**.

OpenFood is about the **data**.

You build the **apps**!

Status quo Feb 2017:

~ 15,000 products in database, almost all fully transcribed:

🍊 Name*

🍊 Size

🍊 Ingredients*

🍊 Nutrients table

🍊 Country of origin

> 5,000 submitted by users, addition in progress

* multi language as on package

What we are still missing

Info that is on package, but not in DB:

- 🍊 organic? vegan? other labels?
- 🍊 Country of origin for some ingredients
- 🍊 Allergens ("May contain...")

We are also missing fresh, packaged products by weight (such as fresh meat, cheeses, etc.)

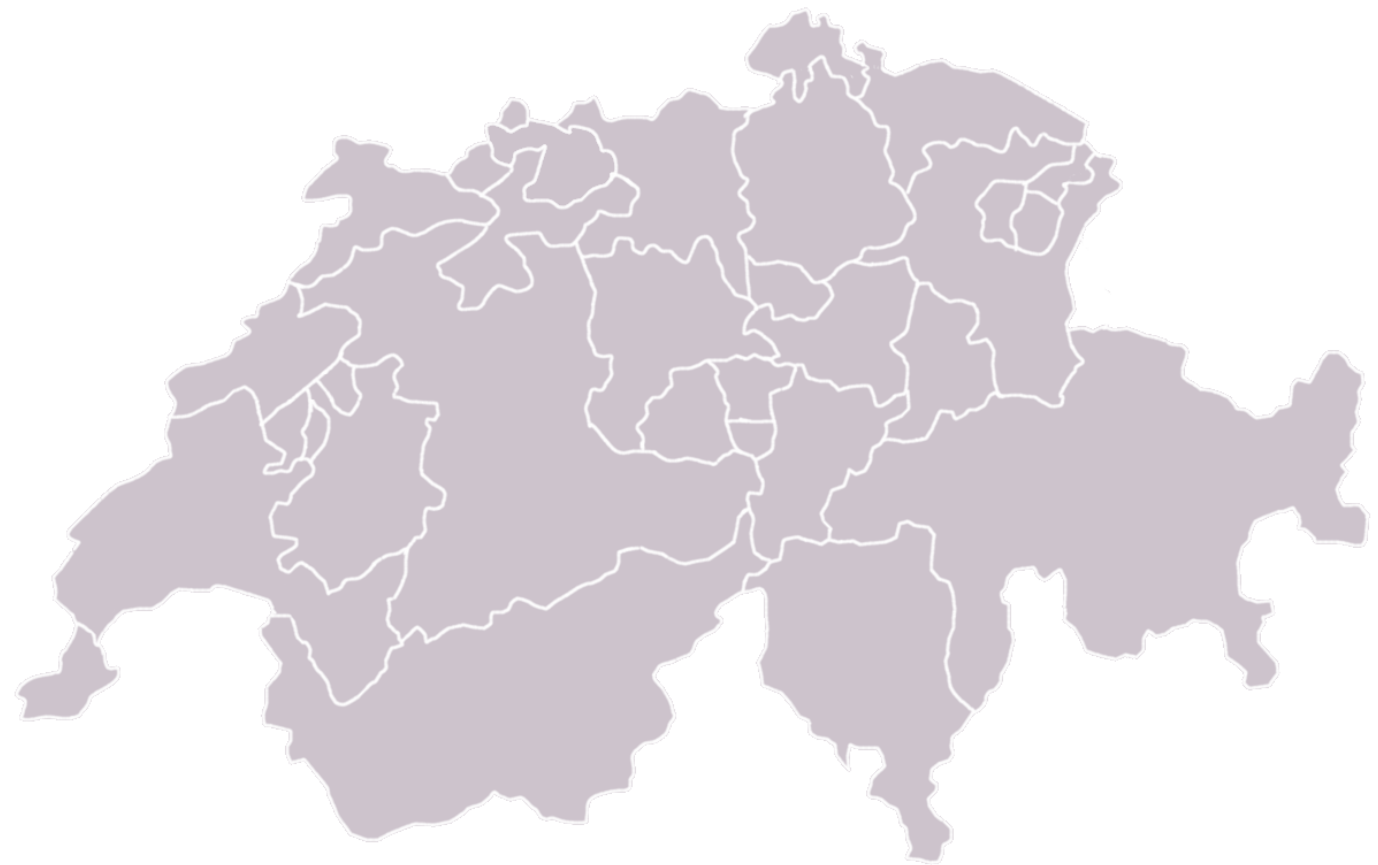
HELP ;-)

Why .ch?

We live here ;-)

Focus, focus, focus: we want to reach 100% coverage of CH.

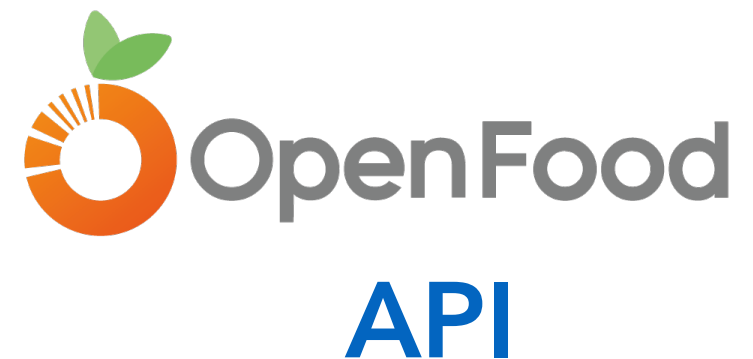
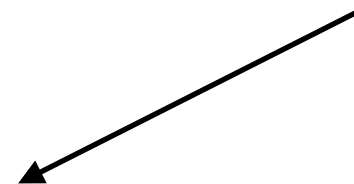
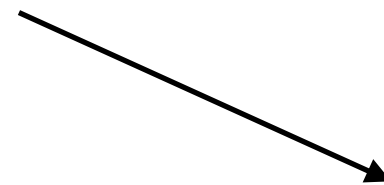
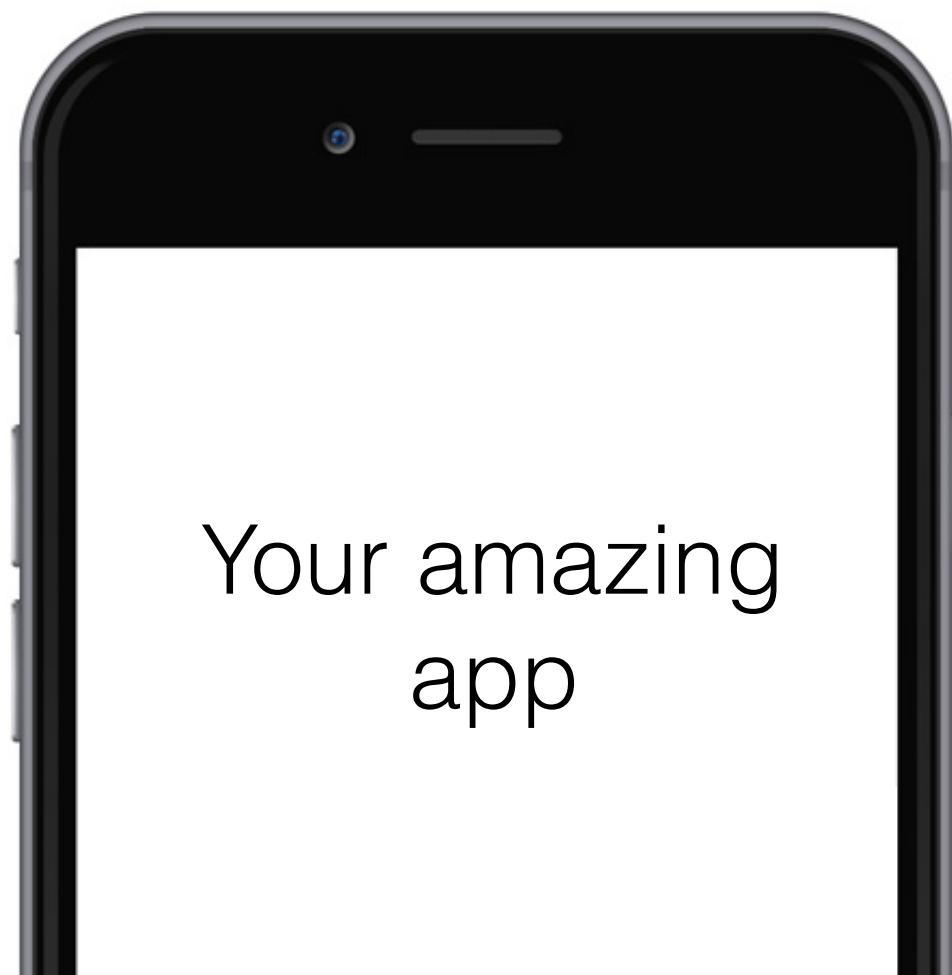
Expansions / collaboration possible in the future.



API

API

This is perhaps the most important point about **openfood.ch**. The data is available through an API.



API

Use your key(s) to access the API. See Documentation for examples.

your key here



<https://www.openfood.ch/api-docs/swagger/v2.json>

api_key

Explore

OpenFood API Swagger documentation

API access to OpenFood data, using a JSON-API format

- You need to [sign in](#) to get an API key.
- File issues and find more documentation and code samples at https://github.com/salathgroup/openfood_api
- Register to our [OpenFood Dev Mailing List](#) for API announcements, events, etc.

Created by OpenFood

See more at <https://www.openfood.ch>

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API

[Explore](#)

OpenFood API Swagger documentation

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default

[Show/Hide](#) | [List Operations](#) | [Expand Operations](#)

GET /products/{id}

GET /products

POST /products/_search

GET /nutrients

GET /nutrients/{id}

POST /nutrients/_search

API

GET /products

Implementation Notes

All products in the OpenFood database in JSON-API format.

Parameters

Parameter	Value	Description	Parameter Type	Data Type
include	Provide multiple values in new lines.	Include the Images and / or Nutrients in the returned JSON. Use "images" for Images and "nutrients" for Nutrients.	query	Array[string]
barcodes	7610848493136 8410076490131	Array of barcodes to search by, using boolean OR for multiple values.	query	Array[integer]
page		Paging for the result set. Default products per page is 20.	query	string

Try it out!

[Hide Response](#)

API - how to get help

Slack: self-invite at openfoodch.herokuapp.com

Issues, bugs, feature requests: GitHub
github.com/salathigroup/openfood_api

Sign up to our DEV newsletter

Example Code

Example code for various languages may be found in this repo. Replace [API Key] with your own key where necessary. We currently support examples for

- [Curl](#)
- [JavaScript](#)
- [Python](#)
- [Ruby](#)
- [Android](#)

31 lines (23 sloc) | 785 Bytes

Raw

Blame

History



```
1  """
2  Sample Python 2.7 code for a call against the OpenFood API products listing, with paging
3  Replace [API_KEY] with your API Key
4  curl -i -g -H "Accept: application/vnd.api+json" -H 'Content-Type:application/vnd.api+json' -X GET "https://www.openfood.ch/api/v
5
6  USAGE:
7  $ python openfood_api.py
8  """
9
10 import requests
11
12 BASE_URL='https://www.openfood.ch/api/v2'
13 API_KEY='secret'
14
15 url = BASE_URL + '/products'
16
17 query = {
18     "page[number]": "2",
19     "size[size]": "5"
20 }
21
22 headers = {
23     'Authorization': "Token token={}".format(API_KEY),
24     'Accept': 'application/vnd.api+json',
25     'Content-Type': 'application/vnd.api+json'
26 }
27
28 r = requests.get(url, params=query, headers=headers)
29 print r.status_code
30 print r.json()
```

First openfood.ch Dev meetup:

March

9

Meet with
openfood.ch devs,
discuss issues, peer
code, etc.

**Sign up to Dev
Newsletter for
more**

API

OpenFood in the future

We are currently building **many** more crowdsourcing functionalities.

We'd love to see more data - data that is not on the package (e.g. data on ecological footprint, DNA data, etc.)

We're open to your ideas! But openfood.ch will remain neutral (i.e. no recommendations - build your own app if you want to do that)

OpenFood in the future

We are currently building a second API: Image recognition.

API



"Pizza"

est. weight: 340g

est. calories: 890

est. carbs: 180g

est. fat: 20g

est. protein: 24g

OpenFood in the future

Any food image submitted to it will be open data (unless user opts out).

Goal: to build very large open food image data base -> great for machine learning / AI.

Interested / have expertise in image recognition?
Please talk to us!

One more thing: be careful.

This is about **open** data. Caveat emptor! If you start building a project / app / business around 3rd party data, **make sure you check the license!**

Can you:

- 🍊 use it for ANY purpose (e.g. commercial)?
- 🍊 can you use it for unlimited periods of time?
- 🍊 can you keep the data for yourself?

OpenFood: **YES** to all questions

Ergo, use openfood.ch data if:

- 🍊 you want to focus on CH
- 🍊 you want very broad coverage
- 🍊 **need extremely permissibile license**
- 🍊 **need a high performance API**
- 🍊 you want neutral data



Jonathan Sobel

BeerDeCoded



Open
Food
Data

BeerDeCoded: Digitising beer



Why Beers?



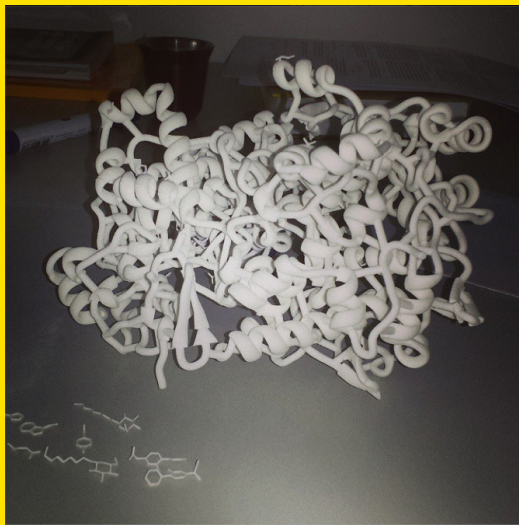
Hackuarium.ch

« Biohacker Space » in Renens next to
Lausanne (Ch. Closel 5)

Projects in biology/science, bio-art and
education

Workshops, Outreach

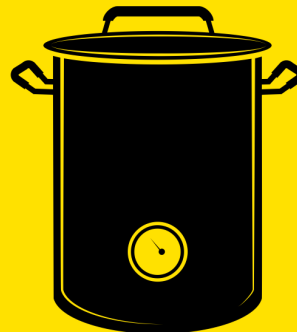
Citizen science, DIY-biology



Open Food Data Hackdays Challenge

For the BeerDecoded Challenge we hope to **BREW**:

1. **Brainstorm** about the potential applications of a Beer knowledgebase based on open access data (BtoB, BtoC)
2. **Re-analyze** some beer data sets and produce a new open access data set about beers (recipes, sticker, measurements, price, brewery,...)
3. **Elucidate** the swiss beer market
4. **Work** on a web interface to browse our Beer knowlegbase. Document our methods/progress



BeerDecoded Needs You

- Beer lovers / brewers
- Curious and proactive people
- Documentalist (Wiki/Github/...)
- Web Dev
- Coders (DB, interface)
- Data analysts
- Designers





Fanny Vuilleumier

Elsa Mifroma



Introducing Rita...



Every day, Rita needs...

Energy: 2100 Kcal

Protein: 44 g

Lipid: 70 g

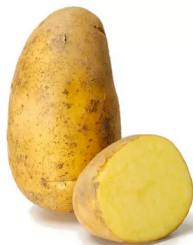
Carbs: 260 g

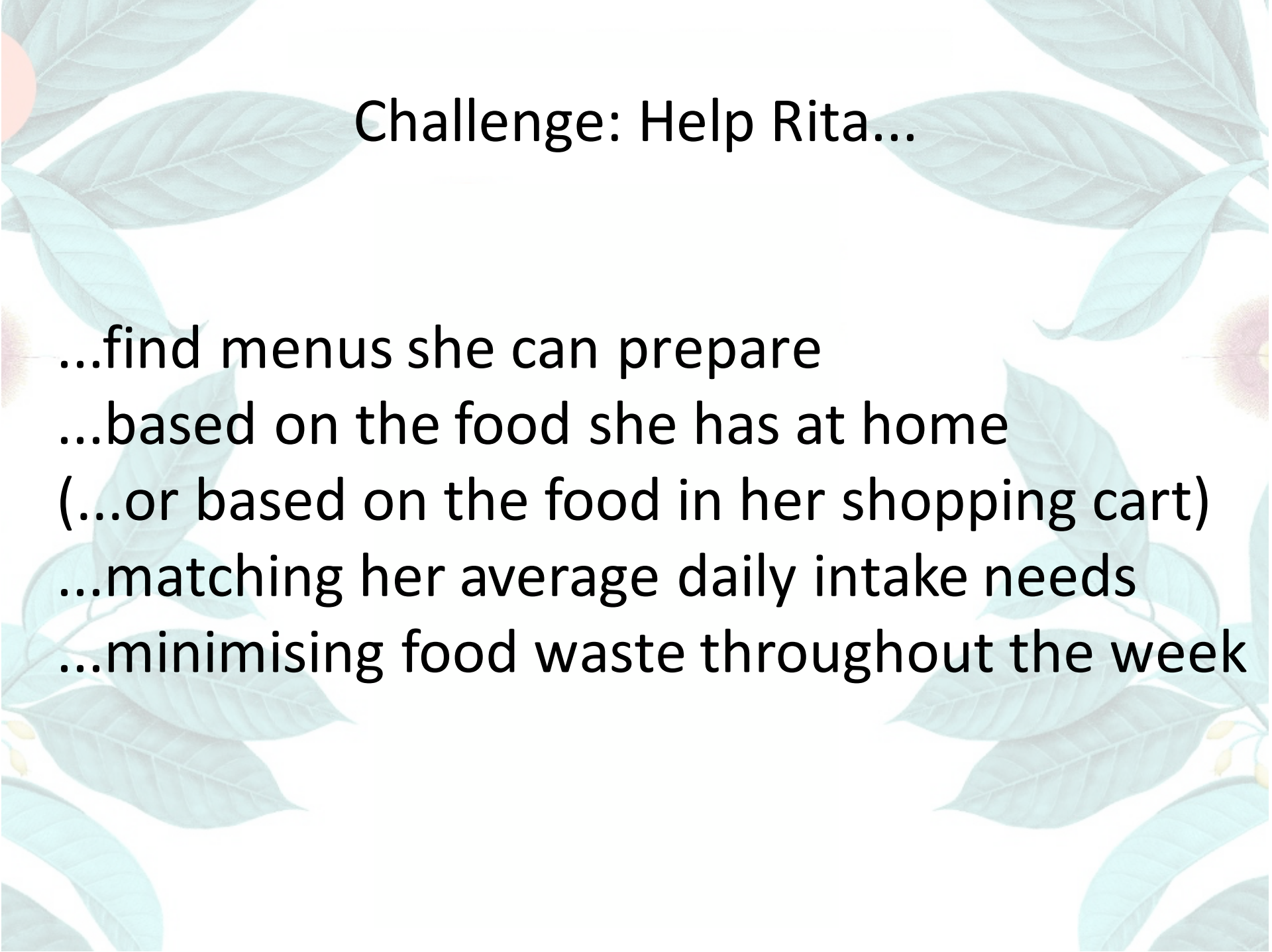
Sugar: 53g total energy

Fiber: min. 30 g per day



Rita's fridge and kitchen contain...





Challenge: Help Rita...

- ...find menus she can prepare
- ...based on the food she has at home
(...or based on the food in her shopping cart)
- ...matching her average daily intake needs
- ...minimising food waste throughout the week

Recommended databases

Intake recommendations for individuals

www.sge-ssn.ch // Schweizerische Gesellschaft für Ernährung

Nutrition values of fresh products

<http://www.naehrwertdaten.ch> // by Swiss Government



Laura Robinson

Foodways





Food Skills

Laura Robinson, Project Manager, Foodways

February 2017

Hands up

The issue



The current solution

A white search bar with a small microphone icon on the right side.

Google-Suche

Auf gut Glück!

Available content

cooking lessons

SEE MORE



Wanna Make Martinis at Home? Start Here.



How To Make a Perfect Shrimp Cocktail with Classic Cocktail Sauce



How To Roast the Perfect Chicken: The Video



How to prepare a peach



How to prepare asparagus



How to prepare cauliflower

Challenge



How can we engage the average millennial in the digital environment to actively put knowledge about food skills (planning, selecting, organising and preparing food) **into practice in their everyday lives?**



Foodways

The national project activities of
My Food Skills are supported by:

ENGAGEMENT
EIN FÖRDERFONDS DER MIGROS-GRUPPE

The international project activities of
My Food Skills are supported by:



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Federal Department of Economic Affairs,
Education and Research EAER
Federal Office for Agriculture FOAG

www.foodways.ch

A detailed botanical illustration of a plant, likely a species of Myrsine, featuring vibrant green, elongated leaves with prominent veins. The plant has clusters of small, round, red berries and a single, larger, yellow, bell-shaped flower with a pinkish-red center. At the bottom, there are several yellow, lemon-like fruits, some of which are cut open to reveal a white, fleshy interior. The illustration is set against a plain white background.

Maryam Yepes

Myravan Solutions

MYRAVAN SOLUTIONS PRESENT

nutriMenu challenge

MAKING THE HEALTHY CHOICE
THE EASIER CHOICE





LE GRAND PRIX SUISSE



1ER PRIX, ÉDITION 2017

MAKING 2.5 MILLION MEALS PER YEAR
MORE NUTRITIONALLY BALANCED



IMPROVING HEALTH

TOOL TO HELP MEET OFFICIAL
NUTRITIONAL RECOMMENDATIONS



**IMPROVE
NUTRITIONAL
QUALITY**



**REDUCED SALT,
FAT AND SUGAR**



**MORE BALANCED
MEALS OVER TIME**

”

**NUTRIMENU HAS
MADE IT EASIER
FOR ME TO
PREPARE
HEALTHIER MEALS**

“

RESTAURANT OPERATORS





**MY
NM**

**CONNECTING
HEALTHY
RESTAURANTS
AND HEALTH-
CONSCIOUS PEOPLE**

DATA SOURCES

SOME SOURCES OF DATA

- Openfood.ch nutrients data
- Swiss food composition database
- Open Food Facts
- Others

MY nutriMenu

MAKING HEALTHY CHOICES, EASIER
CHOICE



**SYNCH MY HOME
FOOD WITH MY
RESTAURANT
FOOD**



**HELP ME FIND
HEALTHY
RESTAURANTS**



**GIVE ME
FEEDBACK ON
WHAT TO
CHOOSE NEXT**

BE PART OF THE NEXT GENERATION OF HEALTHY FOOD LANGUAGE

JOIN
US

MARYAM YEPES

MY
NM



... the
stage
is yours

**Pitch your idea
in 2 minutes**