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Building a Scientific Software Accreditation Framework

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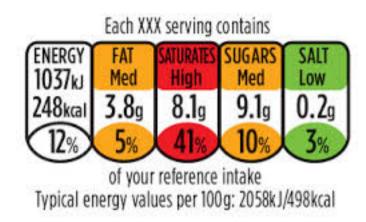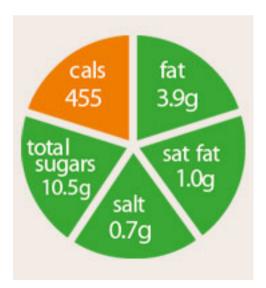ORCID: 0000-0002-8876-7606 | N.ChueHong@software.ac.uk

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What is "good" software, and how can we measure it?

Nutritional Labelling

Each XXX serving contains

ENERGY	FAT	SATURATES	SUGARS	SALT
1037kJ	Med	High	Med	Low
248kcal	3.8g	8.1g	9.1g	0.2g
12%	5%	41%	10%	3%

of your reference intake
Typical energy values per 100g: 2058kJ/498kcal

- cals 455
- fat 3.9g
- sat fat 1.0g
- salt 0.7g
- total sugars 10.5g

- Designed to be easy to read and understand
  - Small set of categories
  - "Traffic light" indicators
- A framework that can be evaluated differently due to community norms
  - Healthy heart diet vs cake

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Software Accreditation Framework

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Challenges

- Many measures are subjective

- Many metrics are costly to measure

- Need to encourage self-assessment

Purpose

- Enabling improvement, versus

- Enabling comparison

Categories

- Availability

- Usability

- Transferability

- …?

Benchmark against existing software

Software Management Plans

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- A means of ensuring software is accessible and reusable throughout project and beyond

- A tool that complements (/ implements) accreditation framework

Prototype based on DMPOnline

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