

Stephanie Simms
California Digital Library
#PIDapalooza
10 Nov 2016

PIDs in DMPs

spinning tracks with syntax



Machine Dreams of DMPs

Current state of affairs:

Analog DMP world of infinite variations and zero structure

[Little Dragon | Machine Dreams](#)



Cosmogramma of Stakeholders

Researchers

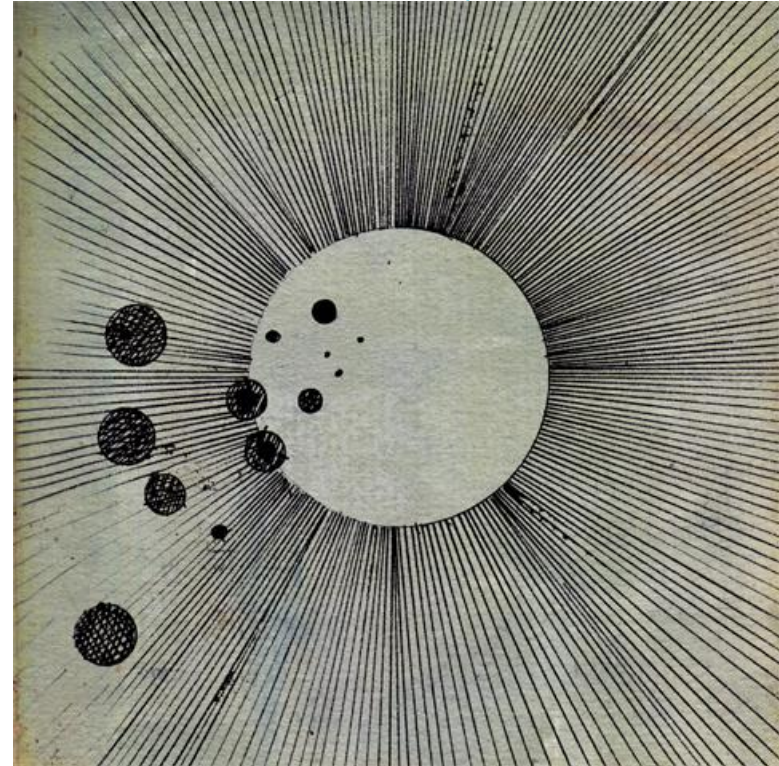
Institutions/Organizations

Repositories/Infrastructure

Funders

Publishers

[Flying Lotus | Cosmogramma](#)



Post-Static/Dynamic/Machine-Actionable DMPs

DMPRoadmap project: global platform
to experiment with a new DMP genre

Developing use cases: includes PIDs

[Kraftwerk | Computer World](#)



DMPonline Themes

Data Description

Data Format

Data Volume

Metadata

...

[Seeking input!](#)

[Digital Curation Centre | DMPonline](#)



A JavaScript library for web-based content editing.

Substance Showcases

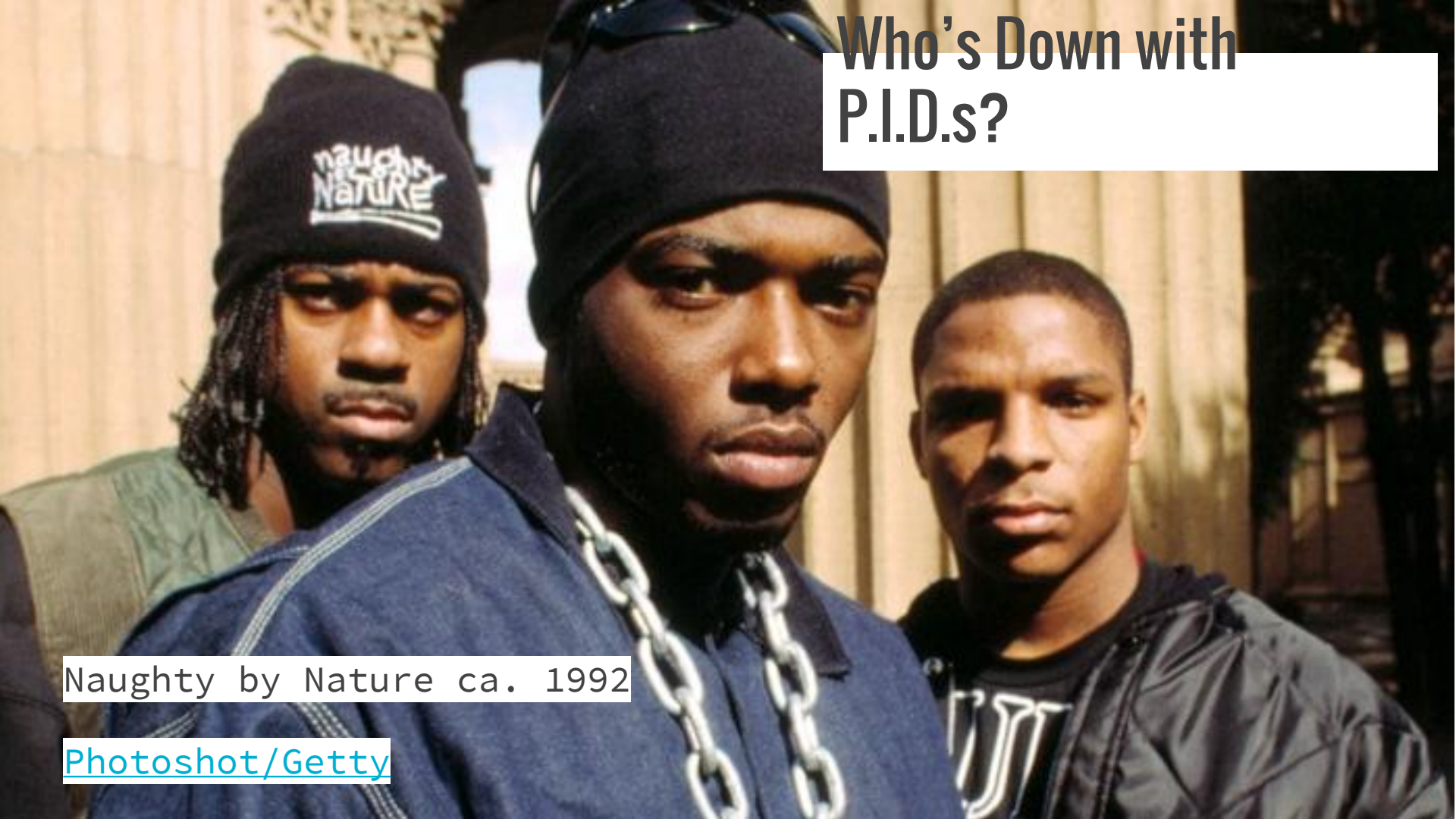
from **Michael Aufreiter**

protease inhibitor (TPI) activity and transcripts in transformed lines; graphs show means+SEM. (A) TPI activity measured in systemic leaves of field-grown (top two panels, 2011, N=11–14 for panel 1 and N=21 for panel 2) or glasshouse-grown plants (bottom panel, N=10) attacked by *Manduca* spp. larvae. Only WT, *irPI* and *hemi-irLOX2* plants were used in M4. For a timeline of *Manduca* spp. infestations M1–M4 see [Figure 4A](#). For raw data, see [F2A_SchumanBartheBaldwin2012TPIactivity.xlsx](#) (Dryad: [Schuman et al., 2012](#)). (B) Transcripts of *PI* in unelicited leaf tissue (control), and at the point of maximum accumulation in W+OS-elicited leaf tissue in glasshouse-grown plants (N=5). For raw data, see [F2B_SchumanBartheBaldwin2012Pitranscripts.xlsx](#) (Dryad: [Schuman et al., 2012](#)). *W+OS treatment had a significant effect on *PI* ($p < 0.001$) transcript accumulation. ^{a, b} Different letters indicate significant differences between genotypes ($p < 0.001$) in Scheffe *post hoc* tests following a two-way ANOVA on log₂-transformed data with factors treatment and genotype (genotype $F_{3,29} = 174.077$, $p < 0.001$; treatment $F_{1,29} = 75.909$, $p < 0.001$). L.O.D.: below limit of detection for measurement. DOI: <http://dx.doi.org/10.7554/eLife.00007.003>

Figure 2. Hexane extracts of leaves from field-grown plants. (A) Hexane extracts from pooled leaf samples of field-grown plants for a qualitative assessment of green leaf volatile (GLV) pools, analyzed by GC-MS with a split ratio of 1/100 onto a nonpolar column; only (*E*)-hex-2-enal was identified due to poor resolution of (*E*)-hex-2-enal and (*Z*)-hex-3-en-1-ol on the nonpolar column; no ester peaks were detected. For raw data, see [F3A_SchumanBartheBaldwin2012chromatograms.xlsx](#) (Dryad: [Schuman et al., 2012](#)). (B) Example chromatograms from hexane extracts of individual leaf samples from field-grown plants, analyzed by GC-FID on a wax column. The dominant compound was (*E*)-hex-2-enal; (*Z*)-hex-3-en-1-ol was also present in quantifiable amounts. (*Z*)-3-hexenyl acetate was chosen as an internal standard because no esters were detectable in the preliminary qualitative GC-MS analysis (1A), and because its chemical similarity to (*E*)-hex-2-enal and (*Z*)-hex-3-en-1-ol made it a good choice of internal standard for normalization and calculation of yield from extracts. For raw data, see [F3B_SchumanBartheBaldwin2012chromatograms.xlsx](#) (Dryad: [Schuman et al., 2012](#)). IS: internal standard. DOI: <http://dx.doi.org/10.7554/eLife.00007.004>

02:08 HD :: vimeo

Who's Down with P.I.D.s?




Naughty by Nature ca. 1992

[Photoshot/Getty](#)

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Last name	<input type="text" value="User"/>
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Language	<input data-bbox="550 516 919 560" type="text" value="English (UK)"/>
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First name	<input type="text" value="Org"/>
Last name	<input type="text" value="User"/>
Organisation	<input type="text" value="Digital Curation Centre"/> x v
Language	<input type="text" value="English (UK)"/> x v
ORCID	 Connect your ORCID

If you would like to change your password please complete the following fields.

Current password	<input type="password"/>
New password	<input type="password"/>
Password confirmation	<input type="password"/>

ORCID

Stephanie Simms

<http://orcid.org/0000-0001-9129-3790>

(Not You?)

DMPTool 

has asked for the following access to your ORCID Record



Get your ORCID iD

- Allow this permission until I revoke it.
You may revoke permissions on your account settings page. Unchecking this box will grant permission this time only.

This application will not be able to see your ORCID password, or other private info in your ORCID Record. [Privacy Policy](#).

Deny

Authorize

Account settings

ORCID ID

 orcid.org/0000-0001-9129-3790




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Language display preferences	Edit
ORCID inbox notifications	Edit
Password	Edit
Privacy preferences	Edit
Security question	Edit
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You can allow permission for your ORCID Record to be updated by a trusted organization.

[Find out more](#)

Trusted organization	Approval date	Access type	
ÜberWizard for ORCID http://orcid.uberresearch.com	2014-08-04	Read your ORCID record	
CrossRef Metadata Search http://search.labs.crossref.org	2014-07-29	Read your ORCID record	
DMPTool https://dmptool.org/	2016-11-03	Get your ORCID iD	

Give It All [the PIDs] You Got

Assign a DOI to DMP of record (i.e., submitted with grant proposal)

Leverage other PIDS to populate DMP over time:

- Researcher IDs ([ORCIDs](#))
- Funder IDs ([FundRef](#))
- Resource IDs ([RRIDs](#))
- Projects, instruments, protocols, ethics, physical samples, etc.

Afro-Rican | Give It All You Got

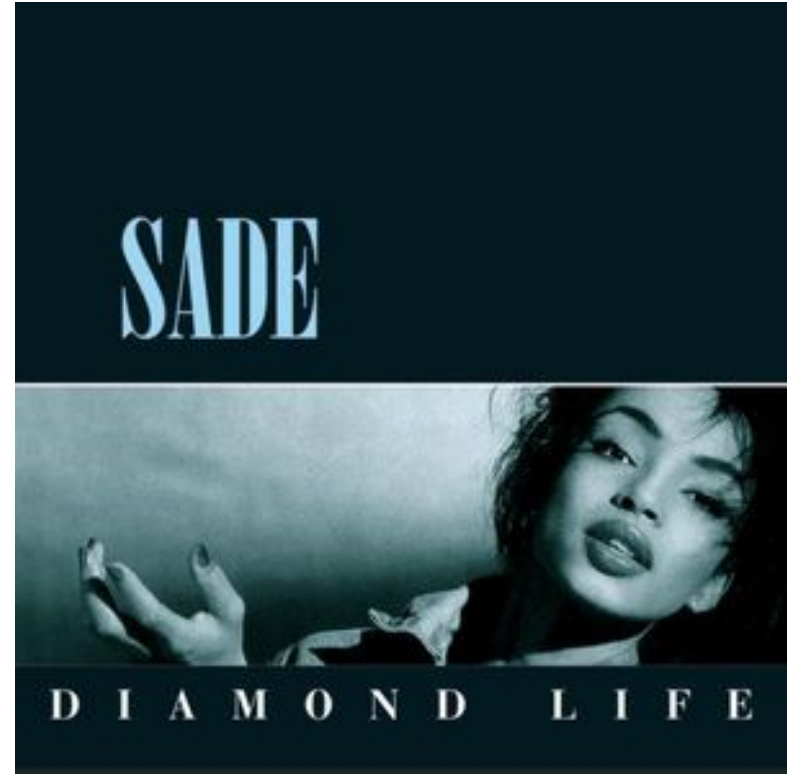


Smooth Operator

Can we design DMPs that allow researchers and other stakeholders to:

“...move in space with minimum waste and maximum joy?”

[Sade | Diamond Life](#)



Dark Side of the Moon > Promoting Open DMPs

[Pink Floyd | The Dark Side of the Moon](#)

[DMPTool Public DMPs](#)

[RIO Journal DMP Collection](#)

APIs and integrations (e.g.,
Dataverse, Zenodo, Figshare)



Machine-actionable DMPs: International Tour Dates

9-10 Nov 2016

PIDapalooza
Reykjavik, Iceland

[We're here!](#)

20-23 Feb 2017

IDCC
Edinburgh, Scotland

[Get tickets](#)

5-7 Apr 2017

RDA
Barcelona, Spain

[Get tickets](#)

All slides written and performed by:

stephanie.simms@ucop.edu
@stephrsimms @TheDMPTool @DMPonline
blog.dmptool.org
github.com/dmproadmap

Questions

- What workflows can we imagine around machine-actionable & public DMPs?
- How can DMPs interact with each other, within & across layers?
- Which versions of a DMP should be archived & for how long?
- Which resources should a DMP talk to/be notified from?
- What actions could or should DMPs trigger?
- Who should know a DMP was updated?
- When should DMPs be updated?
- ...