

Web Annotation

The Web's Conversation Layer

Lyza Danger Gardner | lyza@lyza.com



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Annotate the web, with anyone, anywhere.

We're a **nonprofit on a mission** to bring an open conversation over the whole web. Use Hypothesis right now to hold discussions, read socially, organize your research, and take personal notes.

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Hypothesis - The Internet, pee x

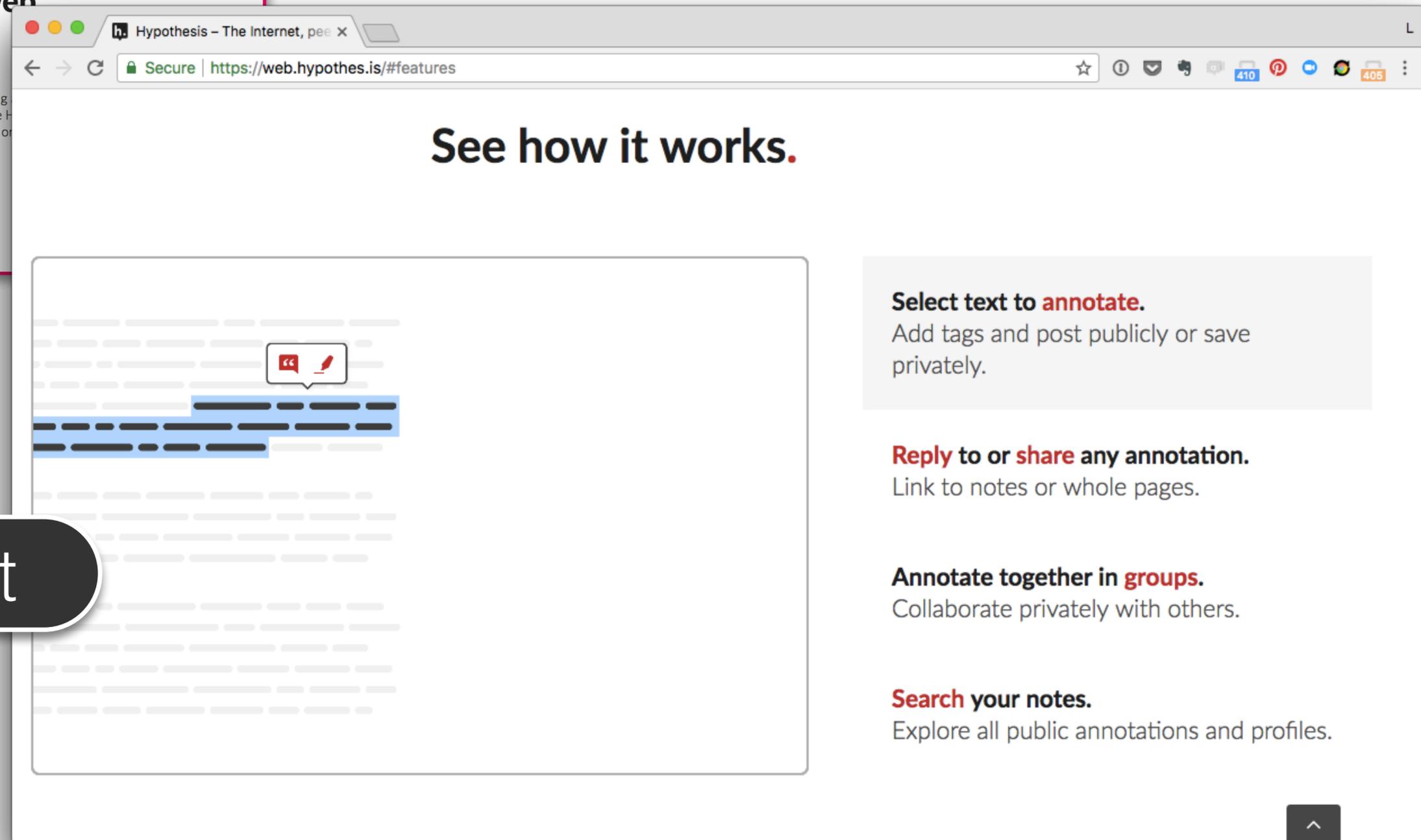
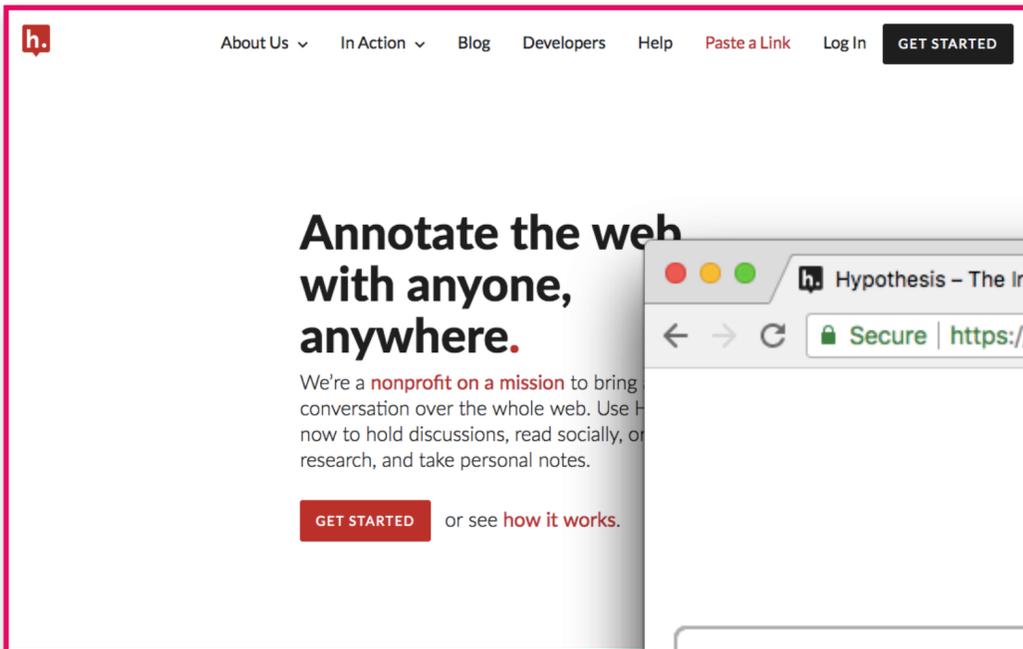
Secure | <https://web.hypothes.is/#features>

See how it works.

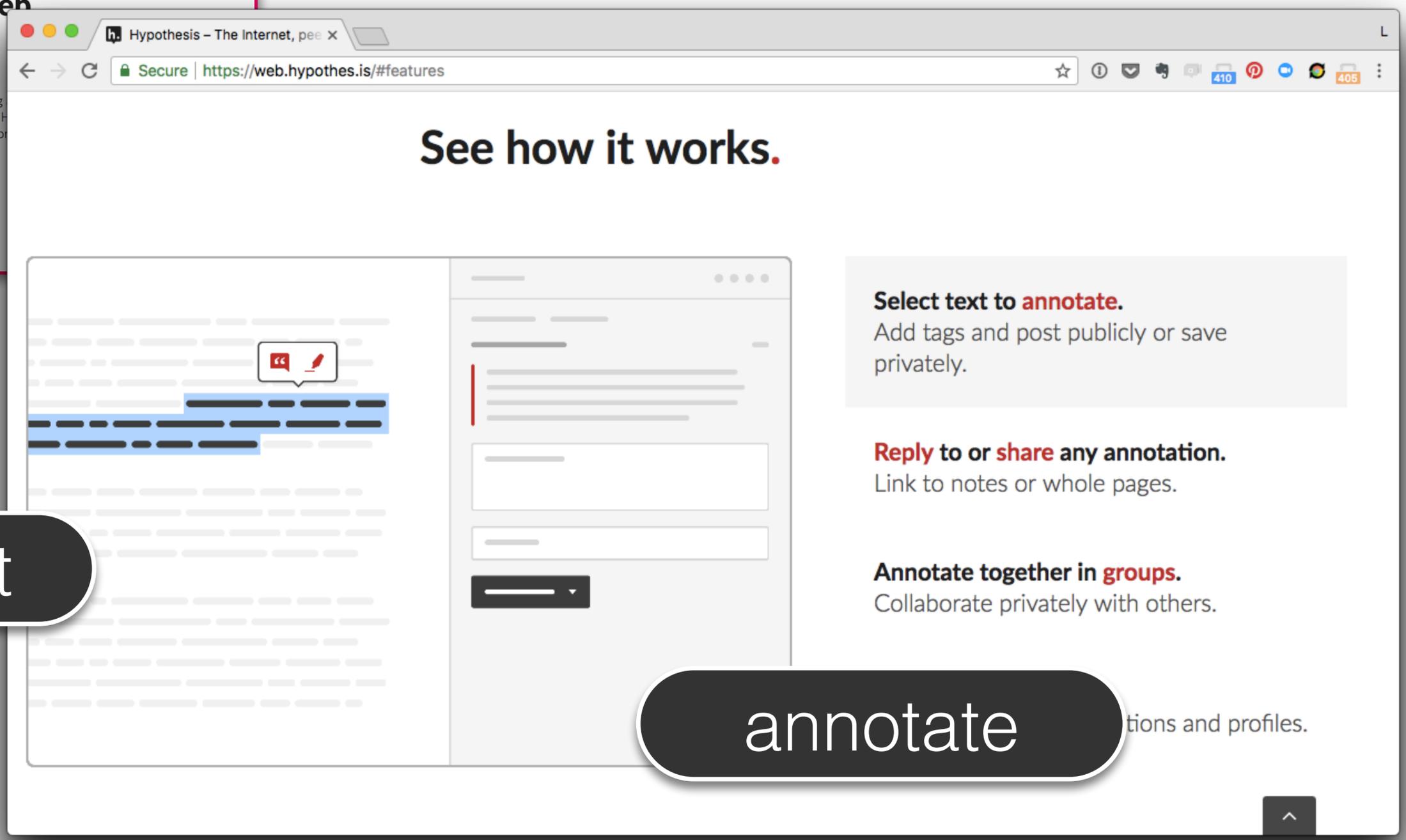
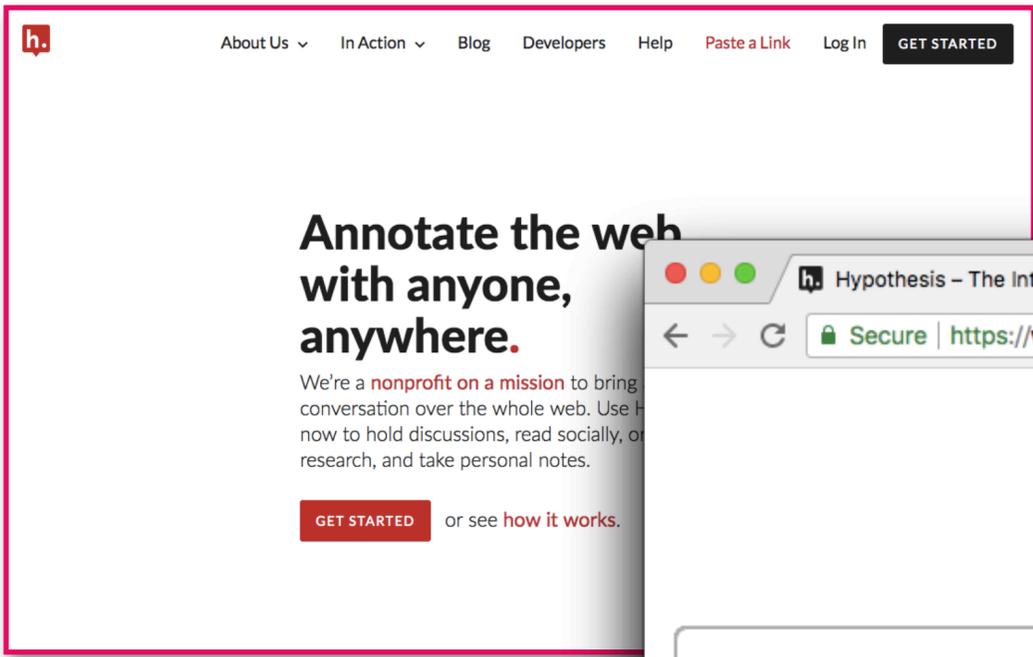


- Select text to **annotate.****
Add tags and post publicly or save privately.
- Reply to or **share** any annotation.**
Link to notes or whole pages.
- Annotate together in **groups.****
Collaborate privately with others.
- Search your notes.**
Explore all public annotations and profiles.

↑



select text



select text

annotate

tions and profiles.



an • no • tate

an • **no** • **tate**
annotare

annotate

annotare

annotate

to

annotare

mark

Section Header



Placeholder text consisting of seven horizontal lines.

Section Header

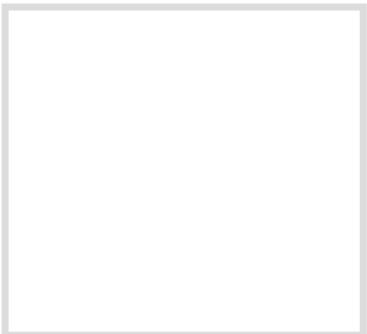
Placeholder text consisting of ten horizontal lines.



Placeholder text consisting of ten horizontal lines.

- Placeholder text consisting of five horizontal lines.
- Placeholder text consisting of five horizontal lines.
- Placeholder text consisting of five horizontal lines.
- Placeholder text consisting of five horizontal lines.
- Placeholder text consisting of five horizontal lines.





- _____
- _____
- _____
- _____
- _____
- _____

#####

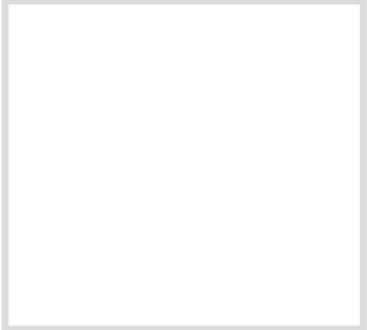
Section Header



Placeholder text consisting of seven horizontal lines.

Section Header

Placeholder text consisting of ten horizontal lines.



Placeholder text consisting of ten horizontal lines.

- Placeholder text line

Placeholder text consisting of three horizontal lines, enclosed in a dashed red border.

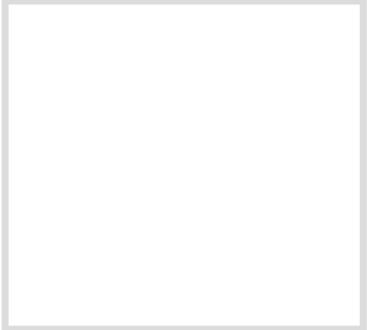
Section Header



Placeholder text consisting of seven horizontal lines.

Section Header

Placeholder text consisting of ten horizontal lines.



Placeholder text consisting of ten horizontal lines.

- Placeholder text line

Placeholder text consisting of three horizontal lines, enclosed in a red dashed border.

The wireframe layout consists of the following elements:

- A thick grey horizontal bar at the top.
- A line drawing of a dinosaur on the left side.
- A block of seven horizontal grey lines to the right of the dinosaur.
- A block of ten horizontal grey lines below the dinosaur.
- A large empty rectangular box to the right of the ten-line block.
- A list of five items, each consisting of a grey dot followed by a horizontal grey line, located below the ten-line block.

Placeholder text block with three lines of grey text.

Placeholder text block with three lines of grey text.

Placeholder text block with two lines of grey text.



WEB ANNOTATION



WEB ANNOTATION



WEB ANNOTATION

STANDARD



WEB ANNOTATION

STANDARD

WEB ANNOTATION
STANDARD

THE
WEB

really quite intriguing

really quite intriguing

(but also a somewhat challenging journey)

From big, vast picture

TODAY

From big, vast picture

TODAY

From big, vast picture

to some detailed, uh, details

The Web

zoom level

universe galaxies constellations planets humans



The Web

Our Universe

zoom level

universe galaxies constellations planets humans



How would you draw the web?

How would you draw the web?

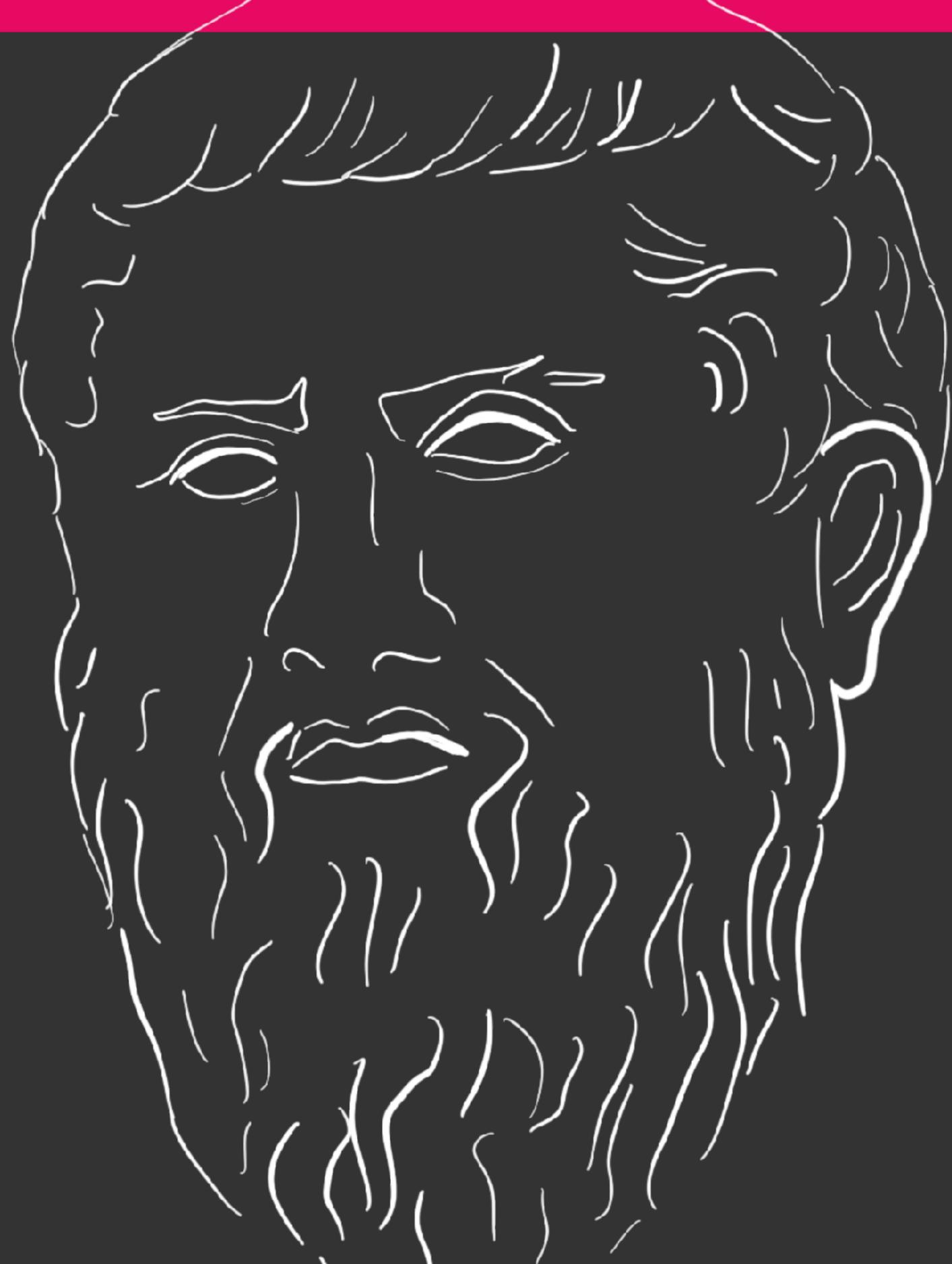
The web is furiously abstract

The web is furiously abstract

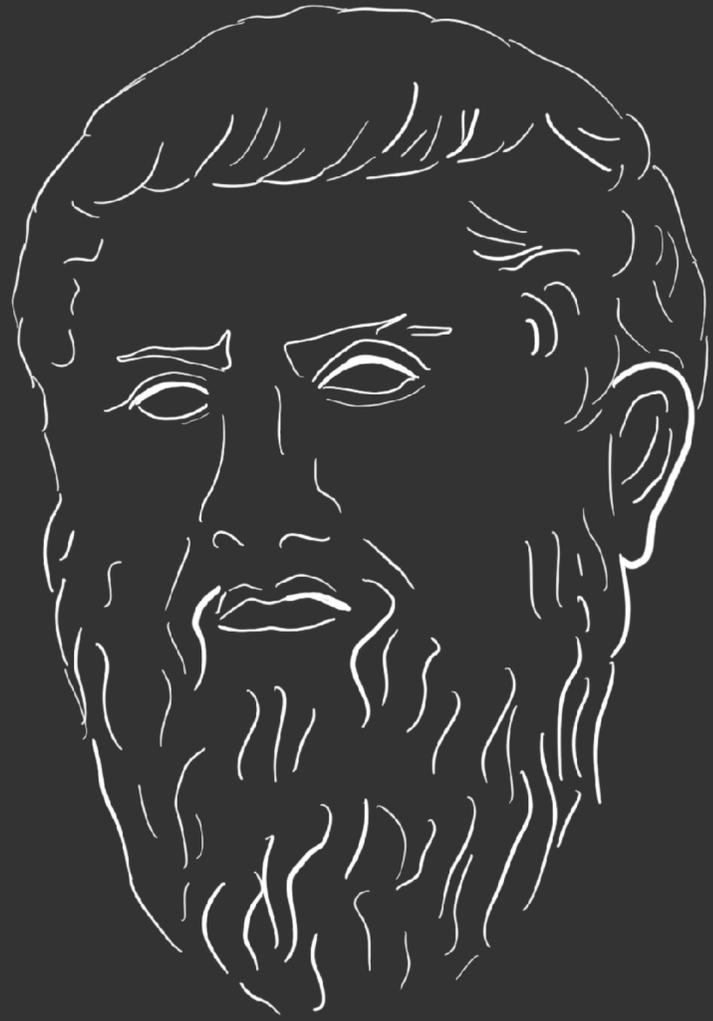
but we hold a shared understanding

The web is furiously abstract

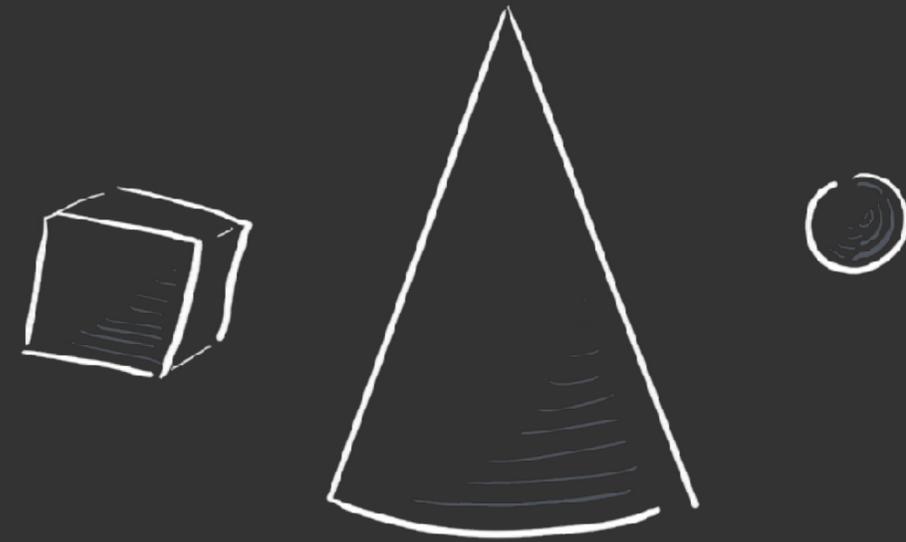
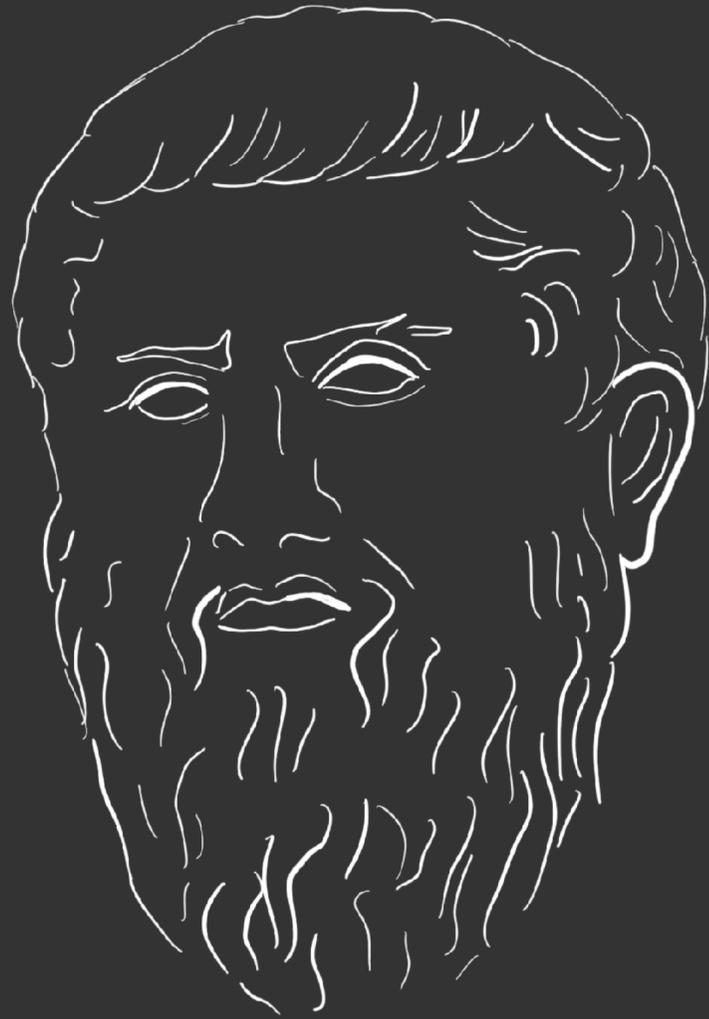
but we hold a shared understanding



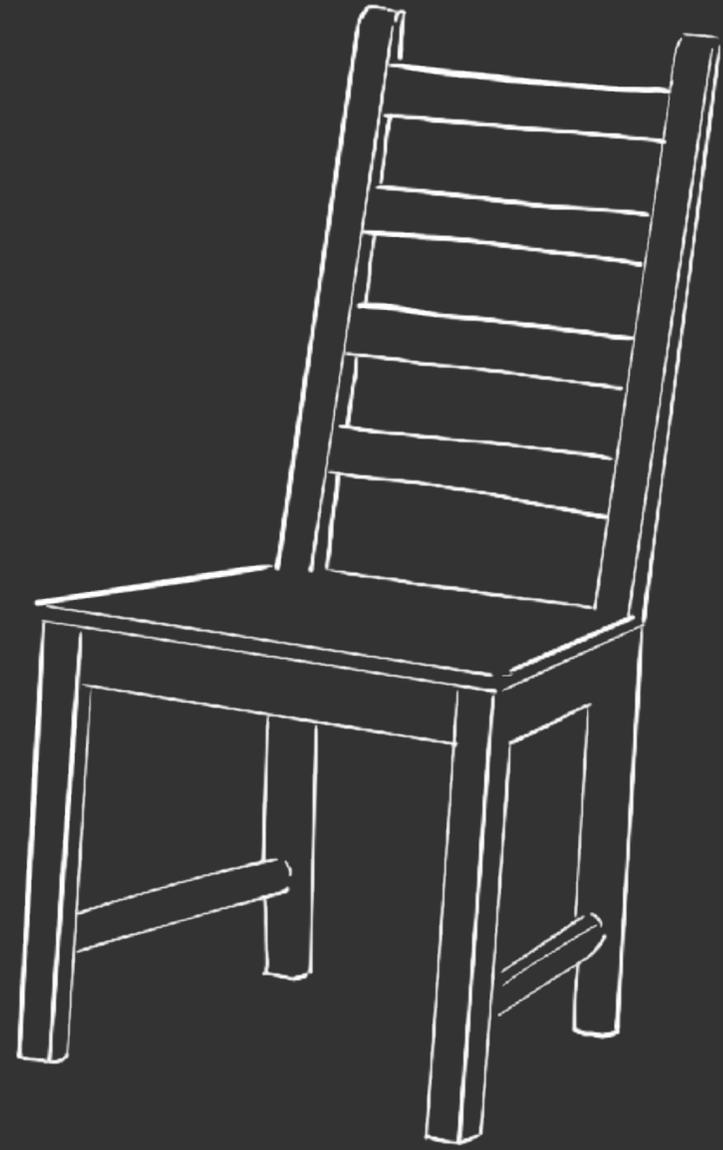
Plato



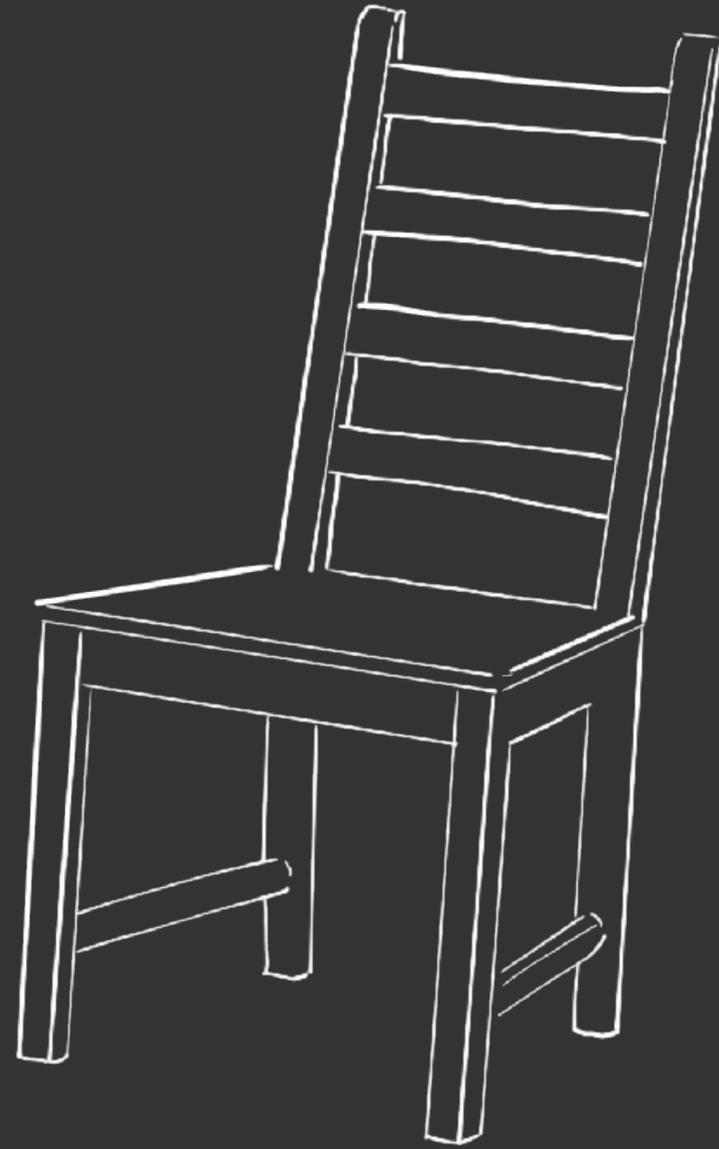
Plato



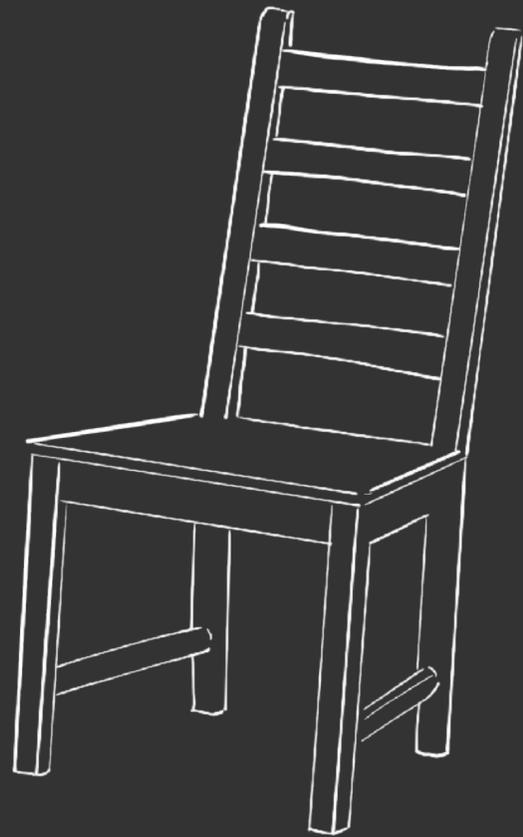
Theory of Forms



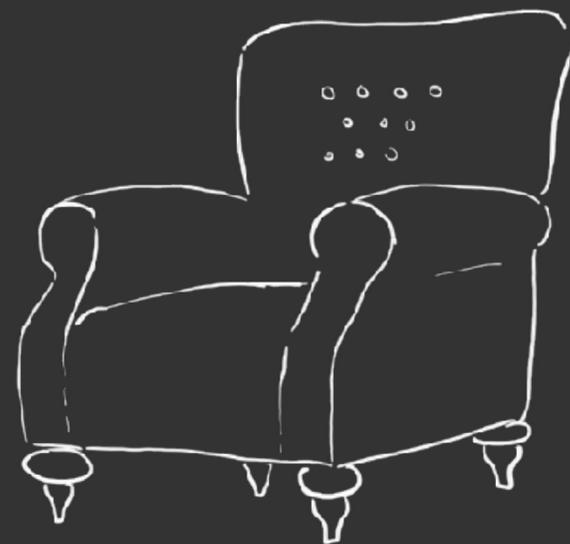
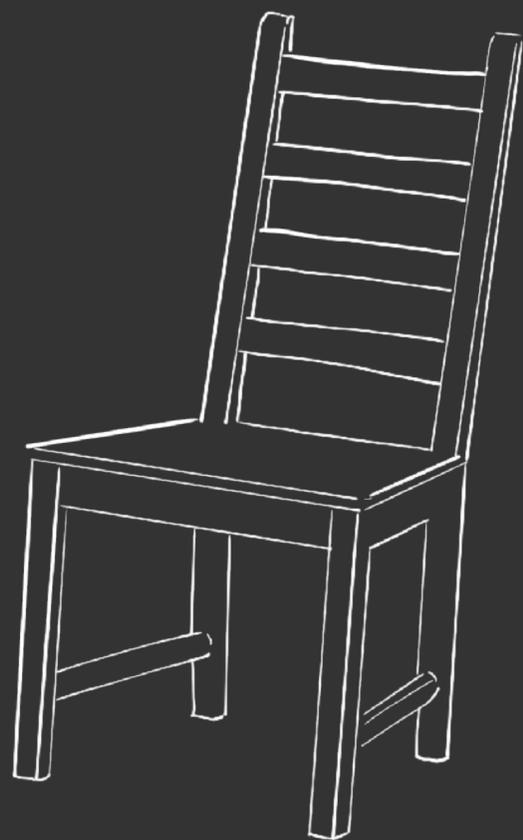
One True Chair



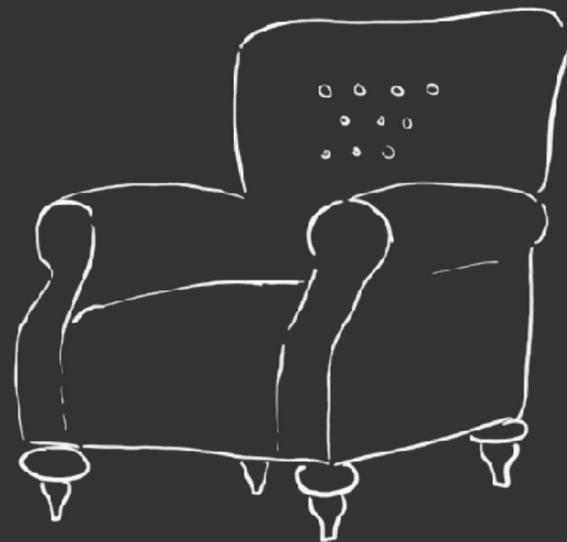
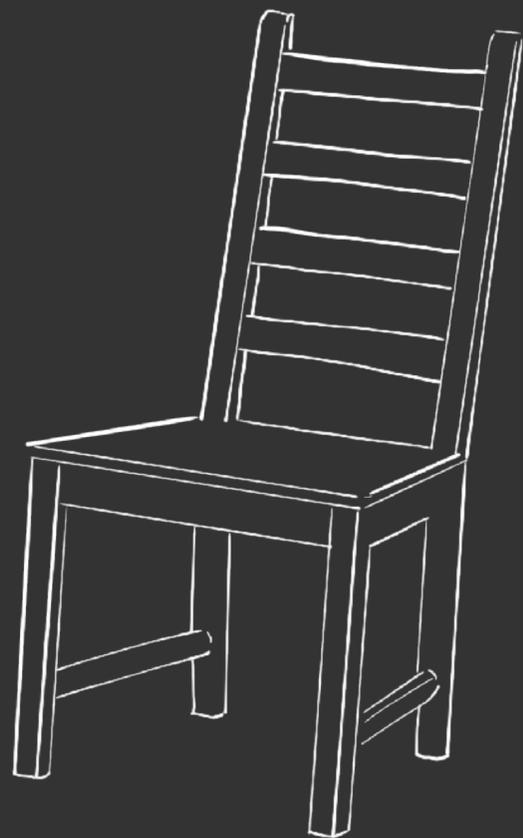
chairs in reality share chair-ness



chairs in reality share chair-ness



chairs in reality share **chair-ness**



the web has web-*ness*

the web is a universe

the web is a universe



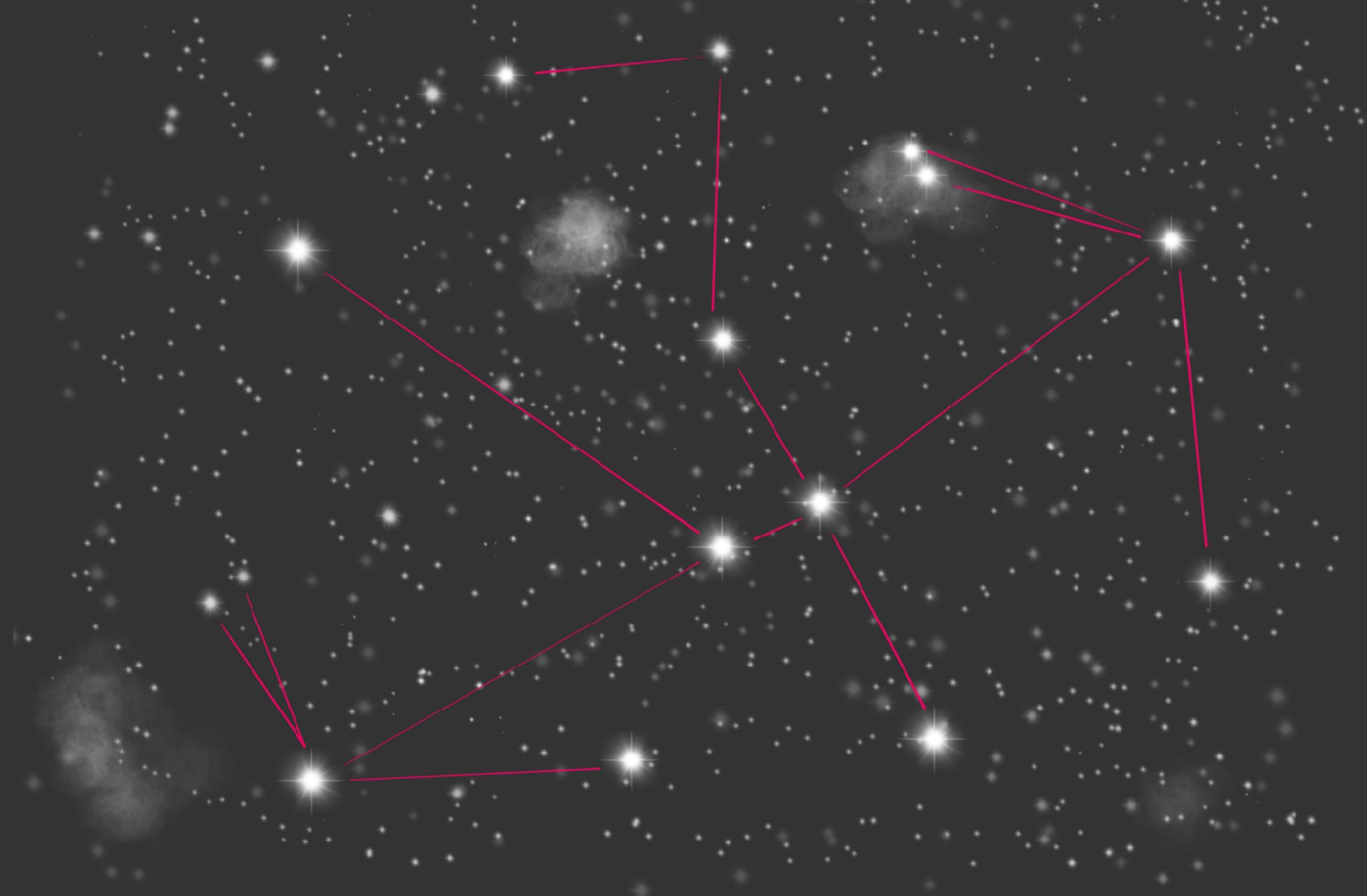
the web is a universe



the Web is a connected universe



the Web is a connected universe



Of the web

Of the web

vs. on the web

The web is...

The web is...

noble

The web is...

noble practical

The web is...

noble practical ours

The web is...

noble practical ours brilliant

The web is...

practical ours brilliant flawed

The web is...

is brilliant flawed uncontrollable

The web is...

lawed uncontrollable democratic

The web is...

a vast, imperfect universe

Recurring, thematic tensions

in the web

As with the web

so with Web Annotations

Linked Data

zoom level

universe galaxies constellations planets humans

A horizontal axis with tick marks and a red triangle pointing to the 'universe' label.

Linked Data

Galaxies of connections

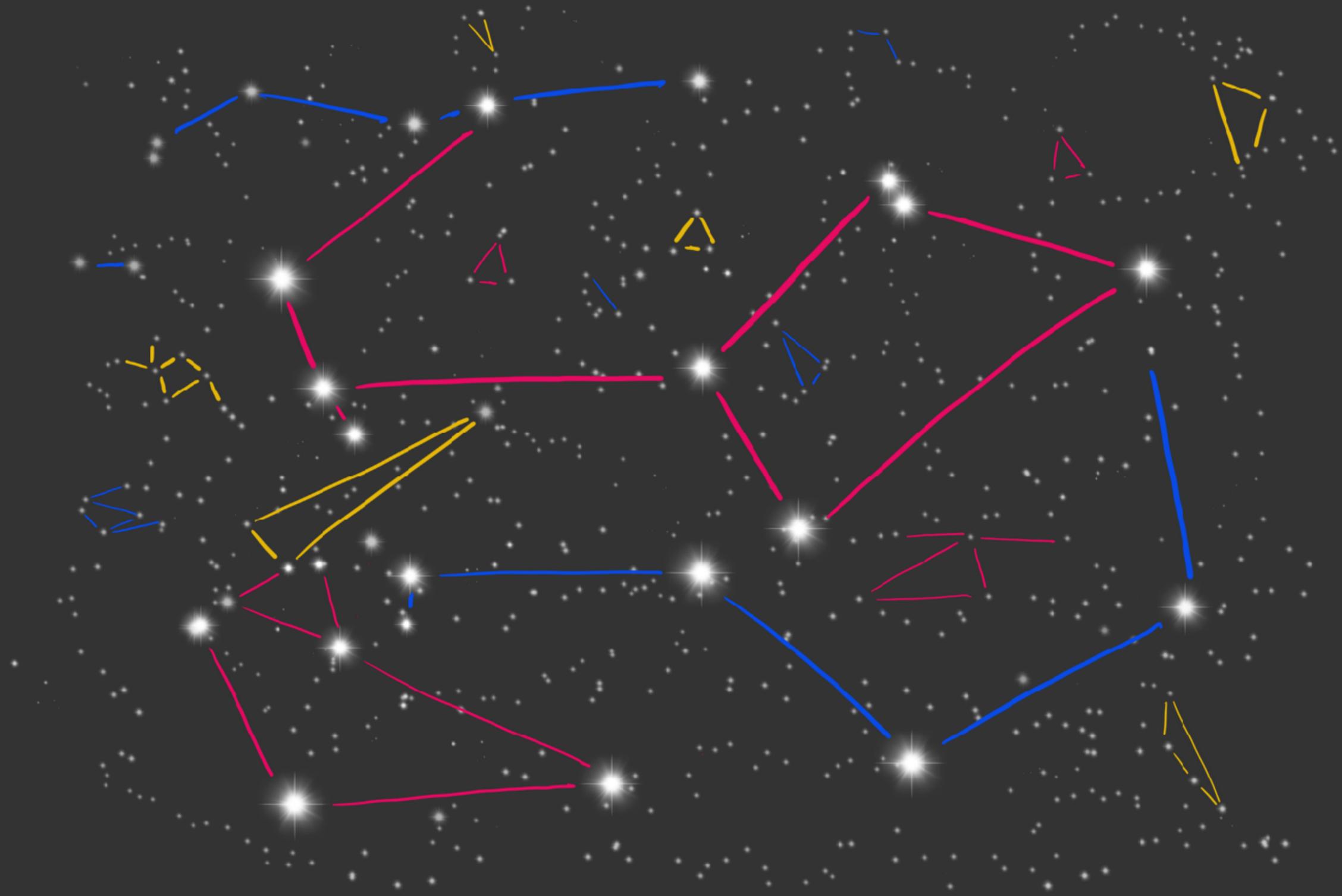
zoom level

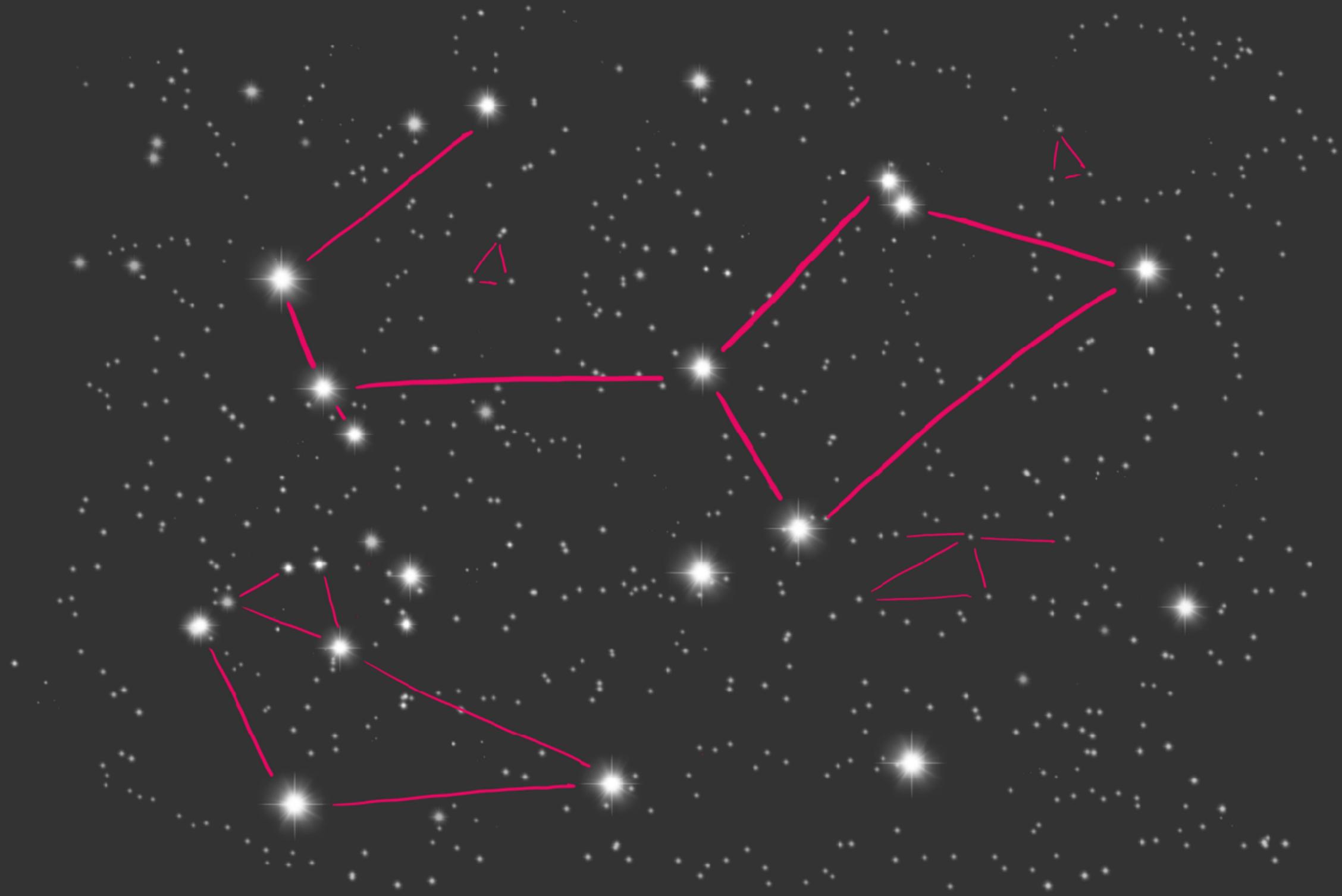
universe galaxies constellations planets humans

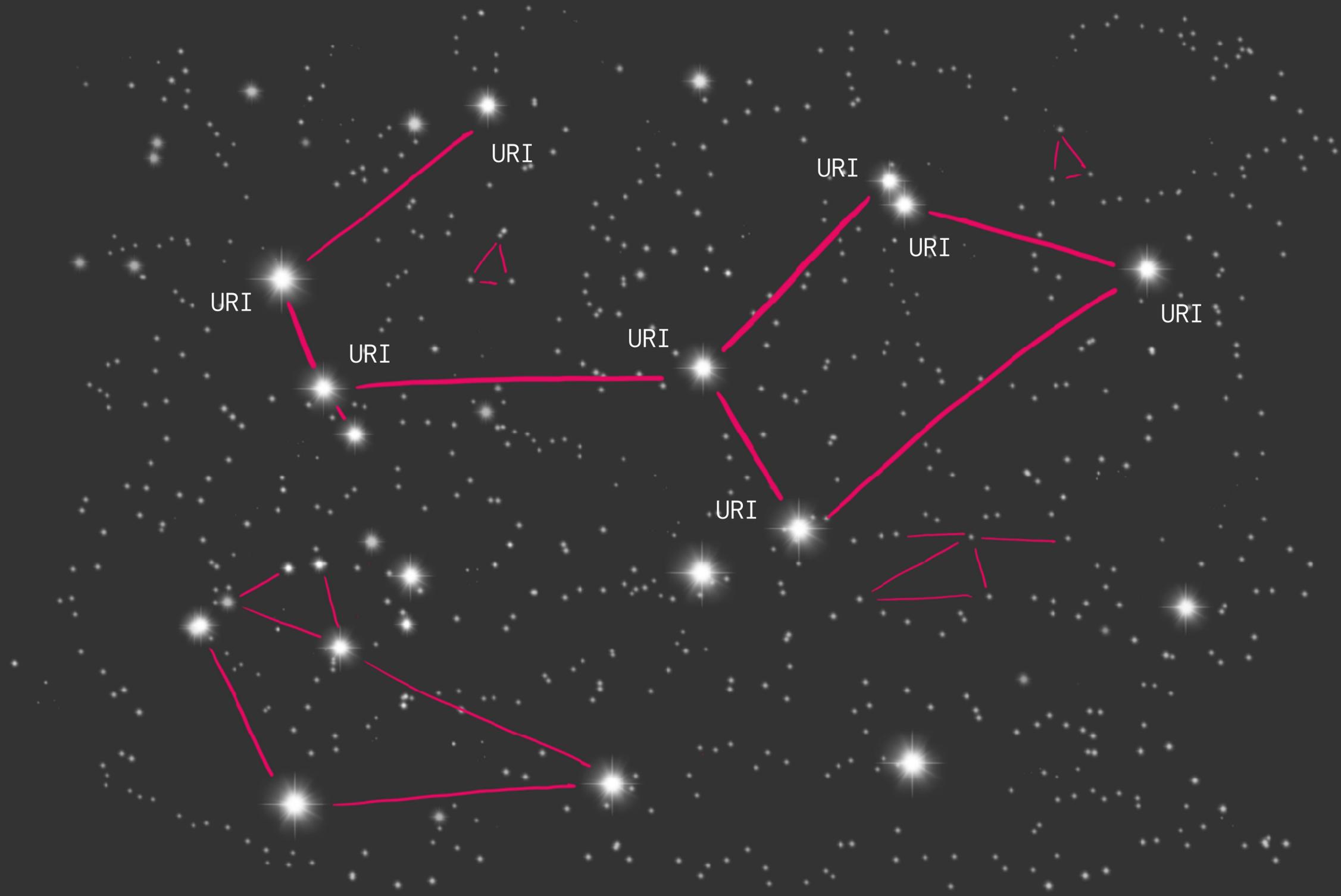
A horizontal axis with tick marks and a red triangle pointing to 'galaxies'.









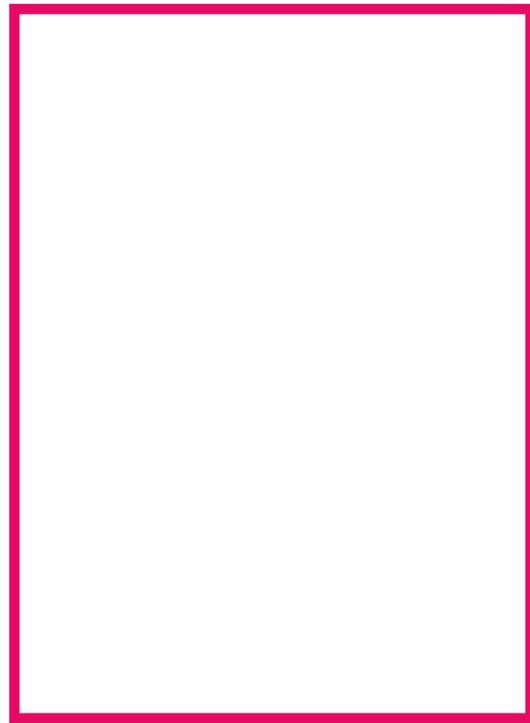


URI

URI

URI

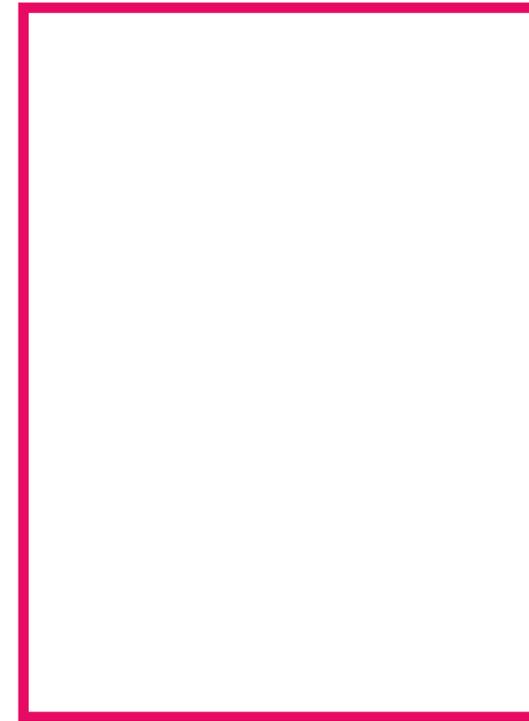
URI

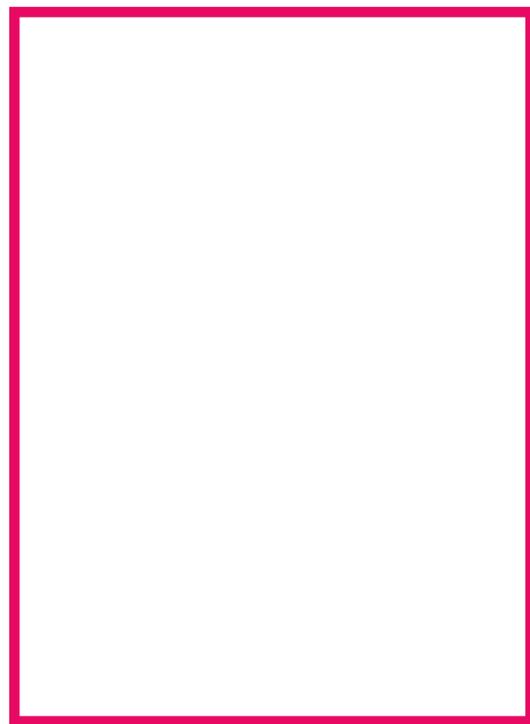


URI



URI



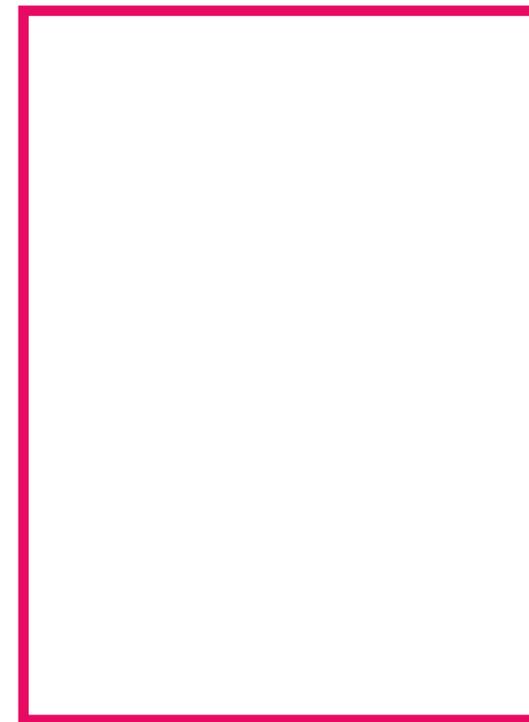


document

URI



URI



document

not just HTML documents, but...

people

not just HTML documents, but...

people places

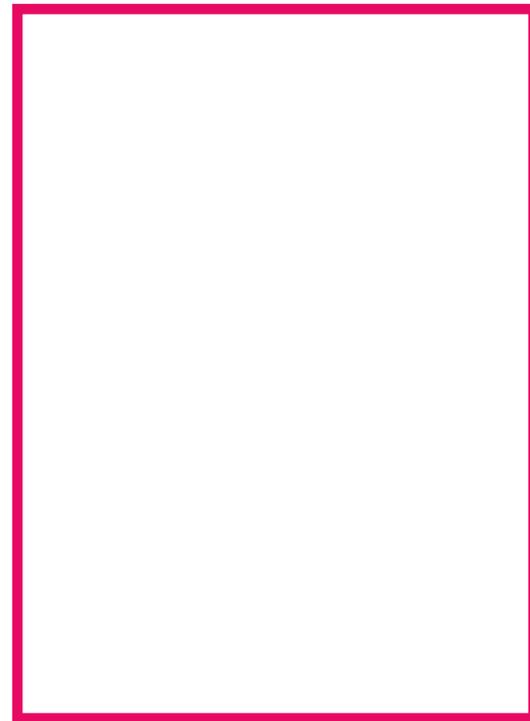
not just HTML documents, but...

people places books

not just HTML documents, but...

people places books dinosaurs

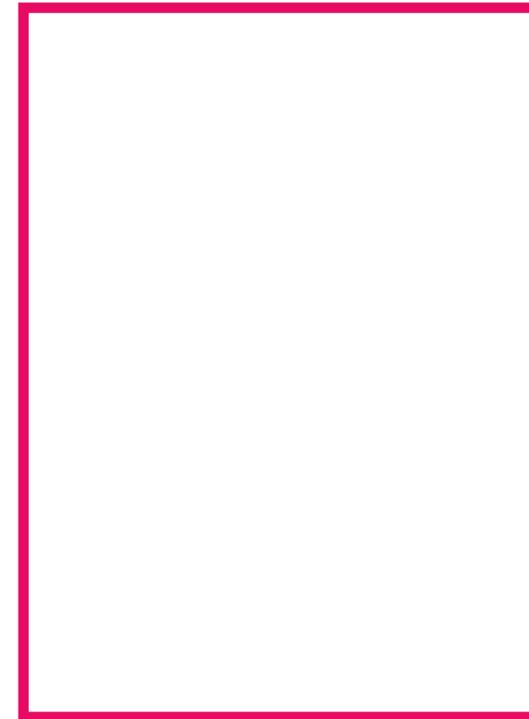
people



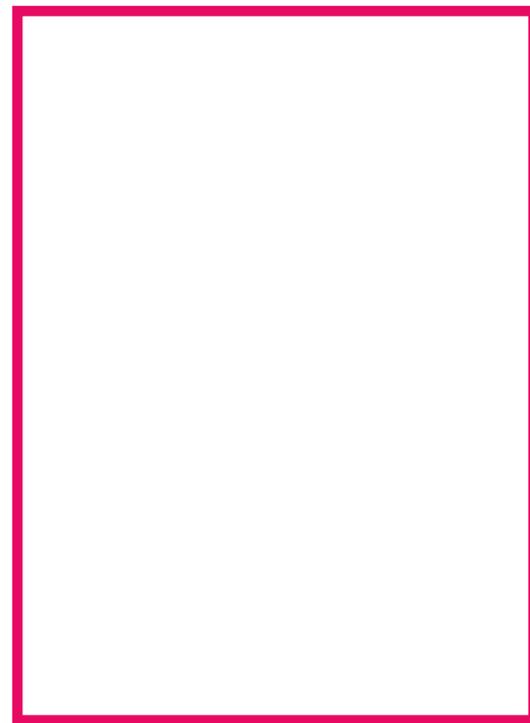
URI



URI



people

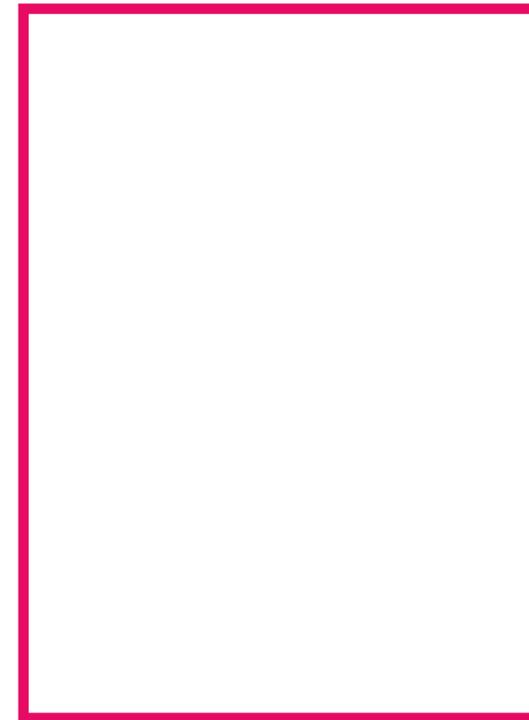


person

URI



URI



person

knows

relationships



person

knows



person

relationships



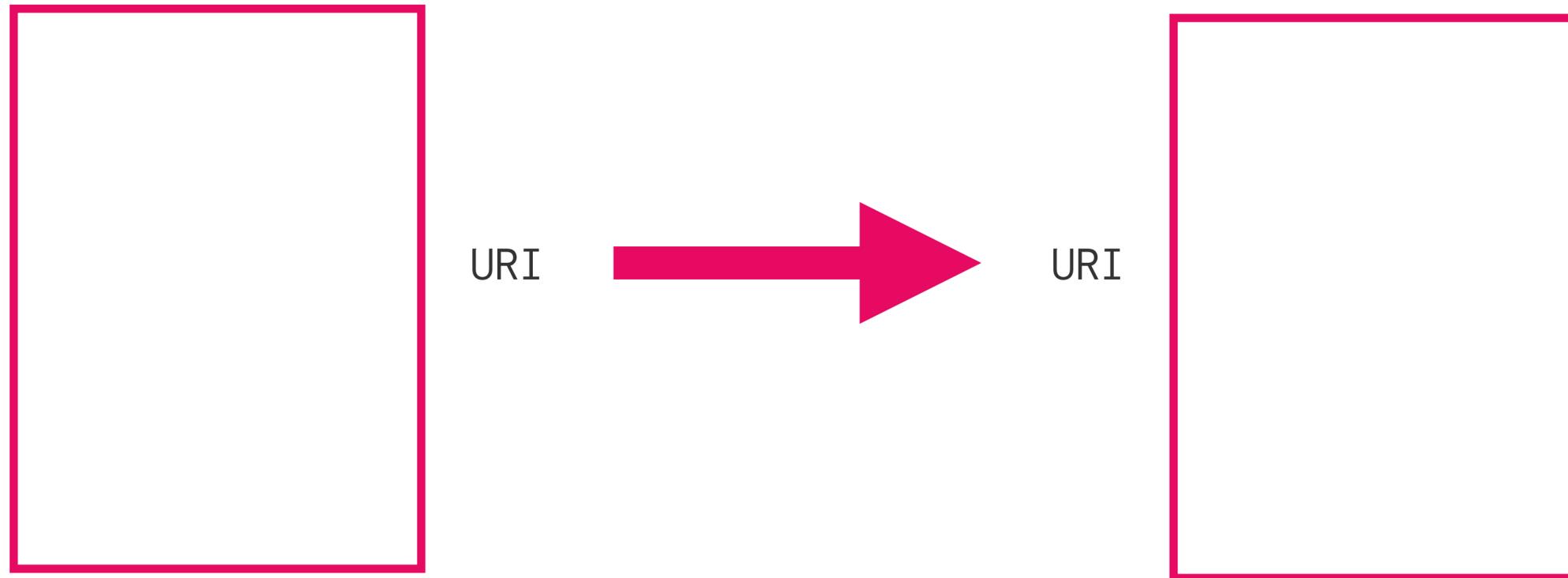
object

relationship

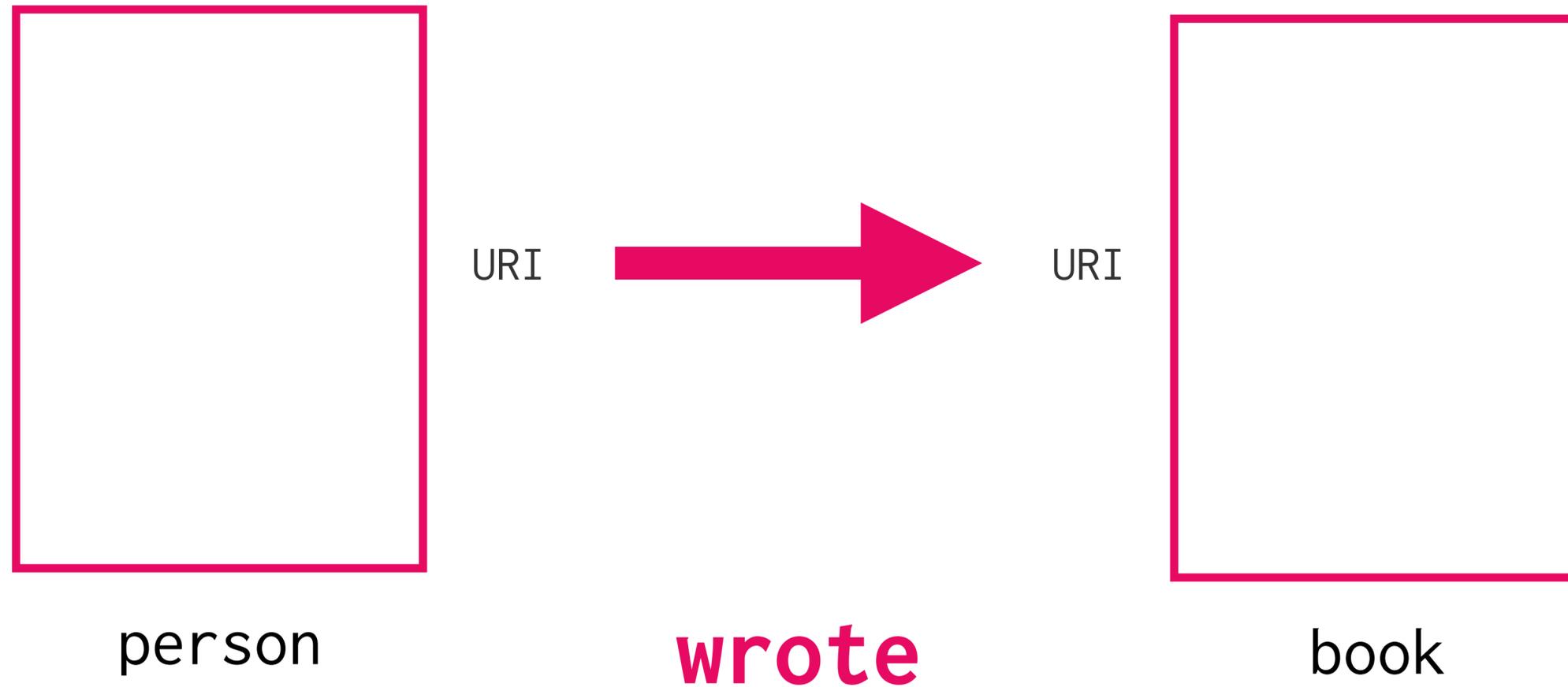


object

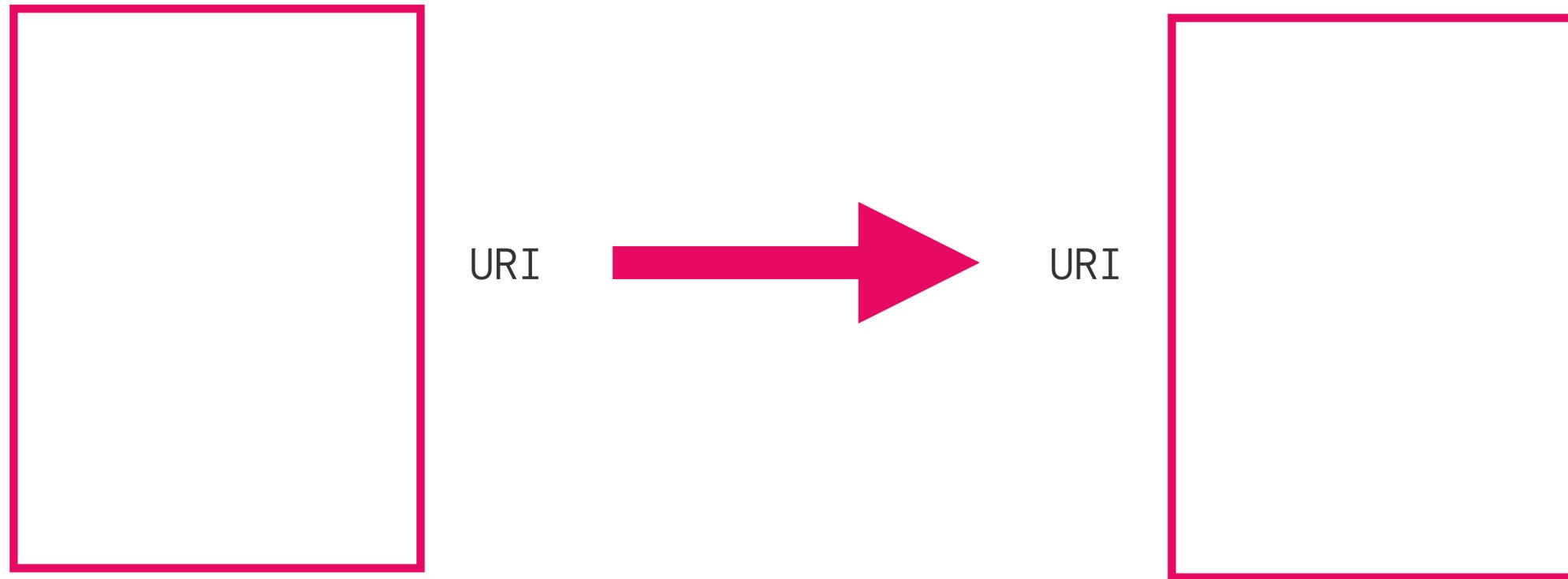
people and things



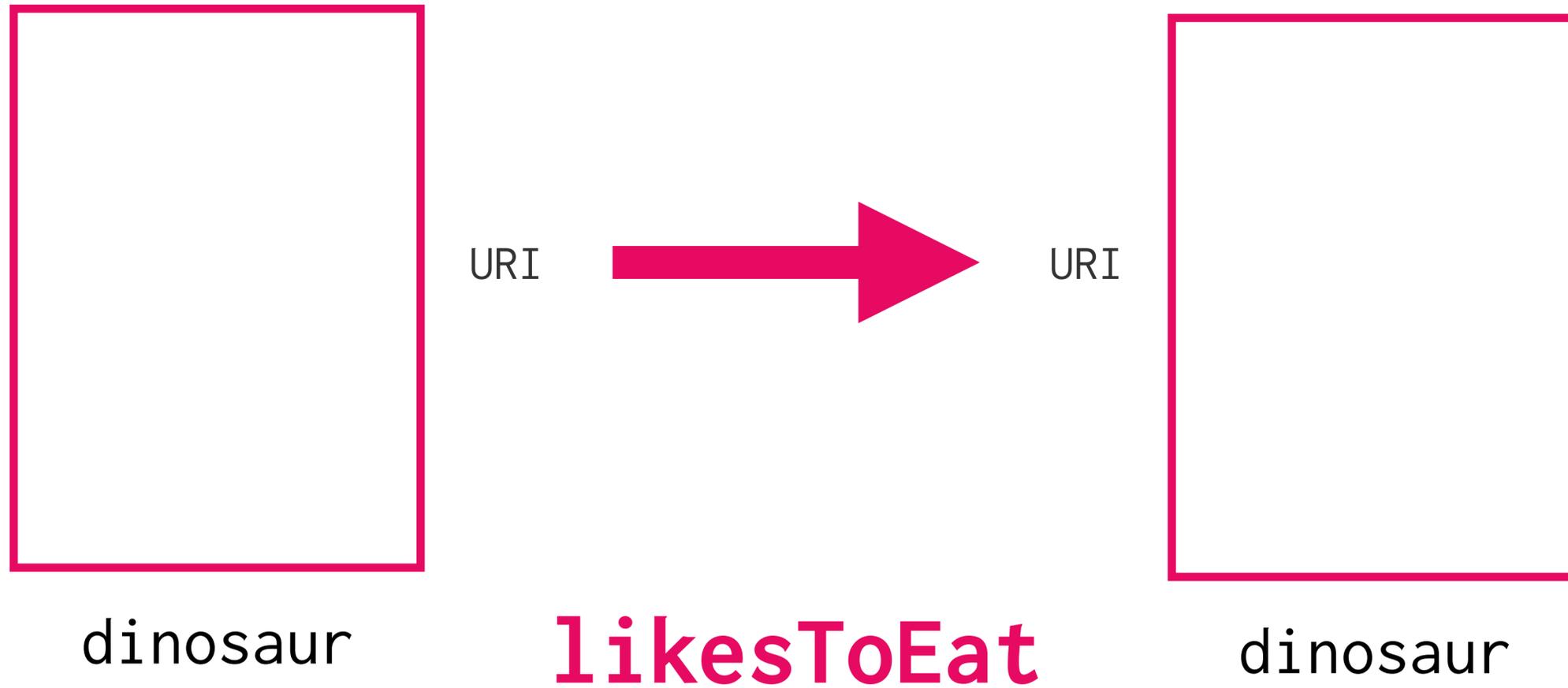
people and things



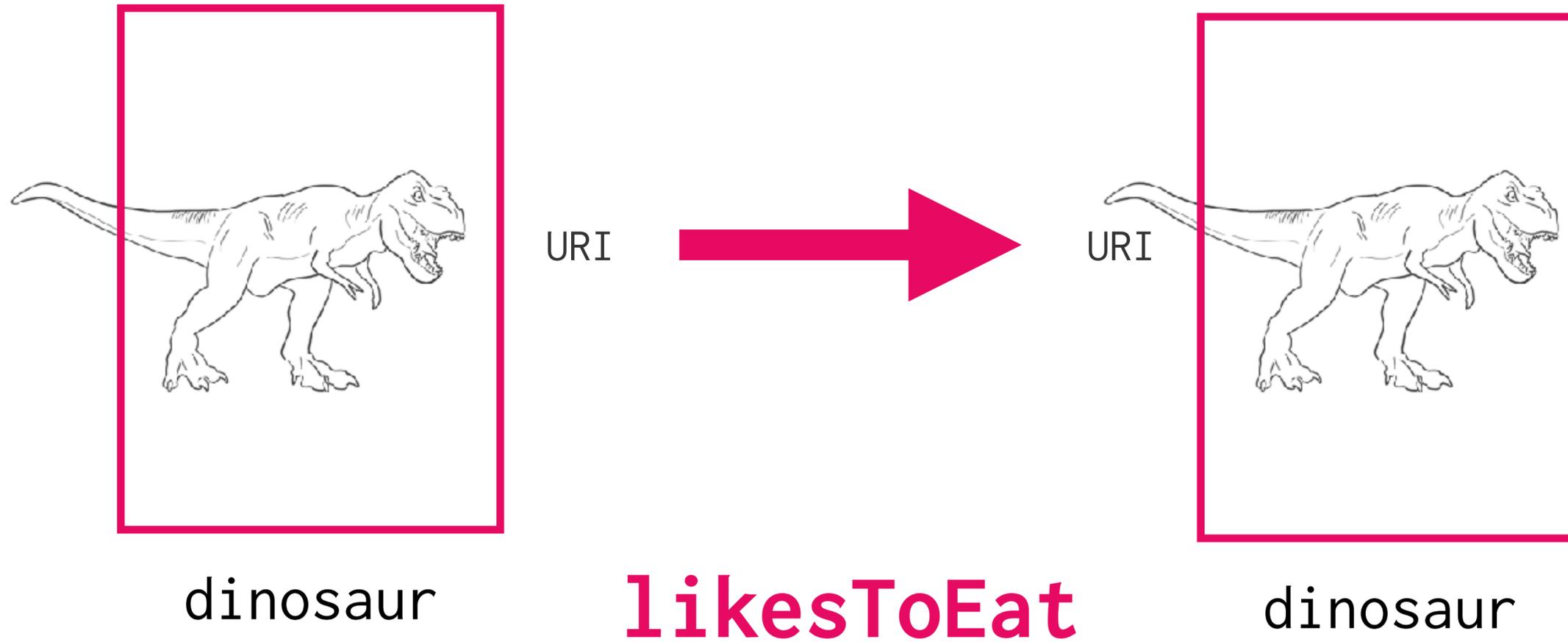
things and things



things and things



things and things



URI

relationship

URI

object

object

linked data

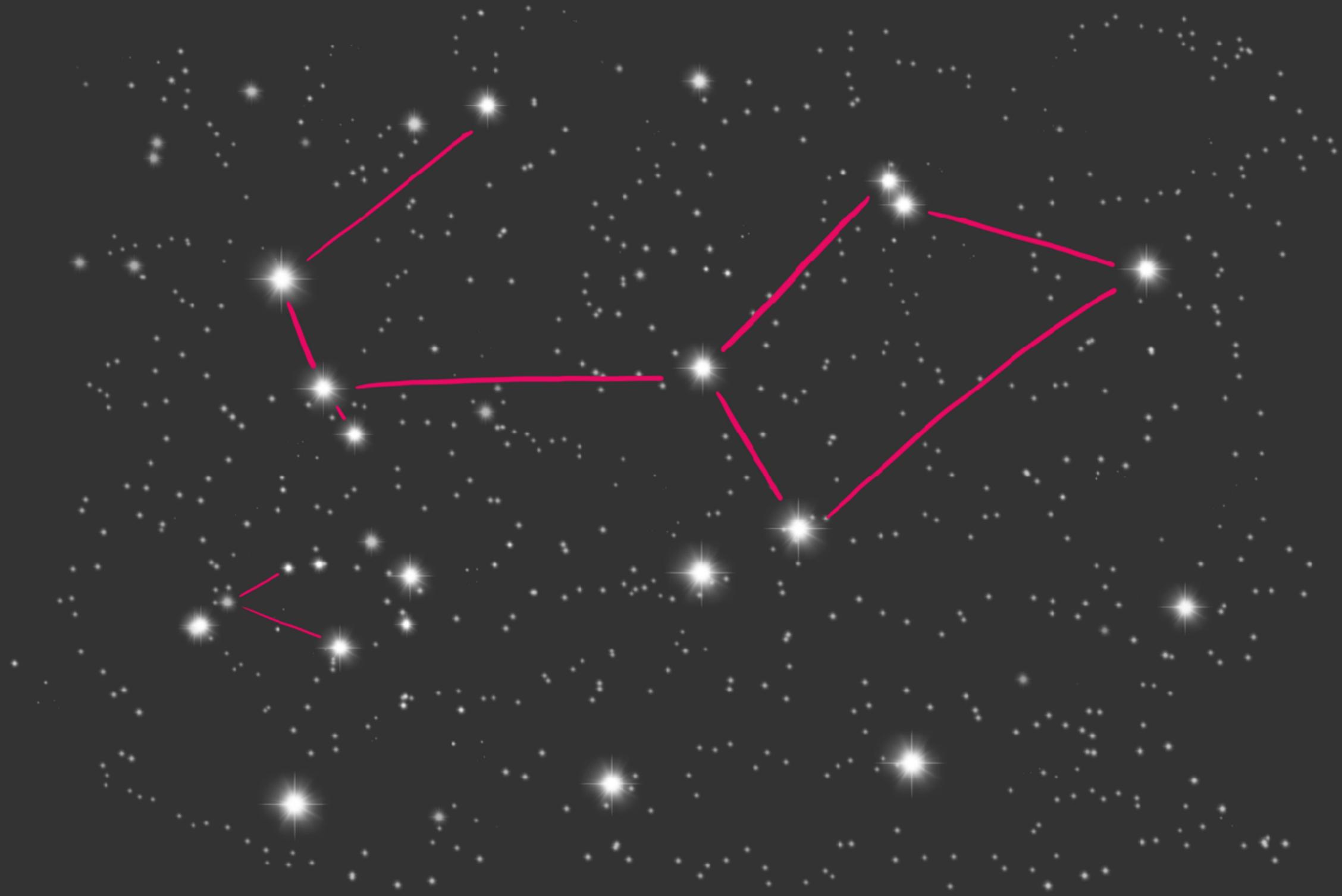


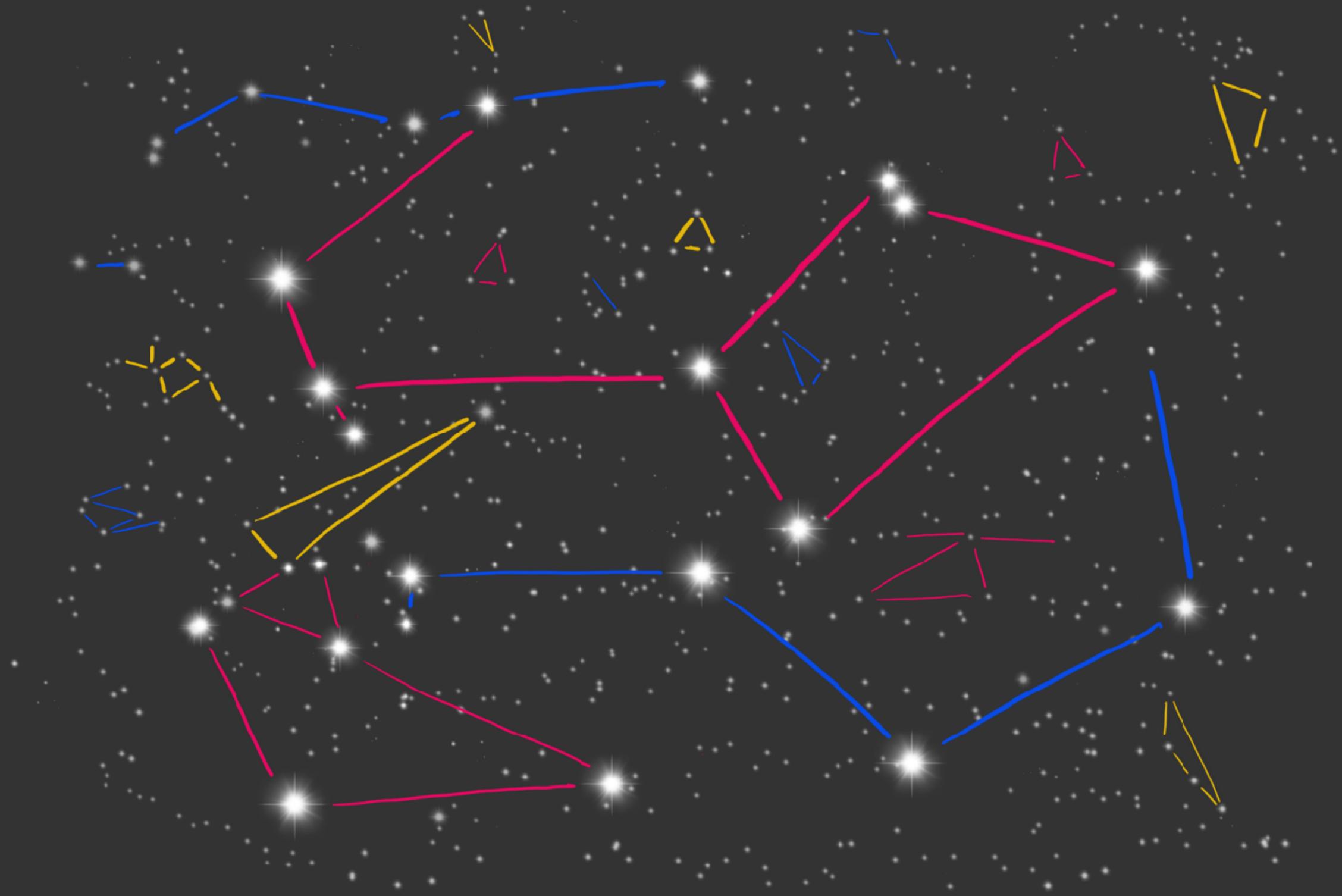
object

relationship



object











RIDE

R

D

F

R *resource*

D *description*

F *framework*

RDF: Resource Description Framework



RDF Triples



subject

predicate



object

RDF Triples



subject

predicate



object

RDF Triples



subject

predicate



object

RDF Triples



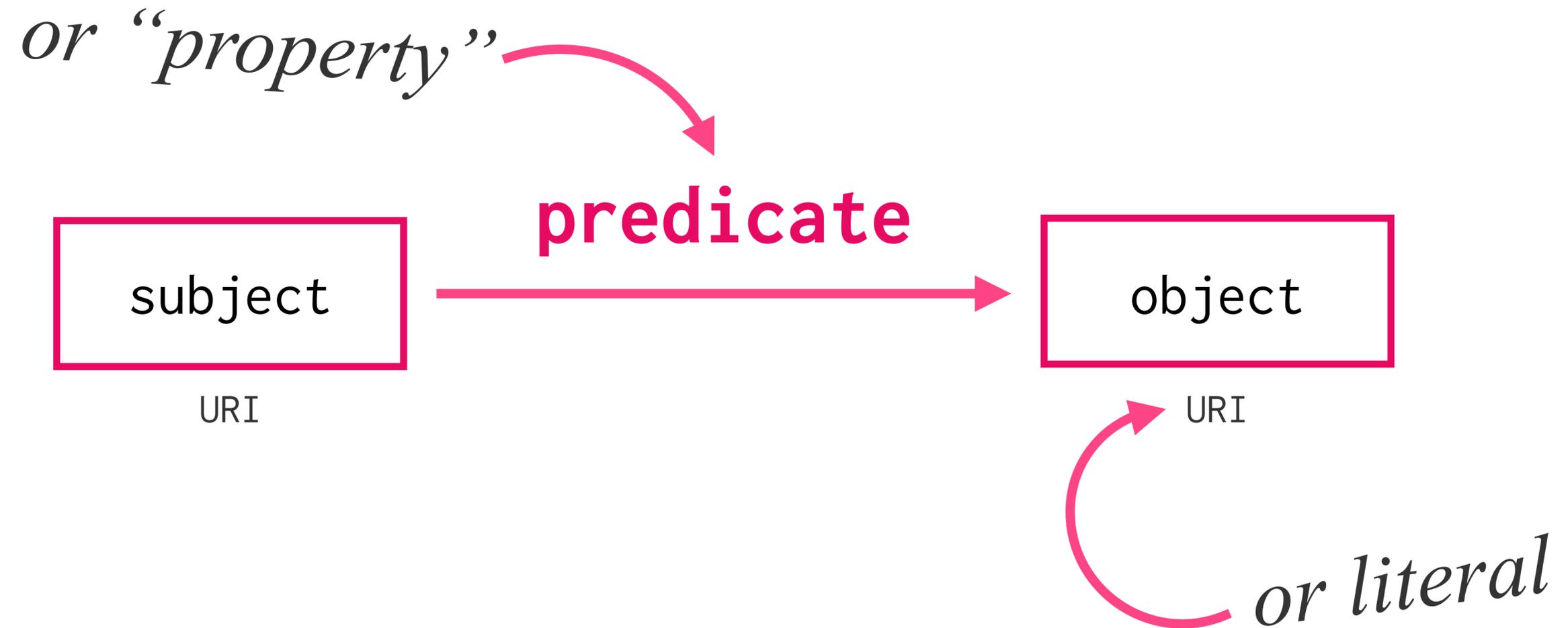
subject

predicate



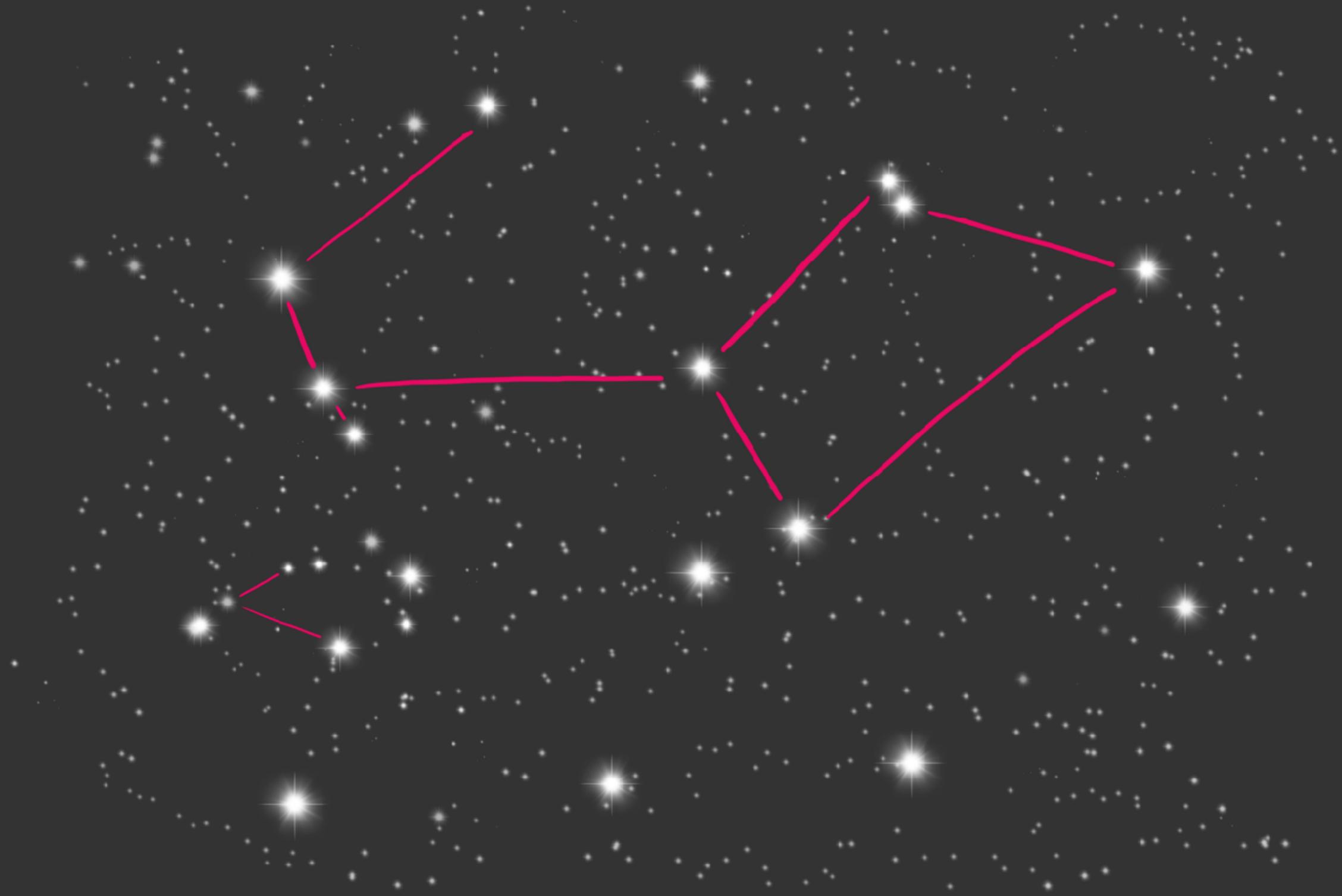
object

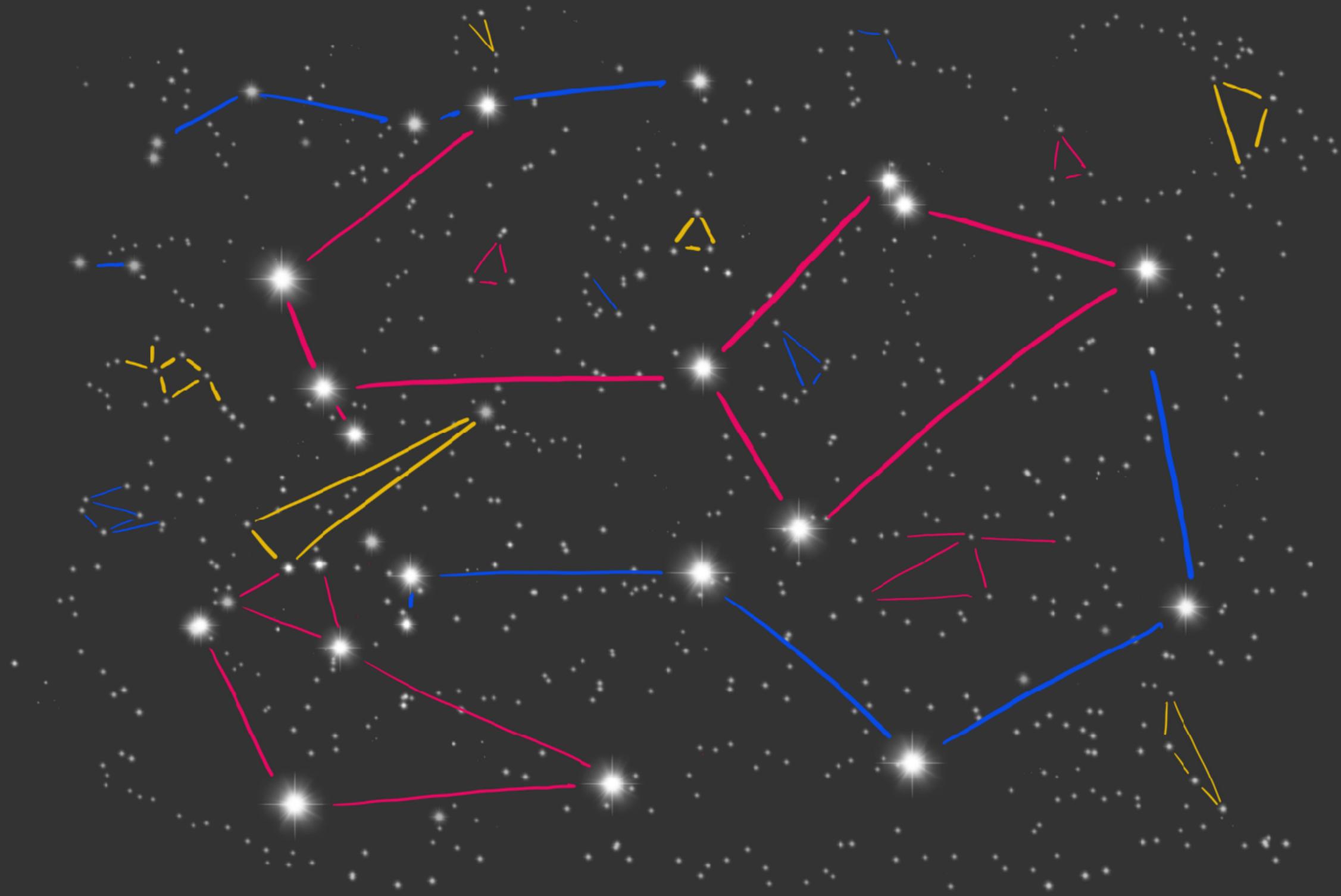
RDF Triples











Some HTML talking about myself

```
<div>
  <p>
    <span>Lyza Danger Gardner</span>,
    Email: <a href="mailto:lyza@example.com">lyza@example.com</a>,
    Phone: <a href="tel:+1-503-555-1212">+1 503.555.1212</a>
  </p>
</div>
```

Some HTML talking about myself

```
<div>
  <p>
    <span>Lyza Danger Gardner</span>,
    Email: <a href="mailto:lyza@example.com">lyza@example.com</a>,
    Phone: <a href="tel:+1-503-555-1212">+1 503.555.1212</a>
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    Phone: <a href="tel:+1-503-555-1212">+1 503.555.1212</a>
  </p>
</div>
```



RIDE

RIDE *a*

R D F *a*tttributes

Some HTML talking about myself

```
<div>
  <p>
    <span>Lyza Danger Gardner</span>,
    Email: <a href="mailto:lyza@example.com">lyza@example.com</a>,
    Phone: <a href="tel:+1-503-555-1212">+1 503.555.1212</a>
  </p>
</div>
```

F

O

A

F

F*riend*

O*f*

A

F*riend*

Some HTML talking about myself

```
<div>
  <p>
    <span>Lyza Danger Gardner</span>,
    Email: <a href="mailto:lyza@example.com">lyza@example.com</a>,
    Phone: <a href="tel:+1-503-555-1212">+1 503.555.1212</a>
  </p>
</div>
```

RDFa: FOAF

```
<div >
  <p>
    <span >Lyza Danger Gardner</span>,
    Email: <a href="mailto:lyza@example.com">lyza@example.com</a>,
    Phone: <a href="tel:+1-503-555-1212">+1 503.555.1212</a>
  </p>
</div>
```

RDFa: FOAF

```
<div vocab="http://xmlns.com/foaf/0.1/"  
  <p>  
    <span >Lyza Danger Gardner</span>,  
    Email: <a href="mailto:lyza@example.com">lyza@example.com</a>,  
    Phone: <a href="tel:+1-503-555-1212">+1 503.555.1212</a>  
  </p>  
</div>
```

RDFa: FOAF

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<div vocab="http://xmlns.com/foaf/0.1/"  
  <p>  
    <span >Lyza Danger Gardner</span>,  
    Email: <a href="mailto:lyza@example.com">lyza@example.com</a>,  
    Phone: <a href="tel:+1-503-555-1212">+1 503.555.1212</a>  
  </p>  
</div>
```

RDFa: FOAF

```
<div vocab="http://xmlns.com/foaf/0.1/" typeof="Person">
  <p>
    <span                >Lyza Danger Gardner</span>,
    Email: <a            href="mailto:lyza@example.com">lyza@example.com</a>,
    Phone: <a            href="tel:+1-503-555-1212">+1 503.555.1212</a>
  </p>
</div>
```

RDFa: FOAF

```
<div vocab="http://xmlns.com/foaf/0.1/" typeof="Person">
  <p>
    <span                >Lyza Danger Gardner</span>,
    Email: <a           href="mailto:lyza@example.com">lyza@example.com</a>,
    Phone: <a           href="tel:+1-503-555-1212">+1 503.555.1212</a>
  </p>
</div>
```

RDFa: FOAF

```
<div vocab="http://xmlns.com/foaf/0.1/" typeof="Person">
  <p>
    <span property="name">Lyza Danger Gardner</span>,
    Email: <a property="mbox" href="mailto:lyza@example.com">lyza@example.com</a>,
    Phone: <a property="phone" href="tel:+1-503-555-1212">+1 503.555.1212</a>
  </p>
</div>
```

RDFa: FOAF

```
<div vocab="http://xmlns.com/foaf/0.1/" typeof="Person">
  <p>
    <span property="name">Lyza Danger Gardner</span>,
    Email: <a property="mbox" href="mailto:lyza@example.com">lyza@example.com</a>,
    Phone: <a property="phone" href="tel:+1-503-555-1212">+1 503.555.1212</a>
  </p>
</div>
```



RDF *a* 

RDF *a* → HTML



J S O N

J
S
O
N

J*ava*

S*cript*

O*bject*

N*otation*

JSON

```
{  
  "name": "Lyza Danger Gardner",  
  "homepage": "http://www.lyza.com/",  
  "picture": "http://twitter.com/account/profile_image/lyzadanger"  
}
```

JSON

```
{  
  "name": "Lyza Danger Gardner",  
  "homepage": "http://www.lyza.com/",  
  "picture": "http://twitter.com/account/profile_image/lyzadanger"  
}
```





J S O N

JSON-

JSON-LLD

JSON
LD

JSON

*L*inked *D*ata

JSON

```
{  
  "name": "Lyza Danger Gardner",  
  "homepage": "http://www.lyza.com/",  
  "picture": "http://twitter.com/account/profile_image/lyzadanger"  
}
```

JSON-LD

```
{  
  "@context": {  
    "xsd": "http://www.w3.org/2001/XMLSchema#",  
    "foaf": "http://xmlns.com/foaf/0.1/"  
  },  
  "@id": "http://me.lyza.com/",  
  "@type": "foaf:Person",  
  "foaf:name": "Lyza Danger Gardner",  
}
```

JSON-LD

```
{  
  "@context": {  
    "xsd": "http://www.w3.org/2001/XMLSchema#",  
    "foaf": "http://xmlns.com/foaf/0.1/"  
  },  
  "@id": "http://me.lyza.com/",  
  "@type": "foaf:Person",  
  "foaf:name": "Lyza Danger Gardner",  
}
```

JSON-LD

```
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  "@context": {  
    "xsd": "http://www.w3.org/2001/XMLSchema#",  
    "foaf": "http://xmlns.com/foaf/0.1/",  
  },  
  "@id": "http://me.lyza.com/",  
  "@type": "foaf:Person",  
  "foaf:name": "Lyza Danger Gardner",  
}
```

JSON-LD

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{  
  "@context": {  
    "xsd": "http://www.w3.org/2001/XMLSchema#",  
    "foaf": "http://xmlns.com/foaf/0.1/",  
  },  
  "@id": "http://me.lyza.com/",  
  "@type": "foaf:Person",  
  "foaf:name": "Lyza Danger Gardner",  
}
```

JSON-LD

```
{  
  "@context": {  
    "xsd": "http://www.w3.org/2001/XMLSchema#",  
    "foaf": "http://xmlns.com/foaf/0.1/",  
  },  
  "@id": "http://me.lyza.com/",  
  "@type": "foaf:Person",  
  "foaf:name": "Lyza Danger Gardner",  
}
```

RDF *a*



HTML



RDF *a*

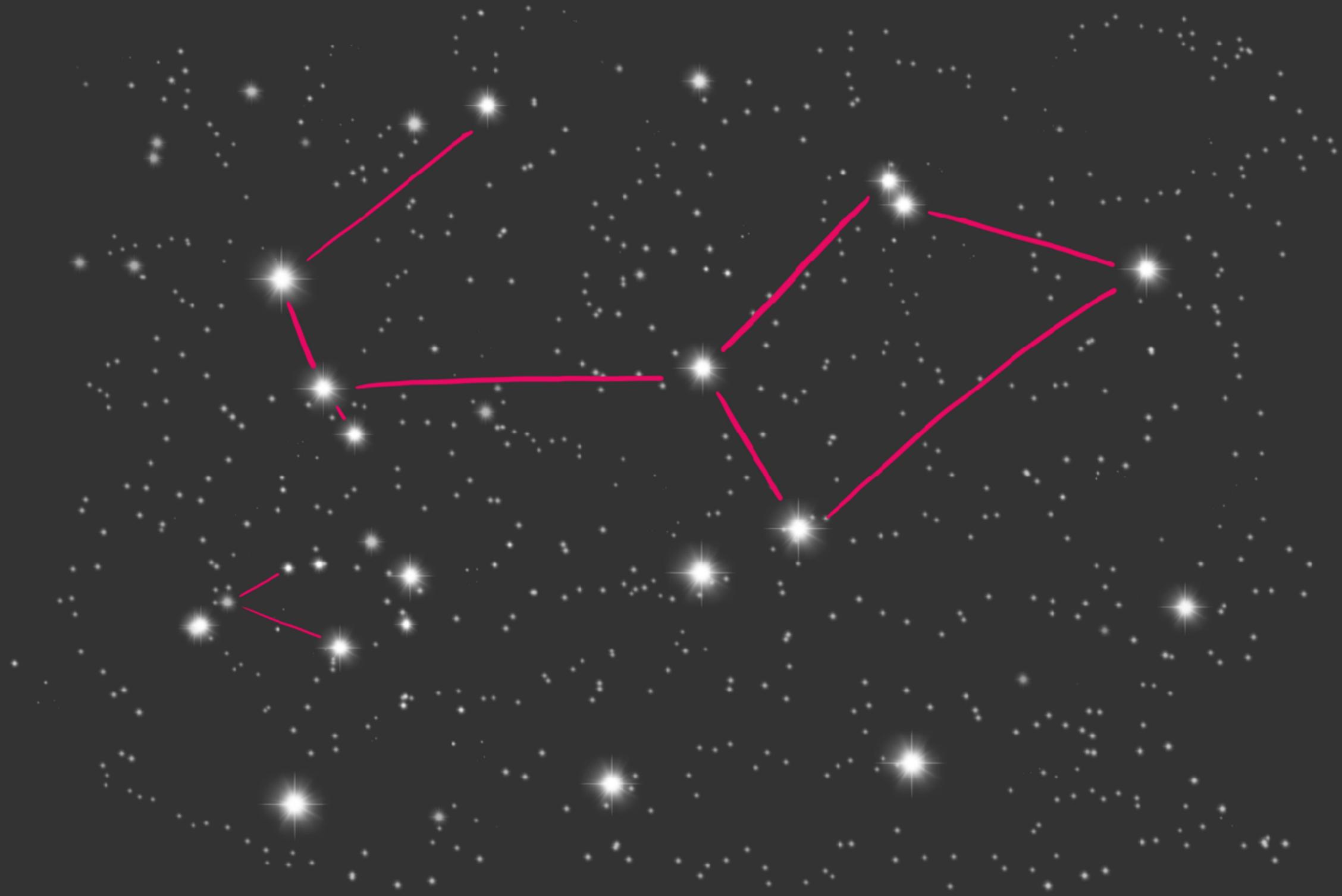


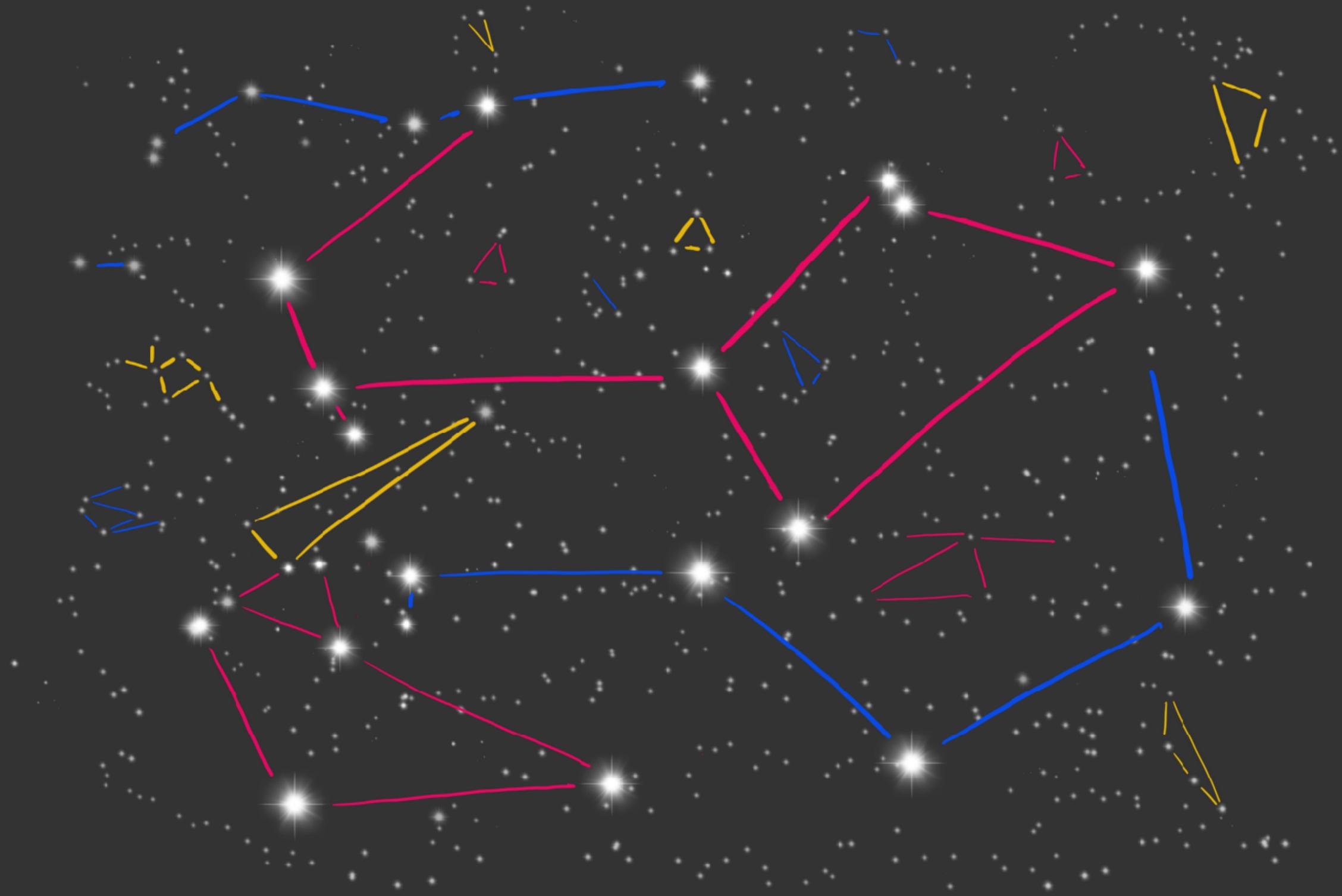
HTML

JSON *LD*



JSON





Then 2001 2009 2010 2011 2014 Now

How did we get here?

Web Annotation Pre-History

zoom level

universe galaxies constellations planets humans

A horizontal scale bar is located at the bottom of the slide. It consists of a series of vertical tick marks of varying lengths, creating a ruler-like appearance. A red triangle is positioned at the top of the scale, pointing downwards to the 'galaxies' label. The labels 'universe', 'galaxies', 'constellations', 'planets', and 'humans' are positioned above the scale, corresponding to different points on the axis.

Web Annotation Pre-History

Constellations on the web

zoom level

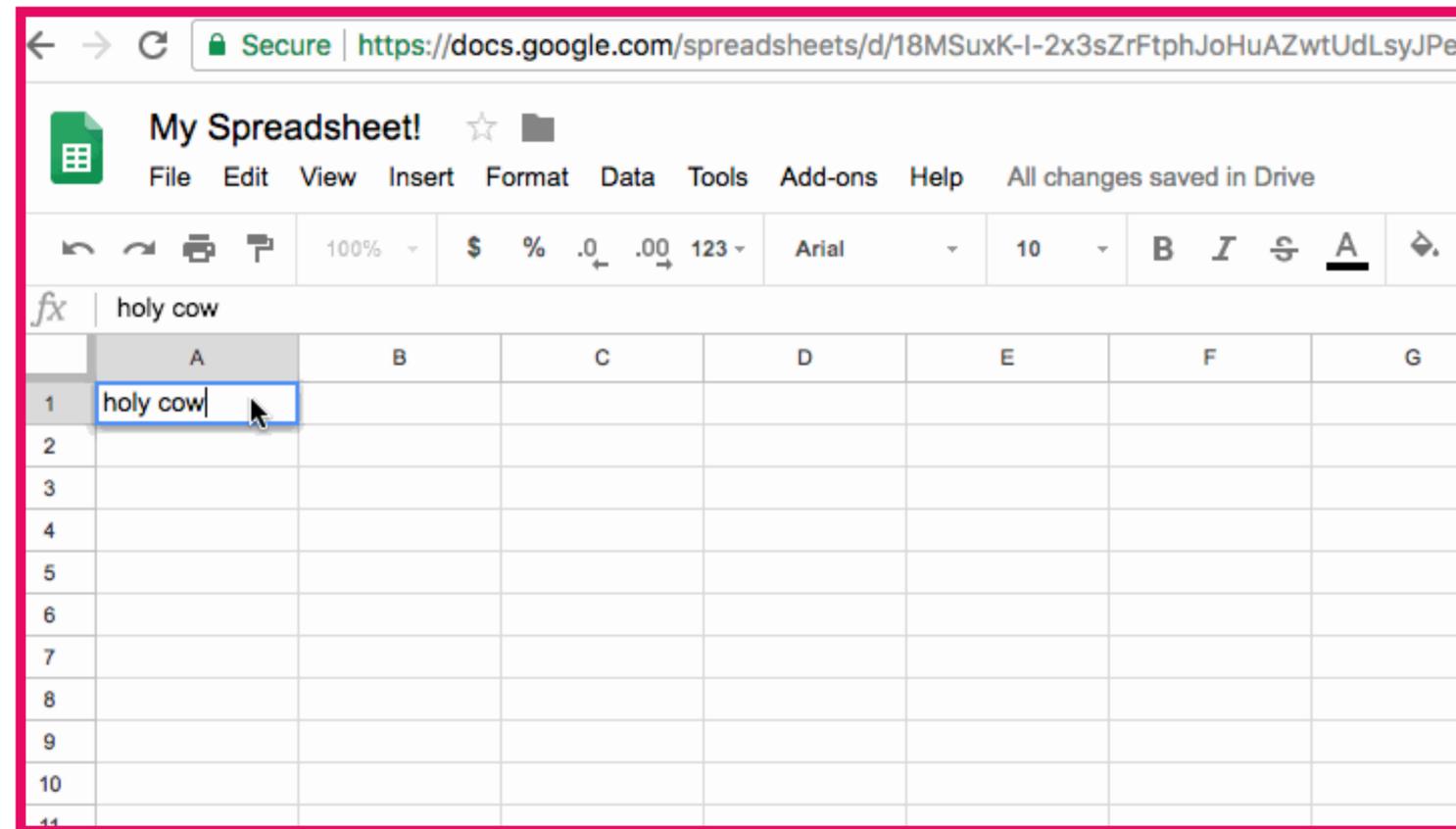
universe galaxies constellations planets humans

A horizontal axis with tick marks and a red triangle pointing to the 'constellations' label.

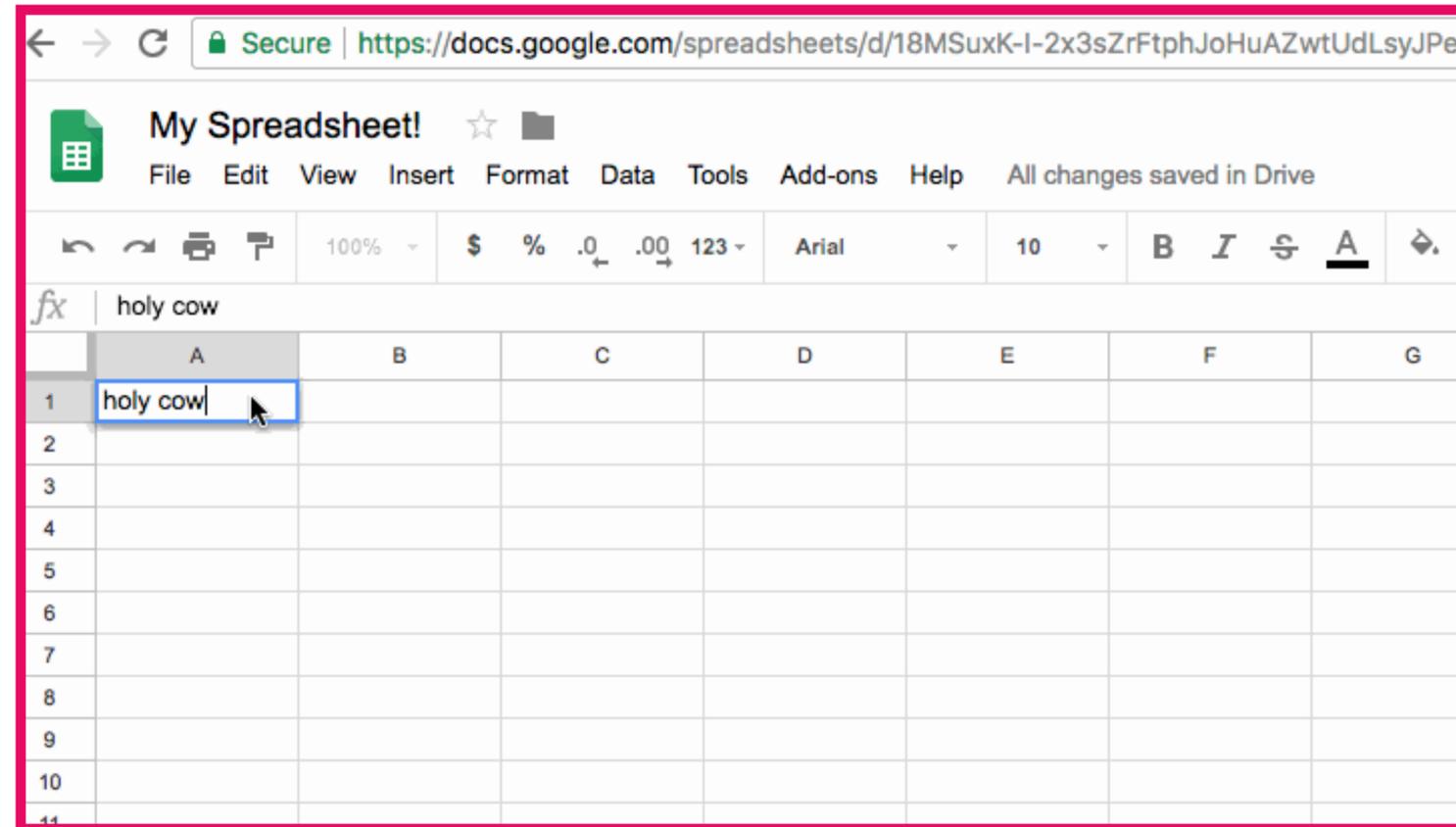
web 2.0

web 2.0

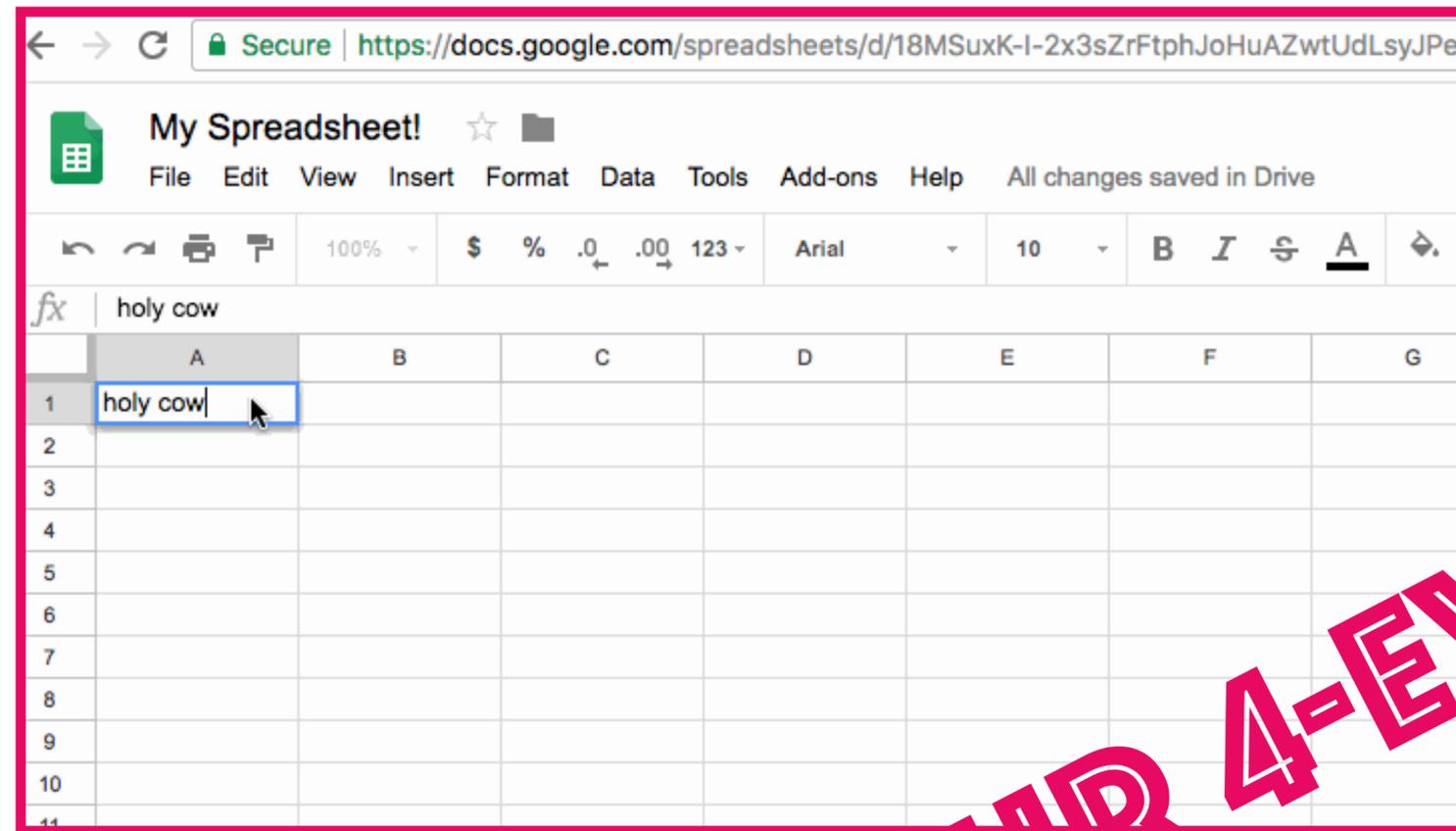
App-like Web Things



App-like Web Things



App-like Web Things



XHR 4-EVER!



Marc Andreessen

co-founder, Netscape

<https://www.flickr.com/photos/joi/2757536235/sizes/o/in/photostream/>

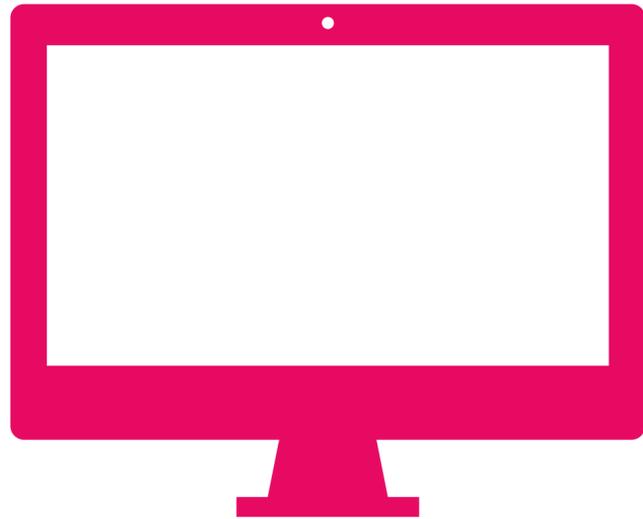
1990s 2001 2009 2010 2011 2014 2017

Early Netscape

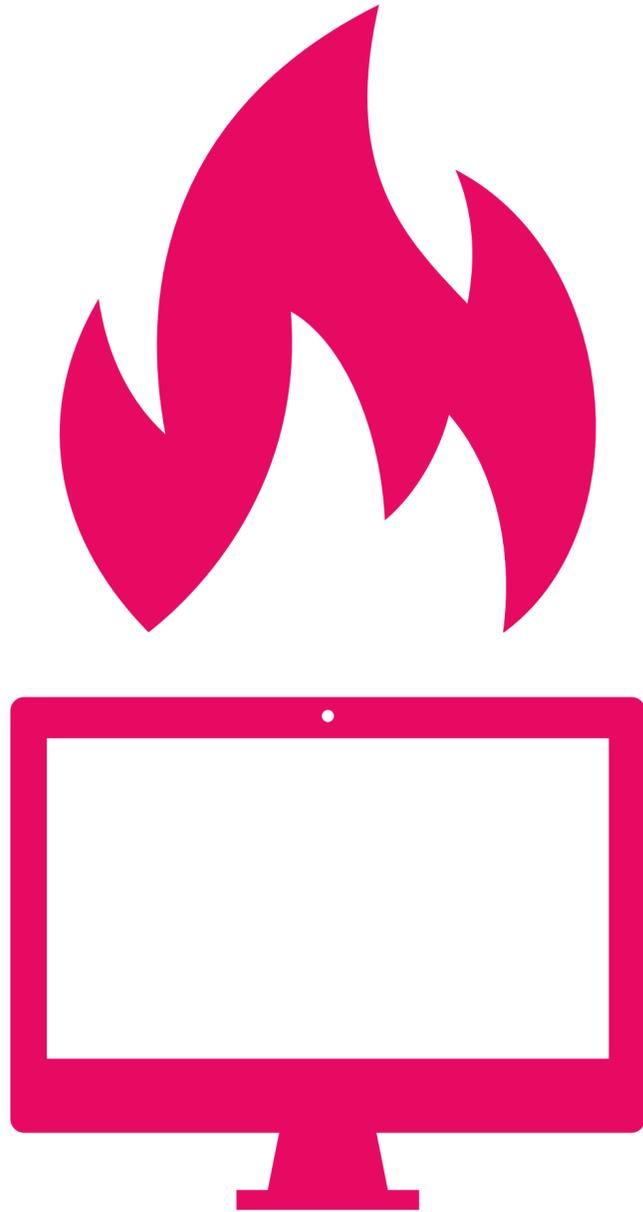
technology not ready



but the desire was there...



but the desire was there...



1990s 2001 2009 2010 2011 2014 2017

Third Voice

Third Voice

Third Voice

Business

Third Voice slammed for 'defacing' Web sites

Webmasters up in arms over site comment software

By [Tony Smith](#) 11 Jun 1999 at 16:03

SHARE ▼

US software developer Third Voice has provoked the ire of Internet users and Webmasters by releasing software that allows Web surfers to share comments about Web sites. The problem is not necessarily that the Third Voice system is invasive, but that it allows anyone to add comments -- such as spam -- to a Web site without the permission of the site's owner. Third Voice is a Windows-only browser plug-in that allows users to select text on a Web page and attach a comment, in the form of a pop-up note, to it. Other Third Voice users visiting the site see one or more icons on

https://www.theregister.co.uk/1999/06/11/third_voice_slammed_for_defacing/

Third Voice

Business

Third Voice slammed for 'defacing' Web sites

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https://www.theregister.co.uk/1999/06/11/third_voice_slammed_for_defacing/

APARNA KUMAR BUSINESS 04.04.01 12:00 PM

THIRD VOICE TRAILS OFF...

ENG-SION TAN HAD an idea he believed would promote freer speech on the Internet.

In 1999, he and two colleagues launched Third Voice, a free browser plug-in that allowed Web surfers to annotate any site with their comments. The idea was to spark "inline discussions" among Web users, promoting a new civic mindedness that would keep corporations, government and the media honest.

But the seemingly innocuous "sticky notes" gained enemies quicker than users. Launching a grassroots campaign called Say No to TV, some 400 independent Web hosts banded together to gag [Third Voice](#), which they likened to "Web graffiti."

<https://www.wired.com/2001/04/third-voice-trails-off/>



1990s 2001 2009 2010 2011 2014 2017

W₃C: Annotea

Annotea



About Annotea

- [Overview](#)
- [Documents](#)
- [News](#)
- [Press](#)

How to ...

- [Use annotations](#)
- [Install a server](#)
- [Write clients](#)

Annotea

- [Servers](#)
- [Clients](#)
- [All projects](#)

Mailing list

- [www-annotation](#)

Contributors

Annotea Project

Overview

Annotea is a W3C [LEAD](#) (Live Early Adoption and Demonstration) project under [Semantic Web Advanced Development](#) (SWAD). Annotea enhances collaboration via shared metadata based Web annotations, bookmarks, and their combinations. By annotations we mean comments, notes, explanations, or other types of external remarks that can be attached to any Web document or a selected part of the document without actually needing to touch the document. When the user gets the document he or she can also load the annotations attached to it from a selected annotation server or several servers and see what his peer group thinks. Similarly shared bookmarks can be attached to Web documents to help organize them under different topics, to easily find them later, to help find related material and to collaboratively filter bookmarked material.

Annotea is open; it uses and helps to advance W3C standards when possible. For instance, we use an [RDF](#) based [annotation schema](#) for describing annotations as metadata and [XPointer](#) for locating the annotations in the annotated document. Similarly a [bookmark schema](#) describes the bookmark and topic metadata.

Annotea is part of the [Semantic Web](#) efforts. It provides a RDF metadata based extendible framework for rich communication about Web pages while offering a simple annotation and bookmark user interface. The annotation metadata can be stored locally or in one or more annotation servers and presented to the user by a client capable of understanding this metadata and capable of interacting with an annotation server with the HTTP service protocol.

The first client implementation of Annotea is W3C's [Amaya](#) editor/browser. Nothing prevents other clients from implementing these capabilities too. The current Amaya user interface for annotations is presented in the [Amaya documentation](#). Other projects (Firefox client, PHP work, etc) will be added shortly.

<https://www.w3.org/2001/Annotea/>



1990s 2001 2009 2010 2011 2014 2017

Google Sidewiki

Google Sidewiki

Friday, September 03, 2010

New Sidewiki "Sidebar" web element



We are very pleased to announce a new [Sidewiki](#) "sidebar" web element. Google Sidewiki allows visitors to your website to contribute helpful information and read other visitors' insights alongside the pages of the website. The new web element is a Sidewiki button, which, when clicked, displays a fully functional Sidewiki sidebar to the left of the page content. This means that your visitors can see the Sidewiki content for your page even if they don't have [Google Toolbar](#) or the [Sidewiki Chrome extension](#) installed.

You can choose from several different look and feels created by Google or even create a new custom one. Use our wizard to choose the desired look and behavior, embed the generated code in your page, and you're done. Here's a sketch of what it looks like when a visitor is looking at the Sidewiki content.



<http://googlecode.blogspot.com/2010/09/new-sidewiki-sidebar-web-element.html>



1990s 2001 2009 2010 2011 2014 2017

Open Annotation Collaboration & Annotation Ontology



1990s 2001 2009 2010 2011 2014 2017

Open Annotation Community Group



1990s 2001 2009 2010 2011 2014 2017

Web Annotation Working Group (WAWG)



1990s 2001 2009 2010 2011 2014 2017

Web Annotation Standard



WAWG Output

3 Technical Reports (TRs)

Web Annotation Standard

Web Annotation Standard

- ★ *Web Annotation Model*

what an annotation is and what its main parts are

Web Annotation Standard

- ★ *Web Annotation Model*

what an annotation is and what its main parts are

- ★ *Web Annotation Vocabulary*

how to express things about an annotation

Web Annotation Standard

- ★ *Web Annotation Model*

what an annotation is and what its main parts are

- ★ *Web Annotation Vocabulary*

how to express things about an annotation

- ★ *Web Annotation Protocol*

how to exchange annotations between systems

WAWG Objectives

WAWG Objectives

★ *interoperability*

centered on the URI, web foundations

WAWG Objectives

- ★ *interoperability*

centered on the URI, web foundations

- ★ *generalized model*

“orthogonal to the domain of interest”

WAWG Objectives

- ★ *interoperability*
centered on the URI, web foundations
- ★ *generalized model*
“orthogonal to the domain of interest”
- ★ *simple, inexpensive implementation*
un-opinionated about specific technologies

Web Annotation Basics

zoom level

universe galaxies constellations planets humans

A horizontal scale bar is located at the bottom of the slide. It consists of a series of vertical tick marks of varying lengths, creating a ruler-like appearance. A red triangle is positioned at the top center of the bar, pointing downwards towards the 'constellations' label.

Web Annotation Basics

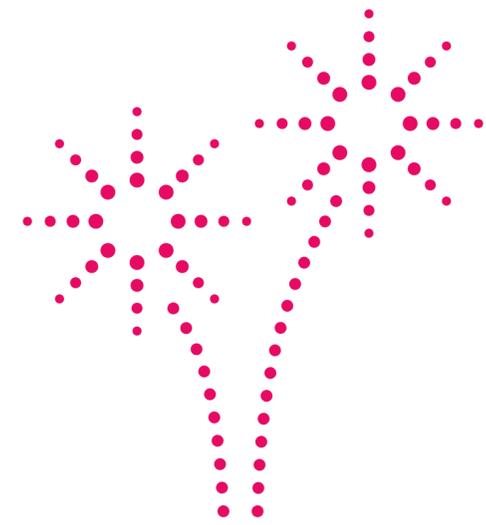
Zooming in on the standard

zoom level

universe galaxies constellations planets humans

A horizontal scale bar with a red triangle pointing to the 'planets' label. The scale bar is a dark grey horizontal line with vertical tick marks of varying lengths. The labels 'universe', 'galaxies', 'constellations', 'planets', and 'humans' are positioned above the scale bar, corresponding to specific points on the scale. The red triangle is located at the 'planets' position.

Celebrate: there are specs!



Celebrate: there are specs!



Web Annotation Definition

“

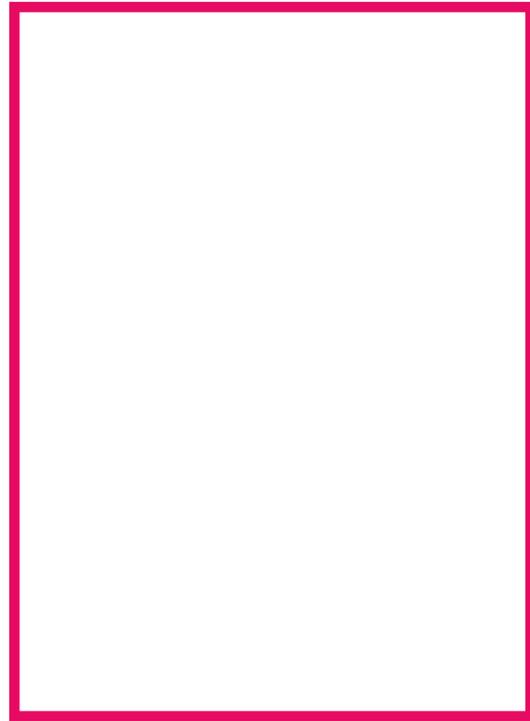
”

Web Annotation Definition

“*A set of connected resources, typically including a body and a target, where the body is related to the target.*”

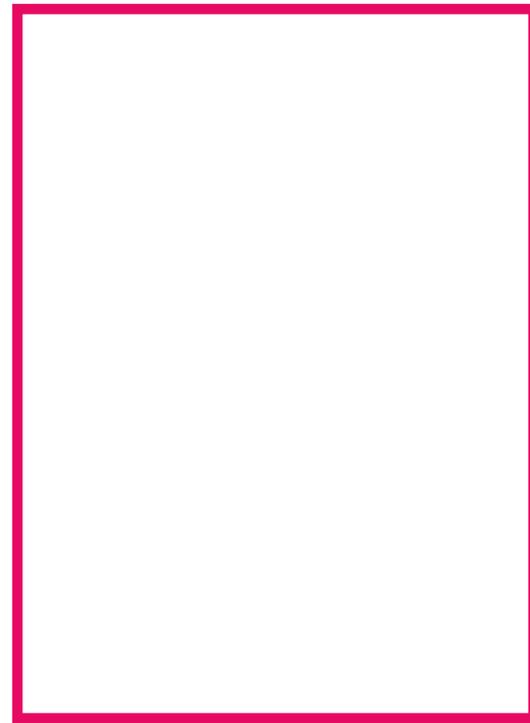


Annotation

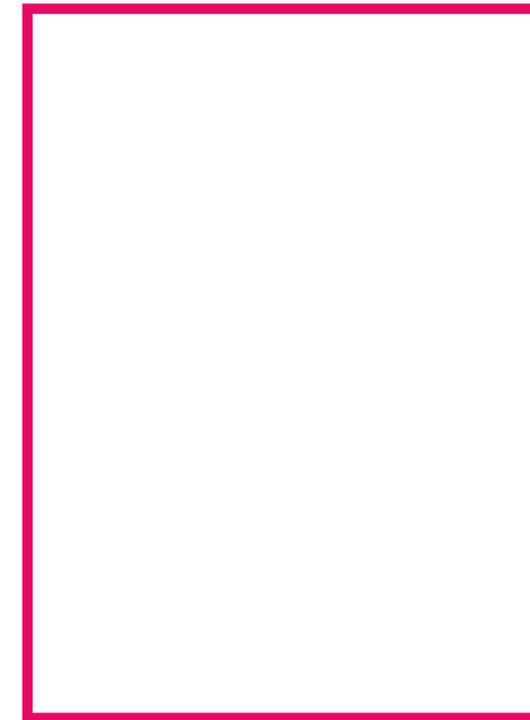


annotation

Annotation

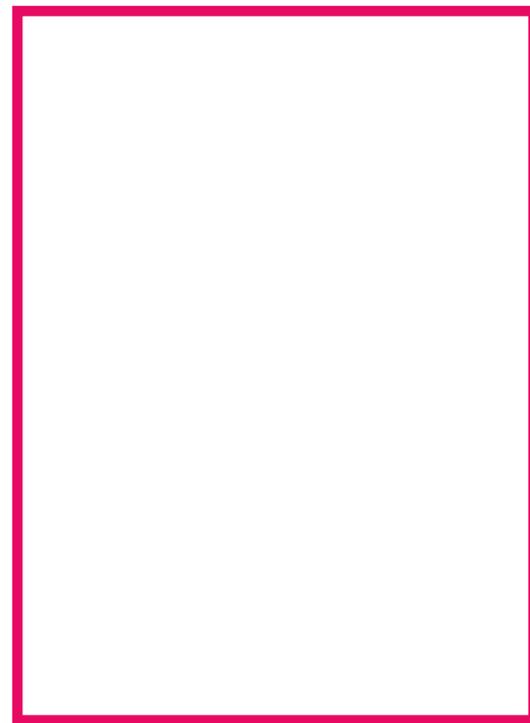


annotation



target

Annotation



annotation



target

Annotation



annotation



target

Can be as simple as a placeholder

annotation

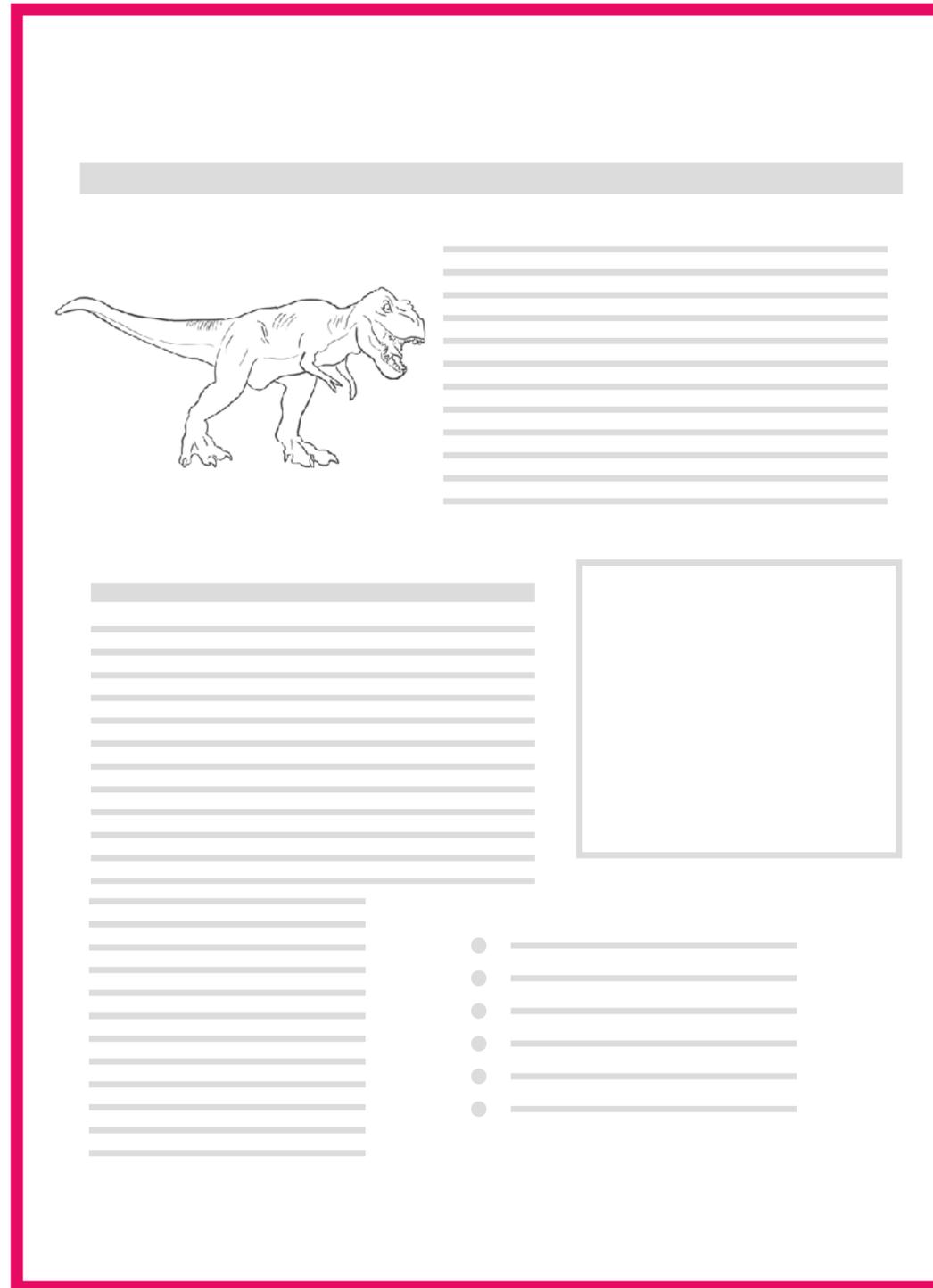
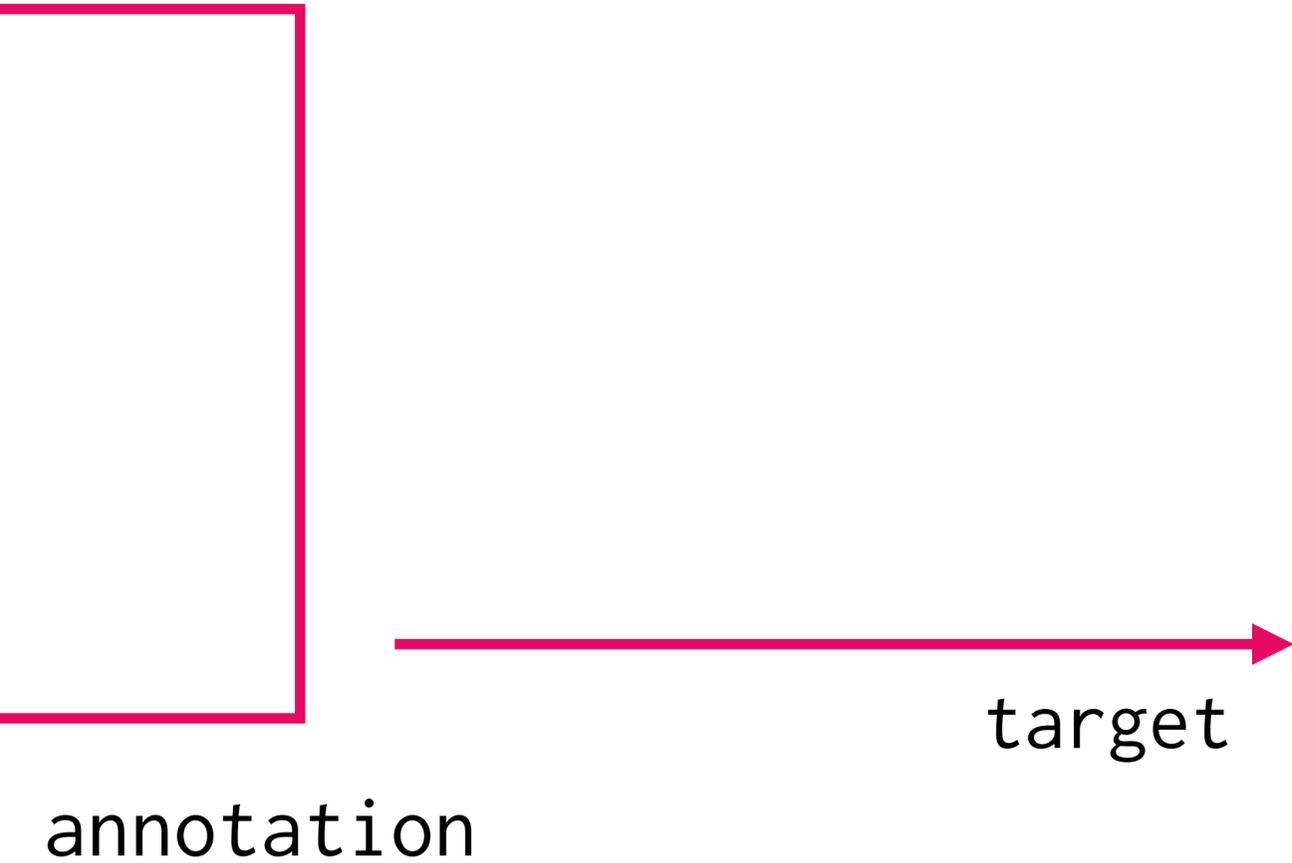


target

Can be as simple as a placeholder



Annotation: Like a Bookmark



<http://www.example.com/all-about-t-rex-diets>

target



annotation

<http://www.example.com/all-about-t-rex-diets>

target



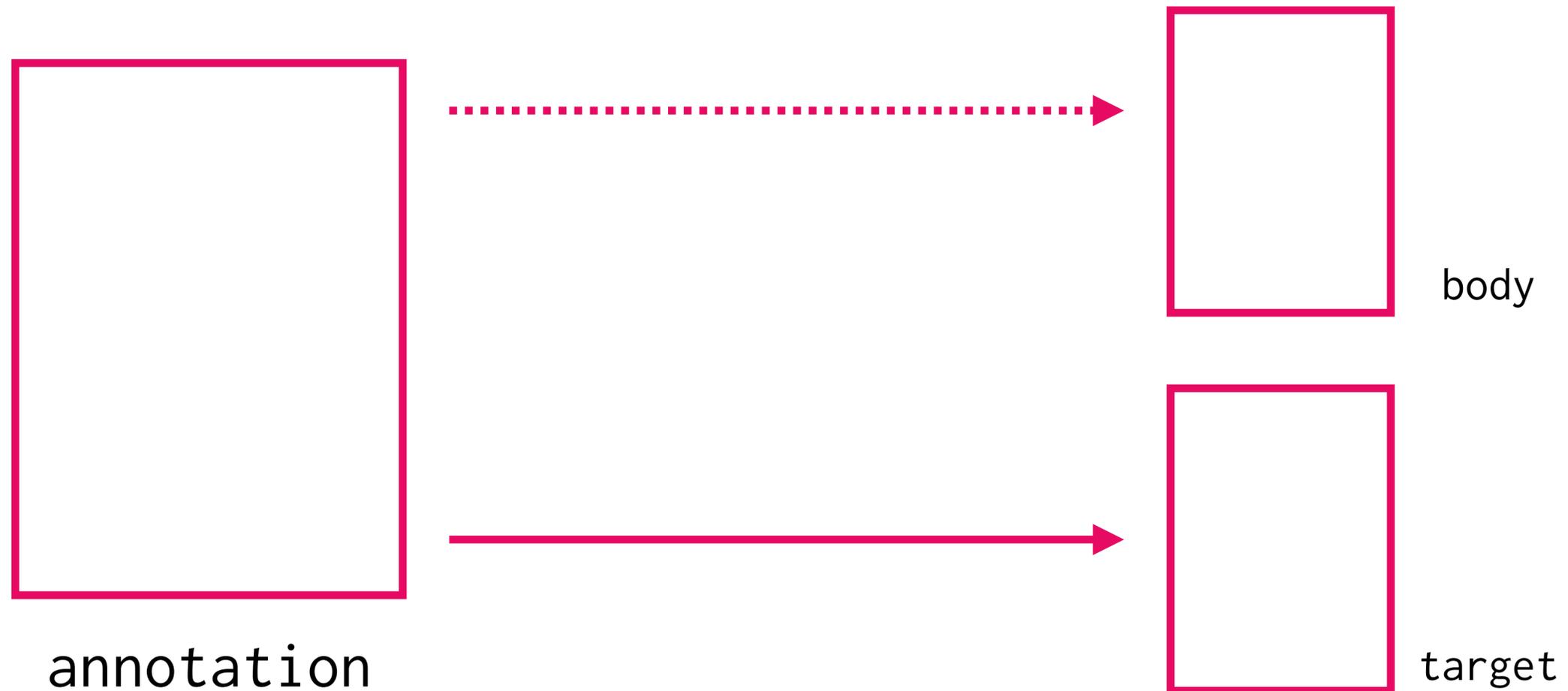
annotation

<http://www.example.com/all-about-t-rex-diets>

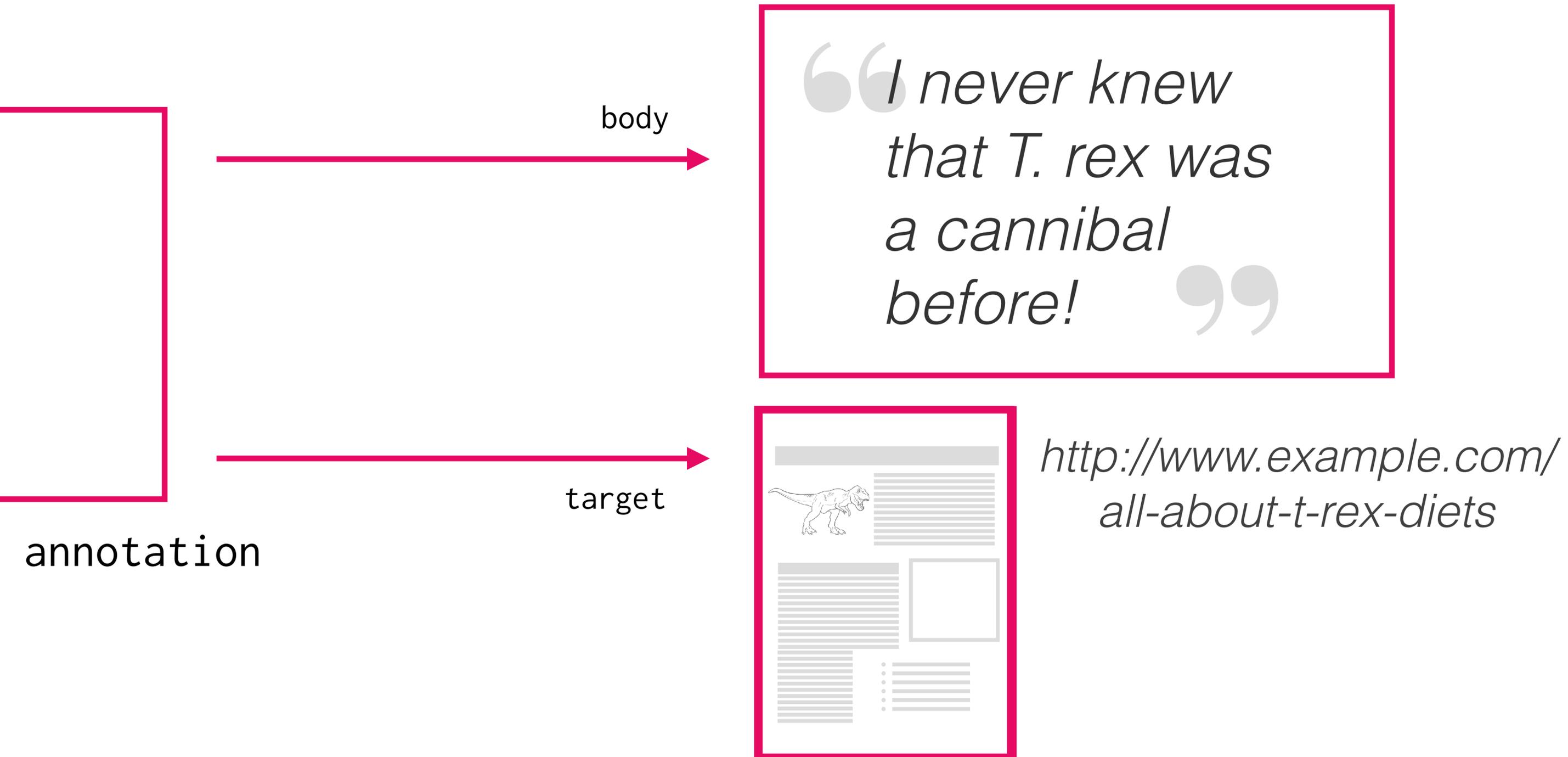
Annotation: Not just like a bookmark



Annotation: Not just like a bookmark



Annotation with a simple body



Annotation with a simple body

body



“
*I never knew that
T. rex was a
cannibal before!*
”

target



*[http://www.example.com/
all-about-t-rex-diets](http://www.example.com/all-about-t-rex-diets)*

Annotation with a simple body

body



“
*I never knew that
T. rex was a
cannibal before!*
”

```
{  
  "@context": "http://www.w3.org/ns/anno.jsonld",  
  "id": "http://example.org/anno1",  
  "type": "Annotation",  
  "bodyValue": "I never knew that T. rex was a cannibal before!",  
  "target": "http://www.example.com/all-about-t-rex-diets"  
}
```

target



*http://www.example.com/
all-about-t-rex-diets*

JSON-LD representation of simple annotation

```
{  
  "@context": "http://www.w3.org/ns/anno.jsonld",  
  "id": "http://example.org/anno1",  
  "type": "Annotation",  
  "bodyValue": "I never knew that T. rex was a cannibal before!",  
  "target": "http://www.example.com/all-about-t-rex-diets"  
}
```

JSON-LD representation of simple annotation

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{  
  "@context": "http://www.w3.org/ns/anno.jsonld",  
  "id": "http://example.org/anno1",  
  "type": "Annotation",  
  "bodyValue": "I never knew that T. rex was a cannibal before!",  
  "target": "http://www.example.com/all-about-t-rex-diets"  
}
```

JSON-LD representation of simple annotation

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{  
  "@context" : "http://www.w3.org/ns/anno.jsonld",  
  "id" : "http://example.org/anno1",  
  "type" : "Annotation",  
  "bodyValue" : "I never knew that T. rex was a cannibal before!",  
  "target" : "http://www.example.com/all-about-t-rex-diets"  
}
```

JSON-LD representation of simple annotation

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  "id" : "http://example.org/anno1",  
  "type" : "Annotation",  
  "bodyValue" : "I never knew that T. rex was a cannibal before!",  
  "target" : "http://www.example.com/all-about-t-rex-diets"  
}
```

JSON-LD representation of simple annotation

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  "id": "http://example.org/anno1",  
  "type": "Annotation",  
  "bodyValue": "I never knew that T. rex was a cannibal before!",  
  "target": "http://www.example.com/all-about-t-rex-diets"  
}
```

Richer metadata

more relationships

Formatting my opinion

“

”

Formatting my opinion

“ This article is *really* wrong.

There is just no way.”

Richer annotation bodies

```
{
```

```
"@context" : "http://www.w3.org/ns/anno.jsonld",
```

```
"id" : "http://example.org/anno1",
```

```
"type" : "Annotation",
```

```
"bodyValue" : "I never knew that T. rex was a cannibal before!",
```

```
"target" : "http://www.example.com/all-about-t-rex-diets"
```

```
}
```

Richer annotation bodies

```
{  
  "@context" : "http://www.w3.org/ns/anno.jsonld",  
  "id" : "http://example.org/anno1",  
  "type" : "Annotation",  
  "bodyValue" : "I never knew that T. rex was a cannibal before!",  
  "target" : "http://www.example.com/all-about-t-rex-diets"  
}
```

Richer annotation bodies

```
{
```

```
  "@context" : "http://www.w3.org/ns/anno.jsonld",
```

```
  "id" : "http://example.org/anno1",
```

```
  "type" : "Annotation",
```

```
  "target" : "http://www.example.com/all-about-t-rex-diets"
```

```
}
```

Richer annotation bodies

```
{
```

```
  "@context" : "http://www.w3.org/ns/anno.jsonld",
```

```
  "id" : "http://example.org/anno1",
```

```
  "type" : "Annotation",
```

```
  "target" : "http://www.example.com/all-about-t-rex-diets"
```

```
}
```

Richer annotation bodies

```
{
  "@context" : "http://www.w3.org/ns/anno.jsonld",
  "id" : "http://example.org/anno1",
  "type" : "Annotation",
  "body" : {
    "type" : "TextualBody",
    "value" : "<p>This article is <em>really</em> wrong.</p>
              <p>There is just no way.</p>",
    "format" : "text/html"
  },
  "target" : "http://www.example.com/all-about-t-rex-diets"
}
```

Richer annotation bodies

```
{  
  "@context" : "http://www.w3.org/ns/anno.jsonld",  
  "id" : "http://example.org/anno1",  
  "type" : "Annotation",  
  "body" : {  
    "type" : "TextualBody",  
    "value" : "<p>This article is <em>really</em> wrong.</p>  
              <p>There is just no way.</p>",  
    "format" : "text/html"  
  },  
  "target" : "http://www.example.com/all-about-t-rex-diets"  
}
```

Richer annotation bodies

```
{  
  "@context" : "http://www.w3.org/ns/anno.jsonld",  
  "id" : "http://example.org/anno1",  
  "type" : "Annotation",  
  "body" : {  
    "type" : "TextualBody",  
    "value" : "<p>This article is <em>really</em> wrong.</p>  
              <p>There is just no way.</p>",  
    "format" : "text/html"  
  },  
  "target" : "http://www.example.com/all-about-t-rex-diets"  
}
```

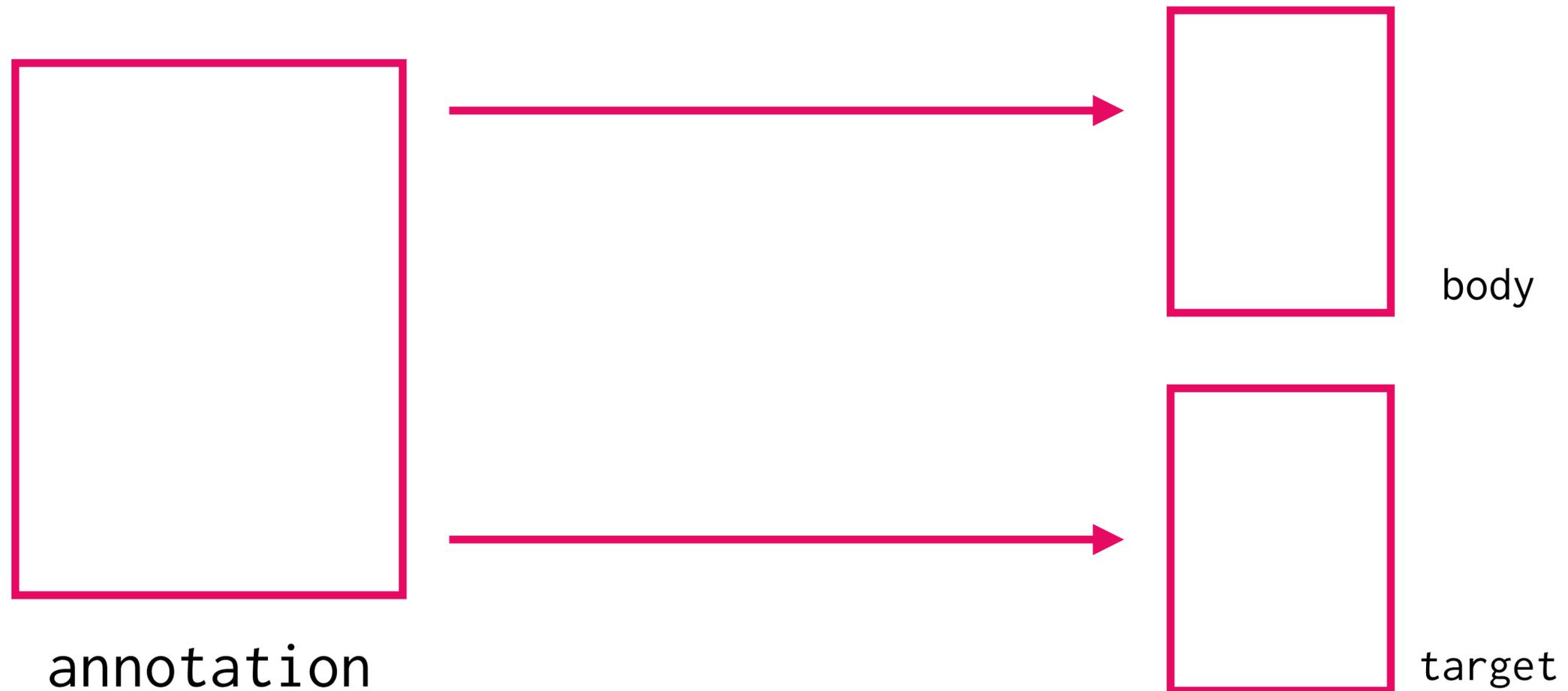
Richer annotation bodies

```
{  
  "@context" : "http://www.w3.org/ns/anno.jsonld",  
  "id" : "http://example.org/anno1",  
  "type" : "Annotation",  
  "body" : {  
    "type" : "TextualBody",  
    "value" : "<p>This article is <em>really</em> wrong.</p>  
              <p>There is just no way.</p>",  
    "format" : "text/html"  
  },  
  "target" : "http://www.example.com/all-about-t-rex-diets"  
}
```

external resource as body



external resource as body



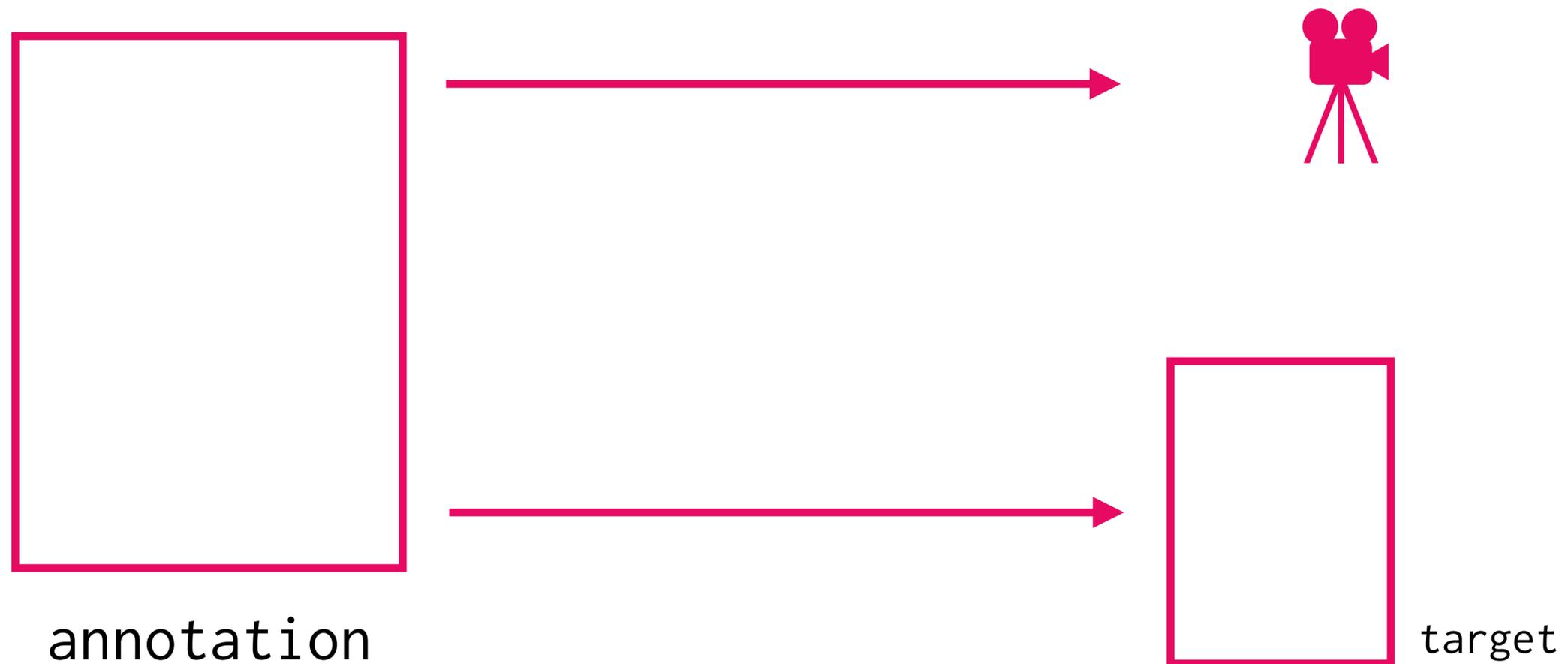
external resource as body



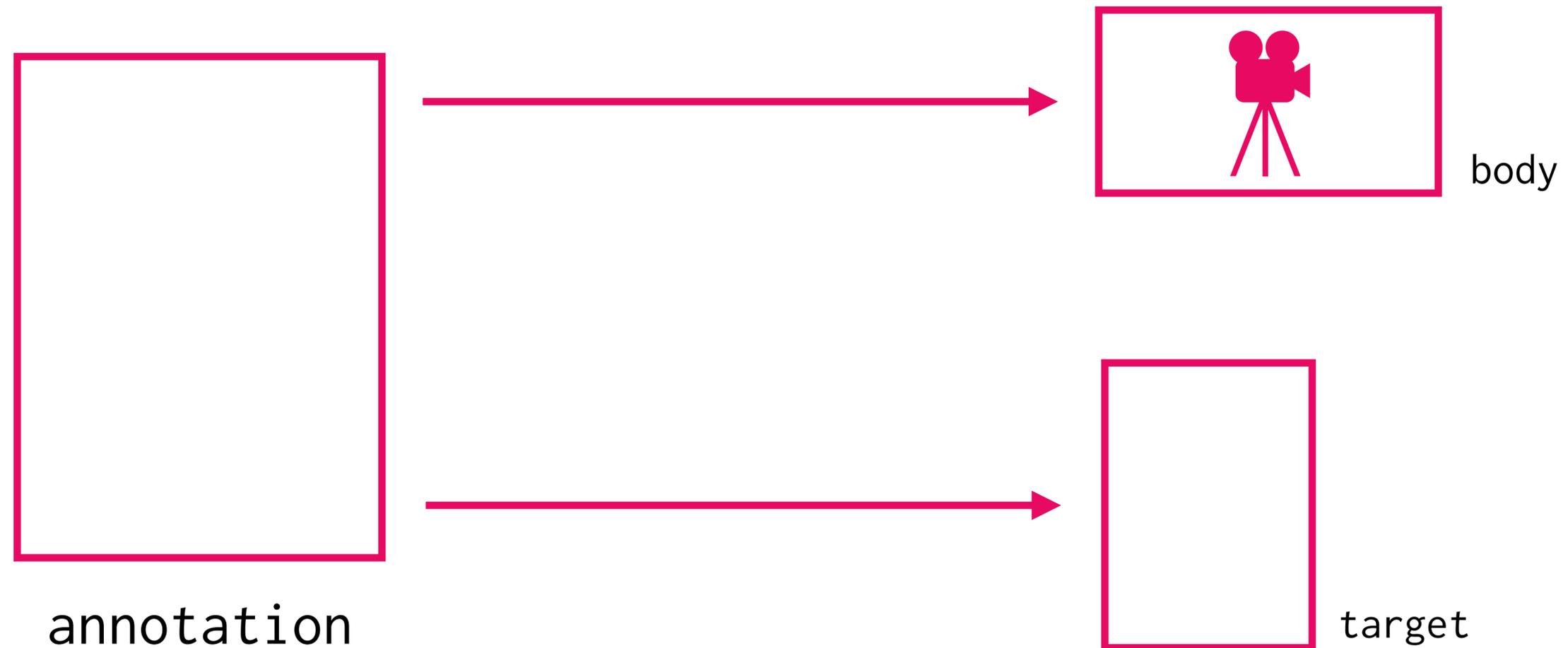
external resource as body



external resource as body



external resource as body



JSON-LD representation of simple annotation

```
{  
  "@context" : "http://www.w3.org/ns/anno.jsonld",  
  "id" : "http://example.org/anno1",  
  "type" : "Annotation",  
  
  "target" : "http://www.example.com/all-about-t-rex-diets"  
}
```

JSON-LD representation of simple annotation

```
{
  "@context" : "http://www.w3.org/ns/anno.jsonld",
  "id" : "http://example.org/anno1",
  "type" : "Annotation",
  "body" : {
    "id" : "http://example.org/in-defense-of-t-rex.mov",
    "type" : "Video"
  },
  "target" : "http://www.example.com/all-about-t-rex-diets"
}
```

JSON-LD representation of simple annotation

```
{  
  "@context" : "http://www.w3.org/ns/anno.jsonld",  
  "id" : "http://example.org/anno1",  
  "type" : "Annotation",  
  "body" : {  
    "id" : "http://example.org/in-defense-of-t-rex.mov",  
    "type" : "Video"  
  },  
  "target" : "http://www.example.com/all-about-t-rex-diets"  
}
```

JSON-LD representation of simple annotation

```
{  
  "@context" : "http://www.w3.org/ns/anno.jsonld",  
  "id" : "http://example.org/anno1",  
  "type" : "Annotation",  
  "body" : {  
    "id" : "http://example.org/in-defense-of-t-rex.mov",  
    "type" : "Video"  
  },  
  "target" : "http://www.example.com/all-about-t-rex-diets"  
}
```

Other body properties

motivation

Other body properties

motivation

Other body properties

motivation

- ★ *assessing*
- ★ *bookmarking*
- ★ *classifying*
- ★ *commenting*
- ★ *describing*
- ★ *editing*
- ★ *highlighting*
- ★ *identifying*
- ★ *linking*
- ★ *moderating*
- ★ *questioning*
- ★ *replying*
- ★ *tagging*

Other body properties

motivation

- ★ *assessing*
- ★ *bookmarking*
- ★ *classifying*
- ★ *commenting*
- ★ *describing*
- ★ *editing*
- ★ *highlighting*
- ★ *identifying*
- ★ *linking*
- ★ *moderating*
- ★ ***questioning*** →
- ★ *replying*
- ★ *tagging*

The motivation for when the user intends to ask a question about the Target. For example to ask for assistance with a particular section of text, or question its veracity.

questioning motivation

```
{  
  "@context": "http://www.w3.org/ns/anno.jsonld",  
  "id": "http://example.org/anno1",  
  "type": "Annotation",  
  "motivation": "questioning",  
  "body": {  
    "id": "http://example.org/in-defense-of-t-rex.mov",  
    "type": "Video"  
  },  
  "target": "http://www.example.com/all-about-t-rex-diets"  
}
```

questioning motivation

```
{  
  "@context": "http://www.w3.org/ns/anno.jsonld",  
  "id": "http://example.org/anno1",  
  "type": "Annotation",  
  "motivation": "questioning",  
  "body": {  
    "id": "http://example.org/in-defense-of-t-rex.mov",  
    "type": "Video"  
  },  
  "target": "http://www.example.com/all-about-t-rex-diets"  
}
```

more body properties and relationships...

creator

more body properties and relationships...

creator modified

more body properties and relationships...

creator modified audience

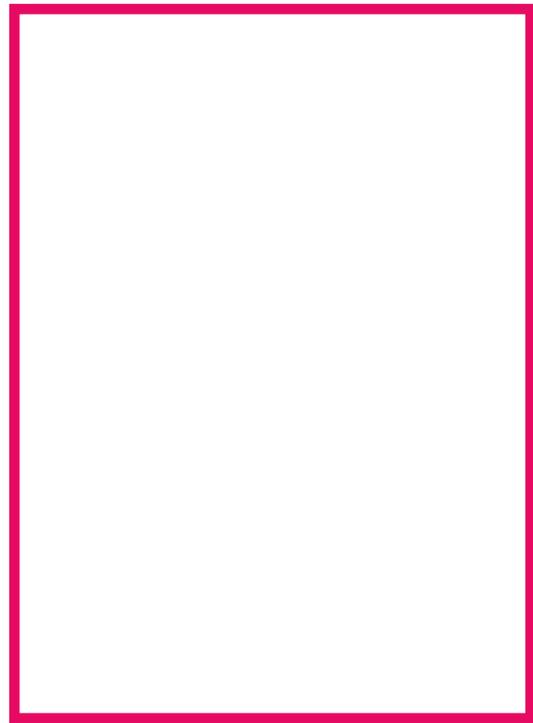
more body properties and relationships...

ator modified audience rights

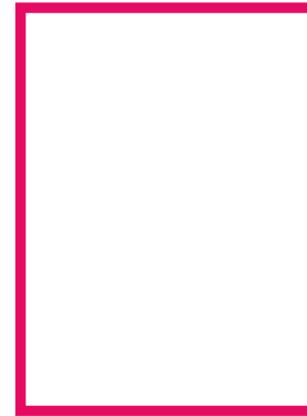
“There’s a lot here”

Resource Segments

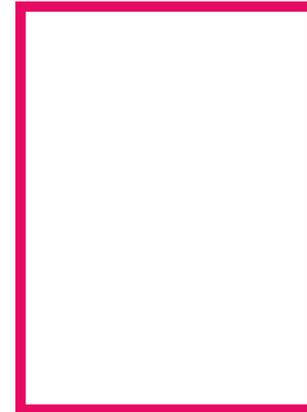
Fragments, selectors and state



annotation



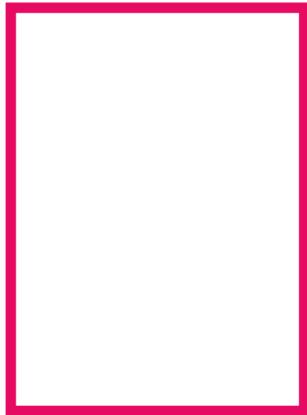
body



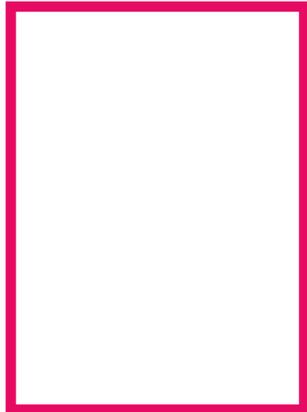
target



annotation



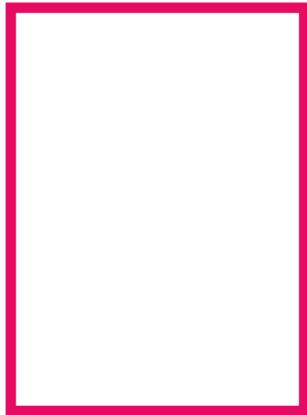
body



target



annotation



body



target

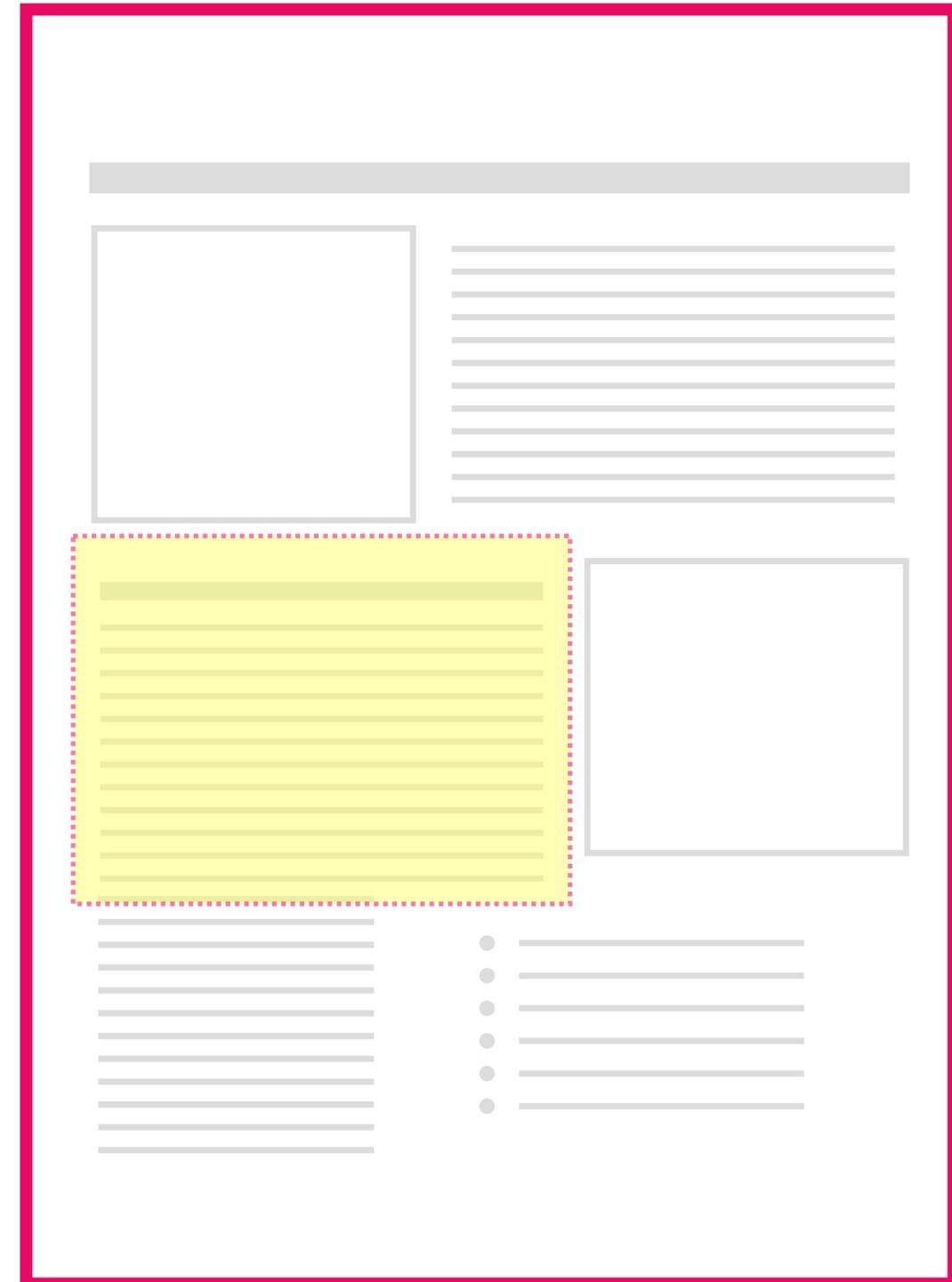
<http://www.example.com/all-about-t-rex-diets>

<http://www.example.com/all-about-t-rex-diets>



target

<http://www.example.com/all-about-t-rex-diets>



target

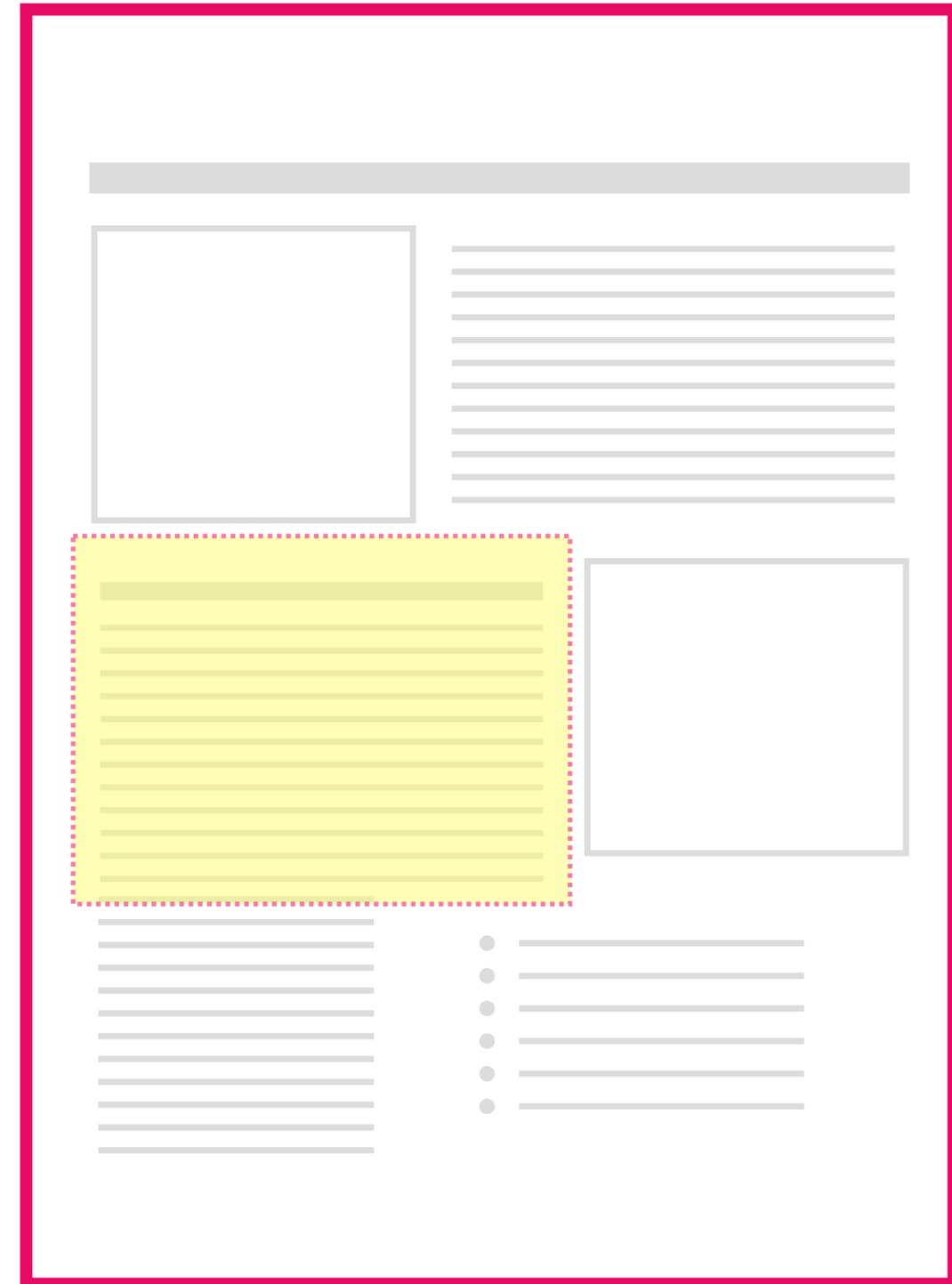
Selectors

Selectors

*Selectors allow you to define **resource segments***

Fragments

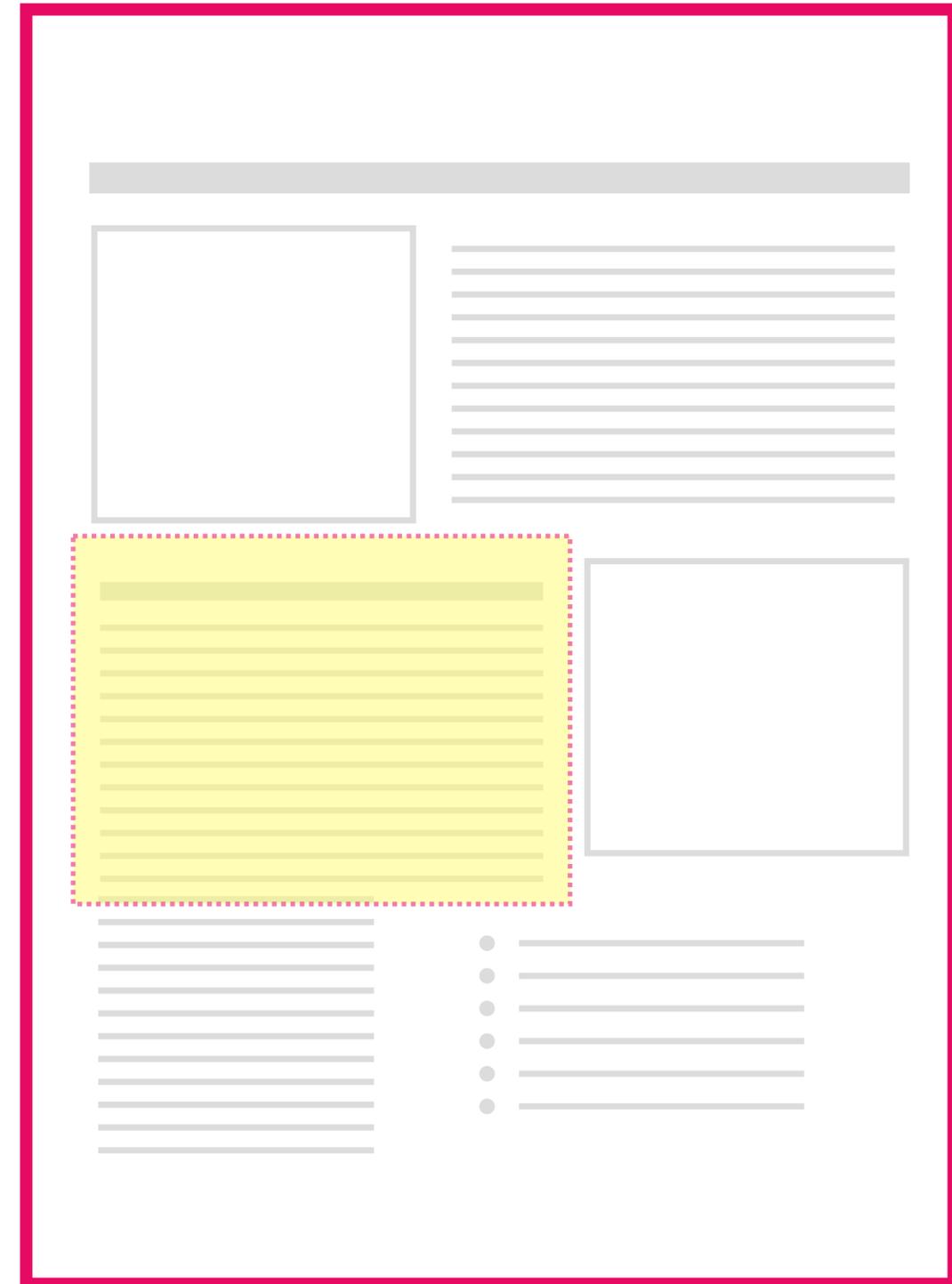
<http://www.example.com/all-about-t-rex-diets#new-theories>



target

Fragments

<http://www.example.com/all-about-t-rex-diets#new-theories>



target

```
{
  "@context": "http://www.w3.org/ns/anno.jsonld",
  "id": "http://example.org/anno1",
  "type": "Annotation",
  "motivation": "questioning",
  "body": {
    "id": "http://example.org/in-defense-of-t-rex.mov",
    "type": "Video",
  },
  "target": "http://www.example.com/all-about-t-rex-diets"
}
```

```
{
  "@context" : "http://www.w3.org/ns/anno.jsonld",
  "id" : "http://example.org/anno1",
  "type" : "Annotation",
  "motivation" : "questioning",
  "body" : {
    "id" : "http://example.org/in-defense-of-t-rex.mov",
    "type" : "Video",
  },
  "target" : {
    "source" : "http://www.example.com/all-about-t-rex-diets",
    "selector" : {
      "type" : "FragmentSelector",
      "value" : "new-theories"
    },
    "conformsTo" : "http://tools.ietf.org/rfc/rfc3236",
  }
}
```

```
{
  "@context" : "http://www.w3.org/ns/anno.jsonld",
  "id" : "http://example.org/anno1",
  "type" : "Annotation",
  "motivation" : "questioning",
  "body" : {
    "id" : "http://example.org/in-defense-of-t-rex.mov",
    "type" : "Video",
  },
  "target" : {
    "source" : "http://www.example.com/all-about-t-rex-diets",
    "selector" : {
      "type" : "FragmentSelector",
      "value" : "new-theories"
    },
    "conformsTo" : "http://tools.ietf.org/rfc/rfc3236",
  }
}
```

```
{
  "@context" : "http://www.w3.org/ns/anno.jsonld",
  "id" : "http://example.org/anno1",
  "type" : "Annotation",
  "motivation" : "questioning",
  "body" : {
    "id" : "http://example.org/in-defense-of-t-rex.mov",
    "type" : "Video",
  },
  "target" : {
    "source" : "http://www.example.com/all-about-t-rex-diets",
    "selector" : {
      "type" : "FragmentSelector",
      "value" : "new-theories"
    },
    "conformsTo" : "http://tools.ietf.org/rfc/rfc3236",
  }
}
```

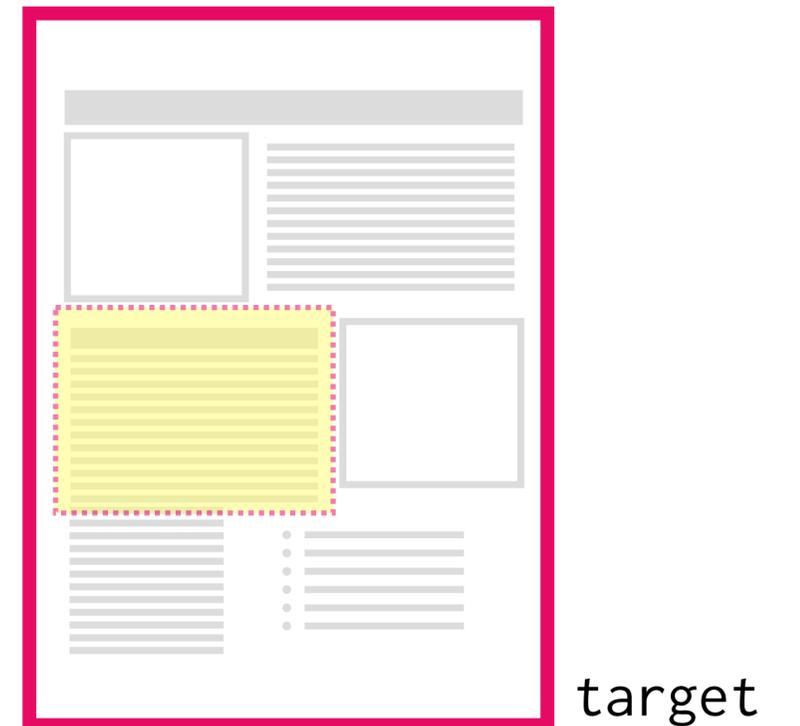
```
{
  "@context" : "http://www.w3.org/ns/anno.jsonld",
  "id" : "http://example.org/anno1",
  "type" : "Annotation",
  "motivation" : "questioning",
  "body" : {
    "id" : "http://example.org/in-defense-of-t-rex.mov",
    "type" : "Video",
  },
  "target" : {
    "source" : "http://www.example.com/all-about-t-rex-diets",
    "selector" : {
      "type" : "FragmentSelector",
      "value" : "new-theories"
    },
    "conformsTo" : "http://tools.ietf.org/rfc/rfc3236",
  }
}
```

```
{
  "@context": "http://www.w3.org/ns/anno.jsonld",
  "id": "http://example.org/anno1",
  "type": "Annotation",
  "motivation": "questioning",
  "body": {
    "id": "http://example.org/in-defense-of-t-rex.mov",
    "type": "Video",
  },
  "target": {
    "source": "http://www.example.com/all-about-t-rex-diets",
    "selector": {
      "type": "FragmentSelector",
      "value": "new-theories"
    },
    "conformsTo": "http://tools.ietf.org/rfc/rfc3236",
  }
}
```

The diagram illustrates the relationship between the JSON-LD target selector and the target URL. A red arrow points from the "source" property of the target object to the URL <http://www.example.com/all-about-t-rex-diets>. Another red arrow points from the "value" property of the selector object to the fragment [#new-theories](http://www.example.com/all-about-t-rex-diets#new-theories) in the URL. A thick red bar highlights the selector object in the JSON-LD structure.

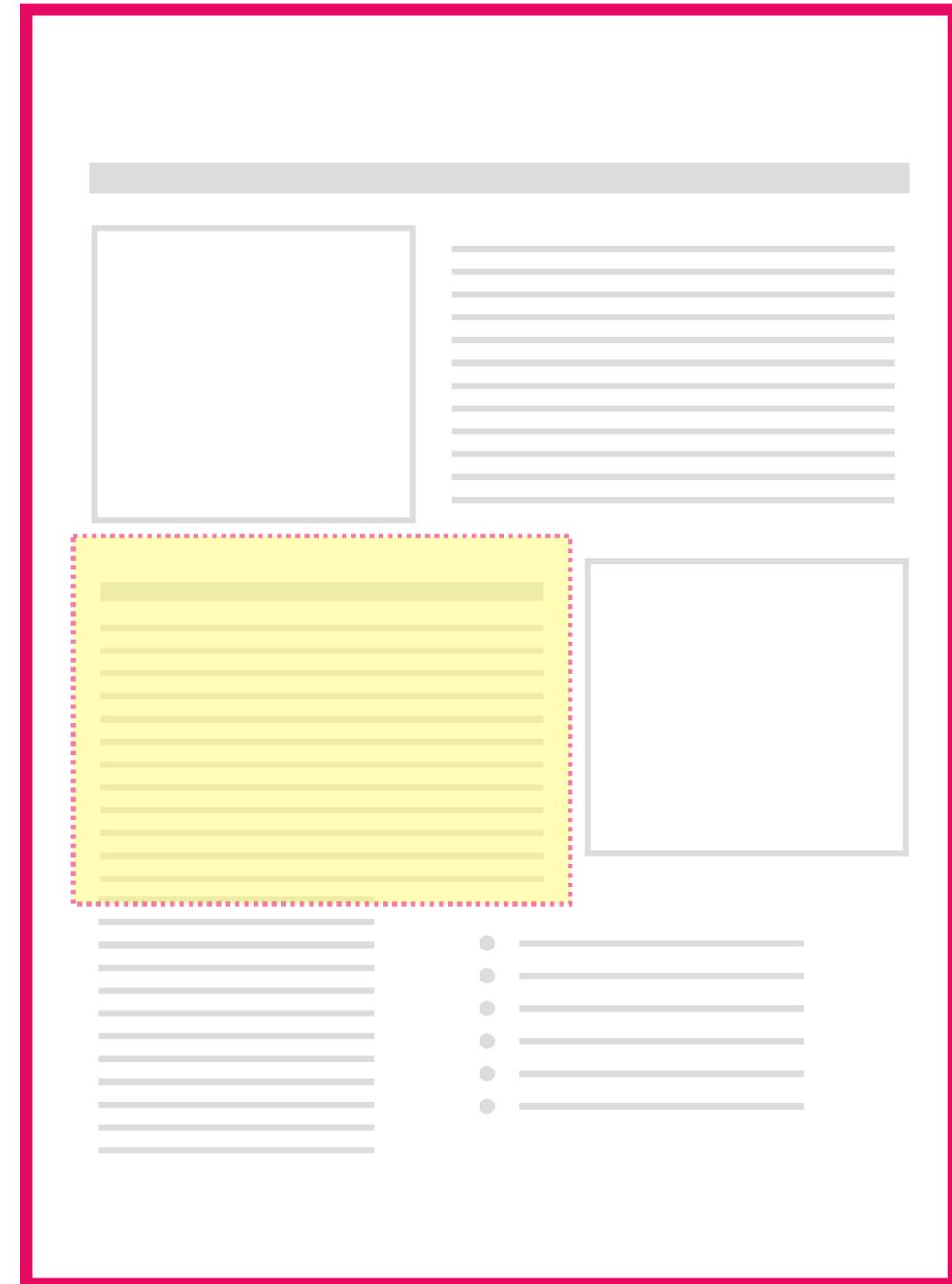
Fragments

http://www.example.com/all-about-t-rex-diets #new-theories



Fragments

<http://www.example.com/all-about-t-rex-diets#new-theories>



target

```
{
  "@context" : "http://www.w3.org/ns/anno.jsonld",
  "id" : "http://example.org/anno1",
  "type" : "Annotation",
  "motivation" : "questioning",
  "body" : {
    "id" : "http://example.org/in-defense-of-t-rex.mov",
    "type" : "Video",
  },
  "target" : {
    "source" : "http://www.example.com/all-about-t-rex-diets",
    "selector" : {
      "type" : "FragmentSelector",
      "value" : "new-theories"
    },
    "conformsTo" : "http://tools.ietf.org/rfc/rfc3236",
  }
}
```

```
{
  "@context" : "http://www.w3.org/ns/anno.jsonld",
  "id" : "http://example.org/anno1",
  "type" : "Annotation",
  "motivation" : "questioning",
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      "type" : "FragmentSelector",
      "value" : "new-theories"
      "conformsTo" : "http://tools.ietf.org/rfc/rfc3236",
    }
  }
}
```

Media Type Fragments

Media Type Fragments

Name	Fragment Specification	Description
HTML	http://tools.ietf.org/rfc/rfc3236	[rfc3236] Example: <code>namedSection</code>
PDF	http://tools.ietf.org/rfc/rfc3778	[rfc3778] Example: <code>page=10&viewrect=50,50,640,480</code>
Plain Text	http://tools.ietf.org/rfc/rfc5147	[rfc5147] Example: <code>char=0,10</code>
XML	http://tools.ietf.org/rfc/rfc3023	[rfc3023] Example: <code>xpointer(/a/b/c)</code>
RDF/XML	http://tools.ietf.org/rfc/rfc3870	[rfc3870] Example: <code>namedResource</code>
CSV	http://tools.ietf.org/rfc/rfc7111	[rfc7111] Example: <code>row=5-7</code>
Media	http://www.w3.org/TR/media-frag/	[media-frag s] Example: <code>xywh=50,50,640,480</code>
SVG	http://www.w3.org/TR/SVG/	[SVG11] Example: <code>svgView(viewBox(50,50,640,480))</code>
EPUB3	http://www.idpf.org/epub/linking/cfi/epub-cfi.html	[cfi] Example: <code>epubcfi(/6/4[chap01ref]!/4[body01]/10[para05]/3:10)</code>

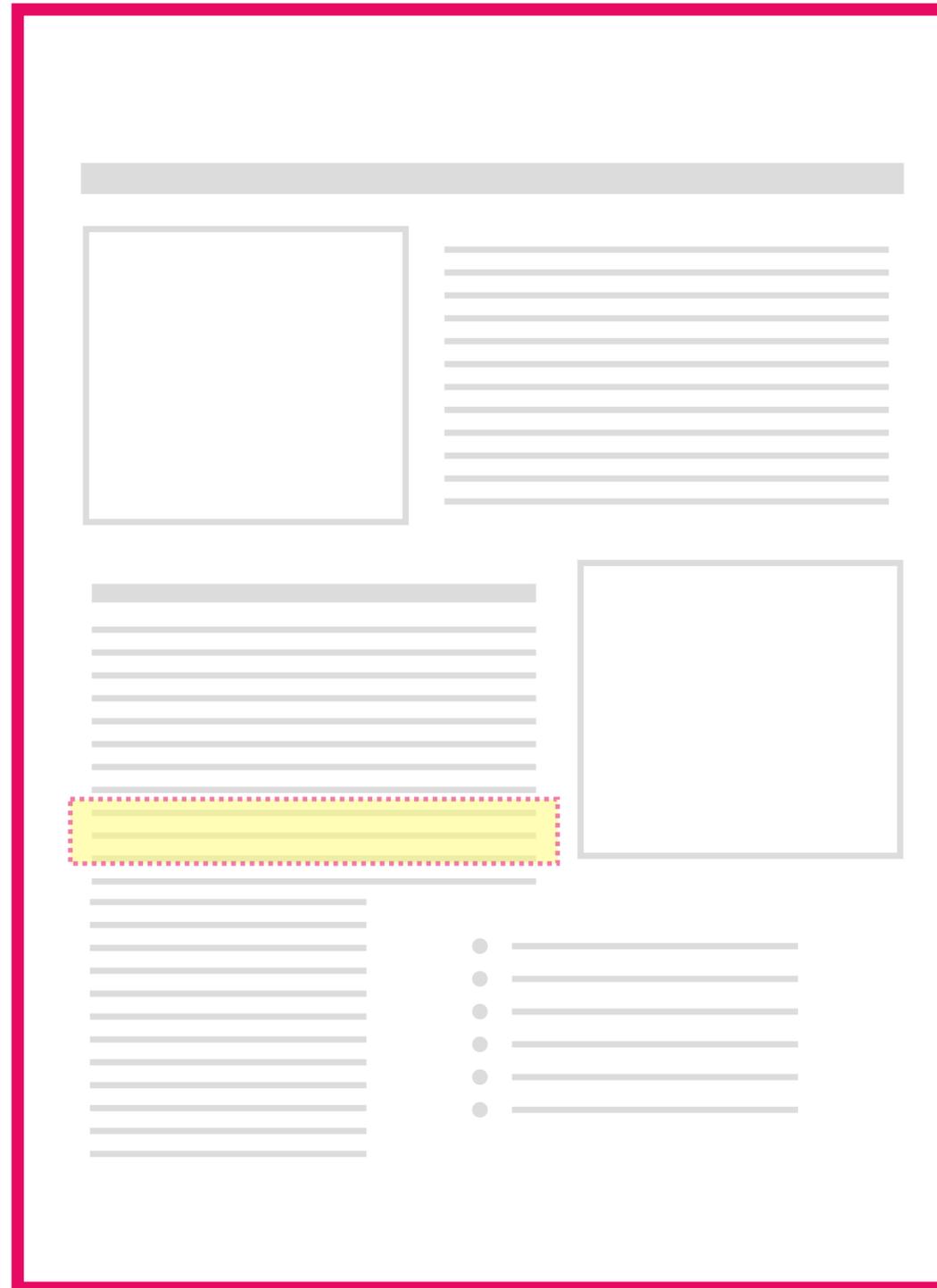
<https://www.w3.org/TR/annotation-model/#fragment-selector>

Selectors and Segments



target

Selectors and Segments



target

Selectors

Selectors

- ★ *Fragment*
media type fragment

Selectors

- ★ *Fragment*
media type fragment
- ★ *XPath*
document's DOM

Selectors

- ★ *Fragment*
media type fragment
- ★ *XPath*
document's DOM
- ★ *Text Quote*
exact text selected, as well as preceding (prefix) and succeeding (suffix) text

Selectors

- ★ *Fragment*
media type fragment
- ★ *XPath*
document's DOM
- ★ *Text Quote*
exact text selected, as well as preceding (prefix) and succeeding (suffix) text
- ★ *CSS*
CSS selectors



target



target



target

State



target

State



target

Zooming to another plane

zoom level

universe galaxies constellations planets humans



Zooming to another plane

zoom level

universe galaxies constellations planets humans

A horizontal scale bar with tick marks and a red triangle pointing to the 'galaxies' label.

Zooming to another plane

zoom level

universe galaxies constellations planets humans

A horizontal scale bar with tick marks and a red triangle marker. The bar is dark gray and spans the width of the slide. It has vertical tick marks of varying lengths. A red triangle points upwards from the bar, positioned between the 'galaxies' and 'constellations' labels.

Zooming to another plane

Web Annotation's themes and struggles

zoom level

universe galaxies constellations planets humans

A horizontal axis with tick marks and a red triangle pointing to the 'constellations' label.

Power to the People?

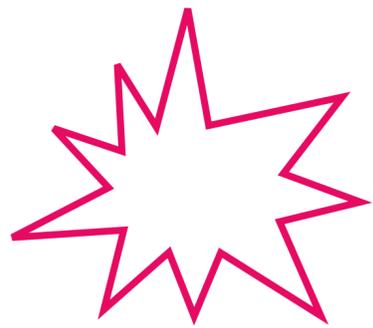
Freedom vs. Control

the web promises democracy and freedom

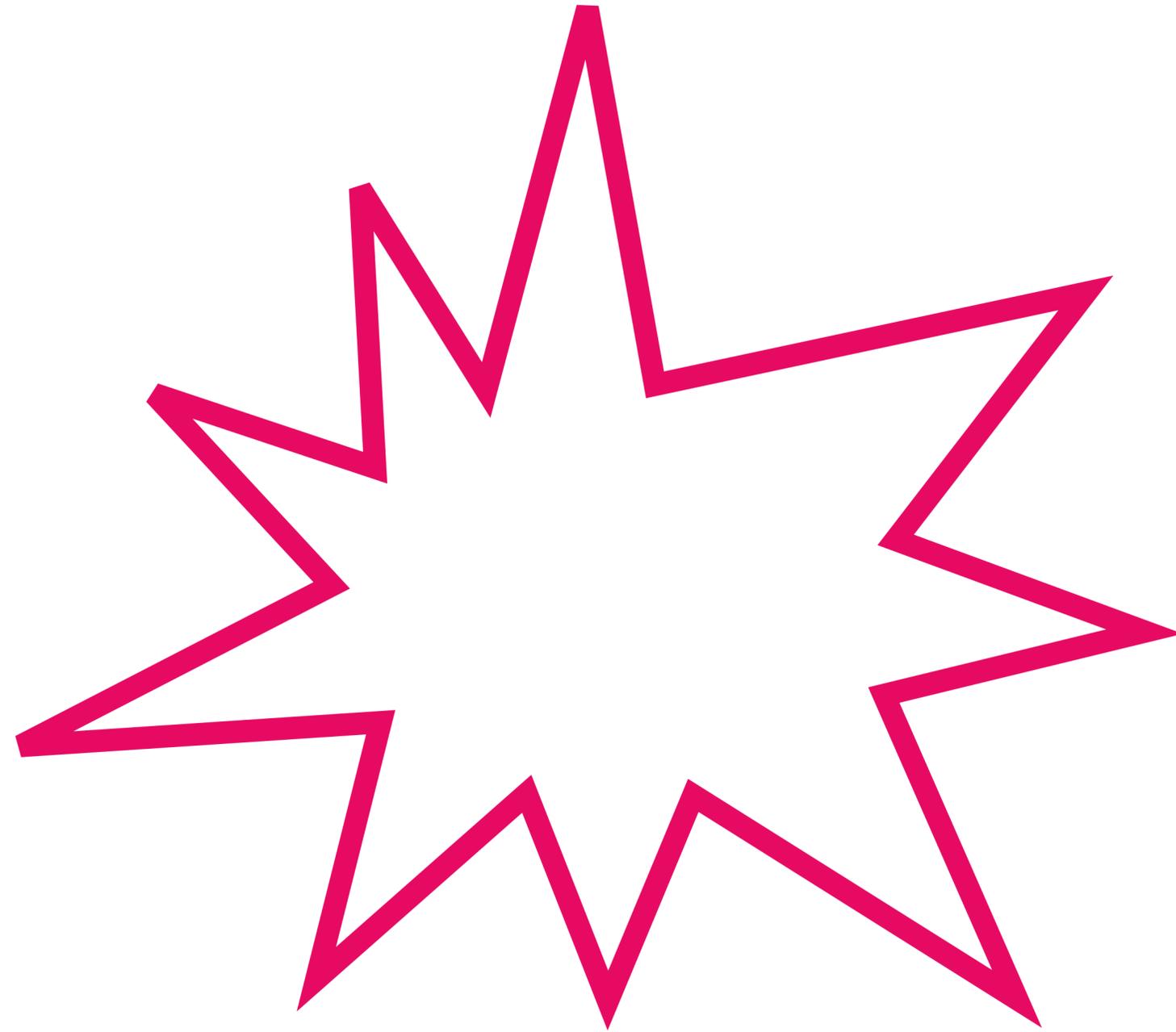
the web promises democracy and freedom



the web is an amplification platform



the web is an amplification platform



climatefeedback.org

“

”

climatefeedback.org

“global network of scientists fact-checking climate change news”

climatefeedback.org



Climate Feedback

About

Scientific Feedbacks

Community

News & Events



Accurate information is the foundation of a functioning democracy

WHAT WE DO

Climate Feedback is a worldwide network of scientists sorting fact from fiction in climate change media coverage. Our goal is to help readers know which news to trust.

Latest Article Reviews

FINANCIAL POST

NEWS · INVESTING · MARKETS · PERSONAL FINANCE · FP TECH DESK · FP COMMENT · ENTREPRENEUR · EXECUTIVE

Polar bears keep thriving even as global warming alarmists keep pretending they're dying

Susan Crockford: Polar bears are flourishing, making them phony icons, and false idols, for global warming alarmists

ClimateFeedback.org

Annotations · Page Notes

ClimateFeedback.org
in Public

Polar bears keep thriving even as global warming alarmists keep pretending they're dying

Overall scientific credibility: 'very low', according to scientists who analyzed this article

"Polar bears keep thriving even..."
Susan Crockford, Financial Post

Scientific Credibility

+2 Very high
+1 High
0 Neutral
-1 Low
-2 Very low
n/a Not Applicable

-1.7

ClimateFeedback.org
% responsible

Find more details in the annotations below and in [Climate Feedback's analysis](#)

Interacting | Board | Greenposting

Financial Post publishes misleading opinion that misrepresents science of polar bears' plight

Financial Post

"The article is composed of misstatements. These are either based upon the author's apparent lack of understanding of the ecological and geophysical situations, or intent to misl."

- 27 Feb 2018

Annotation using hypothes.is

The image shows a screenshot of a web browser displaying a news article from the Conservative Tribune. The article title is "Flashback: Global Warming Study Canceled After Humiliating Discovery" by Benjamin Arie, dated June 22, 2017. The article text includes an editor's note and a paragraph starting with "You can say this for bleeding-heart liberals: They certainly have a flair for the ironic." The browser's address bar shows the URL: <https://conservativetribune.com/global-warming-study-cancelled/>. On the right side of the browser, the Hypothes.is annotation interface is visible, showing a public group and three annotations. The first annotation is by user kmccusker on Jan 14, with the text "different from their predictions". The second annotation is also by kmccusker on Jan 14, with the text "yet they absolutely know how the climate will behave over the next 100 years". The third annotation is by kmccusker on Jan 14, with the text "It isn't the first time a global warming study has been ironically halted in its tracks." The Hypothes.is interface includes a search bar, a "Public" group selector, and various navigation and sharing icons.

CT CONSERVATIVE TRIBUNE

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Sprint works for me

POLITICS

Flashback: Global Warming Study Canceled After Humiliating Discovery

BY BENJAMIN ARIE
JUNE 22, 2017 AT 5:40AM

Share Tweet Email Print

Editor's Note: This was a popular CT story when it originally ran; we're re-posting it for your enjoyment.

You can say this for bleeding-heart liberals: They certainly have a flair for the ironic.

Public

kmccusker Jan 14
Public
different from their predictions

kmccusker Jan 14
Public
yet they absolutely know how the climate will behave over the next 100 years

kmccusker Jan 14
Public
It isn't the first time a global warming study has been ironically halted in its tracks.

3
The following citations of research cruises is an example of cher-

<https://via.hypothes.is/https://conservativetribune.com/global-warming-study-cancelled/>

Annotation using hypothes.is

The image shows a screenshot of a web browser displaying a news article from the Conservative Tribune. The article title is "Flashback: Global Warming Study Canceled After Humiliating Discovery" by Benjamin Arie, dated June 22, 2017. The article text includes an editor's note and a paragraph starting with "You can say this for bleeding-heart liberals: They certainly have a flair for the ironic." The browser's address bar shows the URL: <https://conservativetribune.com/global-warming-study-cancelled/>. On the right side of the browser, the Hypothes.is annotation interface is visible, showing a public group with three annotations. The first annotation is by user kmccusker and says "different from their predictions". The second annotation is also by kmccusker and says "yet they absolutely know how the climate will behave over the next 100 years". The third annotation is also by kmccusker and says "It isn't the first time a global warming study has been ironically halted in its tracks." The Hypothes.is interface includes a search bar, a "Public" dropdown, and various navigation icons.

<https://via.hypothes.is/https://conservativetribune.com/global-warming-study-cancelled/>

Annotation using hypothes.is

The screenshot shows a webpage from the Conservative Tribune with a red header. The main content area features a large yellow 'ENTER NOW' button and a paragraph of text. The text contains several annotations from the user 'kmccusker' on Jan 14. The annotations are: 1. A note on the phrase 'different from their predictions' stating 'The linked article is not about predictions made for Arctic sea ice'. 2. A note on the phrase 'yet they absolutely know how the climate will behave over the next 100 years' providing a detailed explanation: 'This is a common and misleading argument that has been dispelled many times. Climate projections don't presume to predict exactly what will be happening and where at any given time, but instead describe the average climate (or the statistics of weather). A decrease in Arctic sea ice extent overall is a well-known feature of climate change, but within that, variability in regional ice concentration is expected.' 3. A note on the sentence 'It isn't the first time a global warming study has been ironically halted in its tracks.' stating 'The following citations of research cruises is an example of cher-'. The webpage also includes social media share buttons (Facebook, Twitter, Email, Print) and a 'RELATED' link: 'Alert: Global Warming Alarmist Threatens Trump's WH... Sound the Alarm'. The hypothes.is interface on the right includes a search bar, a 'Public' dropdown, and filter buttons for 'Biased', 'Cherry-picking', 'Derogatory', and 'Misleading'.

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POLITICS CULTURE REAL

Public

Biased Cherry-picking Derogatory Misleading

Share

TCN THE CONCEALED NETWORK

ENTER NOW

Let that sink in for a moment. Scientists were caught off guard when the true ice conditions were **different from their predictions**, which took place only months ago... **yet they absolutely know how the climate will behave over the next 100 years**.

Global warming activists are already arguing that the Amundsen's reassignment because of increased sea ice is proof that a warming arctic is sending greater floes into the sea lanes as Arctic ice shears, and that could well be true. But that's not the point. The point is, even climate scientists can't predict what's happening next summer, much less next century.

RELATED: Alert: Global Warming Alarmist Threatens Trump's WH... Sound the Alarm

You're a fool to doubt them. So stop asking questions!

kmccusker Jan 14
Public
different from their predictions
The linked article is not about predictions made for Arctic sea ice

kmccusker Jan 14
Public
yet they absolutely know how the climate will behave over the next 100 years
This is a common and misleading argument that has been dispelled many times. Climate projections don't presume to predict exactly what will be happening and where at any given time, but instead describe the average climate (or the statistics of weather). A decrease in Arctic sea ice extent overall is a well-known feature of climate change, but within that, variability in regional ice concentration is expected.

kmccusker Jan 14
Public
It isn't the first time a global warming study has been ironically halted in its tracks.
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<https://via.hypothes.is/https://conservativetribune.com/global-warming-study-cancelled/>

Annotation using hypothes.is

CT CONSERVATIVE TRIBUNE

POLITICS CULTURE REAL

Public

Biased Cherry-picking Derogatory Misleading

kmccusker Jan 14

Public

yet they absolutely know how the climate will behave over the next 100 years

This is a common and misleading argument that has been dispelled many times. Climate projections don't presume to predict exactly what will be happening and where at any given time, but instead describe the average climate (or the statistics of weather). A decrease in Arctic sea ice extent overall is a well-known feature of climate change, but within that, variability in regional ice concentration is expected.

Let that sink in... conditions were... ago... yet they... years.

Global warming... because of incre... into the sea lar... point. The poin... summer, much

RELATED: **Alarm**

halted in its tracks.

The following citations of research cruises is an example of cher-

<https://via.hypothes.is/https://conservativetribune.com/global-warming-study-cancelled/>

Bodies and Targets

annotation

kmccusker

Jan 14

 Public

yet they absolutely know how the climate will behave over the next 100 years

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Bodies and Targets

annotation

target

<https://conservativetribune.com/global-warming-study-cancelled/>

kmccusker Jan 14

Public

yet they absolutely know how the climate will behave over the next 100 years

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↩ ↪ 🚩

Bodies and Targets

annotation

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<https://conservativetribune.com/global-warming-study-cancelled/>

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↩ ↪ 🚩

refined by Selectors

Bodies and Targets

annotation

<https://conservativetribune.com/global-warming-study-cancelled/>

target

body

kmccusker Jan 14
Public

yet they absolutely know how the climate will behave over the next 100 years

This is a common and misleading argument that has been dispelled many times. Climate projections don't presume to predict exactly what will be happening and where at any given time, but instead describe the average climate (or the statistics of weather). A decrease in Arctic sea ice extent overall is a well-known feature of climate change, but within that, variability in regional ice concentration is expected.

↩ ↪ 🚩

refined by Selectors

Bodies and Targets

annotation

<https://conservativetribune.com/global-warming-study-cancelled/>

target

body

kmccusker Jan 14
Public

yet they absolutely know how the climate will behave over the next 100 years

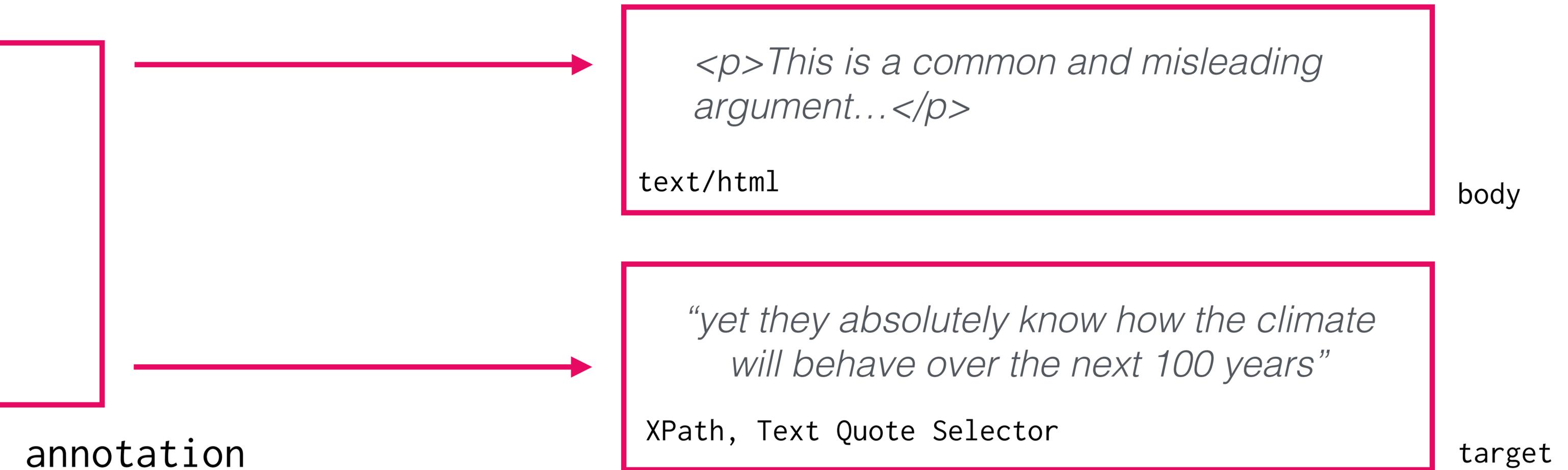
This is a common and misleading argument that has been dispelled many times. Climate projections don't presume to predict exactly what will be happening and where at any given time, but instead describe the average climate (or the statistics of weather). A decrease in Arctic sea ice extent overall is a well-known feature of climate change, but within that, variability in regional ice concentration is expected.

↩ ↪ 🚩

refined by Selectors

formatted as HTML

Bodies and Targets



URI <https://conservativetribune.com/global-warming-study-cancelled/>

Bodies and Targets

annotation

<http://www.example.com/annotations/e498dd93>

body

<p>This is a common and misleading argument...</p>

text/html

target

“yet they absolutely know how the climate will behave over the next 100 years”

XPath, Text Quote Selector

URI <https://conservativetribune.com/global-warming-study-cancelled/>

Targeting another Annotation

annotation

<http://www.example.com/>

<p>This is a common and misleading argument...</p>

text/html

“yet they absolutely know how they will behave over the next 100 years”

XPath, Text Quote Selector

URI <https://conservativetribune.com/global-warming/>

Targeting another Annotation

annotation

<http://www.example.com/annotations/fcc983443>

body

`<p>Allow me to retort.</p>`

text/html

annotation

<http://www.example.com/>

`<p>This is a common and misleading argument...</p>`

text/html

`"yet they absolutely know how they will behave over the next 100 years"`

XPath, Text Quote Selector

URI <https://conservativetribune.com/global-warming>

Targeting another Annotation

annotation

<http://www.example.com/annotations/fcc983443>

body

`<p>Allow me to retort.</p>`

text/html

target

<http://www.example.com/annotations/e498dd93>



annotation

<http://www.example.com/a>

`<p>This is a common and misleading argument...</p>`

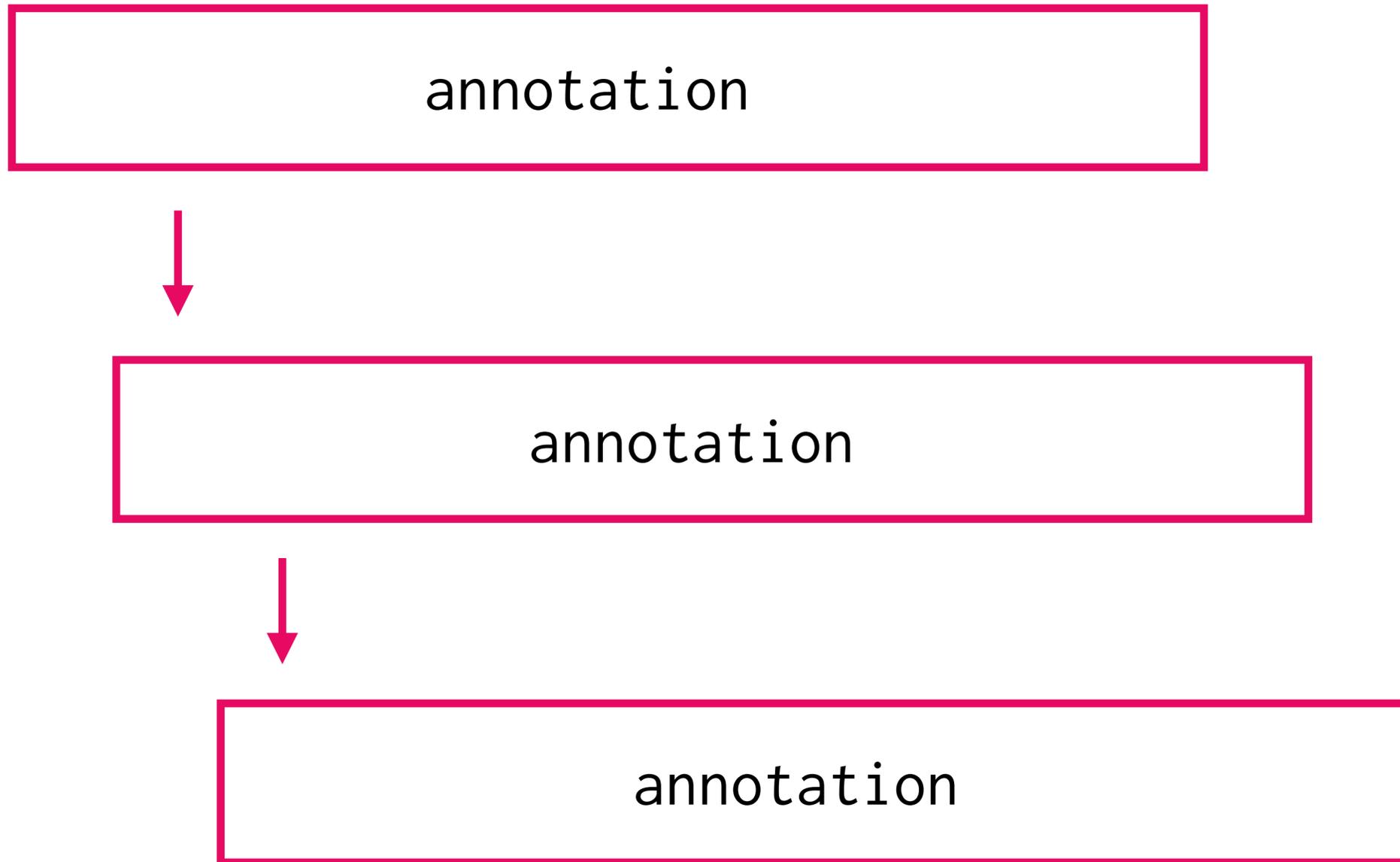
text/html

`"yet they absolutely know how they will behave over the next 100 years"`

XPath, Text Quote Selector

URI <https://conservativetribune.com/global-warming>

threaded replies



people can suck

“you suck”



“you suck more!”



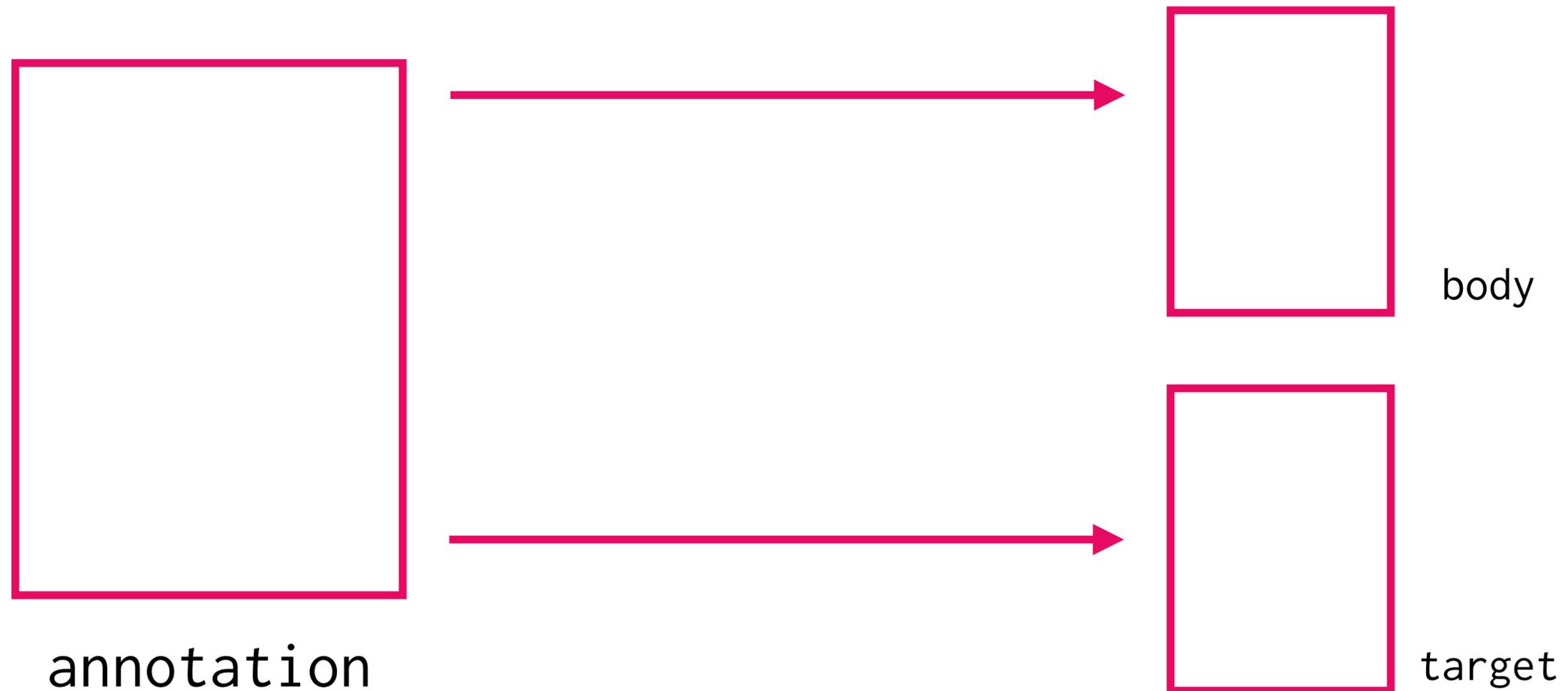
“you deserve pain”

freedom vs. the trolls

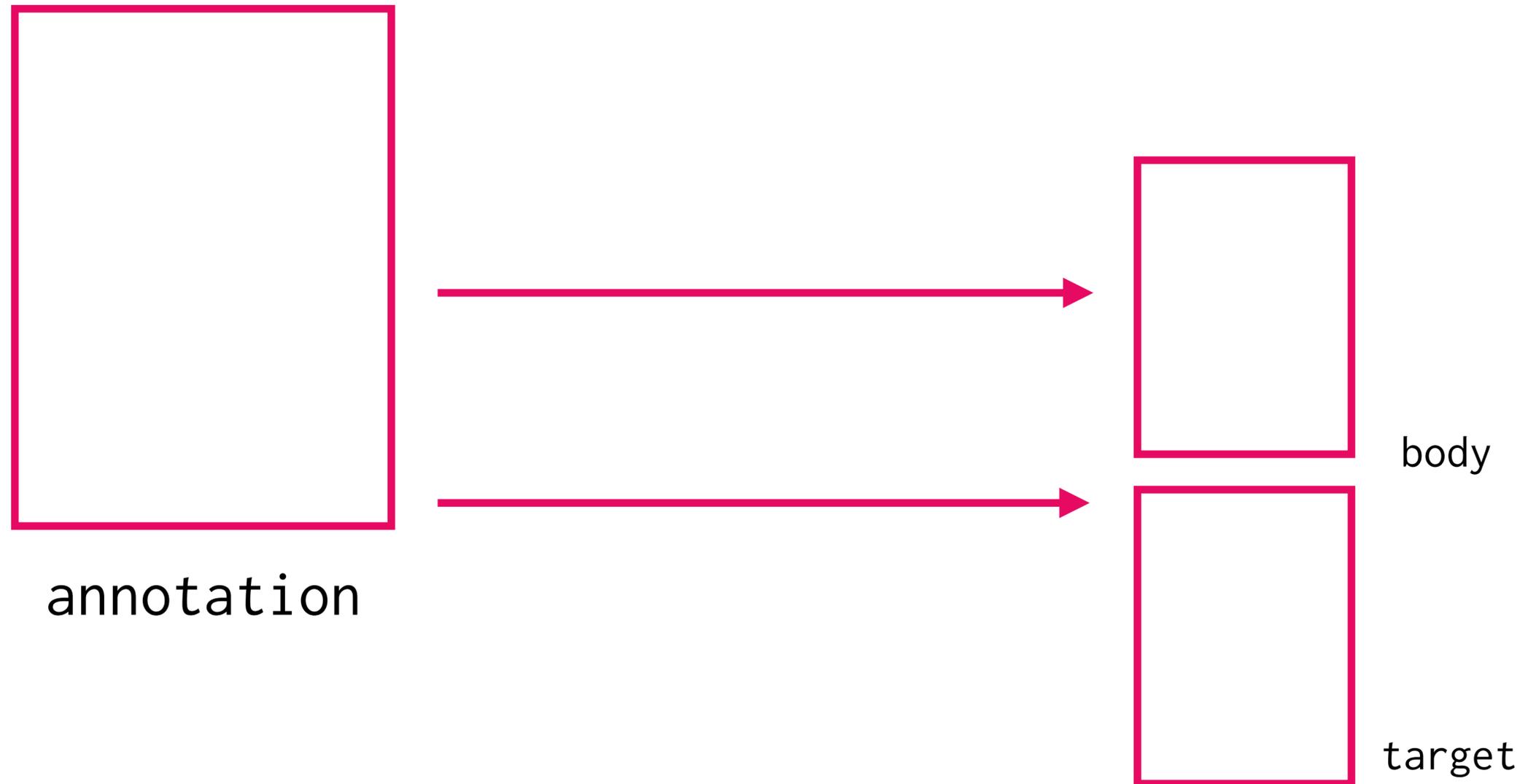
freedom vs. the trolls



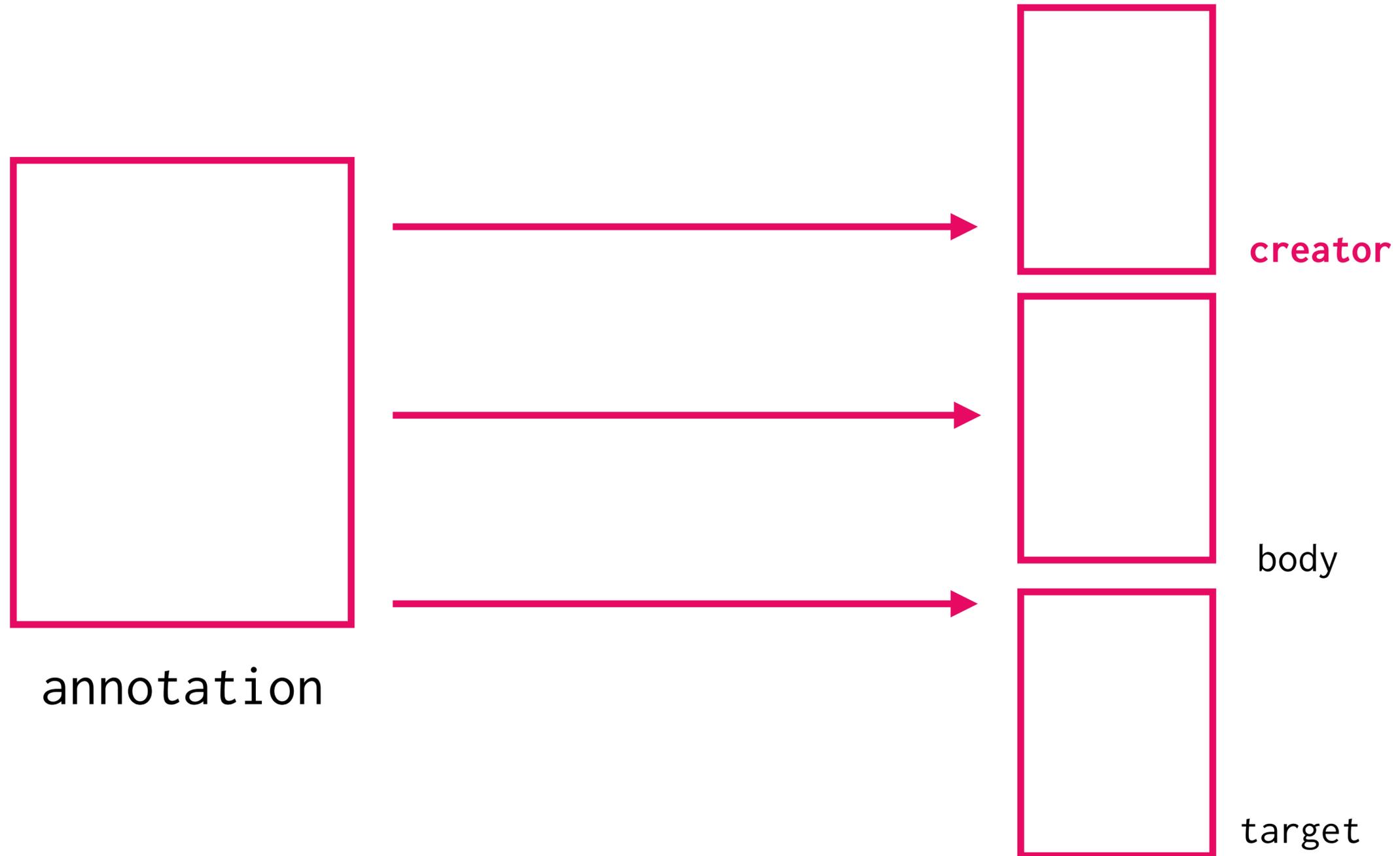
Creator Relationship



Creator Relationship



Creator Relationship



WAWG Objectives

- ★ *interoperability*
centered on the URI, web foundations
- ★ *generalized model*
“orthogonal to the domain of interest”
- ★ *simple, inexpensive implementation*
un-opinionated about specific technologies

It's complicated.

can I mute this thing? halp!





Your blog post

You suck



Your blog post

Allow publishers to opt out?

`<makeItStop="true">`

Allow publishers to opt out?

```
document.ohGod.please.no.annotations = true;
```

Not all opinions have real value

“

”

Not all opinions have real value

“ This article is *really* wrong.

There is just no way.”

who gets to decide?

BAN THIS USER



who gets to decide?



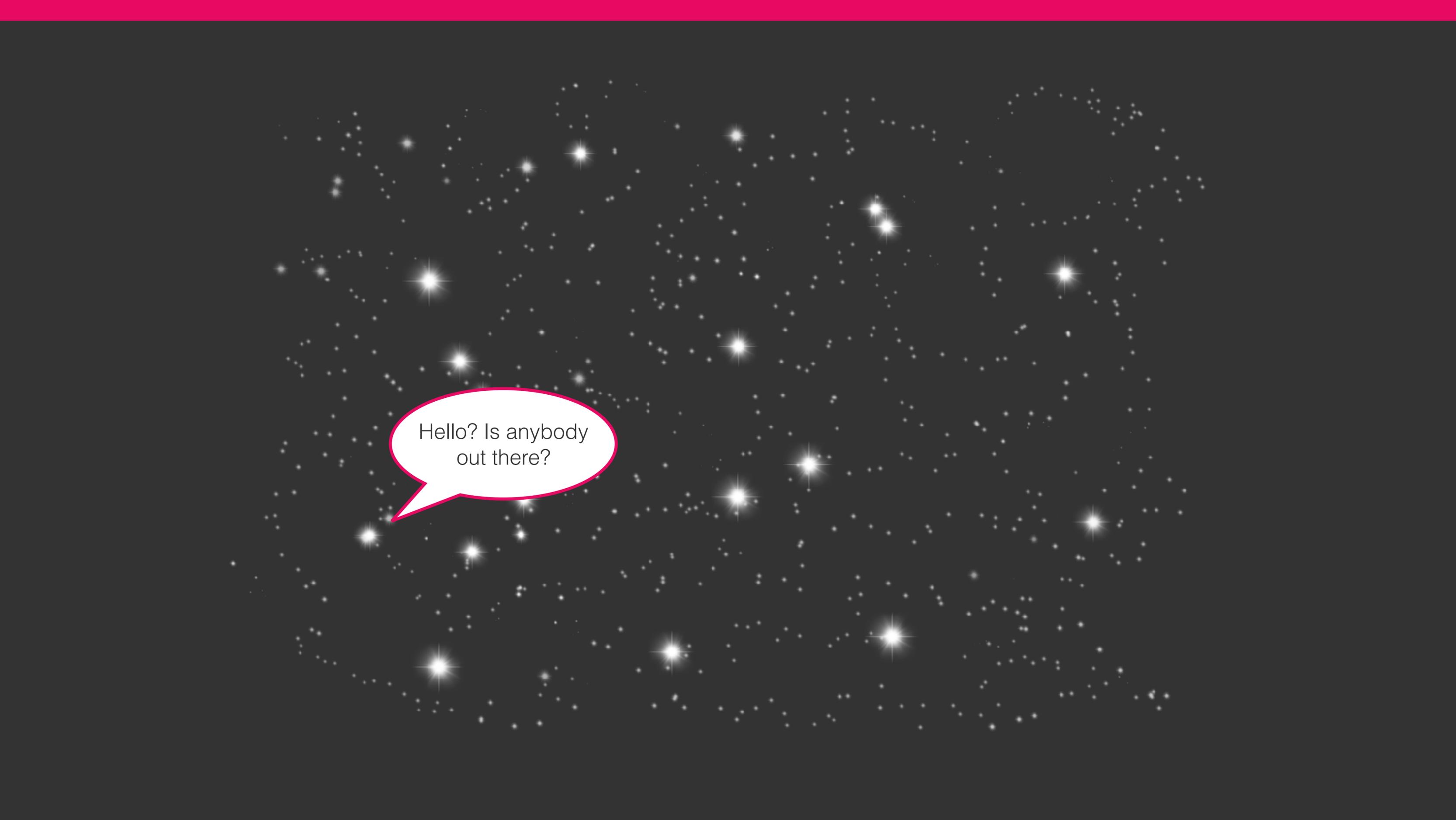
freedom vs. control

always a tension on the web

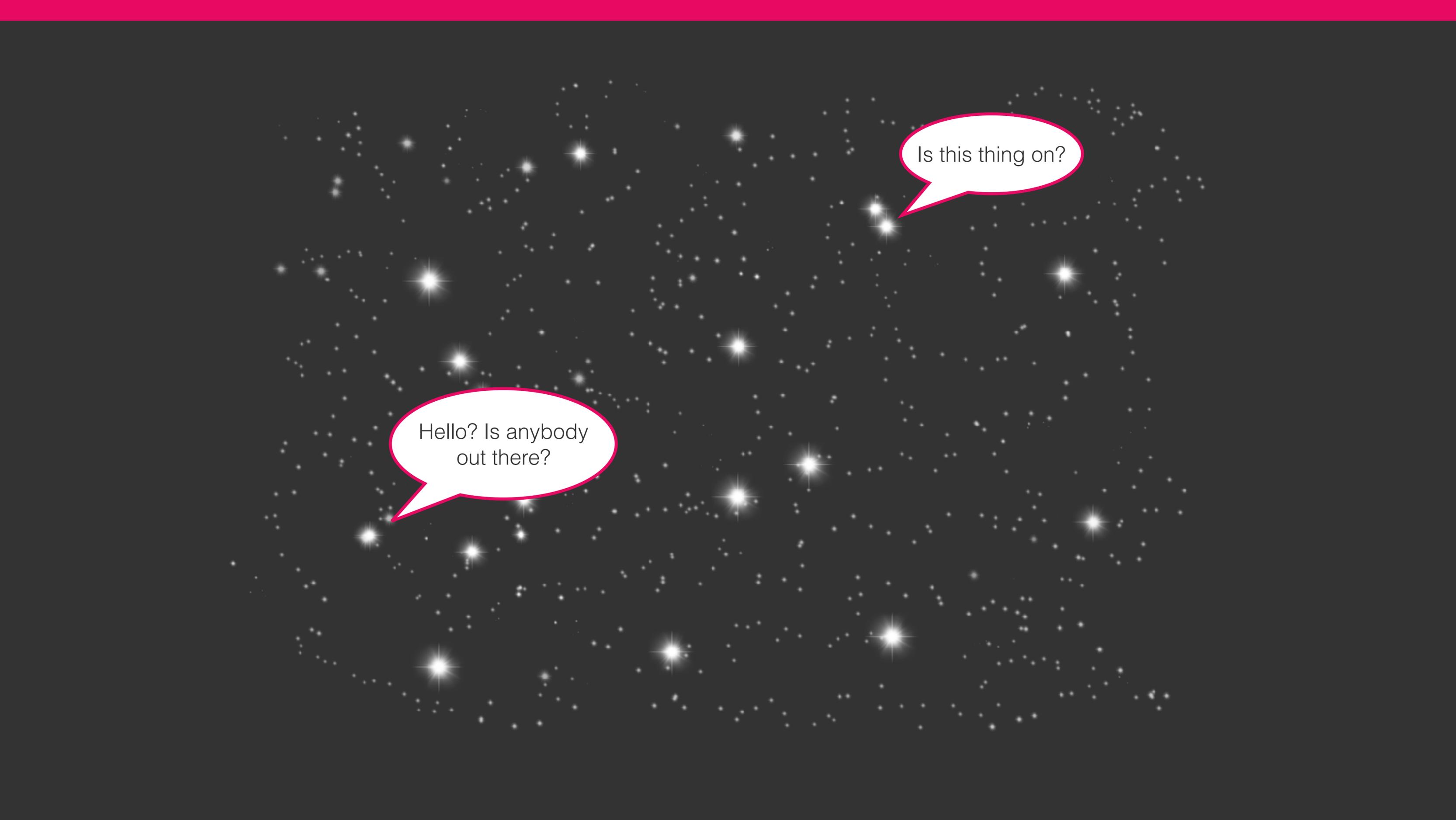
Shouting into the Void

Flexible vs. Specific



A dark grey background filled with numerous white stars of varying sizes and brightness. A speech bubble with a pink border and a tail pointing towards the bottom-left is positioned in the lower-left quadrant. The text inside the bubble is centered and reads "Hello? Is anybody out there?".

Hello? Is anybody
out there?

A dark, starry night sky filled with numerous bright, multi-pointed stars of varying sizes. Two white speech bubbles with pink outlines are overlaid on the scene. The first speech bubble is on the left and contains the text "Hello? Is anybody out there?". The second speech bubble is on the right and contains the text "Is this thing on?".

Hello? Is anybody
out there?

Is this thing on?

Web Annotation: a gift?

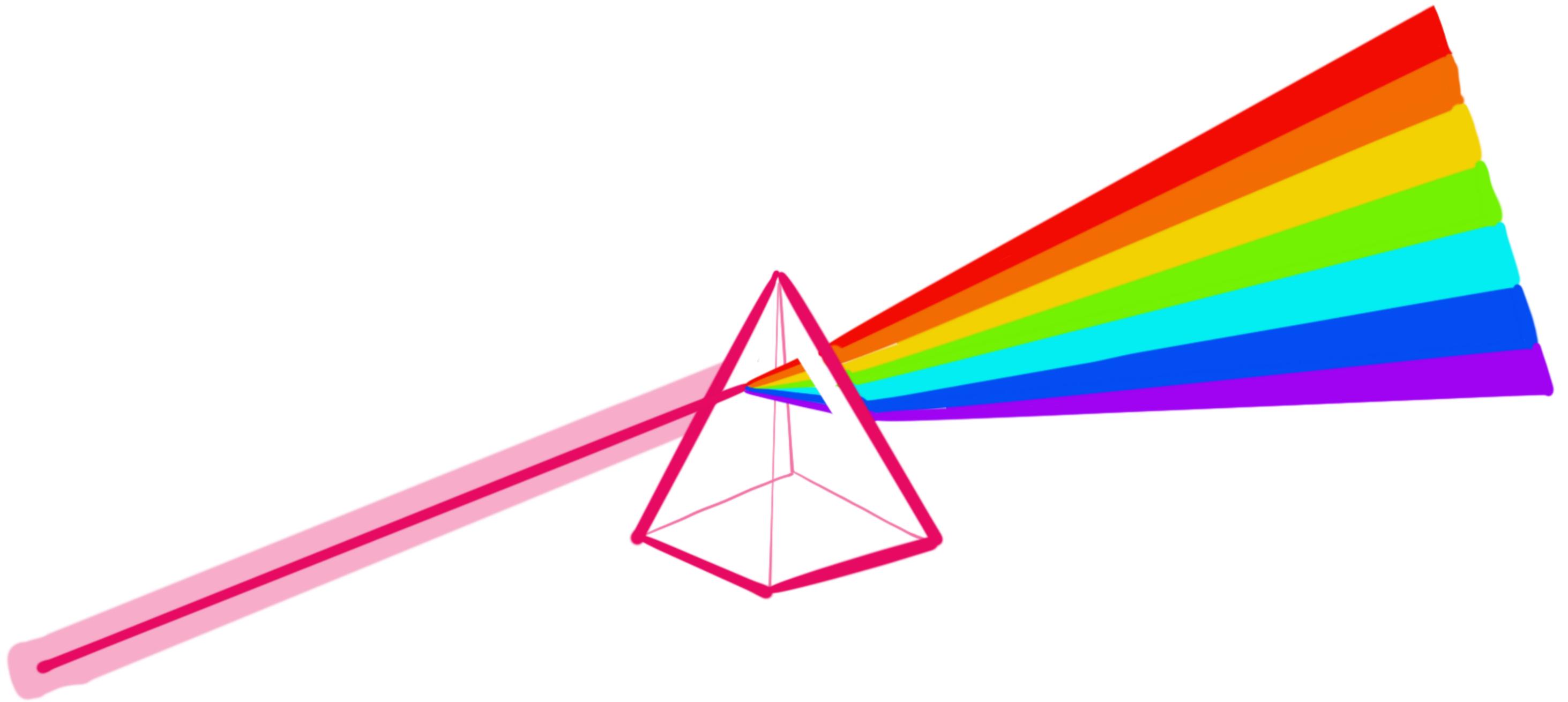


the
TYRANNY
of
ABSTRACTION

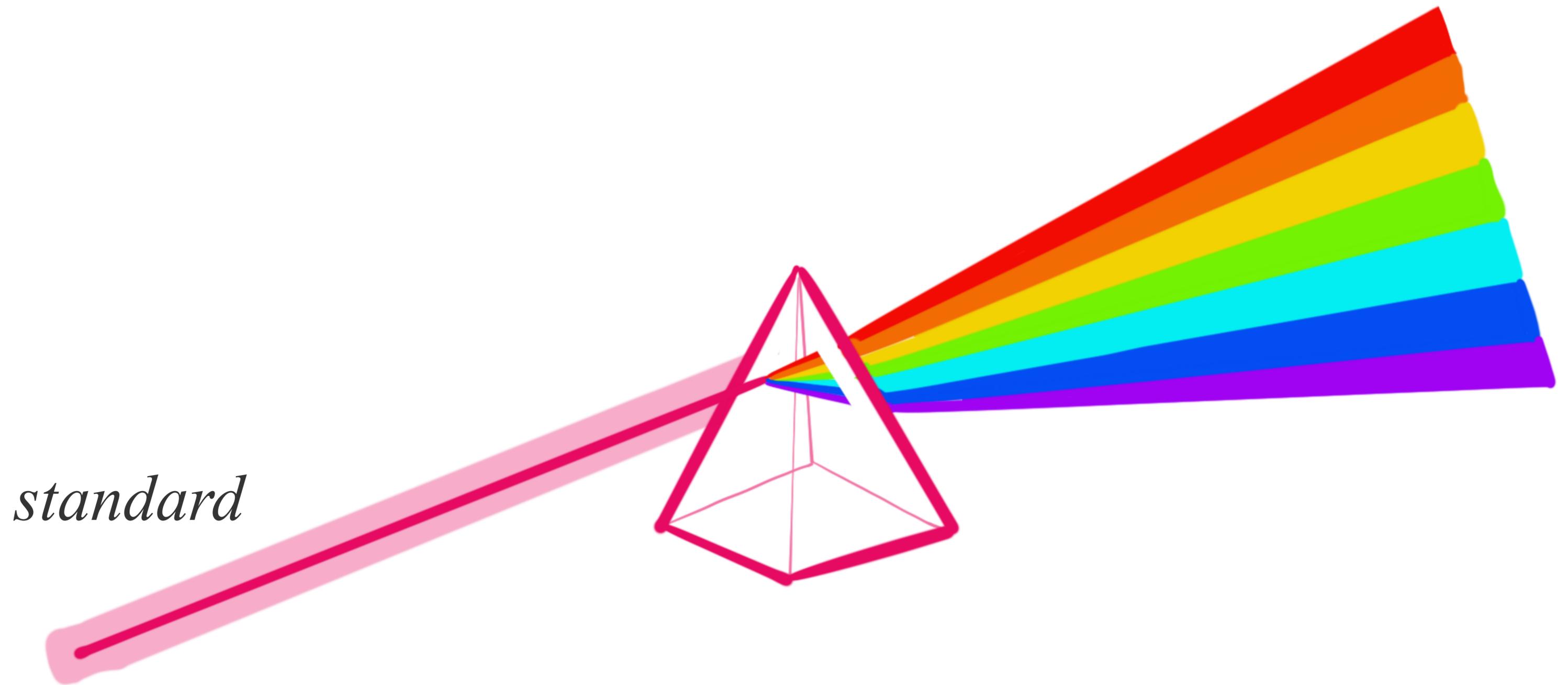
flexible vs. specific

always a tension on the web

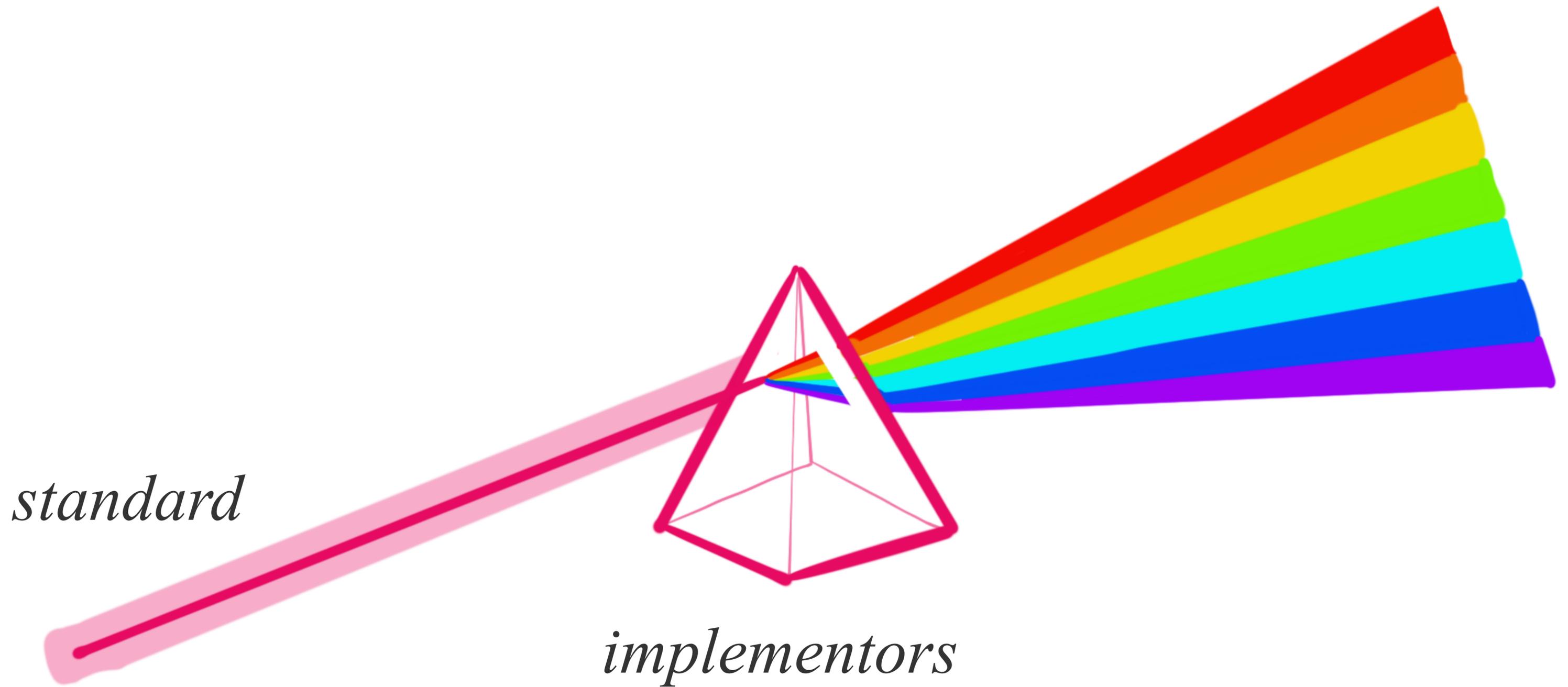
making this great is up to implementors



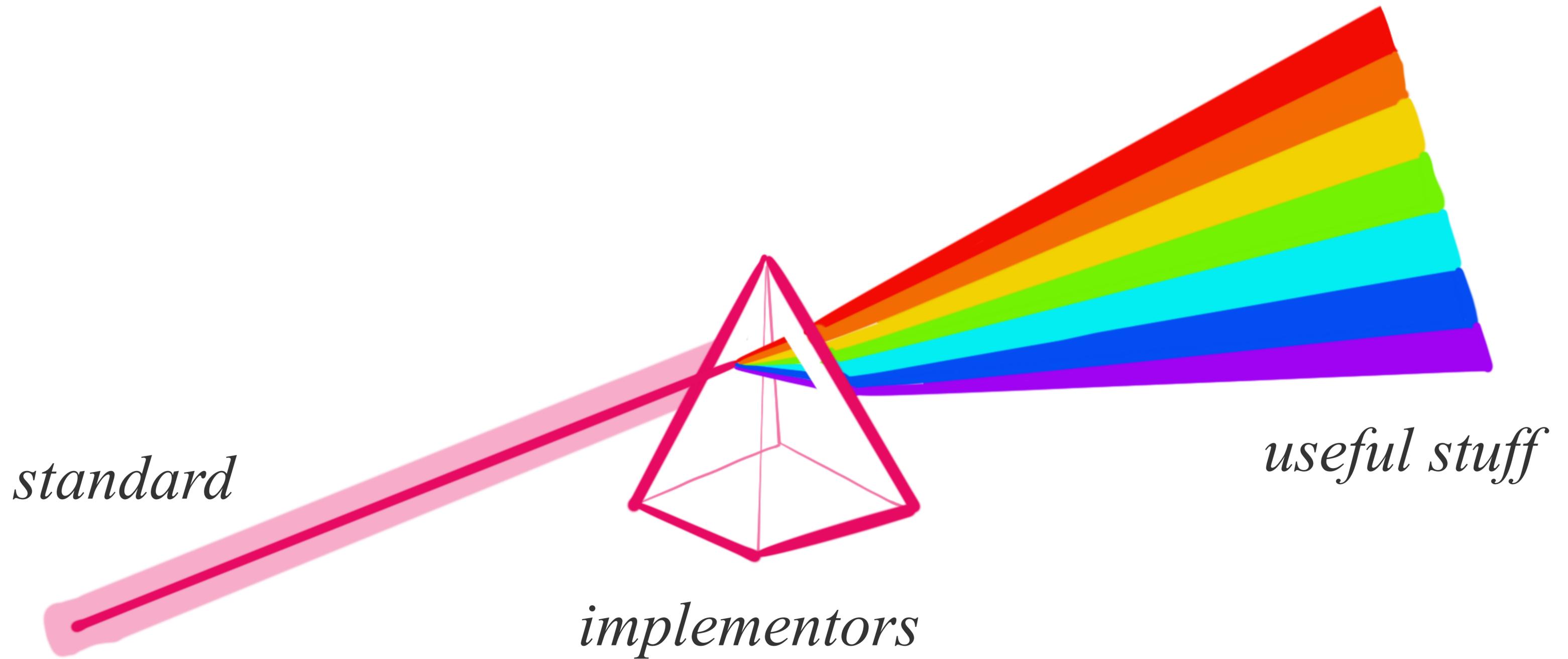
making this great is up to implementors



making this great is up to implementors



making this great is up to implementors



“FIRST POST!!!!11”

“testing..”

“first annotation test”

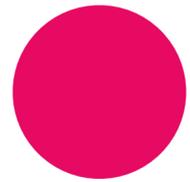
flexible vs. specific

always a tension on the web

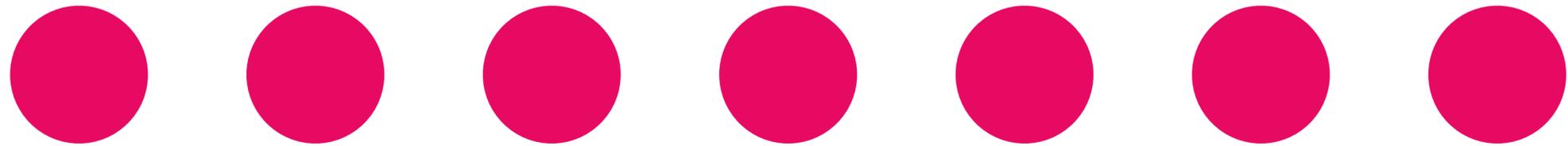
It's slowing me down

Open vs. Proprietary

the web evolves so slowly



the web evolves so slowly



Extensible Web Manifesto

Extensible Web Manifesto

The Extensible Web Manifesto

#extendthewebforward

We—**the undersigned**—want to change how web standards committees create and prioritize new features. We believe that this is critical to the long-term health of the web.

We aim to tighten the feedback loop between the editors of web standards and web developers.

Today, most new features require months or years of standardization, followed by careful implementation by browser vendors, only then followed by developer feedback and iteration. We prefer to enable feature development and iteration in JavaScript, followed by implementation in browsers and standardization.

To enable libraries to do more, browser vendors should provide new low-level capabilities that expose the possibilities of the underlying platform as closely as possible.

They should also seed the discussion of high-level APIs through JavaScript implementations of new features (such as **Mozilla's X-Tags** and **Google's Polymer**).

<https://extensiblewebmanifesto.org/>

open vs. proprietary

always a tension on the web

open

proprietary

open

proprietary

★ *fast*

★ *full-featured*

★ *innovative*

open

★ *interoperable*

★ *democratic but slow*

★ *stable over the long term*

proprietary

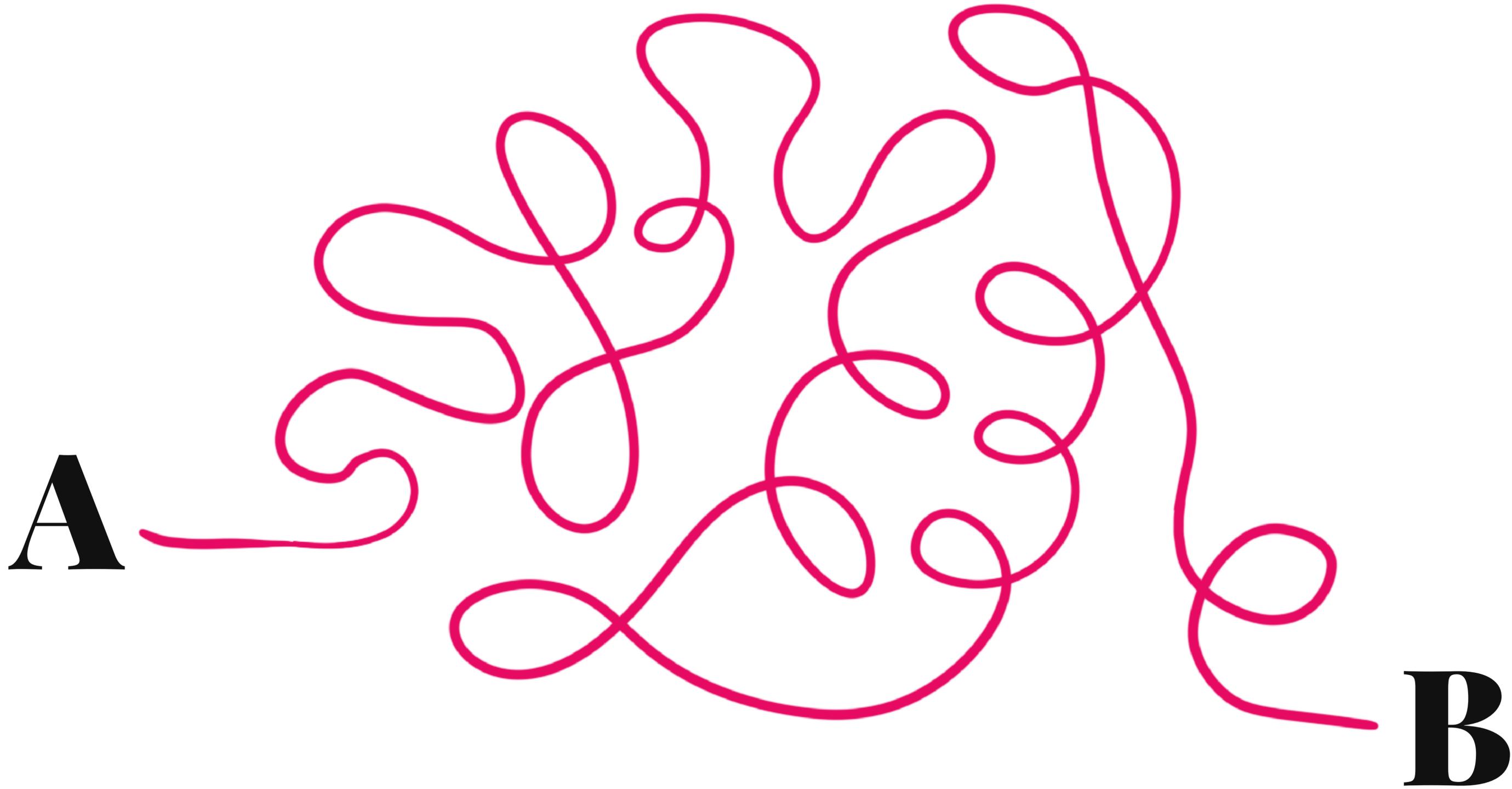
★ *fast*

★ *full-featured*

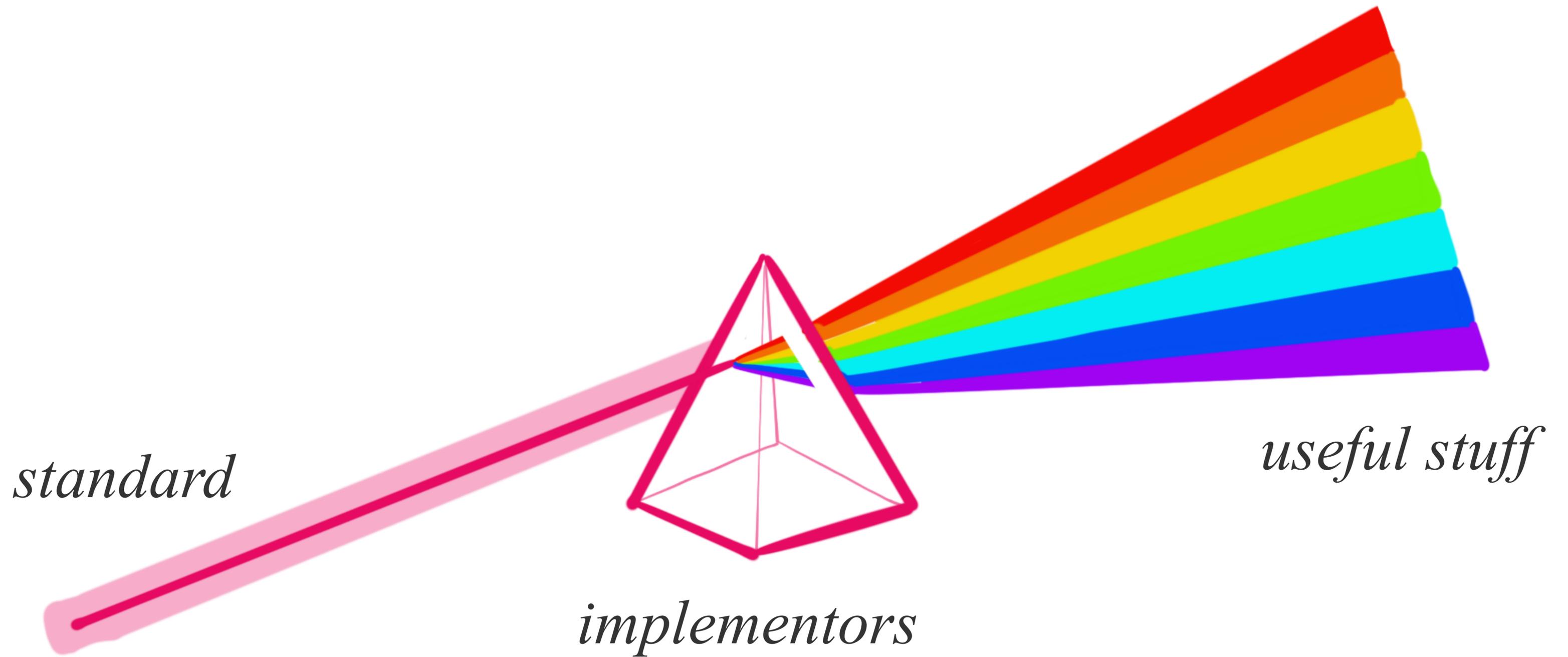
★ *innovative*

Byzantine standards process

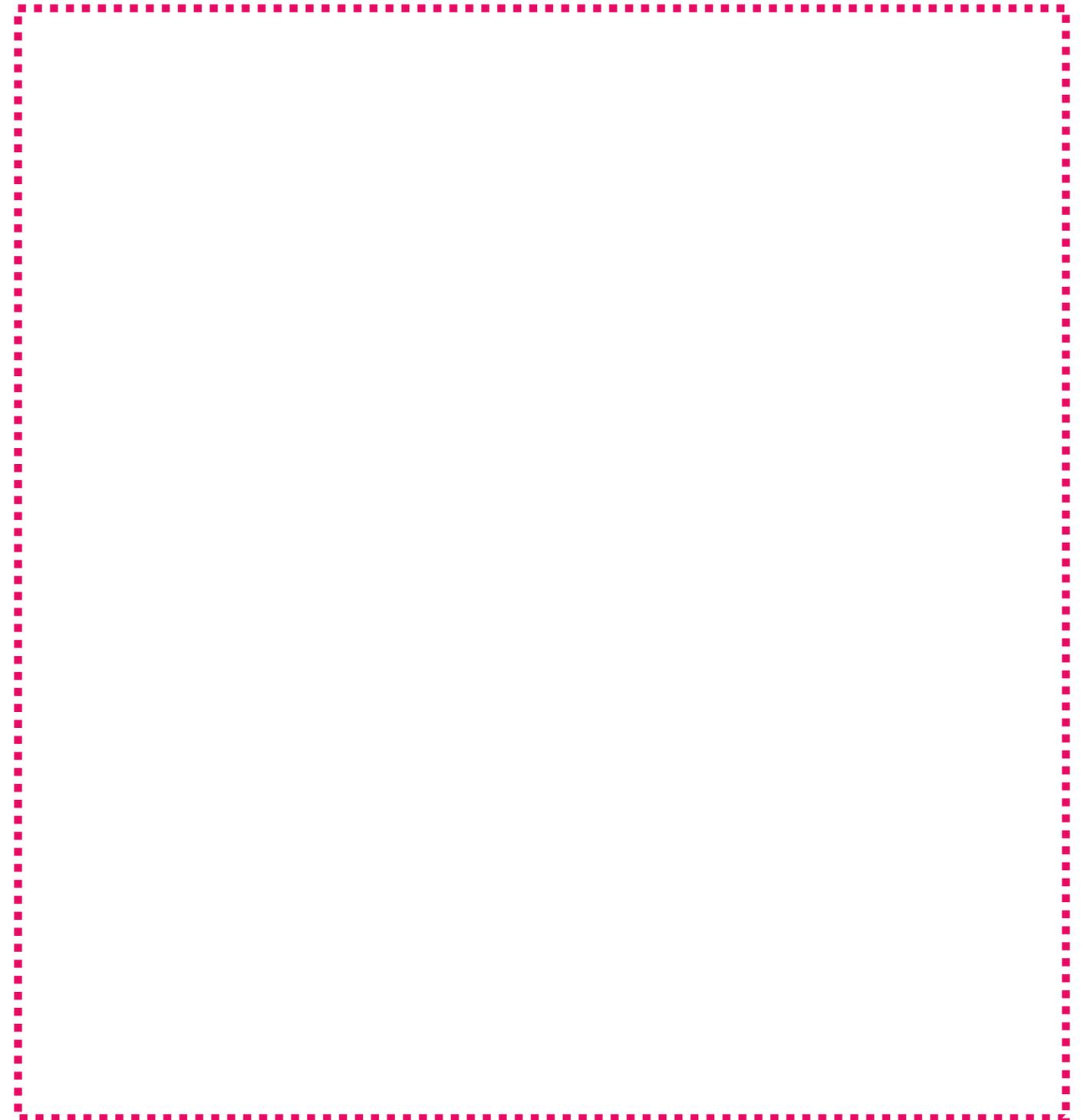
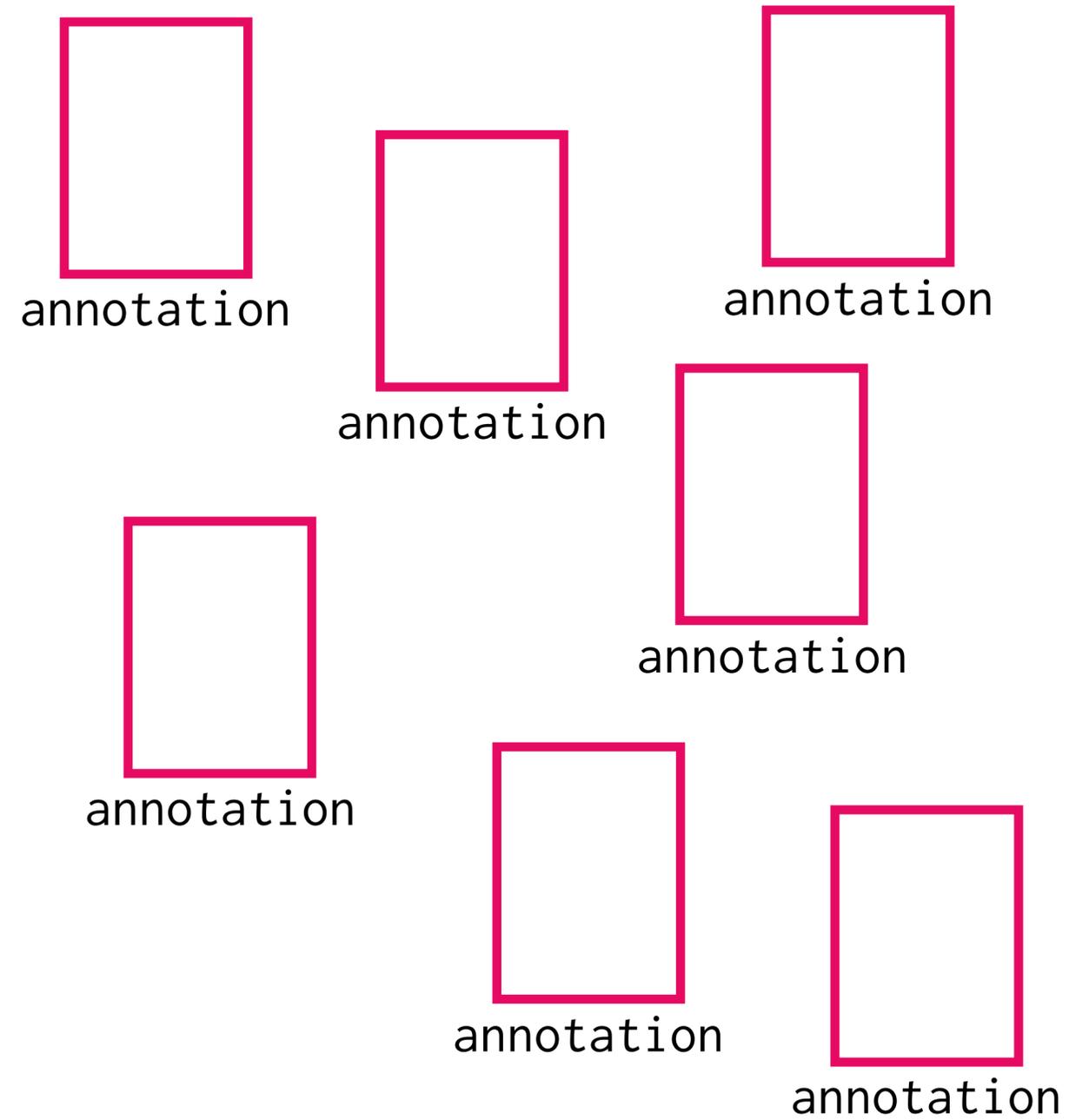
Byzantine standards process



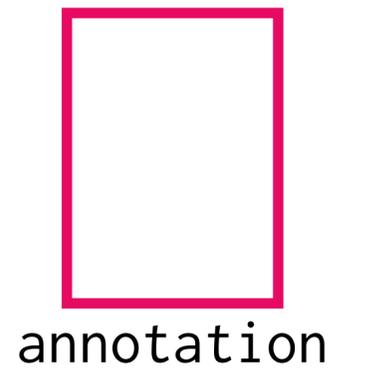
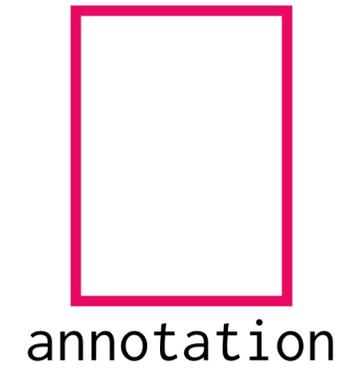
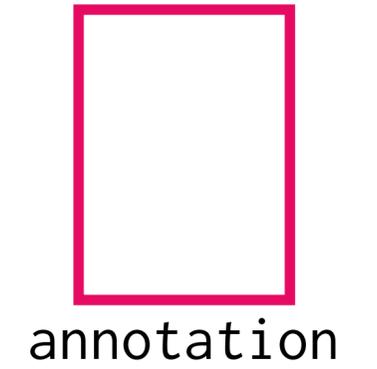
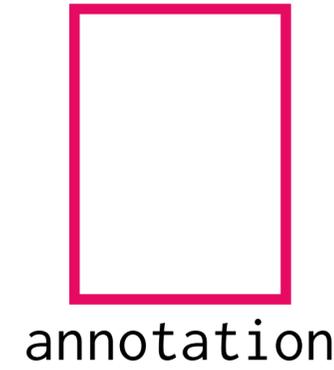
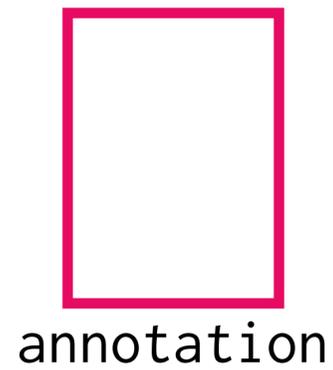
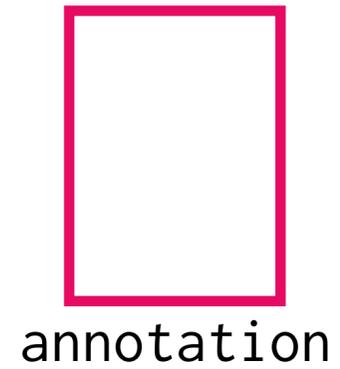
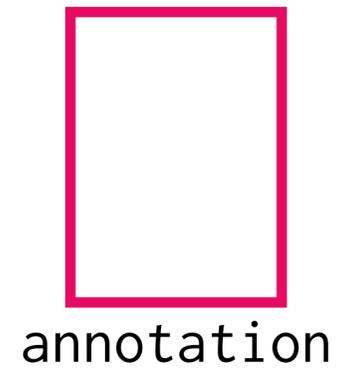
flexibility gives implementors breathing room



Interoperability



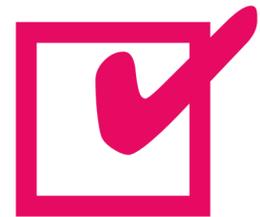
Interoperability



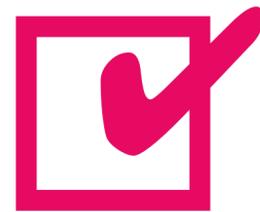
Orthogonal to Use Cases

- annotating scientific articles*
- bookmarking*
- studying — private notes*
- reviewing*

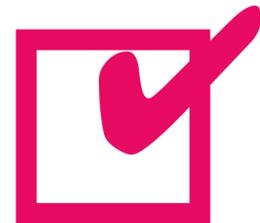
Orthogonal to Use Cases



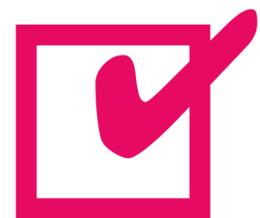
annotating scientific articles



bookmarking



studying — private notes



reviewing

Web Cornerstones

Web Cornerstones

★ *Web Annotation Model*

The URI

Web Cornerstones

- ★ *Web Annotation Model*

The URI

- ★ *Web Annotation Vocabulary*

RDF, JSON-LD

Web Cornerstones

- ★ *Web Annotation Model*
The URI
- ★ *Web Annotation Vocabulary*
RDF, JSON-LD
- ★ *Web Annotation Protocol*
RESTful

Let's Talk about Scientists

zoom level

universe galaxies constellations planets humans

A horizontal scale bar with tick marks and a red triangle pointing to the 'galaxies' label.

Let's Talk about Scientists

How people use this thing

zoom level

universe galaxies constellations planets humans





Maryann Martone

neuroscientist, UCSD

“

”

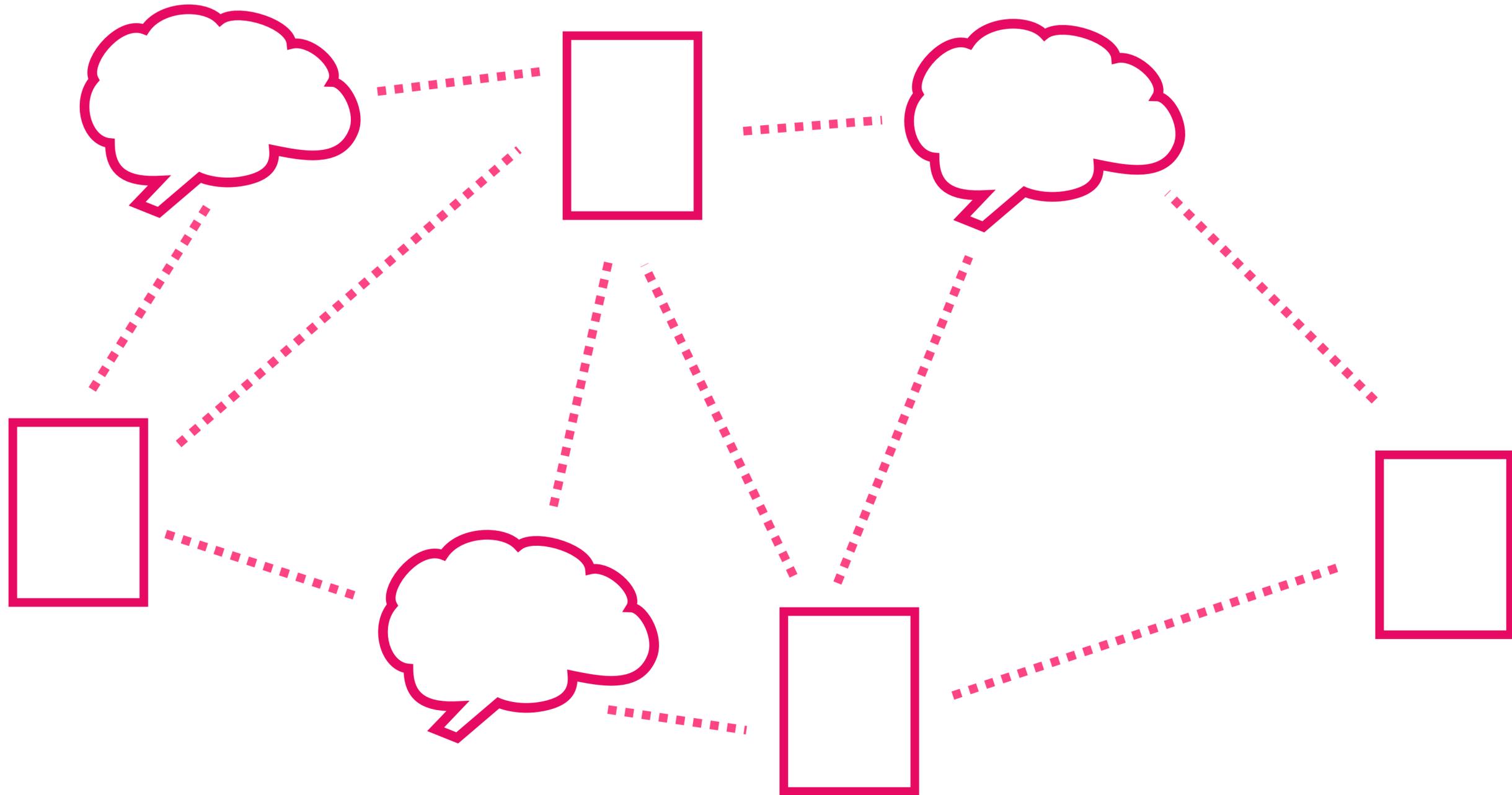
“*bioscientists are failing at the major scourges...we need an interface between data and knowledge.*

”

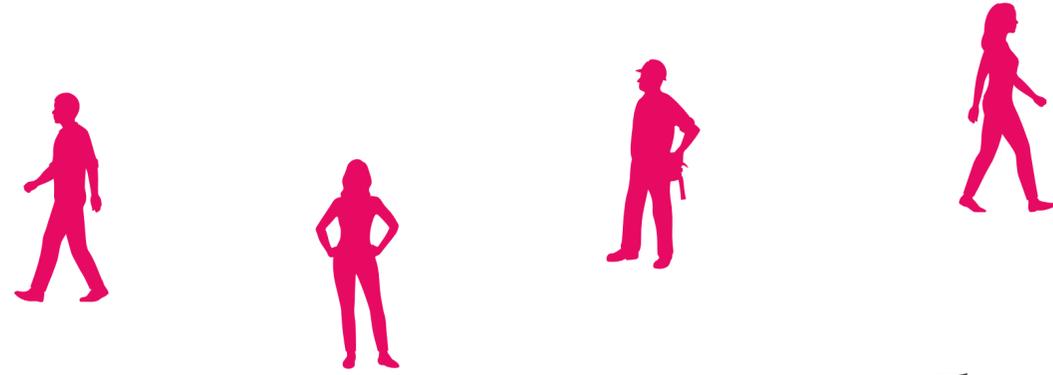
technology vs. culture

always a tension on the web

connective tissue

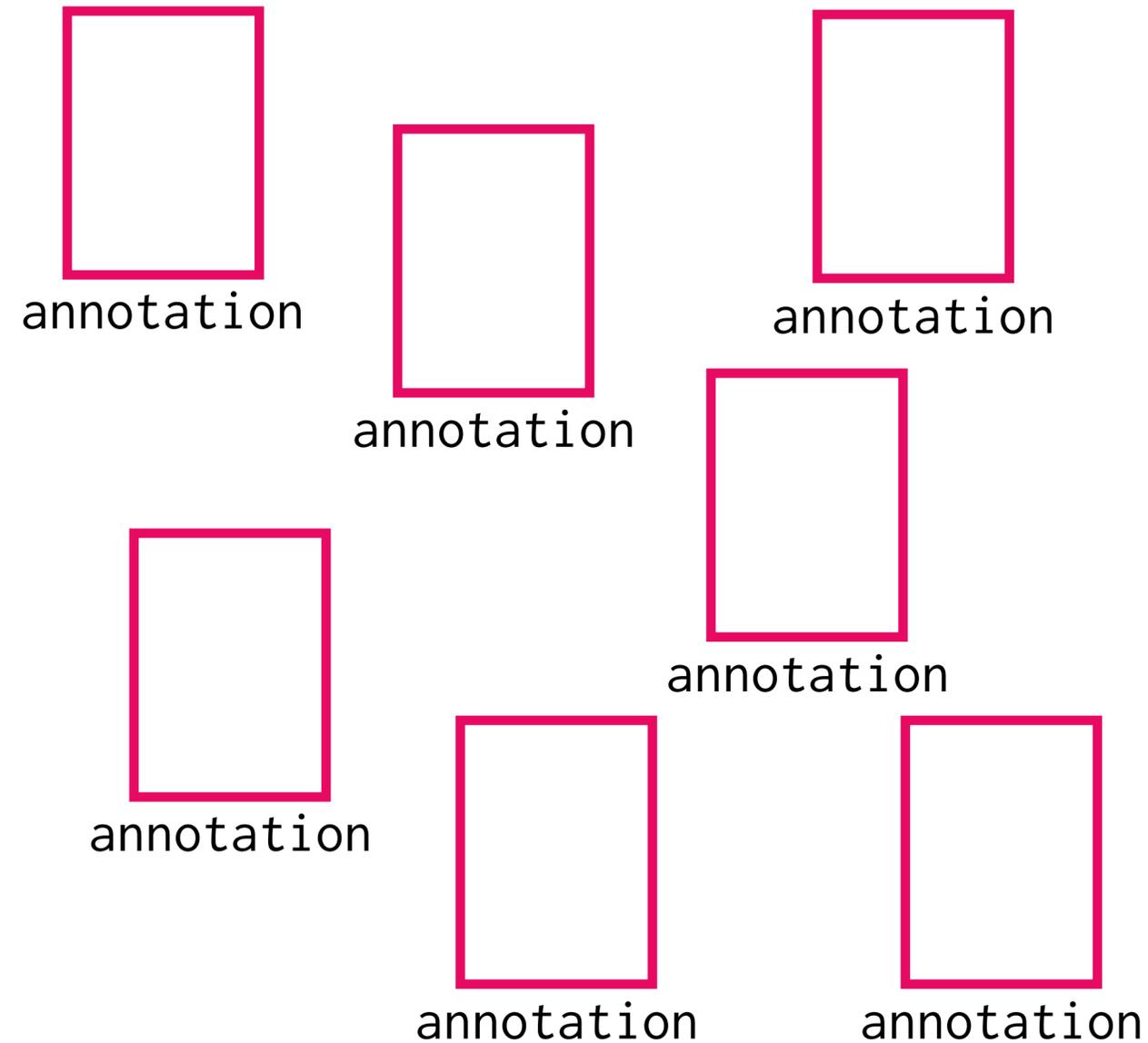


scientists are people

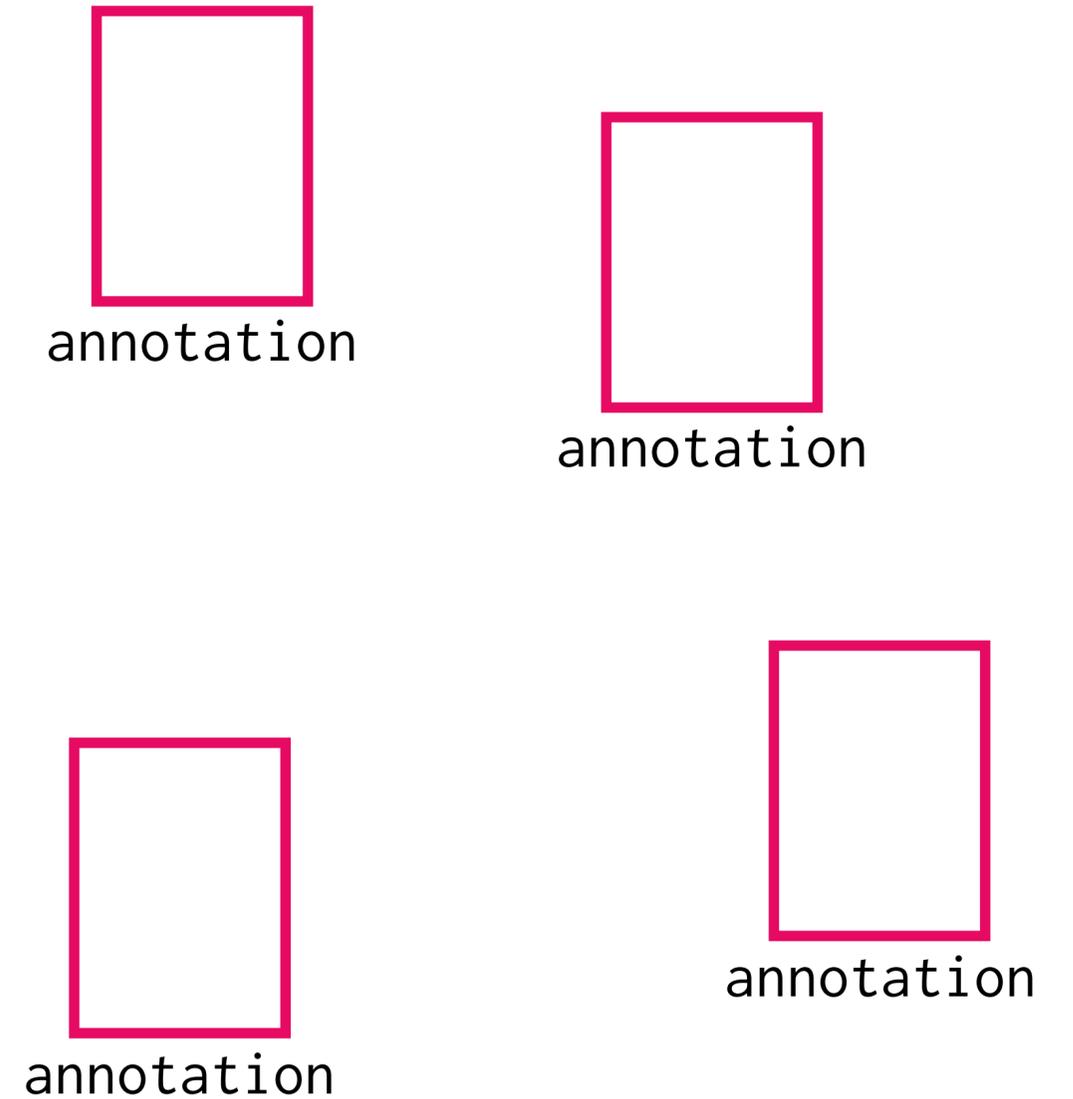


scientists are people

Organizing annotations in groups

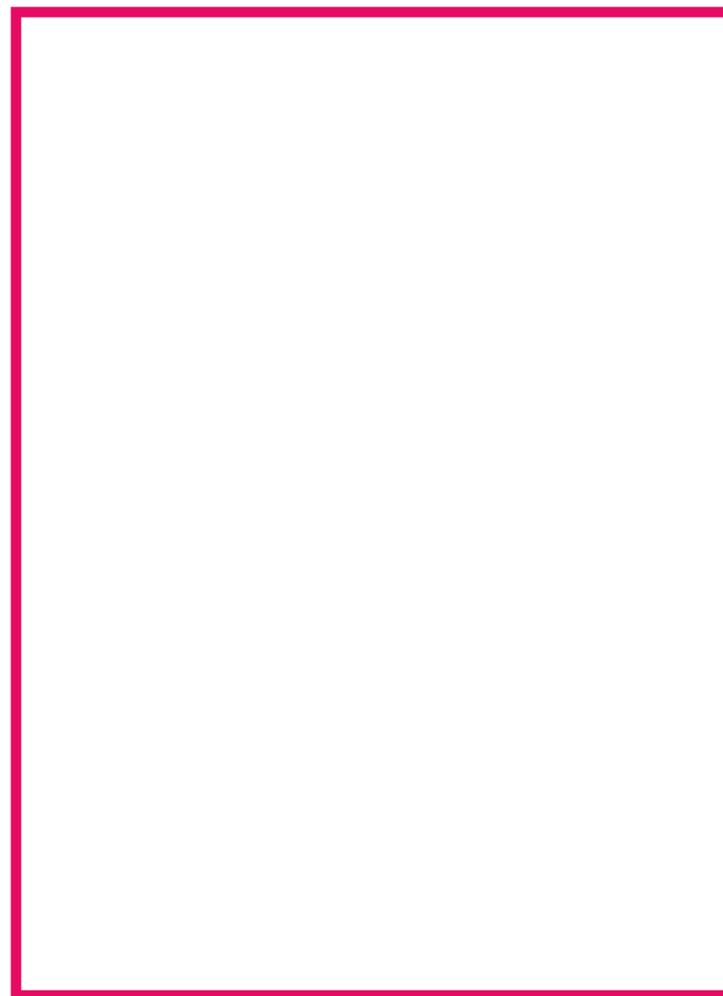


T. Rex diet research



fun facts about squirrels

Tagging



annotation

#t-rex-lies

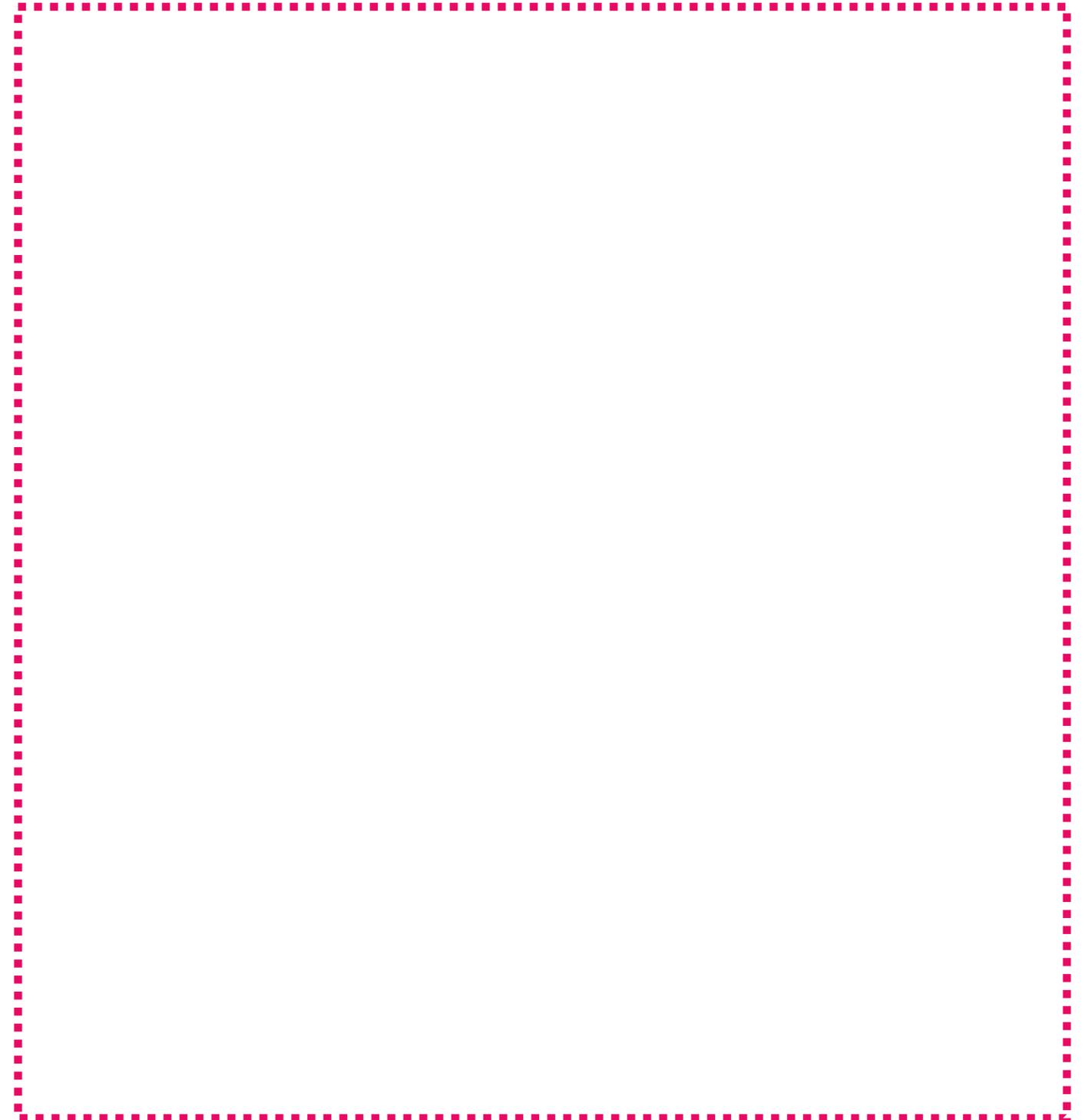
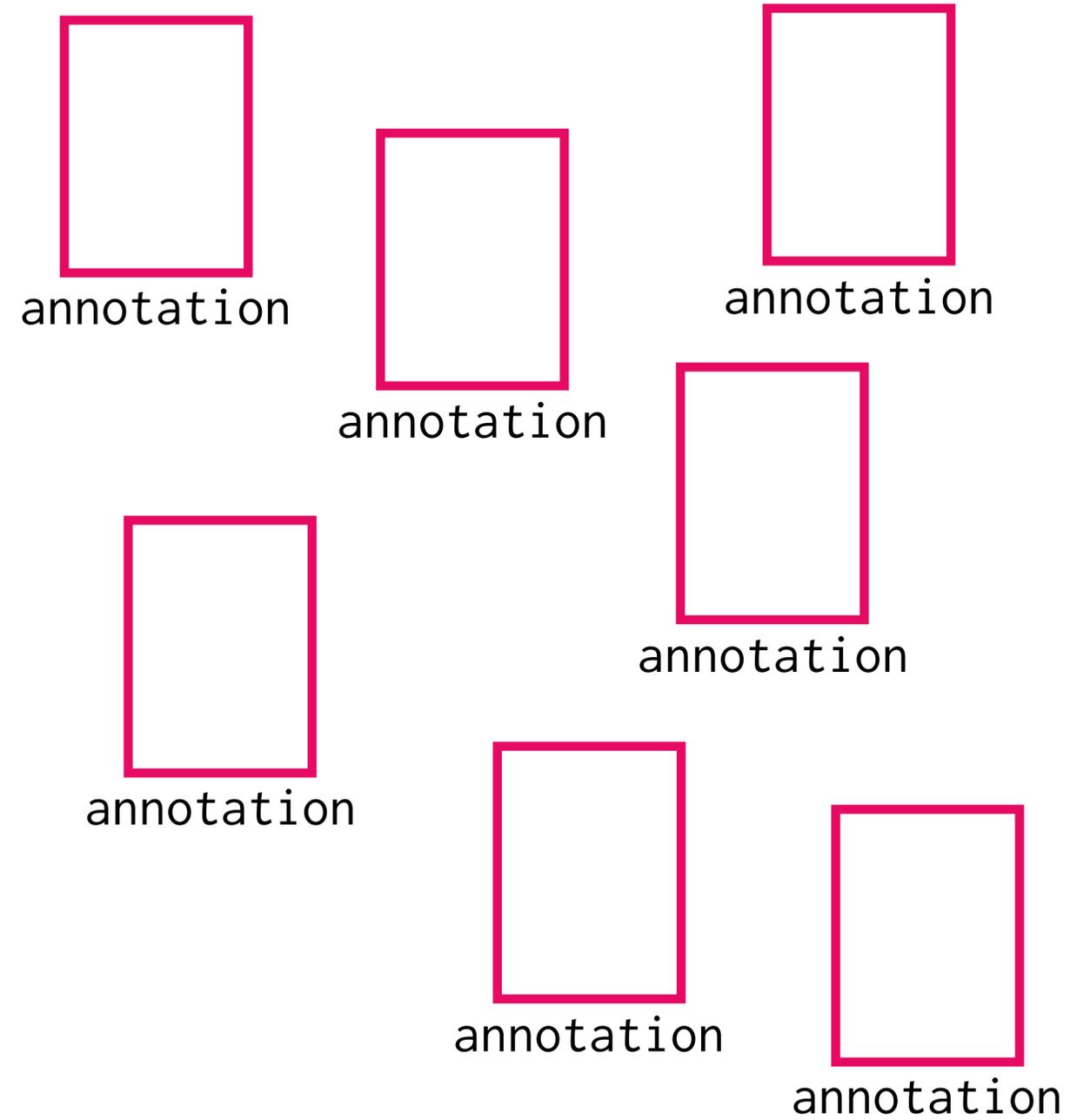
#followup

Standard is extensible

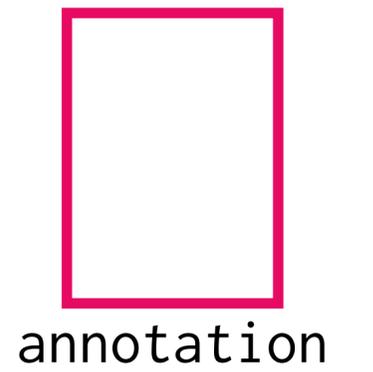
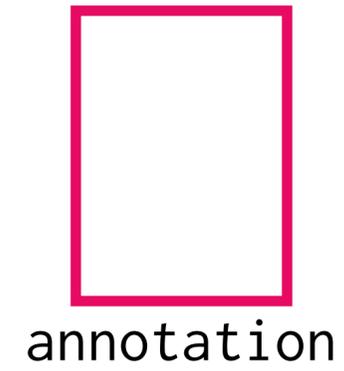
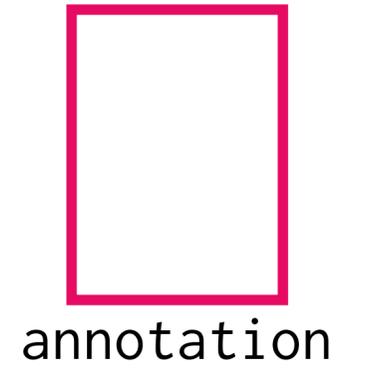
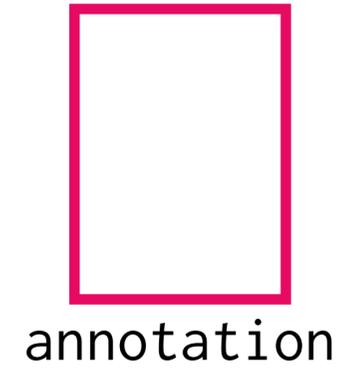
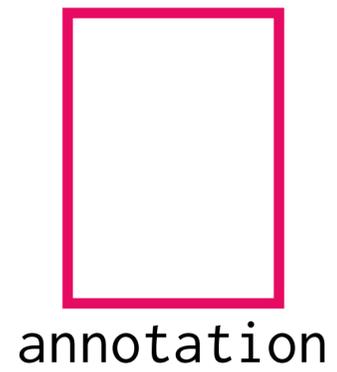
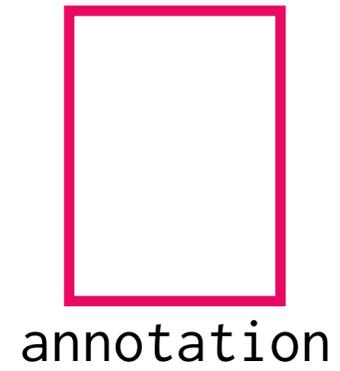
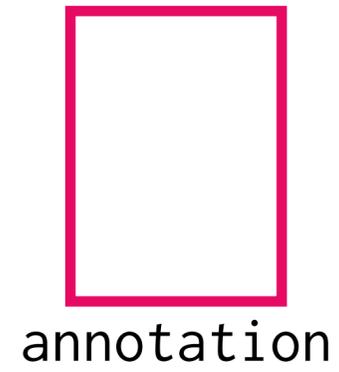


**Web Annotation
Standard**

Interoperability



Interoperability



but there are some challenges



DOI

D

O

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D*igital*

O*bject*

I*dentifier*

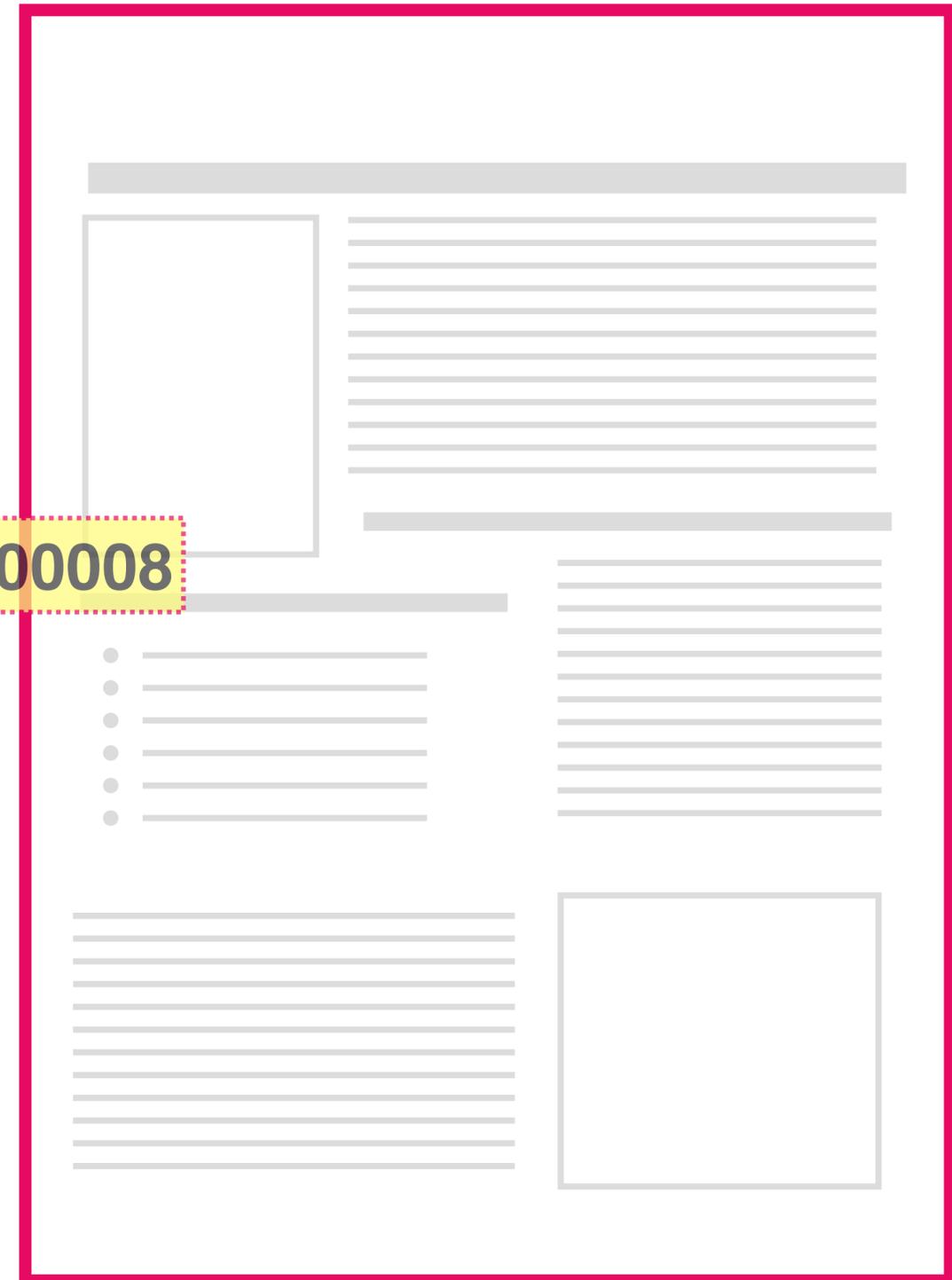


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doi:10.1037/rmh0000008

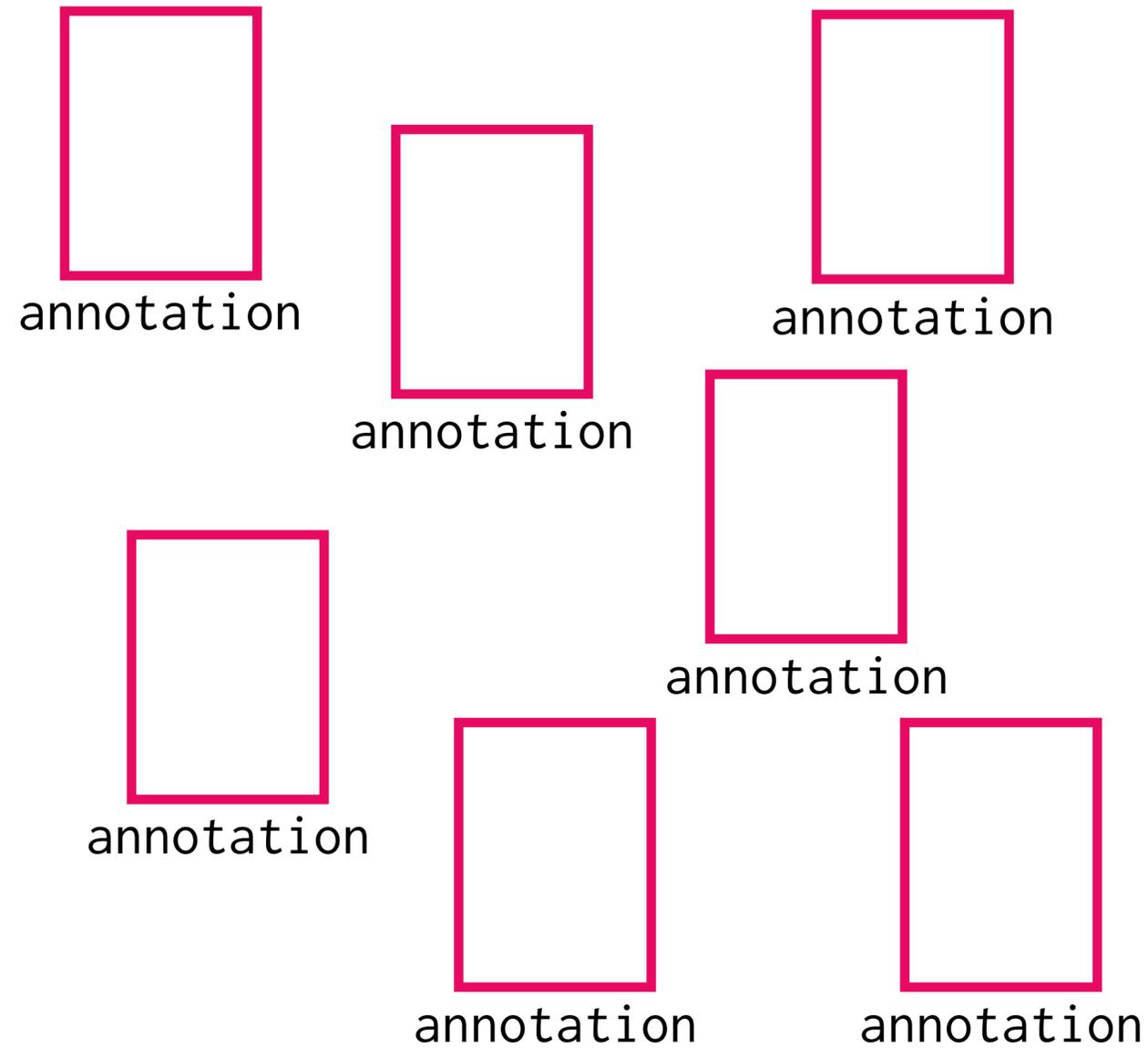
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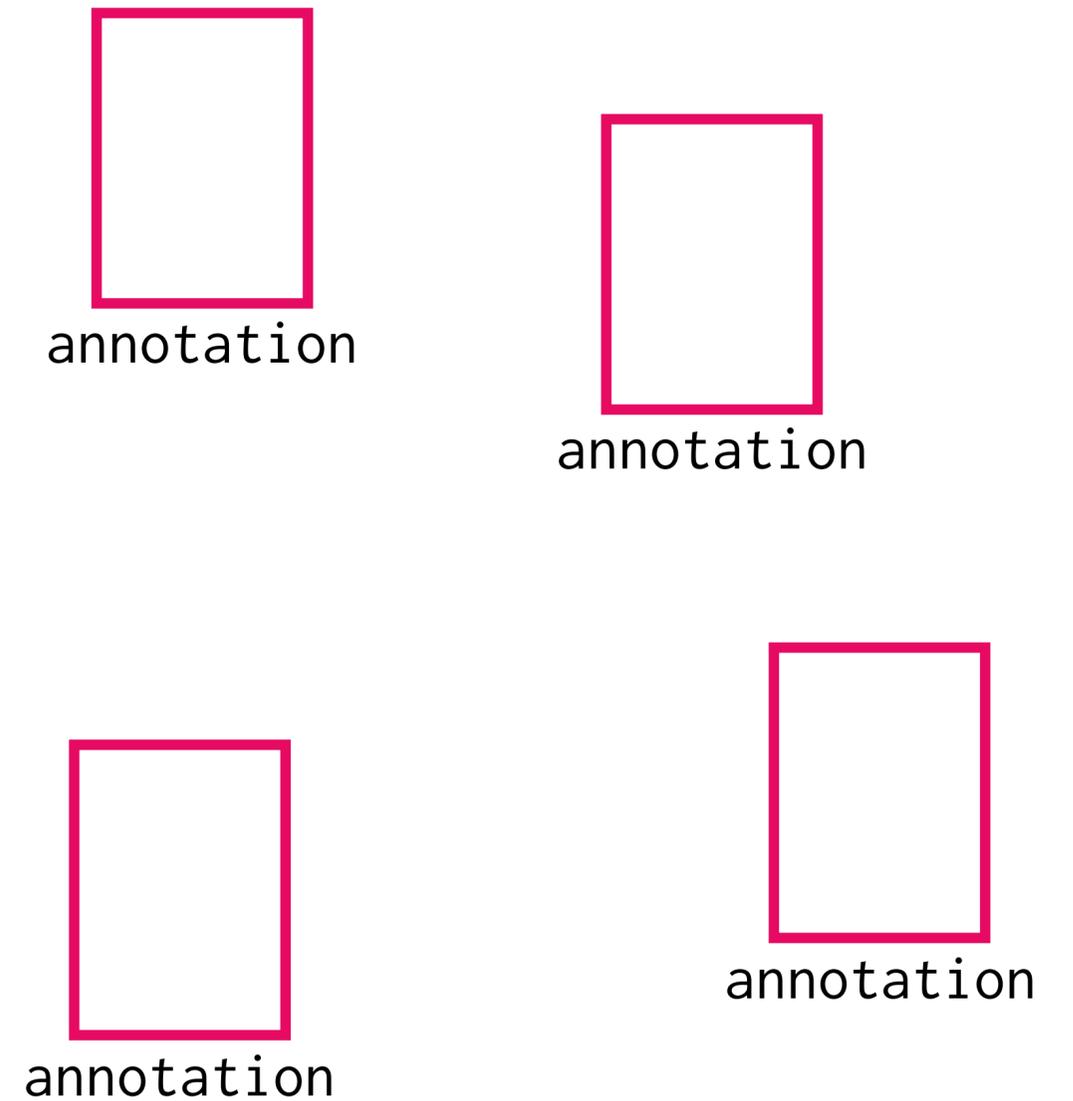


doi:10.1037/rmh0000008

Moving annotations around

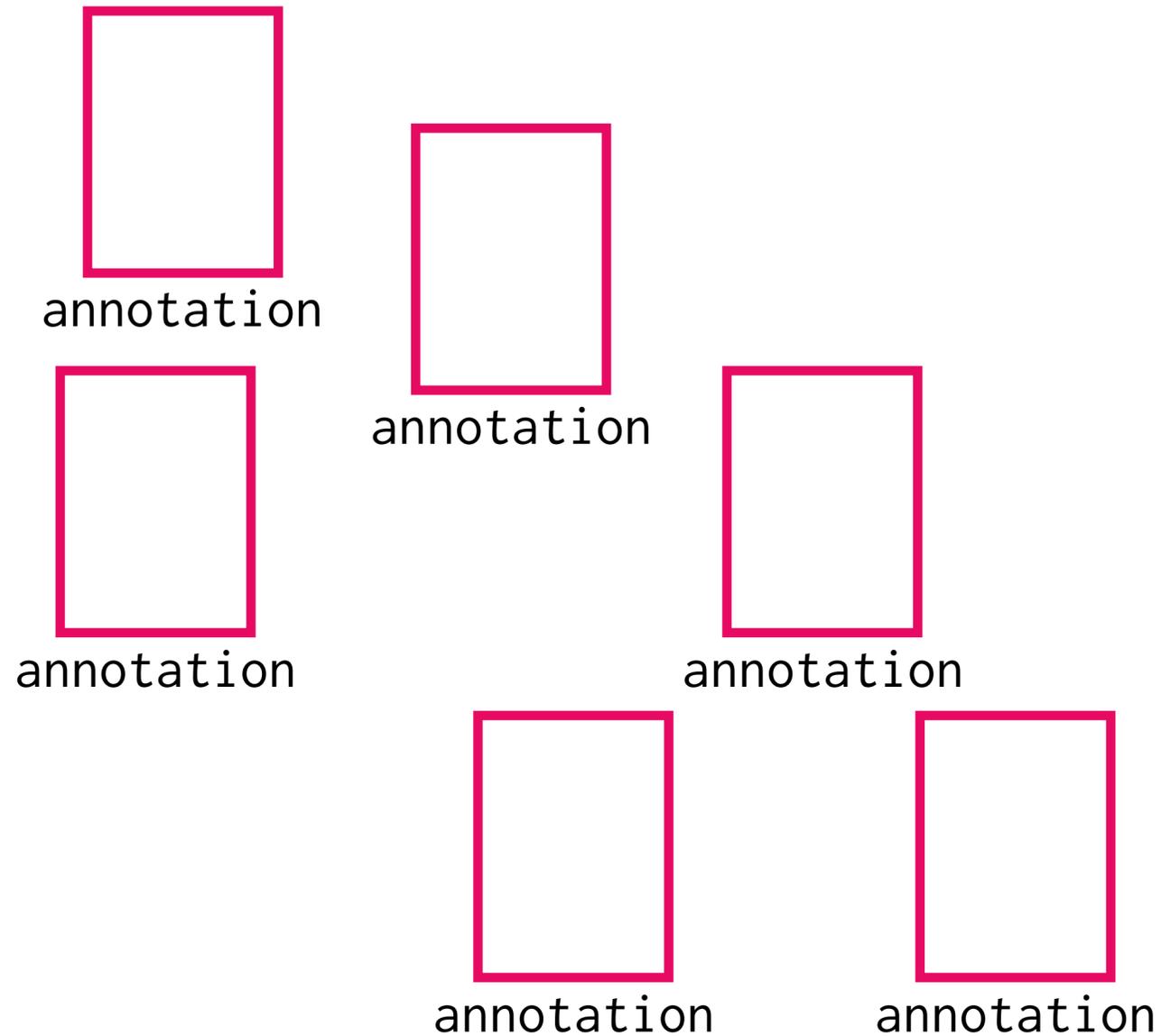


T. Rex diet research

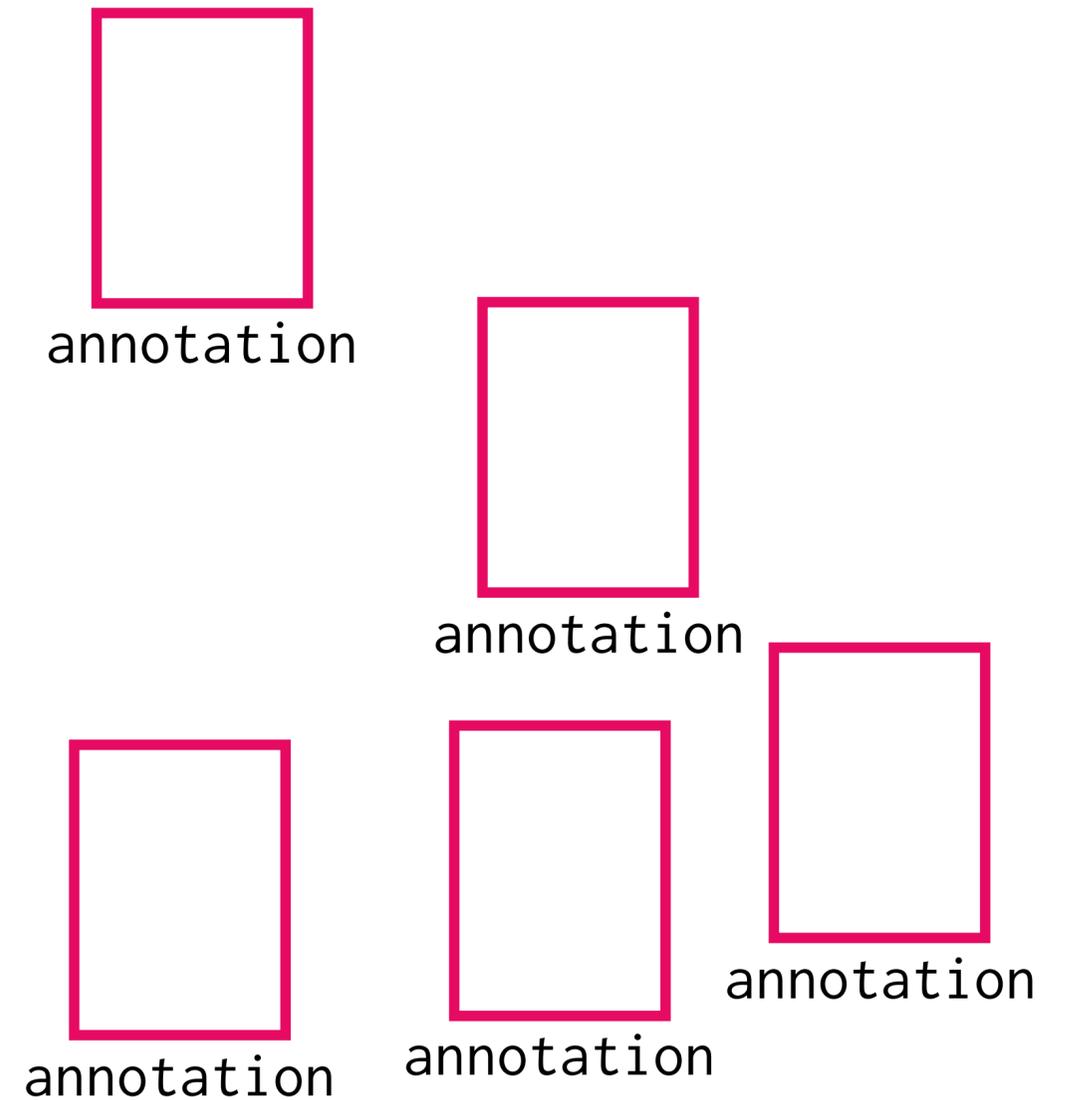


fun facts about squirrels

Moving annotations around



T. Rex diet research



fun facts about squirrels

SciBot

SciBot

A tool and companion service used to:

- find RRIDs in articles
- look them up in the SciCrunch resolver
- create Hypothesis annotations that anchor to the RRIDs and display lookup results

Getting Started

- [Create a Hypothesis](#) account which will post the annotations.
- Generate an api token at <https://hypothes.is/profile/developer> (must be logged in to see page).
- Create a group to store the annotations at <https://hypothes.is/groups/new> (must be logged in to see page).
- See [Setup on amazon](#)

Capturing the bookmarklet

Visit <http://HOST:PORT/bookmarklet> and follow the instructions.

Using the bookmarklet

Visit an article that contains RRIDs, click the bookmarklet

Checking results in the browser

The found RRIDs are logged to the JavaScript console

Checking results on the server

The found RRIDs are logged to timestamped files, along with the text and html of the article that was scanned for RRIDs

<https://github.com/SciCrunch/scibot>

“

”

“Some things are dead ends: but that’s what you get in a big, chaotic system... You rip it apart and you try it again.”

The web is...

a vast, imperfect universe

Web Annotations

are a part of that vast, imperfect universe

Web annotations are...

Web annotations are...

noble

Web annotations are...

noble practical

Web annotations are...

noble practical ours

Web annotations are...

noble practical ours brilliant

Web annotations are...

practical ours brilliant flawed

Web annotations are...

ours brilliant flawed uncontrollable

Web annotations are...

lawed uncontrollable democratic

freedom vs. control

always a tension on the web

expression vs. the trolls

always a tension on the web

expression vs. the trolls

always a tension on the web



flexible vs. specific

always a tension on the web

the
TYRANNY
of
ABSTRACTION

open vs. proprietary

always a tension on the web

technology vs. culture

always a tension on the web

Web Annotation

The Web's Conversation Layer

Lyza Danger Gardner | lyza@lyza.com

