

# CREATING AND REUSING SEMANTIC ANNOTATIONS WITH PUNDIT

### **DINI Jahrestagung**

### 27–28 October 2015, Deutsche Nationalbibliothek Frankfurt/Main

http://dini.de/veranstaltungen/jahrestagungen/2015/







**thepund.it** @\_thepundit

# WHAT IS PUNDIT?



THINGS

L PAUSE for a moment, you wretched weakling, and take stock of yourself. Who are you, and what have you deserved, to be called like this by our Lord? How sluggish and slothful the soul that does not respond to Love's attraction and invitation!

At this stage, wretched man, you must keep an eye on your enemy. You must not think yourself any holier or better because of the worthiness of your calling, and because you live the solitary life. Rather the opposite: you are even more wretched and cursed unless you are doing your very best to live answerably to your calling, helped as you are by grace and direction. You ought to be all the more humble and loving to your spiritual husband who is

and see how you fare. God is ready when you are, and is waiting for you. But what am I to do, you say, and how am I to 'lay hold'?

3 LIFT up your heart to God with humble love: and the difference mean God himself and not of the love and the prove mean God himself, and not what you get out of him. between Praise Indeed, hate to think of anything but God himself Indeed, hate to think of anything but God himself, so that (who God is) and thanksgiving (wheat forget all created things that he ever made, and the purpose behind them, so that your thought and longing do not turn or reach out to them either in general or in particular. Let

### JUST THINK ABOUT THIS...

intent

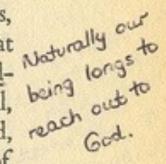
toward

the

backward. See what you still lack, not what you have already; for that is the quickest way of getting and keeping humility. Your whole life now must be one of longing, if you are to achieve perfection. And this longing must be in the depths of your will, put there by God, with your consent. But a word of warning: he is a jealous lover, and will brook no rival; he will not work in your will if he has not sole charge; he does not ask for help, he asks for you. His will is that you should look at him, and let him have his way. You must, however, guard your spiritual windows and doorways against enemy attacks. If you are willing to do this, you need only to lay hold upon God humbly in NEEDED FOR prayer, and he will soon help you. Lay hold of him then,

1. humility - steptiess effort or cooperation with 60 grace to God. in purgatory find their pain eased by virtue of your work. And in no better way can you yourself be made clean or virtuous than by attending to this. Yet it is the easiest work of all when the soul is helped by grace and has a conscious longing. And it can be achieved very quickly. Otherwise it is hard and beyond your powers.

Do not give up then, but work away at it till you have this longing. When you first begin, you find only darkness, a naked and as it were a cloud of unknowing. You don't know what fast intention reaching out towards God. Do what you will, being out to this darkness and this cloud remain between you and God, reach out to and stop you both from seeing him is done in the second of the God in depths and stop you both from seeing him in the clear light of of your being



Boar

image

He has done.)

the basis

for this?

### ANNOTATIONS... ON THE WEB

### Full page annotation

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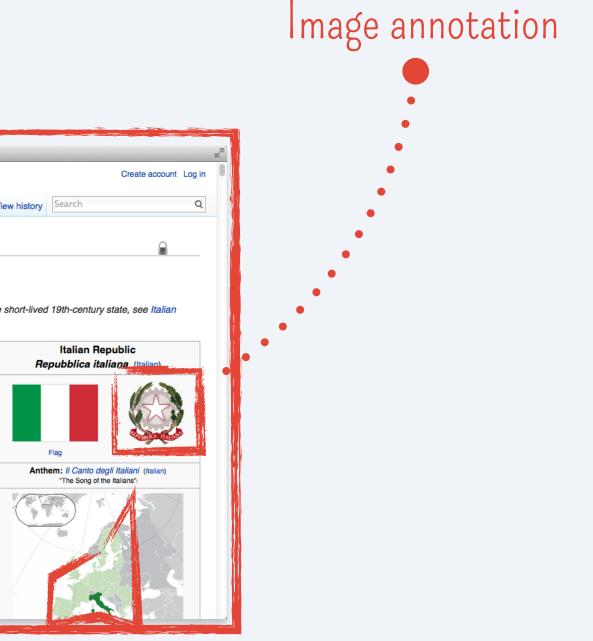


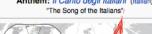
This article is about the republic. For other uses, see Italy (disambiguation).

"Italia" and "Italian Republic" redirect here. For other uses, see Italia (disambiguation). For the short-lived 19th-century state, see Italian Republic (Napoleonic).

Italy (1/1teli/; Italian: Italia [i'ta:lja]), officially the Italian Republic (Italian: Republica italiana),[7][8][9][10] is a unitary parliamentary republic in Europe. Italy covers an area of 301,338 km<sup>2</sup> (116,347 sq mi) and has a largely temperate climate; due to its shape, it is often referred to in Italy as Stivale (the Boot).<sup>[11][12]</sup> With 61 million inhabitants, it is the 5th most populous country in Exope. Italy is a very highly developed country<sup>[13]</sup> and has the third Eurozone and the eighth-largest in the world.<sup>[14]</sup>

Since ancient times, Etruscan, Magna Graecia and other cultures have flourished in the territory of present-day Italy, being eventually absorbed by Rome, that has for centuries remained the leading political and religious centre of Western civilisation, capital of the Roman Empire and Christianity. During the Dark Ages, the Italian Peninsula faced calamitous invasions by barbarian tribes, but beginning around the 11th century, numerous Italian citystates rose to great prosperity through shipping, commerce and banking (indeed, modern capitalism has its joots in Medieval Italy).<sup>[15]</sup> Especially during The Renaissance, Italian culture thrived, preducing scholars, artists, and polymaths such as Leonardo da Vinci, Galileo, Michelangelo and Machiavelli, Italian explorers such as Polo, Columbus, Vespucci, and Verrazzano disc vered new routes to the Far East and the New World, helping to usher in the European Age Discovery. Nevertheless, Italy would remain fragmented into many warring states for the lest of the Middle Ages, subsequently falling prey to larger European powers and later A stria Italy wayld thus antar a long pariod of d







Text fragment annotation



Image fragment annotation

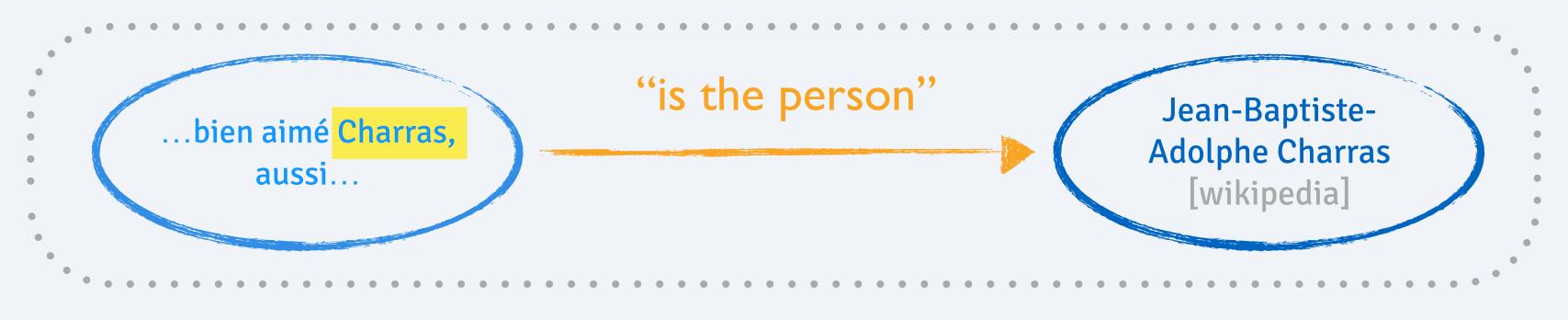
# WHAT KIND OF ANNOTATIONS?

### Semantic annotations Comments Highlights

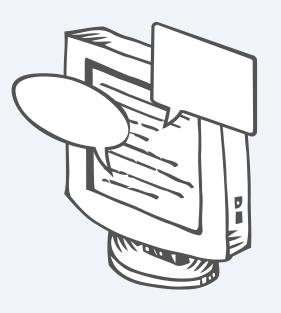


# SEMANTIC ANNOTATIONS

- Simply speaking Semantic Annotations consist of triples with:
  - A. the information that is annotated (**Subject**);
  - B. the content of the annotation itself (**Object**);
  - C. a predicate, that establishes a relationship amongst the two points above (**Predicate**);



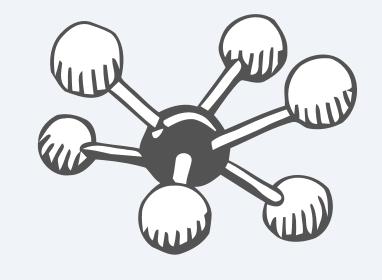
# WHY DO YOU NEED PUNDIT?



Create knowledge and enrich the web

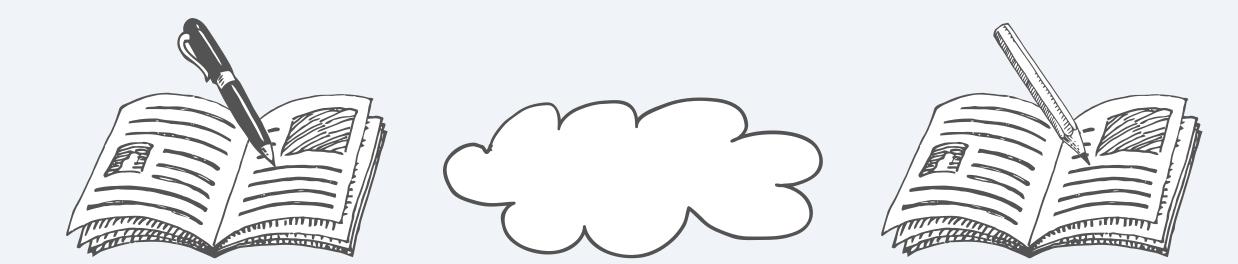


### Reuse the LOD



### Share and reuse

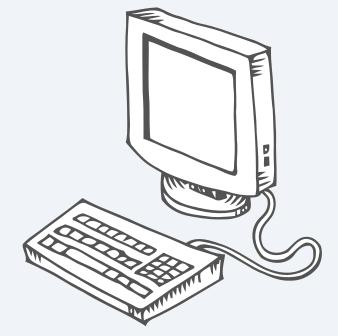
### PUNDIT COMPONENTS



Pundit Annotator Pro

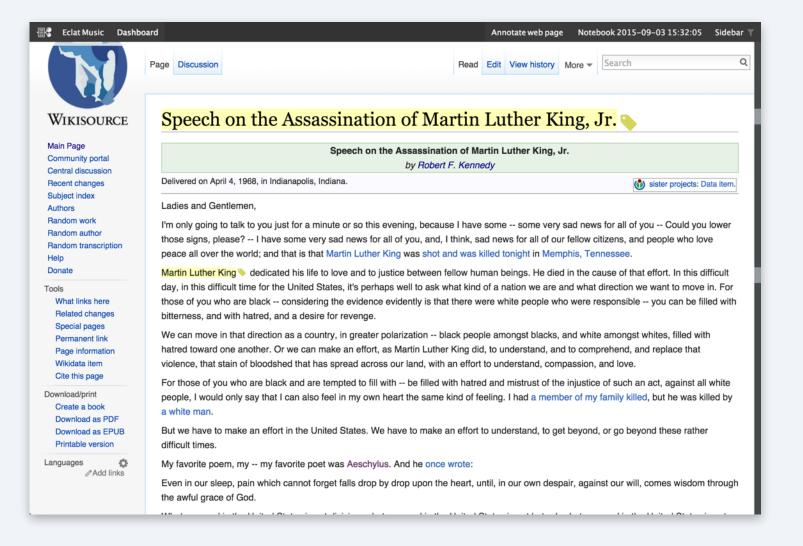
Annotation server

Pundit Annotator Light



### Annotations Manager

# PUNDIT ANNOTATOR PRO



- browser
- Allows the creation of whole web pages
- compose triples

### Web application running in the

# semantic annotations using text fragments of web pages or LOD entities can be used to

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### Speech on the Assassination of Martin Luther King, Jr.

Speech on the Assassination of Martin Luther King, Jr.

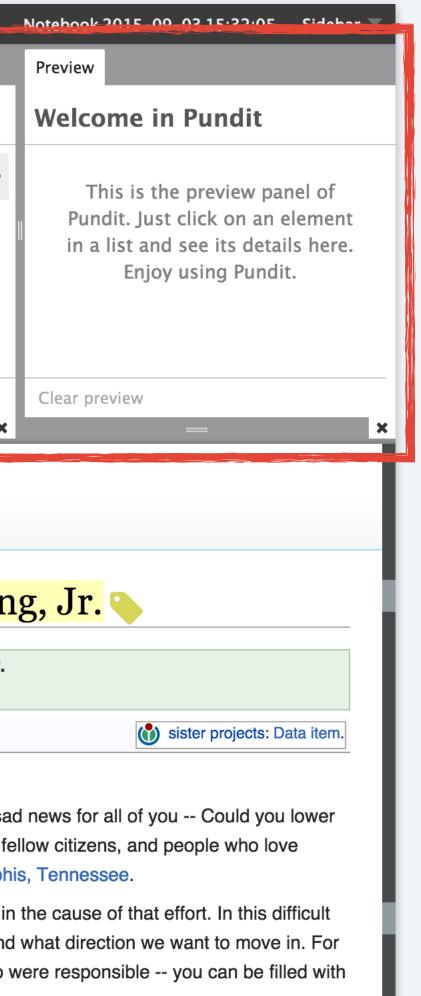
by Robert F. Kennedy

Delivered on April 4, 1968, in Indianapolis, Indiana.

Ladies and Gentlemen,

I'm only going to talk to you just for a minute or so this evening, because I have some -- some very sad news for all of you -- Could you lower those signs, please? -- I have some very sad news for all of you, and, I think, sad news for all of our fellow citizens, and people who love peace all over the world; and that is that Martin Luther King was shot and was killed tonight in Memphis, Tennessee.

Martin Luther King Sedecated his life to love and to justice between fellow human beings. He died in the cause of that effort. In this difficult day, in this difficult time for the United States, it's perhaps well to ask what kind of a nation we are and what direction we want to move in. For those of you who are black -- considering the evidence evidently is that there were white people who were responsible -- you can be filled with bitterness, and with hatred, and a desire for revence.





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### Speech on the Assassination of Martin Luther King, Jr.

Speech on the Assassination of Marti	n Luther King,
Jr.	
by Robert F. Kennedy	
Delivered on April 4, 1968, in Indianapolis, Indiana.	sister projects: Data item.

Ladies and Gentlemen,

Page Discussion

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We can move in that direction as a country, in greater polarization -- black people amongst blacks, and white amongst whites, filled with hatred toward one another. Or we can make an effort, as Martin Luther King did, to understand, and to comprehend, and replace that violence, that stain of bloodshed that has spread across our land, with an effort to understand, compassion, and love.

For those of you who are black and are tempted to fill with -- be filled with hatred and mistrust

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Annotations filters (2/2)

Speech on the Assassination of Martin Lu.

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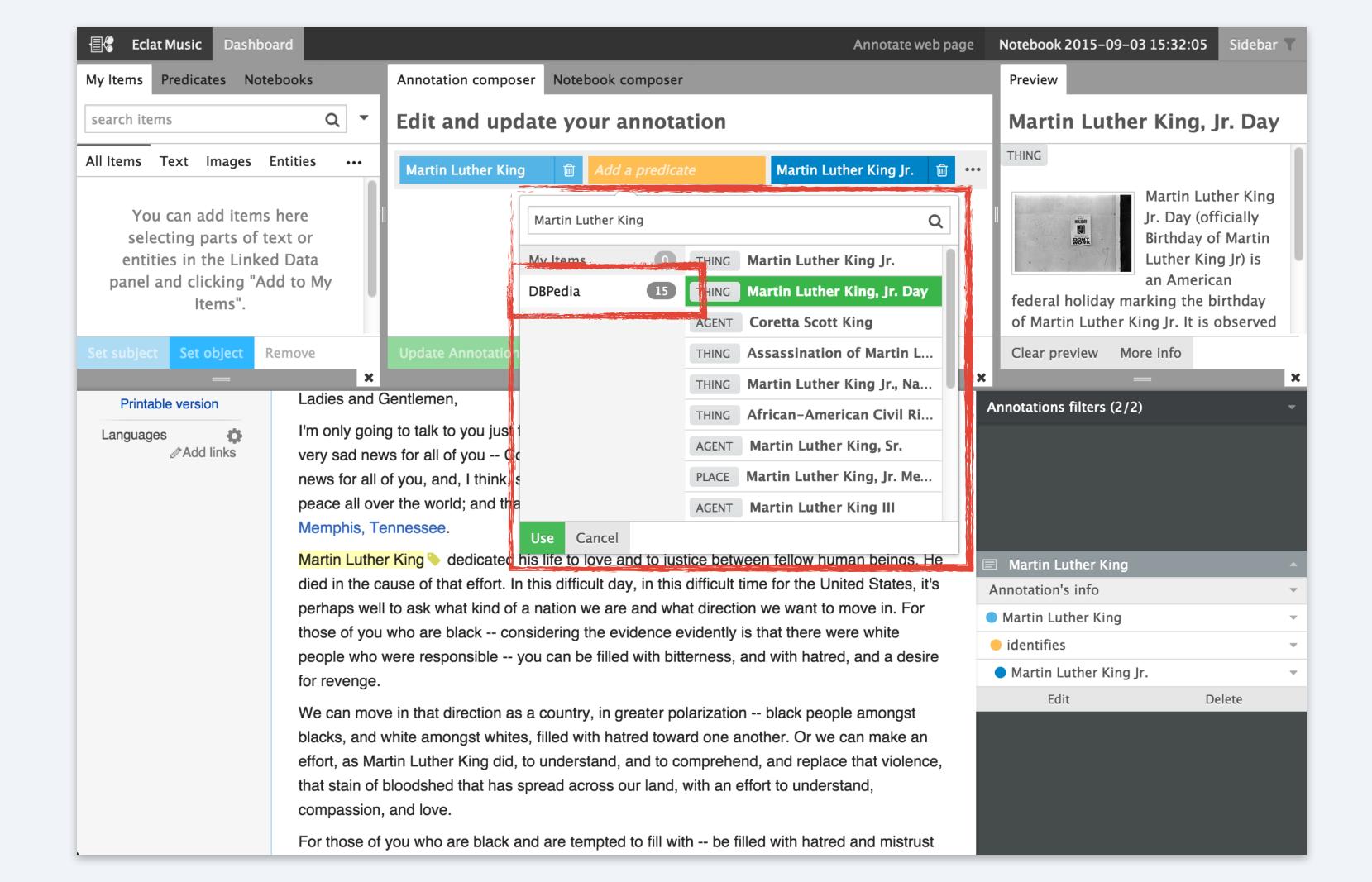
Martin Luther King

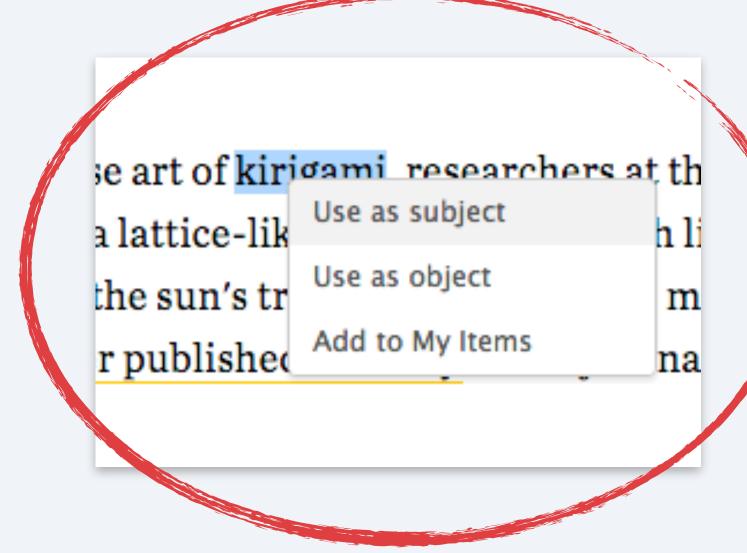
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Martin Luther King Jr.

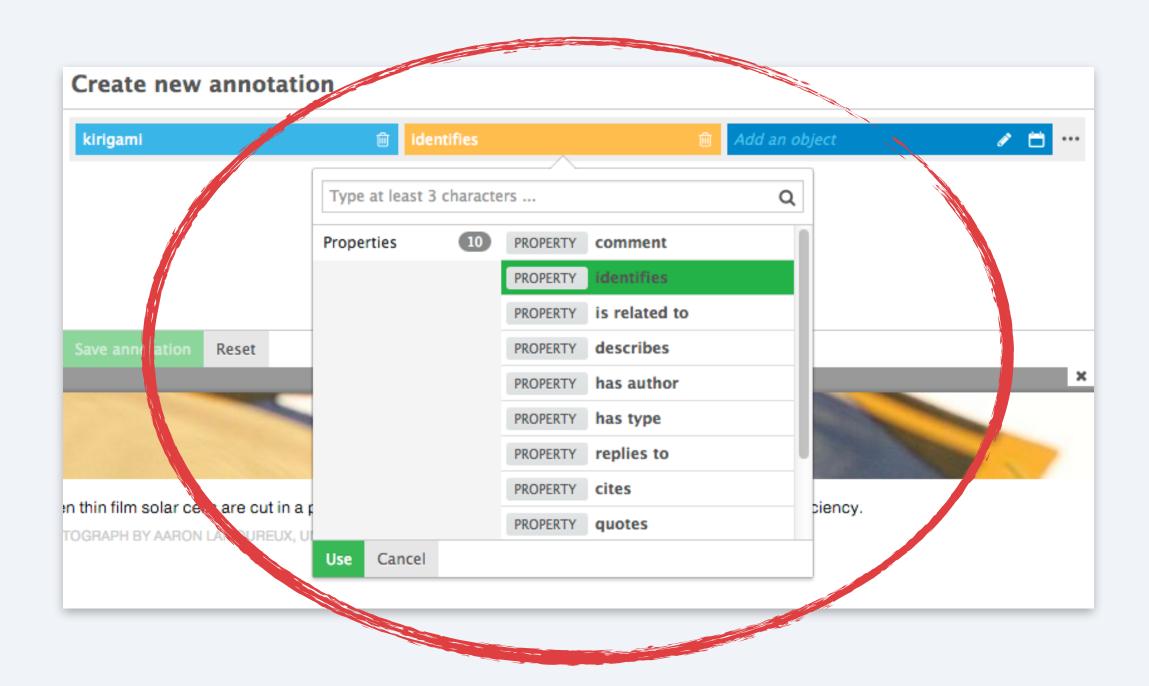
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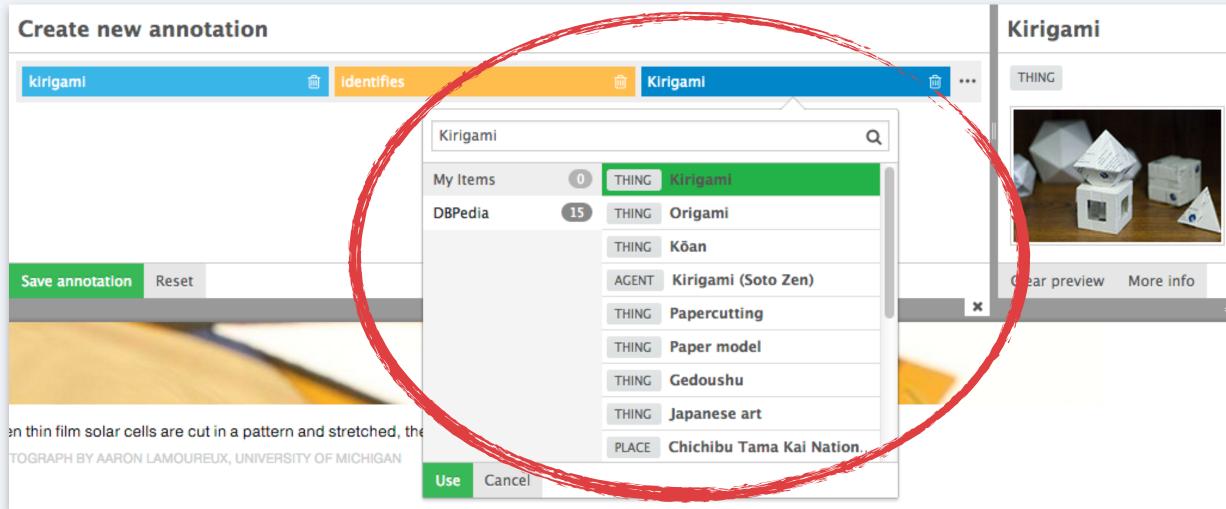
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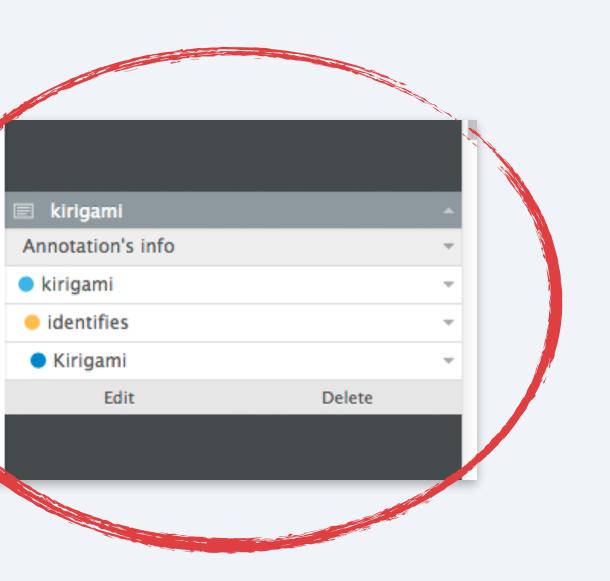


is a variation of origami that includes cutting of the paper (from Japanese "kiru" = to cut, "kami" = paper), rather than solely folding the paper as is the case with origami. It is also called "Kirie" (切り絵).

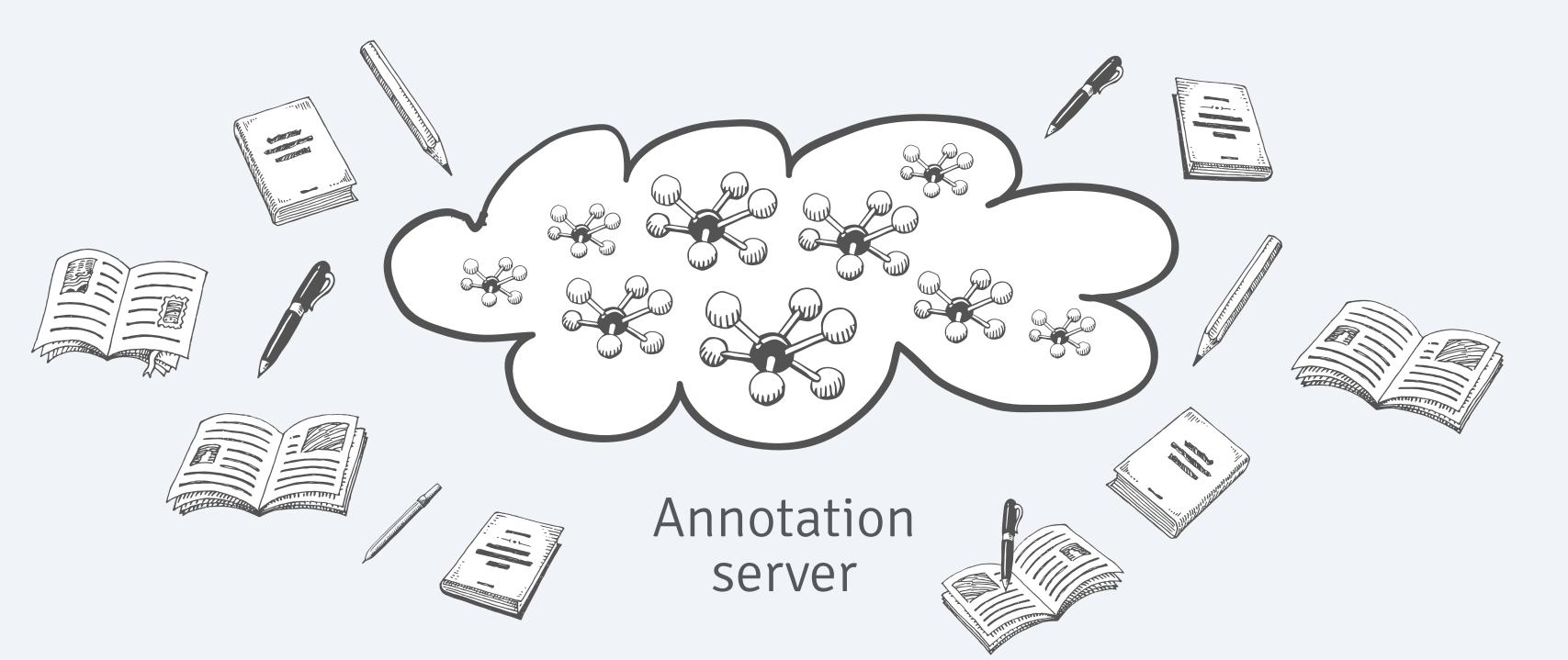
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banese art of kirigami >, researchers at the University of ated a lattice-like cell that can stretch like an accordion, long the sun's trajectory and capture more energy. They detail published Tuesday in the journal *Nature Communication* s.

ا basic problem with solar arrays: The sun moves; panels at means energy is lost as the sun changes position, unless



### ANNOTATION SERVER



Web Annotation Data Model defined by the Web Annotation Working Group of W3C



# PUNDIT ANNOTATOR LIGHT

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Tools

### Speech on the Assassination of Martin Luther King, Jr.

	Speech on the Assass	sination of Martin Luther King, Jr.
	by R	obert F. Kennedy
Delivered on A	pril 4, 1968, in Indianapolis, Indiana.	sister projects: Data iter
Ladies and G	entlemen,	
those signs, p		ecause I have some some very sad news for all of you Could you lower and, I think, sad news for all of our fellow citizens, and people who love peac d was killed tonight in Memphis, Tennessee.
	, , , , , , , , , , , , , , , , , , ,	n fellow human beings. He died in the cause of that effort. In this difficult day that kind of a nation we are and what direction we want to move in. For thos
of you who a bitterness, a	Write your comment!	vere white people who were responsible you can be filled with
	Write your comment!	vere white people who were responsible you can be filled with k people amongst blacks, and white amongst whites, filled with hatre l, to understand, and to comprehend, and replace that violence, that erstand, compassion, and love.
bitterness, a We can mov toward one a	Write your comment! Save comment in July notebook ~	k people amongst blacks, and white amongst whites, filled with hatre I, to understand, and to comprehend, and replace that violence, that

Printable version Languages ÷Ö Add links

Even in our sleep, pain which cannot forget falls drop by drop upon the heart, until, in our own despair, against our will, comes wisdom through the awful grace of God

What we need in the United States is not division; what we need in the United States is not hatred; what we need in the United States is not violence and lawlessness, but is love, and wisdom, and compassion toward one another, and a feeling of justice toward those who still suffer within our country, whether they be white or whether they be black.

So I ask you tonight to return home, to say a praver for the family of Martin Luther King -- yeah, it's true -- but more importantly to say a praver

### Easy and friendly interface Less features than the Pro

- version
- Text highlight features
- Total integration with the Pundit environment
- Social features

# Fast textual comments creation

## MORE FUTURE FEATURES

### Templates Faster annotation

• Ann-o-matic

Entity extraction

Image annotation Image fragment annotation •



# TECHNOLOGY

### **Pundit Annotator Pro/Light** HTML, CSS (LESS), Javascript, Angular JS

### **Annotation Server**

 Java, Symfony, Sesame (GraphDB<sup>™</sup> Standard Edition), MySql, Solr

# PROJECTS USING PUNDIT

- StoM (SemLib to Market) Europeana Sounds
- ERC-ADG-Looking at words through
- images
- ERC-ADG-The European Correspondence to Jacob Burckhardt (just released!)

# REUSING DATA



# ANNOTATIONS IN WEB PAGES

### ates Declaration of ence (engrossed copy)

ed States Declaration of Independence (as it was written))

### **Jnited States Declaration of Independence**

### (the engrossed copy)

by the United States Government

- al Congress ordered on 19 🎲 related portals: Constitutional documents by of the Declaration be (i) sister projects: Data item ent. It was Timothy Matlack
- appears on this most famous of copies. This online version contains ng as it appears in the original written document, including usage of the



rse of human events, it for one people to difsolve



The United States Declaration of Independence

which have connected them with another, and to assume among arth, the feparate and equal ftation to which the Laws of Nature od entitle them, a decent respect to the opinions of mankind

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Timothy Matlack	~
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<b>■</b> July 4, 1776	

Annotations filters (4/4)

- they were created



### The essential way of reusing annotations is finding them in the context of the page where

 Social interaction is a starting point for more enrichment.

# ANNOTATIONS MANAGER

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ooks	Think about what else would be relevan	nt to these mobile users, and for some competitive insig presence. Your desktop site was created to support so	th (and possibly inspiration), take a look at what

- Centralized annotations management
- Notebooks management
- Pro and Light
- result **filtering**
- Semantic tools for advanced search performance
- Annotations export

# Integration with both Annotator

# Advanced search tools and search

J.BURCKHARDT

Homepage

Browse

### Faraway The World Wide before the Web

The collection Faraway includes sixteen fascinating letters sent to Jacob Burckhardt by notable learned men from around the world.



### Collections



Potnia

Read



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Read



Read







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### Highlights



From Mathilde Charras-Kestner To Jacob

### FROM-valbusa-diego-TO-burckhardt-jacob-1874-10-13

Mantova, 13 ottobre 1874.

Illustre Signore

Ho tardato qualche giorno a rispondere alla cortese lettera di V. S. per poterle dar notizia del libro speditomi, che effettivamente mi fu consegnato jeri. Dal rapido sguardo che ho dato alle note e addizioni manoscritte mi sono persuaso che anche la scrittura del sig. professore Kugler > è abbastanza leggibile, per cui ho fiducia di poter decifrare il tutto senza molta fatica e con la maggiore fedeltà ed esattezza possibile.

Le trattative col Sansoni S, dopo molto esitare, hanno finalmente sortito l'esito desiderato. Con lettera del 7 corrente S egli accetta definitivamente la pubblicazione della mia traduzione. Questa pubblicazione S si farà in due volumi di mole pressochè uguale e del formato di quelli di Le Monnier S. Il primo conterrà i tre primi capitoli, che io chiamo parti, dell'originale; il secondo i rimanenti. Questa divisione s'è adottata per prevenire l'eventuale concorrente romano S, potendo in tal modo il primo volume esser pronto pel gennajo prossimo. – I tipi e la carta non avranno niente da invidiare a quelli del Le Monnier suddetto.

Resta ora ch'io senta il parere di V. S. su qualche piccola modalità.

1º. Chiamando <u>parti</u> quelle che l'originale denomina <u>Abschnitte</u>, non potrebbe ciascuna di esse venir suddivisa in capitoli secondo la ripartizione dell'Indice generale indicata con caratteri più rilevati e precisamente come nel prospettino qui annesso? Gl'intervalli verrebbero ugualmente rispettati, e l'edizione s'accomoderebbe forse più alle esigenze dei lettori italiani.

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9	Compilation plantova	5	<b>From:</b> Valbusa Diego / Mantova <b>To:</b> Burckhardt, Jacob Year: 1874 <b>Identified persons:</b> Gervinus Georg	<b>Q</b>
	Receiing place		Gottfried,Kugler Bernhard,Galascz,Seemann Ernst A.,Sansoni Giulio Cesare	lta Le
	Basel	1	<b>Identified places:</b> Italien, Mantua, Rom, Tübingen, Leipzig	Tü Ro
			Thanks B. for the positive reaction to his proposal of an Italian translation of «Die Kultur der Renaissance in	Ma

Italien». Valbusa heard about a similar project in Rome, he intends to base his version upon Bernhard Kugler's forthcoming new edition of ...

### From: Valbusa, Diego To Burckhardt, Jacob Mantova, 1874, letter 410

**From:** Valbusa Diego / Mantova **To:** Burckhardt, Jacob Year: 1874

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J.BURCKHARI	ТС
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Homepage

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Galascz		2
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It's a bundle of tools:

- Pundit Annotator Light
- Pundit Annotator Pro
- Pundit Annotations Manager

These will provided as a Software as a service (SAAS) with different plans.

# **Pundit**

We can modify Pundit to respond to any special requirement.



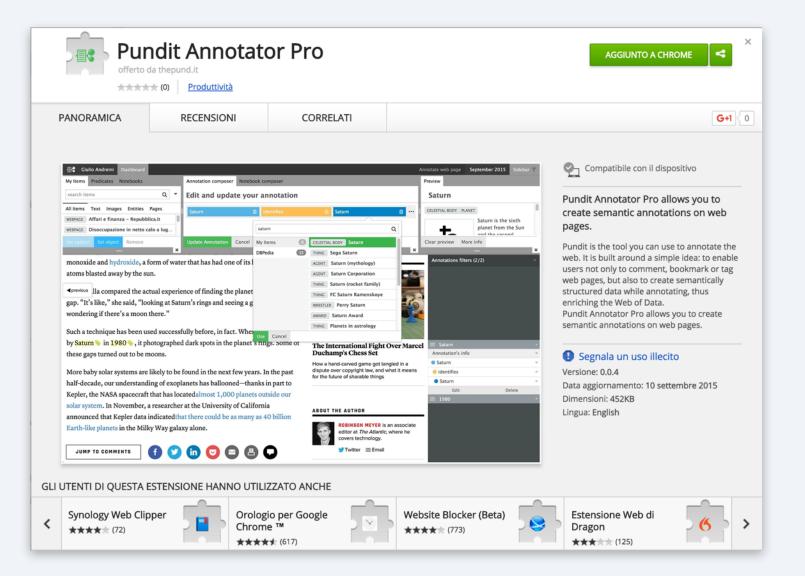
# PUNDIT PRODUCT

# #PUNDITLAB

- Tailor made projects made starting from the Pundit core.
- E.G. For Europeana Sounds and **Ampere** we are implementing some special features.



# CHROME EXTENSION



- and use Pundit Annotator.
- Best for personal use and productivity.
- Auto updates, new features coming for free.
- Stores annotations on central Pundit server.
- Can be installed here: http://tinyurl.com/punditchrome



# Fastest and easiest way to install

# EMBED PUNDIT ANNOTATOR

- Pundit code is hardcoded/embed in HTML pages. Pundit launches automatically.
- Best solutions for Digital Libraries where we want to use Pundit.
- Best solutions for Magazines and Newspapers where we want to start social interaction among users, based on annotations and comments.
- More info here: <u>http://net7.github.io/pundit2</u>

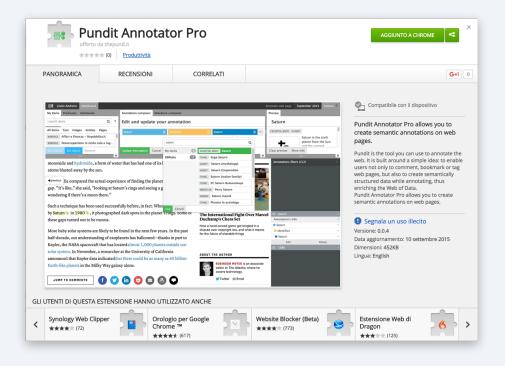
# FEED.THEPUND.IT

- Allows to launch Pundit in web pages without the Chrome Extension and **without** code embedding.
- The URL of the page is appended to the URL: http:// feed.thepund.it/
- Allows to easily select a configuration for Pundit and even a Pundit version.
- Best solutions for web applications where we want to use Pundit without embedding the code (allowing to visit pages also without Pundit).
- More info here: <u>http://net7.github.io/pundit2</u>

# CONTRIBUTE!



# START USING PUNDIT TODAY



### Go to this link:

http://tinyurl.com/punditchrome

... install the Chrome Extension and use it!

**Enrich the web with your semantic annotations!** 



### EMBED PUNDIT IN YOUR PROJECT

normal; letter-spacing: normal; word-spacing: normal;"><div id="MathJax\_Hidden"></div></div></div id="MathJax\_Message" style="disp none;"></div>

<div data-ng-app="Pundit2" class="pnd-wrp ng-scope">
<link rel="stylesheet" href="http://dev.thepund.it/download/client/last-beta/pundit2.css" type="text/css">
<script src="http://dev.thepund.it/download/client/last-beta/libs.js" type="text/javascript" ></script>
<script src="http://dev.thepund.it/download/client/last-beta/pundit2.js" type="text/javascript" ></script>
<script src="http://conf.thepund.it/V2/clients/pundit2\_site\_demo.js" type="text/javascript" ></script>

Go to this page:

http://net7.github.io/pundit2/

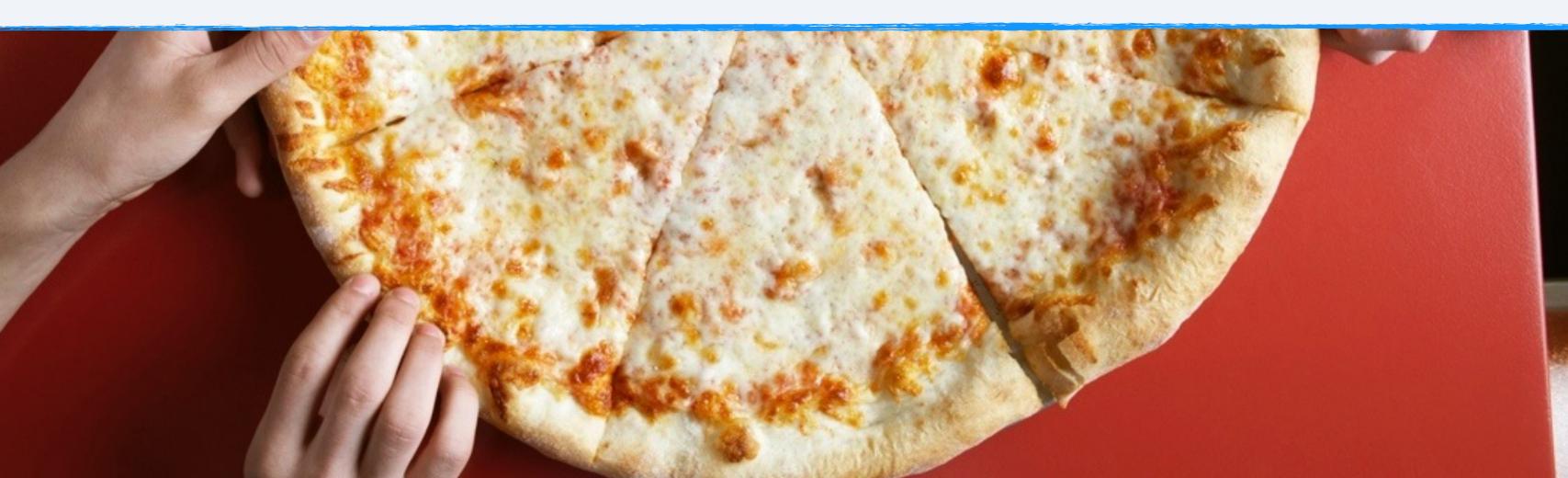
and learn hot to embed Pundit in your Digital Library or web site.

Contact Net7 for support!

### <u>ndit2/</u> ur Digital



# PUNDIT IS OPEN SOURCE



### **Pundit**

# THANK YOU FOR WATCHING!

Pundit website Chrome Extension Developers site Pundit presentation video Giulio Andreini Net7, Pisa

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