



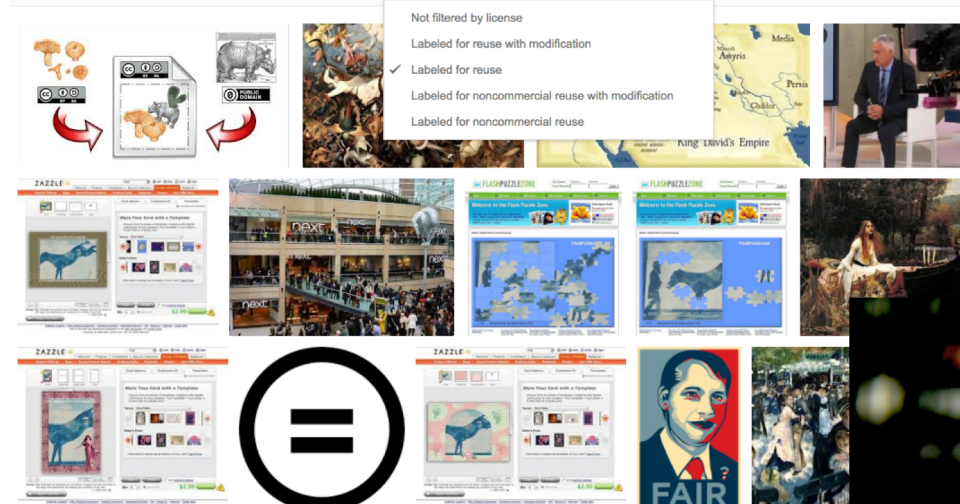
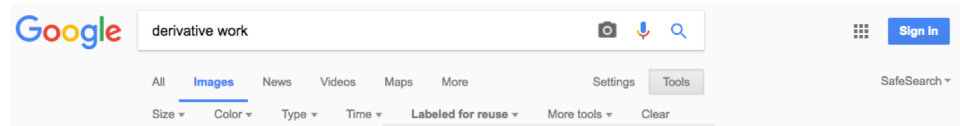
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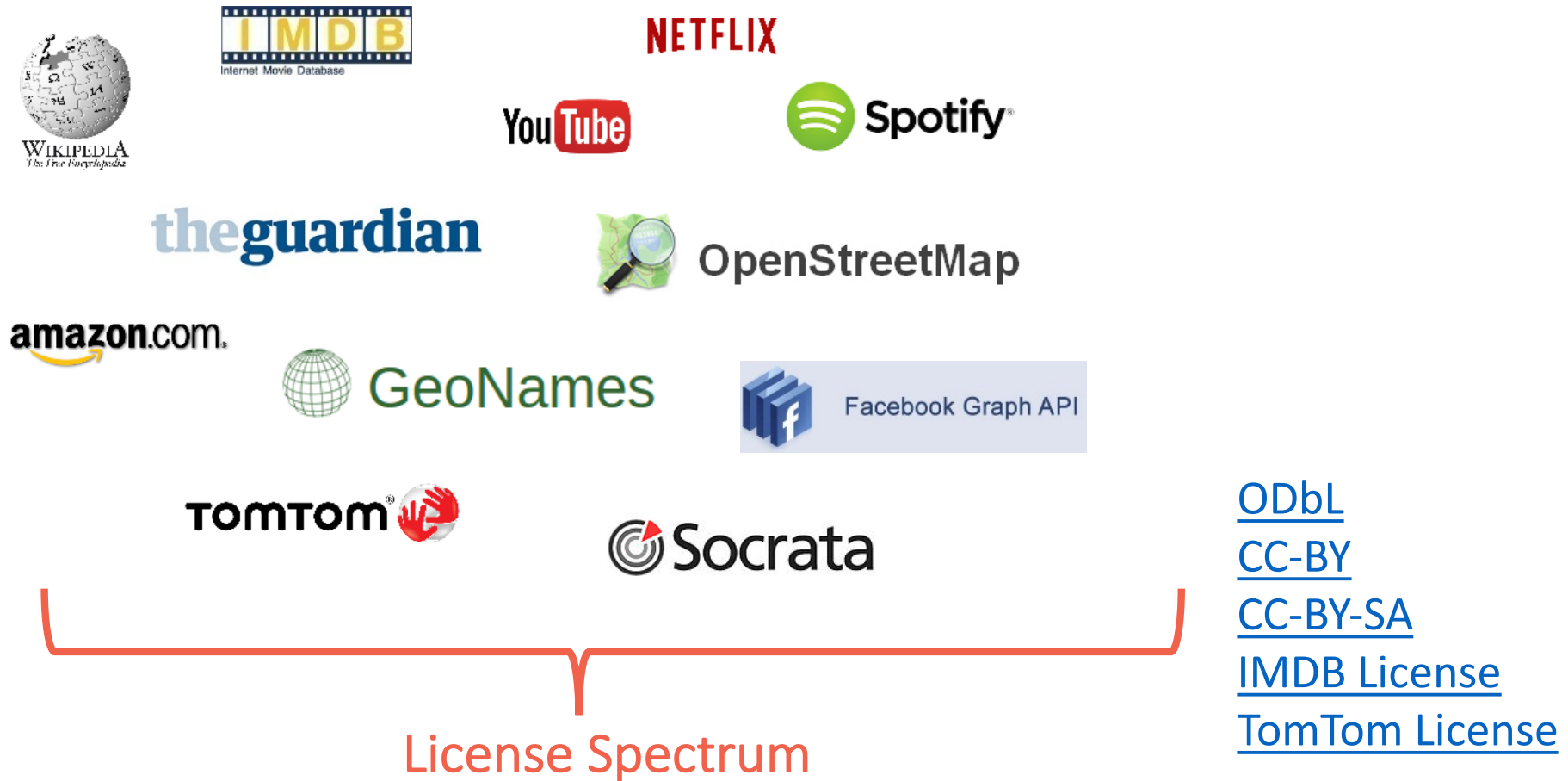
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event	year	dead	injur ed	crowd size	event type	event type num	mod type num	relig.	indoor	countdown	bridge	event populati on	populati on killed	specific trigger	crowd mgmt failure	escape panic	Event name	src	cat	stan Y/N	geo num	non-white	country	WP use	Title word			
5	1876	278		1,000	F	1	1	0	Y	N	N	A	A	Y		Y	Brooklyn Theatre fire	vp	fire	0	A	0	0	USA	0	fire		
7	1883	183		1,100	T	8	8	0	Y	N	N	C	C	Y		N	Victoria Hall disaster	vp	crush	0	A	0	0	England	0	disaster		
8	1896	1309	1300	500,000	P	3	3	0	N	N	N	G	G	Y		Y	Khodynka Tragedy	vp	panic	0	A	0	0	Russia	0	tragedy		
9	1902	185		6,000	R	5	5	1	Y	N	N	A	A	Y		Y	Shah Rastouj Church disaster	vp	crush	0	A	0	1	USA	0	disaster		
10	1903	602		2,450	F	1	1	0	Y	N	N	G	G	Y		Y	Hoover's Theatre Fire	vp	fire	0	A	0	0	USA	0	fire		
11	1908	76	40		T	8	8	0	Y	N	N	C	C	Y		N	Barclay's Public Hall stampede	vp	stamp	1	A	0	0	England	0	disaster		
12	1913	73		400	T	8	8	0	Y	N	N	G	C	Y		Y	Isaac Hall disaster	vp	crush	0	A	0	0	USA	0	disaster		
14	1946	33	400	85,000	S	7	7	0	N	N	N	G	G	N	Y		N	Bunden Park disaster	vp	crush	0	A	0	0	England	0	disaster	
15	1954	800	2000	5,000,000	R	5	5	1	N	N	N	G	G	N	Y		N	1954 Kumbh Mela stampede	vp	stamp	1	B	1	1	India	1	stamp	
17	1964	320		53,000	S	7	7	0	N	N	N	G	G	N	Y		N	Estadio Nacional disaster	vp	crush	0	B	1	1	Pieu	0	disaster	
18	1971	66	200	80,000	S	7	7	0	N	N	N	G	G	N	Y		N	1971 Broom disaster	vp	crush	0	A	0	0	Scotland	0	disaster	
19	1975	11	26	14,779	M	2	2	0	N	N	N	G	G	Y	N		N	1973 The Who concert disaster	vp	rush	0	A	0	0	Russia	0	disaster	
20	1982	66	61	16,643	S	7	7	0	N	N	N	G	C	N	Y		N	Ludmila disaster	vp	crush	0	A	0	0	USA	0	disaster	
21	1985	39	600	59,000	S	7	7	0	N	N	N	G	G	Y	Y		Y	Heysel Stadium disaster	vp	crush	0	A	0	0	Belgium	0	disaster	
22	1988	93	100		S	7	7	0	N	N	N	G	G	Y	Y		Y	1988 Kachmandu stadium disaster	vp	crush	0	B	1	1	Nepal	0	disaster	
24	1989	96	766	55,000	S	7	7	0	N	Y	N	G	G	N	Y		N	Millborough disaster	vp	crush	0	A	0	0	England	0	disaster	
25	1990	1426			R	5	5	1	N	N	N	A	A	N	Y		N	1990 Mecca tunnel tragedy	vp	none	0	B	1	1	Saudi Arabia	1	stamp	
26	1991	40		30,000	S	7	7	0	N	N	N	A	A	Y	Y		Y	Orlando Stadium Disaster	vp	crush	0	B	1	1	South Africa	0	disaster	
32	1993	0	73	77,745	S	7	7	0	N	N	N	N	G	Y	Y		Y	The Camp David Crisis	vp	crush	0	A	0	0	USA	0	crush	
34	1994	113	500	50,000	PO	4	4	0	N	N	N	N	G	W	Y		Y	1994 Gujarat stampede	vp	stamp	1	B	1	1	India	1	stamp	
35	1996	83	147	50,000	S	7	7	0	N	N	N	N	G	G	Y		Y	Ike October 16 disaster	vp	crush	0	B	1	1	Guatemala	0	disaster	
37	1999	53			R	5	5	1	N	N	N	N	G	G	Y		Y	1999 Sabarimala stampede	vp	stamp	1	B	1	1	India	1	stamp	
38	1999	53	100		M	2	2	0	N	N	N	N	A	A	Y		Y	Namibia stampede	vp	stamp	1	A	0	0	Belarus	0	disaster	
39	2000	9			M	2	2	0	N	N	N	N	A	A	Y		N	South African 2000 incident	vp	crush	0	A	0	0	Denmark	0	incident	
41	2001	43		120,000	S	7	7	0	N	N	N	N	G	Y	Y		Y	Ellis Park Stadium disaster	vp	crush	0	B	1	1	South Africa	0	disaster	
42	2001	127			S	7	7	0	N	N	N	N	G	Y	Y		Y	Accra Sports Stadium disaster	vp	crush	0	B	1	1	Ghana	0	disaster	
43	2001	11	247		P	3	3	0	N	N	N	N	G	C	Y		Y	Alaska crowd crush	vp	crush	0	B	1	1	Japan	0	accident	
46	2003	21	50	15,000	M	2	2	0	Y	Y	N	N	A	A	Y		Y	2003 F2 nightclub stampede	vp	stamp	1	A	0	1	USA	1	stamp	
47	2003	180	230		F	1	1	0	Y	N	N	N	A	A	Y		Y	The Station nightclub fire	vp	fire	0	A	0	0	USA	0	fire	
52	2005	231		300,000	F	1	1	1	Y	N	Y	N	G	W	Y		Y	Handan Disaster temple stampede	vp	stamp	1	B	1	1	India	1	stamp	
53	2005	363		1,000,000	R	5	5	1	N	N	N	Y	G	G	Y		Y	2005 Al-Azharah bridge stampede	vp	stamp	1	B	1	1	Iraq	1	stamp	
55	2006	345	289	2,130,534	R	5	5	1	N	N	N	N	A	A	Y		N	Haj 2006	en	ak		B	1	1	Saudi Arabia	1	stamp	
56	2006	73	400	30,000	S	7	7	0	N	N	N	N	G	Y	Y		Y	PhilSports Stadium stampede	vp	stamp	1	B	1	1	Philippines	1	stamp	
64	2008	762	47	3,000	R	5	5	1	N	N	N	N	G	G	Y		Y	Nana Devi stampede	vp	stamp	1	B	1	1	India	1	stamp	
66	2008	224	425	25,000	R	5	5	1	N	N	N	N	M	A	Y		Y	2008 Jodhpur stampede	vp	stamp	1	B	1	1	India	1	stamp	
69	2009	19	135	36,000	S	7	7	0	N	N	N	N	G	Y	Y		Y	House of Commons stampede	en	h23	0	B	1	1	France	0	disaster	
73	2010	21	500	250,000	M	2	2	0	N	Y	N	N	G	G	Y		Y	Love Parade disaster	vp	crush	0	A	0	0	Germany	0	stamp	
74	2010	347	755	4,000,000	P	3	3	1	N	N	Y	N	G	G	N		Y	Phnom Penh stampede	vp	stamp	1	B	1	1	Cambodia	1	stamp	
75	2011	102	100		R	5	5	1	N	N	N	N	N	G	Y		N	2011 Sabarimala stampede	vp	stamp	1	B	1	1	India	1	stamp	
79	2013	60	200	50,000	P	3	3	0	N	Y	N	N	G	W	Y		Y	2013 House of Commons stampede	vp	stamp	1	B	1	1	France	1	stamp	
81	2013	242	760	1,500	F	1	1	0	Y	N	N	N	A	A	Y		Y	Nies nightclub fire	vp	fire	0	B	1	1	Brazil	0	fire	
82	2013	36	39		R	5	5	1	Y	N	N	Y	G	G	Y		Y	2013 Kumbh Mela stampede	en	h25	1	B	1	1	India	1	stamp	
83	2013	115	110	500,000	R	5	5	1	N	N	Y	N	G	W	Y		Y	2013 Madhya Pradesh stampede	en	h26	1	B	1	1	India	1	stamp	
84	2014	32	26		R	5	5	1	N	N	N	Y	G	W	Y		N	2014 Patna stampede	en	h27	1	B	1	1	India	1	stamp	
85	2014	7	40		PO	4	4	0	N	N	N	N	A	A	N		Y	2014 Multan stampede	vp	stamp	1	B	1	1	Pakistan	1	stamp	
86	2014	11	40	30,000	R	5	5	1	N	N	N	N	G	G	N	Y		N	Keeleboro stadium stampede	vp	stamp	1	B	1	1	Zimbabwe	1	stamp
87	2014	36	49	300,000	P	3	3	0	N	Y	N	N	G	G	N	Y		N	2014 Shanghai stampede	en	h28	0	B	1	1	China	1	stamp
88	2015	28		5,000	S	7	7	0	N	N	N	N	G	G	Y		Y	30 June Stadium Stampede	vp	stamp	1	B	1	1	Egypt	1	stamp	
89	2015	18	78		P	3	3	0	N	N	N	N	A	A	Y		Y	2015 Hasi Carnival stampede	vp	stamp	1	B	1	1	Haiti	1	stamp	
92	2015	1554	934	2,000,000	R	5	5	1	N	Y	N	N	A	A	N		Y	2015 Mina stampede	en	h29	1	B	1	1	Saudi Arabia	1	stamp	

https://en.wikipedia.org/wiki/File:Data_for_2015_stampede_analysis.jpg

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The DALICC Framework

Modeling and Reasoning over Data Licenses

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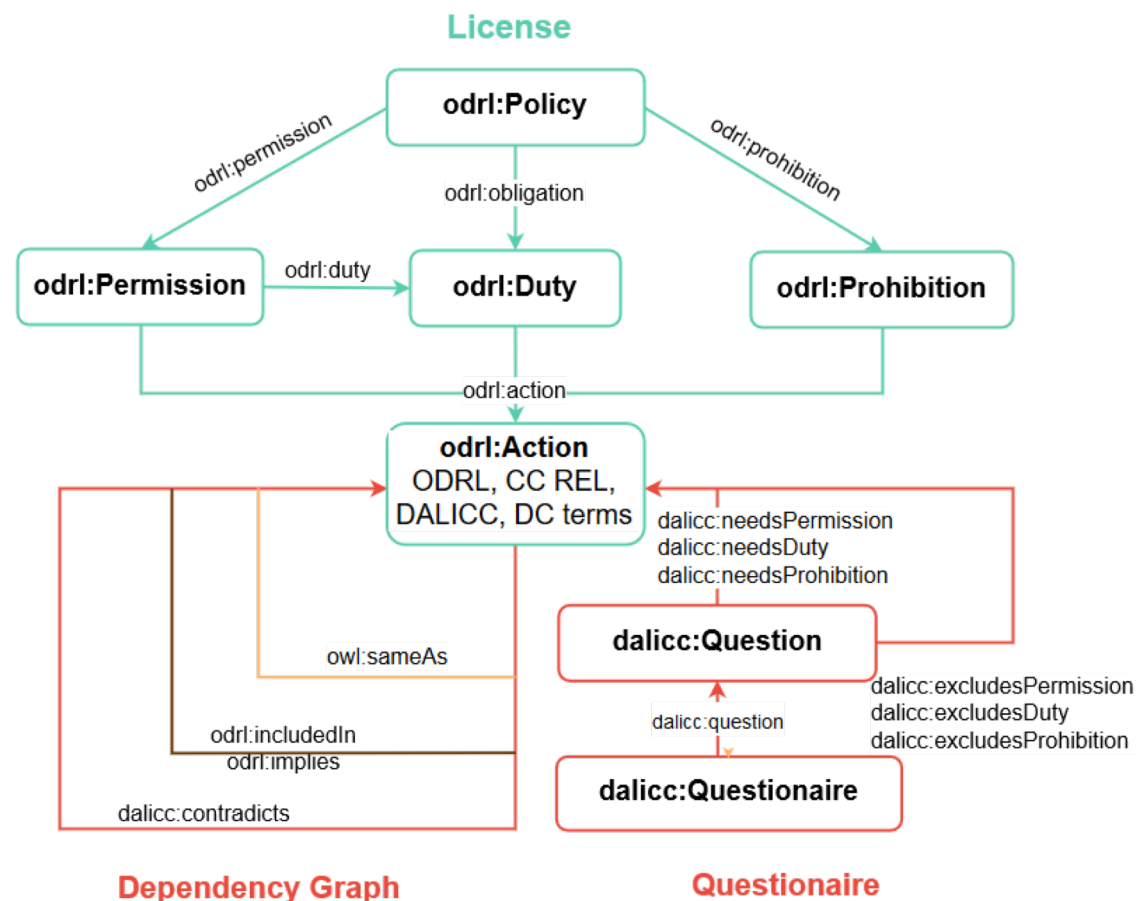
² Vienna University of Economics and Business, Austria

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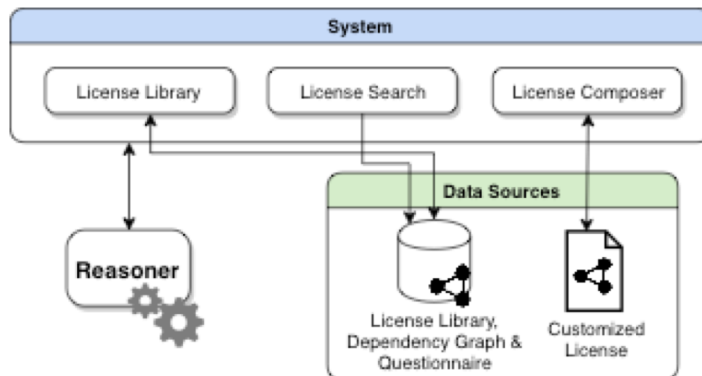
Abstract. In this paper, we propose an extension of the Open Digital Right Language for modeling well-known licenses and propose an approach to automatically check license compatibility.

1 Introduction

Copyright is a legal right, under Intellectual Property law, that enables creators of artistic works to specify how their work is used and distributed. When it comes to information available on the Internet there is often a misconception that public information can be freely copied and downloaded, however creative works available online are also protected via copyright, irrespective of whether a license is present or not. In order to support the automatic checking of licenses, it is necessary to model licenses in a manner such that it is possible to automatically verify if it is permissible to combine and reuse different datasets or software libraries. When it comes to machine readable licenses, there have been a number of Rights Expression Languages standardisation initiatives (e.g. the Open Digital Rights Language (ODRL)⁴ and the Creative Commons Rights Expression Language (ccREL)⁵). In addition, there have been a number of works that demonstrate how RDF can be used to represent and reason over licenses [2, 4, 7]. In this paper, we describe work conducted by the Data Licenses Clearance Center (DALICC) project⁶, which focuses on extending existing vocabularies to enable modeling and reasoning over well-known license texts. Herein we make the following contributions: (i) we extend ODRL so that it can be used to model several standard license families (CC, BSD, MIT, BSD, GPL); and (ii) we propose a system to automatically check license compatibility.



The DALICC Framework



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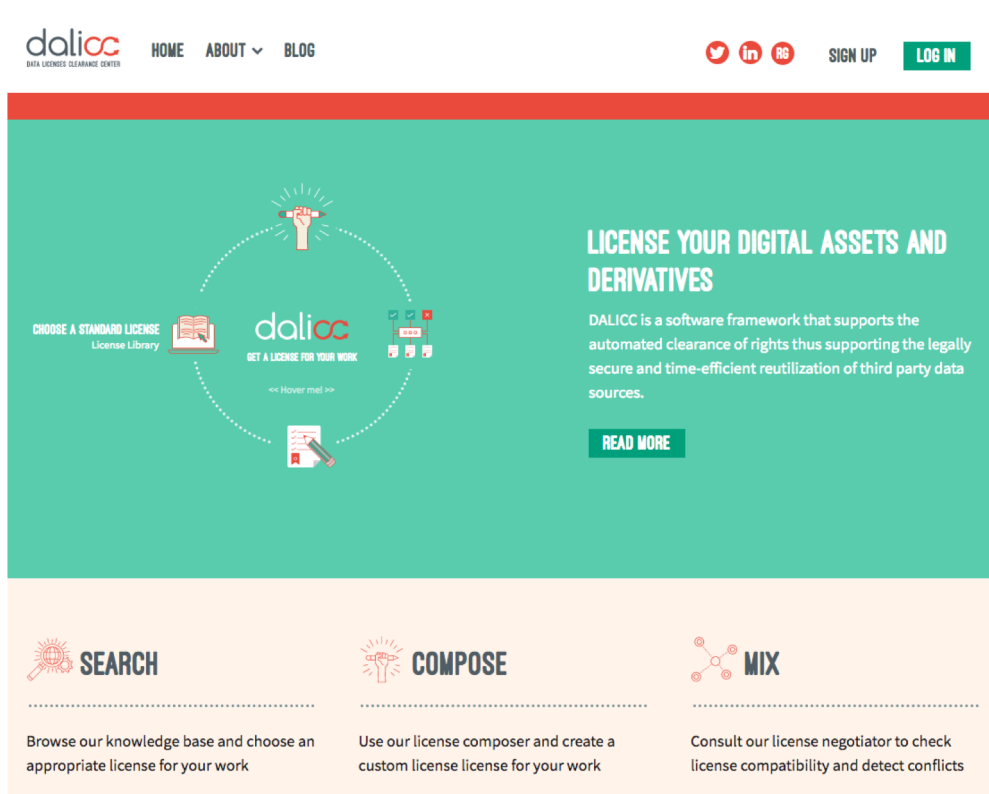
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