

# speedata Publisher

Create complex documents from  
databases

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An orange rounded square logo with the text "X14" in white.

X14

What is it about?

# Database Publishing



# Database Publishing



“Any customer can use any data source that he wants so long as it is XML.” (Henry Ford, 1922)

Some examples







# Travel guide

<div>130 Los Vegas</div> <div><h2>Las Vegas</h2></div> <div><p>Las Vegas is the largest city in the U.S. state of Nevada. Nicknamed the Entertainment Capital of the World, it is situated in the Mojave Desert of Southern Nevada. The city features many mega-hotel/casino complexes decorated with lavish care and attention to detail creating a fantasy-like environment. The casinos often have names and themes that evoke romance, mystery, and exotic destinations.</p></div> <div><p>o Las Vegas is in the area of Death Valley National Park   Page 138</p></div> <div><div><h3>VISITING LAS VEGAS</h3><p>Compared with other cities in the western U.S., Las Vegas [literally, "the springs" in Spanish] is a relatively recent arrival. It was founded in 1905, and for many years it was merely a small settlement in the middle of the desert. However, several pivotal events would come together in less than twenty years that would help Las Vegas grow into what it is today:</p><ul style="list-style-type: none"><li>• The construction of Hoover Dam in 1928 brought thousands of workers to the area. What is now known as Boulder City was established for the workers.</li><li>• Nevada legalized gambling in 1931, and downtown Las Vegas became an entertainment center for the dam workers, with casinos and speakeasies. Business became so good that it surpassed Reno as the gambling capital of the world in less than 10 years. During the same period in the 1930s, Los Angeles was also growing rapidly from a small town into a global center for the entertainment, aerospace, and defense industries; but because gambling was strictly banned in California at the time, Southern California workers began traveling to Las Vegas to enjoy gambling there.</li></ul></div><div><ul style="list-style-type: none"><li>• In 1941, the luxurious El Rancho Vegas resort opened on what would later become the Las Vegas Strip. Benjamin "Bugsy" Siegel later opened the Flamingo Hotel in 1946. The opening of these two resorts started a building boom and established a tradition of one-upmanship (with each new hotel/casino trying to outdo its predecessors) that continues today; it also initiated a long tradition of organized crime involvement in Nevada's gambling industry. By the 1990s, the enactment and enforcement of the federal Racketeer Influenced and Corrupt Organizations Act (the RICO Act) as well as investments by established corporations and the installment of professional management virtually eliminated any remaining organized crime involvement.</li></ul></div><div><p>The city is laid out as follows: Main Street as well as the numbered streets run north-south, starting with Main Street in the west. The bus station is on Main Street. Downtown has several hotel-casinos, as well as the "Fremont Street Experience", a pedestrian mall lined with casinos, near the western end of Fremont Street. A couple miles south of downtown starts the "Strip" (Las Vegas Boulevard South), a north-south street</p></div></div>	<div>Los Vegas 131</div> <div></div> <div><p>lined with large casino-hotels, shopping malls, and other attractions.</p><p>The northern end of the Strip is marked by the tall Stratosphere tower. The Regional Transportation Commission runs buses up and down the Strip that connect the Strip resorts to downtown. The Las Vegas monorail and the convention center sit just east of the Strip, and the University of Nevada at Las Vegas (UNLV) is located slightly more east of the Strip on Maryland Parkway. The airport is at the southern end of the Strip.</p><p>Importantly, the City of Las Vegas only controls the Strip as far south as Sahara Avenue. All of the Strip south of Sahara, is located in the unincorporated townships of Paradise and Enterprise, which are both governed directly by Clark County. These unincorporated townships, however, use the name "Las Vegas" for postal purposes.</p><p>Both the city and the unincorporated county areas share a single law enforcement agency, the Las Vegas Metropolitan Police Department. Incorporated cities such as Henderson and North Las Vegas have their own police departments.</p></div> <div><div><h3>BASICS</h3><p>Most hotel/casino resort complexes in Las Vegas have a gift shop open 24/7 that offers basic traveler supplies and sundries. Hotel gift shops are outrageously expensive and should be avoided except for emergencies.</p><p>If you are planning to not rent a car and to simply go up and down the Strip on foot or bus, the pharmacies are your best bet for basic supplies. They are all open 24/7 and accustomed to dealing with tourists from all over the world.</p><p>Like most U.S. pharmacies, they carry a very large variety of products besides pharmaceuticals and dietary supplements, including snacks, soft drinks, bottled water, cosmetics, toiletries, hats, sunscreen, maps, postcards, and so on.</p></div></div>
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# Price list

**Ihre Kd-Nummer: 12345**

*Max Mustermann*

*Renault*

**Telefon 02161 - 995711**

**Gebührenfrei faxen 0800-9-995741**

<i>Best.Nr.</i>	<i>Vergl.Nr.</i>	<i>Bezeichnung</i>	<i>Fahrzeug</i>	<i>Euro Brutto</i>	<i>*Euro Netto</i>
				<i>*siehe Hinweis unten</i>	

### **Dieselfilter (Fortsetzung)**

0R2256	7701061576	Dieselfilter Ref:R6351040	Clio II Kangoo K9K 700 702 704 710 Motor bis Bj.03.01.05	€ 54,60	€ 19,90
0R2224	8200026237	Dieselfilter HDF907 Ref:R6351010	Clio II Kangoo K9K 700 702 704 710 714 716 718 Motor bis Bj.03.01.05	€ 39,16	€ 11,90
0R2228	8200458337	Dieselfilter <b>ohne Wasserablassschraube</b> Ref:R6351180 Ref:R6351210 Ref:R6351042 Ref:R6351040	Clio II Kangoo K9K 700 702 704 710 712 714 716 718 Motor ab Bj.03.01.05	€ 39,16	€ 12,90
0R2258	7701062190	Dieselfilter <b>mit Wasserablassschraube</b> Ref:R6351042	Clio II Kangoo K9K 700 702 704 710 712 714 716 718 Motor ab Bj.03.01.05	€ 54,60	€ 17,90
0R2227	8200926014	Dieselfilter Sys.Delphi Ref:HDF944 Ref:R6351160	Clio III Modus K9K 750 752 764 766 768 772 Motor	€ 39,16	€ 18,95
0R2254	7701479151	Dieselfilter Ref:R6351170	Clio III Modus K9K 750 752 764 766 768 772 Motor	€ 54,60	€ 24,90
0R2200	8200638748	Dieselfilter <b>mit Wasserablassschraube</b> Ref:FCS 727	Kangoo II K9K 800 802 804 806 808 812 Motor bis Bj.12.10.09 Laguna III K9K 780 Motor bis Bj.18.05.09 M9R 742 746 Motor M9R 744 748 800 802 809 816 Motor bis Bj.18.05.09 V9X 891 Motor bis Bj.18.05.09 Twingo II K9K 718 740 Motor	€ 39,16	€ 14,90
0R2249	7701478277	Dieselfilter <b>ohne Wasserablassschraube</b> Ref:FCS 730 Ref:FCS 738	Laguna III K9K 780 Motor bis Bj.18.05.09 M9R 742 746 Motor M9R 742 744 746 748 800 802 805 816 Motor bis Bj.18.05.09 V9X 891 Motor bis Bj.18.05.09 Kangoo II K9K 800 802 804 806 808 812 Motor bis Bj.12.10.09 Twingo II K9K 718 740 Motor	€ 39,16	€ 13,90

[illegible]

# Complex tables

Samstag			: Frühbuchervorteil: Siehe unten Info-Kasten Airline											
Flugtag/Abflughafen	Fluggesellschaft	Flugdauer	Mai				Juni				Juli			
			07	14	21	28	04	11	18	25	02	09	16	23
Düsseldorf	Air Berlinbla	10:50	219	219	219	223	223	223	223	355	387	387	387	387
	Emiratesbla	10:50	80	80	80	84	84	84	84	176	176	178	178	178
Hamburg	Emiratesbla	11:10	80	80	80	84	84	84	84	176	176	178	178	178
Berlin-Tegel	Air Berlinbla	11:10	219	219	219	223	223	223	223	355	387	387	387	387
	Qatar Airwaysbla	11:10	80	80	80	84	84	84	84	176	176	178	178	178
Frankfurt	Emiratesbla	11:10	219	219	219	223	223	223	223	355	387	387	387	387
	Qatar Airwaysbla	11:10	80	80	80	84	84	84	84	176	176	178	178	178
München	Emiratesbla	10:20	219	219	219	223	223	223	223	355	387	387	387	387
	Qatar Airwaysbla	10:20	80	80	80	84	84	84	84	176	176	178	178	178
Sonntag			: Frühbuchervorteil: Siehe unten Info-Kasten Airline											
Flugtag/Abflughafen	Fluggesellschaft	Flugdauer	Mai				Juni				Juli			
			01	08	15	22	29	05	12	19	26	03	10	17
Düsseldorf	Air Berlinbla	10:50	149	149	149	149	161	153	153	153	285	285	287	287
	Emiratesbla	10:50	80	80	80	80	92	84	84	84	176	176	178	178
Hamburg	Emiratesbla	11:10	71	71	71	71	83	75	75	75	166	166	178	178
Berlin-Tegel	Qatar Airwaysbla	11:10	43	43	43	43	55	47	47	47	47	79	444	444
Frankfurt	Emiratesbla	11:10	38	38	38	38	50	223	223	223	355	387	387	387
	Qatar Airwaysbla	11:10	24	24	24	24	36	84	84	84	176	176	178	178
	Oman Airbla	11:10	27	27	27	27	39	84	84	84	176	176	178	178
München	Emiratesbla	10:20	26	26	26	26	38	223	223	223	355	387	387	387
	Qatar Airwaysbla	10:20	13	13	13	13	25	84	84	84	176	176	178	178

Die ausgeschriebenen Flugab-/zuschläge, pro Person in Euro, beziehen sich in der Regel auf 7 Tage Aufenthalt. Abweichungen je nach Aufenthalt.  
 Voraussichtliche Fluggesellschaft, Änderungen vorbehalten. Die durchschnittliche Flugdauer bezieht sich auf Direktflüge.  
 Der größte Teil der angebotenen Flüge sind Direktflüge. Aus flugtechnischen Gründen sind Drehkreuz- und Via-Flüge möglich.

Some facts

## Some facts

- ▶ Uses LuaT<sub>E</sub>X, therefore full unicode support, OpenType fonts, great line breaking
- ▶ High speed, first page in less than 1/2 second, up to 300 pages/second
- ▶ OpenSource license AGPL (source on github)
- ▶ Easy to install (ZIP file) on all major operating systems
- ▶ Programming language: 99% Lua
- ▶ Complete manual + with examples

Some features



# Typesetting on a grid

## Felsengipfel

Kaum standen am folgenden Tage die hohen Felsengipfel im Glanz des Sonnenlichts, so hüpfte Gustav aus dem Bette und fand – wem kommt dabey nicht das ehemahls selbst genossene kindische Entzücken bey dem Anblick des Weihnachtsgeschenks ins Gedächtniss? – einen netten Anzug auf dem Stuhle am Bette, den die Gattinn des Schultheissen von den Söhnen eines im Flecken wohnenden Edelmannes, einstweilen angenommen hatte, da sich nicht so schnell, als sie es jetzt wünschte, die Nähndeln zu Buchenthal in Bewegung setzen liessen.

## Empfindungen

Ewalds hatten ein Weilchen auf das Benehmen des kleinen Lieblings gelauscht, und öffneten das Gemach, als sich eben seine Empfindungen in ein lautes »Ach wie schön!« auflösten. »Guten Tag, Papa, guten Tag, Mama!« schluchzte Gustav, und eilte den Kommenden entgegen, um mit tausend Händeküssen

ihnen Dank und Liebe zu zollen. Die guten Alten staunten bey dem seltenen Feingefühl.

## Augenblicke

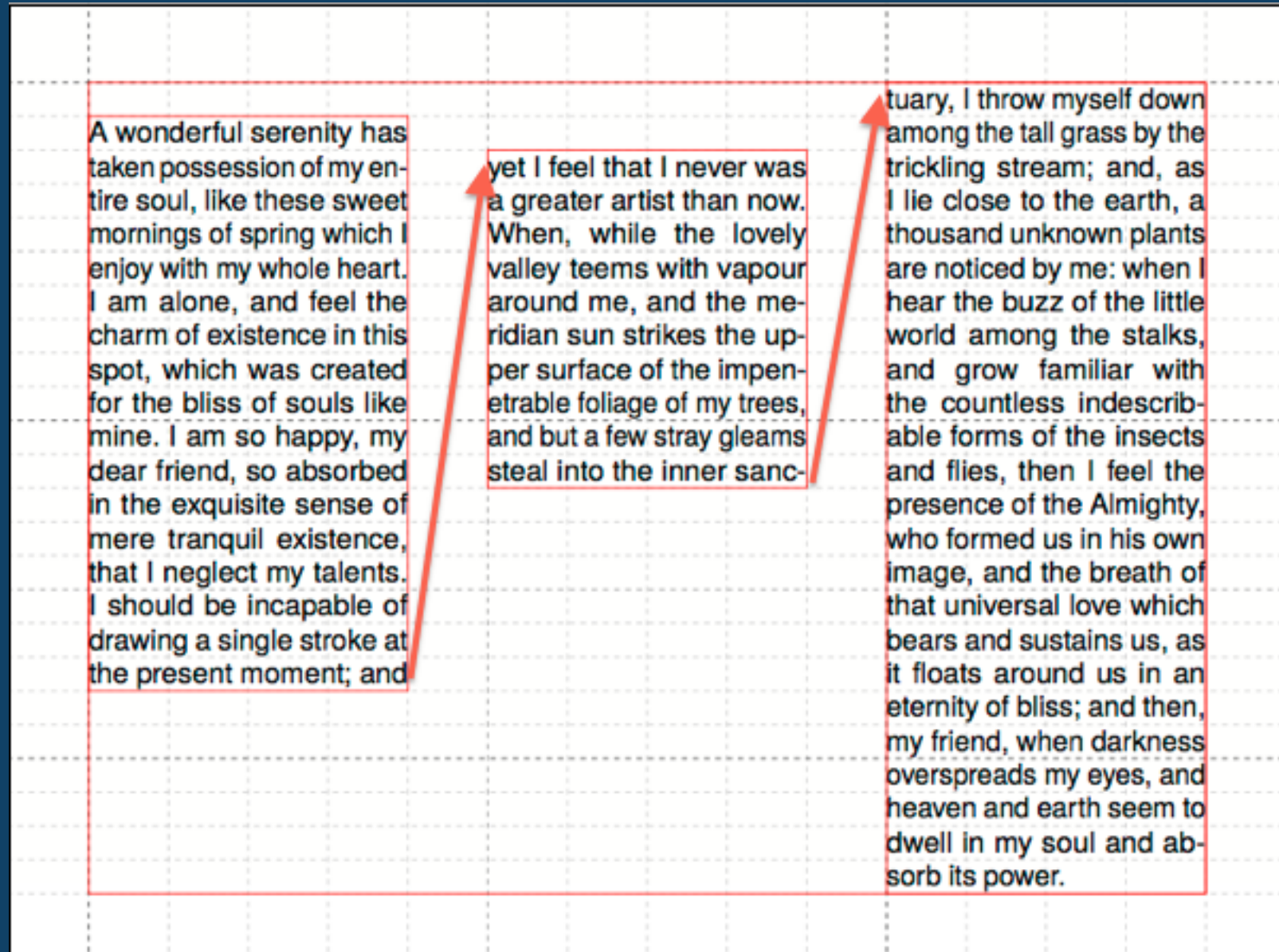
Die muthigen Apfelschimmel stampften schon ungeduldig im Hofe den Boden. Gustav stack geschwind mit Ewalds Hülfe in dem



ganz passenden Anzuge, und glich einem jungen Liebesgott, indess die Gattin des Schultheissen alle die kleinen häuslichen Angelegen-



# Overflowing containers



# Placing on a grid

## The Table

A wonderful serenity has taken possession of my entire soul, like these sweet mornings of spring which I enjoy with my whole heart. I am alone, and feel the charm of existence in this spot, which was created for the bliss of souls like mine. I am so happy, my dear friend, so absorbed in the exquisite sense of mere tranquil existence, that I neglect my talents. I should be incapable of drawing a single stroke at the present moment; and yet I feel that I never was a greater artist than now. When, while the lovely valley teems with vapour around me, and the meridian sun strikes the upper surface of the impenetrable foliage of my trees, and but a few stray gleams steal into the inner sanctuary, I throw myself down among the tall grass by the trickling stream; and, as I lie close to the earth, a thousand unknown plants are noticed by me: when I hear the



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# Text shape

## The Table

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unknown plants are noticed by me: when I hear the buzz of the little world among the stalks, and grow familiar with the countless indescribable forms of the insects and flies, then I feel the presence of the Almighty, who formed us in his own image, and the breath of that universal love which bears and sustains us, as it floats around us in an eternity of bliss; and then, my friend, when darkness overspreads my eyes, and heaven and earth seem to dwell in my soul and absorb its power, like the form of a beloved mistress, then I often think with longing, Oh, would I could describe these conceptions, could impress upon paper all that is living so full and warm within me, that it might be the mirror of my soul, as my soul is the mirror of the infinite God! O my friend – but it is too much for my strength – I sink under the weight of the splendour of these visions! A wonderful



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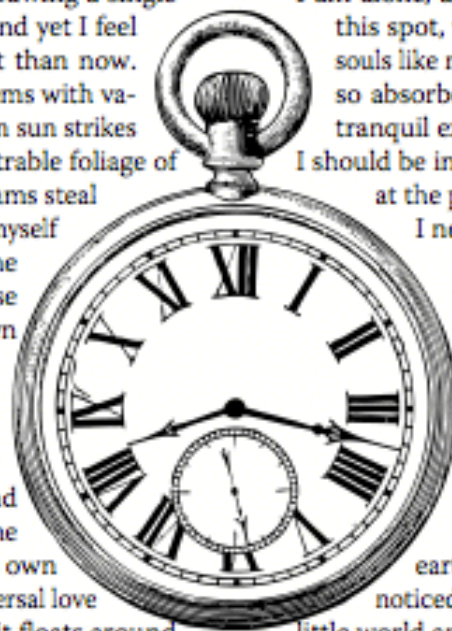
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# Text shape

## The Pocketwatch

A wonderful serenity has taken possession of my entire soul, like these sweet mornings of spring which I enjoy with my whole heart. I am alone, and feel the charm of existence in this spot, which was created for the bliss of souls like mine. I am so happy, my dear friend, so absorbed in the exquisite sense of mere tranquil existence, that I neglect my talents. I should be incapable of drawing a single stroke at the present moment; and yet I feel that I never was a greater artist than now. When, while the lovely valley teems with vapour around me, and the meridian sun strikes the upper surface of the impenetrable foliage of my trees, and but a few stray gleams steal into the inner sanctuary, I throw myself down among the tall grass by the trickling stream; and, as I lie close to the earth, a thousand unknown plants are noticed by me: when I hear the buzz of the little world among the stalks, and grow familiar with the countless indescribable forms of the insects and flies, then I feel the presence of the Almighty, who formed us in his own image, and the breath of that universal love which bears and sustains us, as it floats around us in an eternity of bliss; and then, my friend, when darkness overspreads my eyes, and heaven and earth seem to dwell in my soul and absorb its power, like the form of a beloved mistress, then I often think with longing, Oh, would I could describe these conceptions, could impress upon paper all that is living so full and warm within me, that it might be the mirror of my soul, as my soul is the mirror of the infinite God! O my friend – but it is too much for my strength – I sink under the weight of the splendour of these visions! A wonderful serenity has taken









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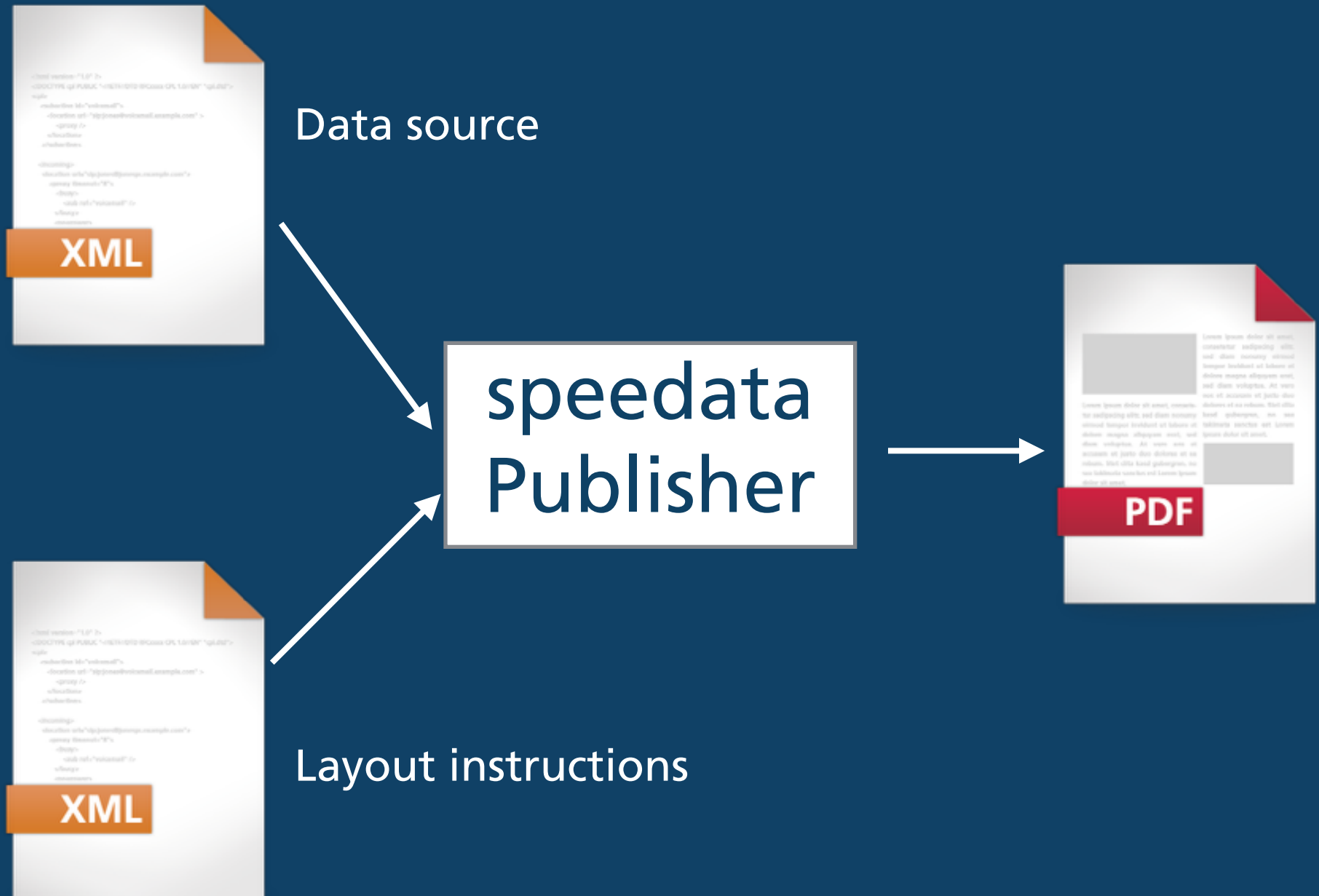
# Running sums

No.	Image	Name	Art-No.	Price
1		Household pliers	129234	8,99
2		Vise	154515	44,90
3		Scissors	455548	2,45
4		Knife	123233	7,80
5		Wrench	134223	18,90
6		Fire extinguisher	134232	59,60
Sum:				142,64

No.	Image	Name	Art-No.	Price
Sum: 142,64				
7		Hammer	242345	5,49
8		Cutting pliers	642143	7,29
9		Screwdriver	499203	3,99
Total:				159,41

How does it work?

# Workflow





# Demo time!

# Thank you

## Download and source code

[download.speedata.de](http://download.speedata.de)

[speedata.github.io/publisher](https://speedata.github.io/publisher)

## Contact info

[gundlach@speedata.de](mailto:gundlach@speedata.de)

[@speedata](#)