

What is a	shopbot?
	Shopping Robot's automatically search a large number of stores for a specific product
Present statutes     The Strategies     Constrained and the Strategies	Example: John Grisham's <i>The Brethren</i> , list price \$27.95, prices range between \$13.49 (buy.com) and \$50.75 (totalinformation com)
Education         41.97.97         62.95         44.92         (21.94.94)           advacant cover         41.97.97         (20.95.96)         (20.97.96)         (20.97.96)           advacant cover         41.94.94         (20.96.96)         (20.97.96)         (20.97.96)           train cover         41.94.94         (20.96.96)         (20.97.96)         (20.97.96)           train cover         41.94.94         (20.96.96)         (20.97.96)         (20.97.96)           train cover         41.94.97         (21.97.96)         (20.97.96)         (20.97.96)           train cover         41.94.77         (21.97.96)         (20.97.96)         (20.97.96)	Design involves: – Computer science (agents)
810000.007 979 17 4-6 560 97 98 98 622 10 10000000000 007 979 17 4-6 500000 97 98 98 622 10 10000000000000000000000000000000000	<ul> <li>Economics (value of price search)</li> <li>Marketing (consumer behavior)</li> <li>Statistical Modeling (uncertainty)</li> </ul>
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Or	nline Retail	Shopp	bing	
		Millions of Unique Monthly Visitors	% of Web Users	
	All Digital Media	80,097	100.0	
	Retail	53,485	66.8	
1	amazon.com	14,464	18.1	
2	americangreetings.com	7,719	9.6	
3	webstakes.com	5,314	6.6	
 4	barnesandnoble.com	5,281	6.6	
 5	mypoints.com	5,269	6.6	
6	bizrate.com	5,050	6.3	
7	directhit.com	3,952	4.9	Source:
8	cdnow.com	3,857	4.8	July 2000
9	ticketmaster*	3,602	4.5	and and sealing of the second second
10	apple.com	3,421	4.3	1 🕋 🔪
13	dealtime.com	3,131	3.9	Media
32	mysimon.com	1,915	2.4	
	bottomdollar.com	670	0.8	5











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The construction of the co		<ul> <li>Enter a book and evenbetter.com will search 30+ bookstores and return all searches ordered by price</li> <li>Yaboo currently lists over</li> </ul>
Contra Million Training article Sine	Rasheng Lawr (2020) i feddawr Iwdinau anna a pring Contrae y Safe (2020) a'r a' gel Bwr yffiging Lawr or fedgael, 108 C M	100 bookstores
Click on one offer (1st cold second to be effer	amn) to proceed to the negret/live shop!	Makes search quick and
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Ref 1180 and provide investigations of	THE THE DESIGN OF A COLUMN TRANSMENT OF	Constant in such solution
IN 11-TO INCIDENT AND ADDRESS.	74 04 0410 00 00 00 00	<ul> <li>Search is valuable</li> </ul>
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RI 17.0	The second state of the se	– Average range is \$12
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Price Collection Frequency CorrelationOnly once (initial time).30Once every 30 days.82Once every 14 days.91Once every 7 days.95Once every 3 days.99	Correlation betw and Predicte	veen Actual d Prices
Only once (initial time).30Once every 30 days.82Once every 14 days.91Once every 7 days.95Once every 3 days.99	Price Collection Frequency	Correlation
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Once every 14 days.91Once every 7 days.95Once every 3 days.99	Once every 30 days	.82
Once every 7 days .95 Once every 3 days .99	Once every 14 days	.91
Once every 3 days .99	Once every 7 days	.95
	Once every 3 days	.99
Once every day 1.00	Once every day	1.00
		40







<u>a</u> -		A	AF	
	Shopbot Ch	noice	Model	
	Parameter	<u>Estim</u>	<u>ate</u>	
	Total Price Item Price Shipping Price U.S. Tax Delivery Average Delivery "n/a" "Big 3" Amazon	19 37 43 02 37 .48	(\$1.00) (\$1.95) (\$2.26) (\$.10) (\$1.94) (\$2.52) (\$.20)	
	Borders	.17 .27	(\$.89) (\$1.42)	44





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Store	<u>Mean Sto</u>	<u>1. Dev.</u>	Store	Mean Sto	1. Dev.
buy.com	.52	.10	_varsitybooks.com	.75	.05
booksamillion.com	.59	.12	Dookstreet	.76	.13
Bookbuyer's Outlet	.62	.13	bigwords.com	.77	.06
Borders.com	.62	.13	WordsWorth	.83	.10
alldirect.com	.63	.05	booksnow.com	.88	.06
Amazon	.63	.13	Cherryvalleybooks	.89	.02
barnesandnoble.com	.63	.13	Rainy Day Books	.89	.05
AlphaCraze.com	.64	.09	Rutherfords	.89	.05
Fatbrain	.65	.15	Classbook.com	.96	.06
Books.com	.70	.09	Baker's Dozen online	.99	.06
HamiltonBook.com	.70	.07	Book Nook Inc.	.99	.05
BCY Book Loft	.72	.07	Codys Books	.99	.06
kingbooks.com	.73	.04	computerlibrary.com	.99	.06
A1 Books	75	06	page1book.com	.99	.07

<u>Service</u>	<u>Delivery</u>	<u>Cost</u>
U.S. Postal Service	5-9 days	\$3.95
Standard Ground	4-7 days	\$3.99
FedEx Second Day	3-4 days	\$7.95
UPS 2nd Day Air	3-4 days	\$7.99
FedEx Overnight	2-3 days	\$10.95



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DOUKSIIEEL.COIT	USPS Parcel Post	5-10 days	\$10.19 \$12.50	\$3.05	\$16.54 \$16.54
	Standard Shipping	n/a	\$10.39	\$3.95	\$14.34
orders.com	Standard	5-10 days	\$12.39	\$3.90	\$16.29
rders.com	Standard	5-10 days	\$12.39	\$3.90	\$16.29

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P	<u>robability</u>	Store	Service	Delivery	<u>E[Price]</u>		Cost	ElTotal
Still	82%	1BookStreet.com	USPS Parcel Post	6-21 days	\$ 15.19 \$ 12.50	\$ ¢	-	\$ 15.19 \$ 16.54
include	51%	Buy.com	Standard Shipping	n/a	\$ 10.39	φ \$	3.95	\$ 14.34
these	42%	Borders.com	Standard	5-10 days	\$ 12.39	\$	3.90	\$ 16.29
	( 34%	barnesandnoble.com	Standard Ground	4-7 days	\$ 12.59	\$	3.99	\$ 16.58
	28%	barnesandnoble.com	U.S. Postal Service	5-9 days	\$ 12.59	\$	3.95	\$ 16.54
ance c	26%	booksamillion.com	Standard Ground	N/A	\$ 11.79	\$	3.95	\$ 15.74
riuaing	21%	Fatbrain.com	UPS Ground	4-8 days	\$ 12.99	\$	3.95	\$ 16.94
nese	17%	AlphaCraze.com	USPS Special Rate	5-15 days	\$ 12.79	\$	3.50	\$ 16.29
	13%	Bookbuyer's Outlet	Standarc	n/a	\$ 12.39	\$	4.50	\$ 16.89
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