How big is the MTurk Market?

Panos Ipeirotis, Analyzing the Amazon Mechanical Turk Marketplace, 2010

Methodology

- Crawl the list of HITs once per hour
- Record the
 - RequesterID
 - Number of HITs available
 - Reward amount
 - Title, description, keywords
 - Qualifications required

Number of HITs and Total Value

- From January 2009 April 2010:
 - 165,368 HIT groups
 - 6,701,406 HITs total
 - 9,436 requesters
 - The total value of the posted HITs was \$529,259

Top Requesters

Requester ID	Requester Name	#HIT groups	Total HITs	Rewards	Type of tasks	
A3MI6MIUNWCR7F	CastingWords	48,934	73,621	\$59 <i>,</i> 099	Transcription	
A2IR7ETVOIULZU	Dolores Labs	1,676	320,543	\$26,919	Mediator for other requesters	
A2XL3J4NH6JI12	ContentGalore	1,150	23,728	\$19,375	Content generation	
A1197OGL0WOQ3G	Smartsheet.com Clients	1,407	181,620	\$17,086	Mediator for other requesters	
AGW2H4I480ZX1	Paul Pullen	6,842	161,535	\$11,186	Content rewriting	
A1CTI3ZAWTR5AZ	Classify This	228	484,369	\$9 <i>,</i> 685	Object classification	
A1AQ7EJ5P7ME65	Dave	2,249	7,059	\$6,448	Transcription	
AD7C0BZNKYGYV	QuestionSwami	798	10,980	\$2 <i>,</i> 867	Content generation and evaluation	
AD14NALRDOSN9	retaildata	113	158,206	\$2,118	Object classification	
A2RFHBFTZHX7UN	ContentSpooling.net	555	622	\$987	Content generation and evaluation	
A1DEBE1WPE6JFO	Joel Harvey	707	707	\$899	Transcription	
A29XDCTJMAE5RU	Raphael Mudge	748	2,358	\$548	Website feedback	

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A few requesters offer most of the rewards

Q-Q Plot: % of rewards vs % of requesters



Percent of requesters

Revards by keyword #HITS 8 282 relations

14,198 famage

11,420 coffectho

		Keywor	d	#HITGroups	Keywo	ord	#HITs	8,282	milquidse
data	\$192,513	casting	vandte	\$ 98,988	produ	articles	\$2	7, &4 65	webssie
collection	\$154,680	CW	listings	\$48,853	data	category	3,559,49 <mark>5</mark> 2	6 ,6§ 54	mistiegs
easy	\$93,293	podcast	article	\$ 48,3 31	categ	flower	\$2	6 ,<u>7</u>,348	transscrip
writing	\$91,930	transcri	research	\$48,301	shopp	i ŋs bs	3,086,96 <mark>9</mark> 2	6 <i>,</i> 7, 2 ₽0	anthones
transcribe	\$81,416	english	shopping	\$ 48,58 8	mercł	crowd	\$2	6 ,71,14 5	seengervie
english	\$78 <i>,</i> 344	mp	categorization	\$44,439	collect	^{ti} ððloresla	1 bs ^{599,91} §2	6, 9,8 7,5	btogs
quick	\$75 <i>,</i> 755	writing	simple	\$ 4 9,480	easy	crowdflo	wer \$2	6, 9,8 7,3	animple
product	\$66,726	questio	fast	\$40,330	catego	orizeiores	2,047,07 _{\$2}	6, 9,₿3 1	sibujider
cw	\$66,486	answer	categorize	\$ 38,305	quick	dolores	\$2	6, 9,54 3	ansolense
castingwords	\$66,111	opinion	email	\$32,989	websit	^{te} deloresla	bs ^{762,72} \$2	6, 9, ≨ ‡ 5	inajstove
podcast	\$64,418	short	merchandise	\$ 32,287	categ	entry	\$2	5, 64 4	retransc
mp	\$64,162	advice	url	\$31,819	image	tag	1,588,58 <mark>\$</mark> 2	5,5 ,52,62 0	witter
website	\$60,527	easy	tagging	\$ 30,420	searcl	video	\$2	5, 5,,,,,,,,,, ,,,,,,,,,,,,,,,,,,,,,,,,	infatgeil
search	\$57 <i>,</i> 578	article	web	\$29,309	fast	editing	1,372,46 <mark>8</mark> 2	4, 4,9 83	covffhms
image	\$55,013	edit	photo	\$2 8,731	shopz	classify	\$2	4, 63 548	covniting
builder	\$53 , 443	researc	review	\$28,707	taggin	^g answer	1,028,80 <mark>3</mark> 2	3 ,835 58	vorcentra
mobmerge	\$53 , 431	quick	content	\$2 8,389	clouds	sort	1,018,455	4,218	email
		survey		8,265	classif	ý	1,007,173	4,140	V
		editing		7 854	listing	s	962 009	4 085	differe

HITs by price



Completion times

CDF of completion times for HIT Groups



Completion time for HITgroup (in hours)



The Dynamics of Micro-Task Crowdsourcing

The Case of Amazon MTurk

Djellel Eddine Difallah, Michele Catasta, Gianluca Demartini, Panos Ipeirotis, Philippe Cudré-Mauroux

WWW'15 - 20th May 2015 - Florence

5 years later

- Run from 2009-2014
- Collected 2.5 million different batches with 130 million individual HITs

Rewards



HITs over time





Requesters and Reward Evolution

Year 2009 2010 2011 2012 2013 2014







Distribution of Batch Size 10⁶ Number of Batches (log) 10¹ 10⁰ 10² 10⁵ 10⁰ 10⁴ 101 Batch Size (log)

Evolution of Batch Sizes



Artic Auc Crov Ea Ea Insuran Psycholo Qui Resear Surv Transcripti Verbat Voicem Artic Auc Crov Ea Ea Insuran Psycholo Qui Resear Surv Transcripti Verbat Voicem Artic Auc Crov Ea Ea Insuran Psycholo Qui Resear Surv Transcripti Verbat Voicem Keywords ГIUIIУ I





Requesters and Reward Evolution



Supply and Demand

