

Mechanical Turk and AWS Workshop

William Kyle Hamilton

School of Social Sciences, Humanities, and Arts

University of California, Merced

Outline for Today

- What is MTurk? and How much should you pay?
- Installing MTurkR in RStudio
- Accessing your AWS Security Credentials
- Messaging Workers through MTurkR
- Sending SMS and Email messages through AWS
- Assigning Qualifications in MTurk

What is Mechanical Turk?

- Mechanical Turk was launched in 2005 by Amazon.
- MTurk is a Crowdsourcing Internet marketplace where thousands of workers work on tasks that computers are not particularly good at such as image moderation, and photo tagging
- HIT means Human Intelligence Tasks
 - When you post a study to MTurk you're posting a HIT for Turkers to complete

How Much Should I Pay?

- General rule of thumb is you should pay your workers at least \$0.10/min for their work, anything less and you'll receive negative reviews on websites such as www.reddit.com/r/HITsWorthTurkingFor/ and Turkopticon (microwork-dev.ucsd.edu)

Requester:	▼	William Hamilton
communicativity:	<div><div></div></div>	4 / 5
generosity :	<div><div></div></div>	4.1 / 5
fairness :	<div><div></div></div>	4.56 / 5
promptness :	<div><div></div></div>	4.56 / 5
Terms of service violation flags: 0 times		
What do these scores mean?		
Scores based on 10 reviews		
Report your experience with this requester »		



Requester:	▼	Clayton L. Stephenson, Ph.D.
communicativity:	<div><div></div></div>	0 / 5
generosity :	<div><div></div></div>	1.86 / 5
fairness :	<div><div></div></div>	0 / 5
promptness :	<div><div></div></div>	0 / 5
Terms of service violation flags: 0 times		
What do these scores mean?		
Scores based on 7 reviews		
Report your experience with this requester »		



Questions on MTurk?



What is MTurkR

- Access to Amazon Mechanical Turk Requester API via R
- Authored by Dr. Thomas Leeper, postdoc at Aarhus University
 - <http://www.thomasleeper.com>
 - thosjleeper@gmail.com
 - Super nice guy, will respond to you and help with problems that come up if you email him

MTurkR vs Amazon Mechanical Turk Command Line Tool

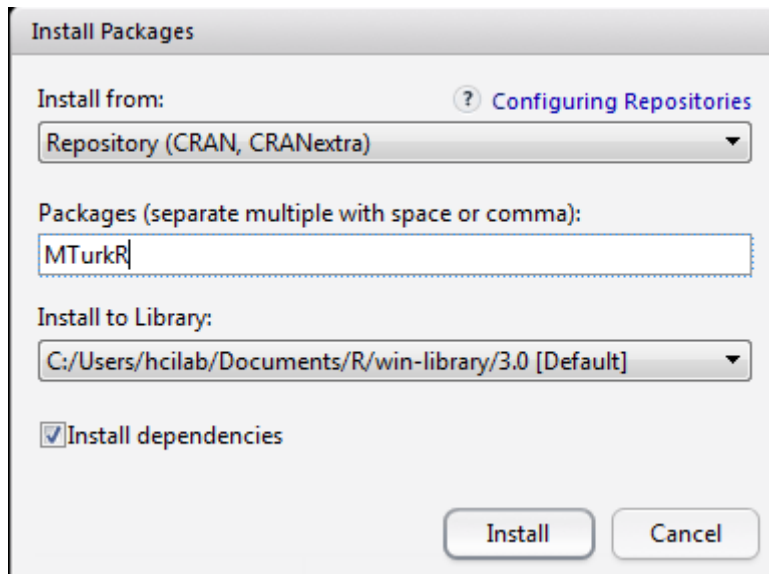
MTurkR

- Many people have used this and it works
- Requires R
- Last update was in June 2013
- Simple to use, graphical interface is coming soon

Amazon Mechanical Turk Command Line Tool

- I have never met someone who says that this works
- Requires an old version of Java
- Last update was in September 2012
- Command line only

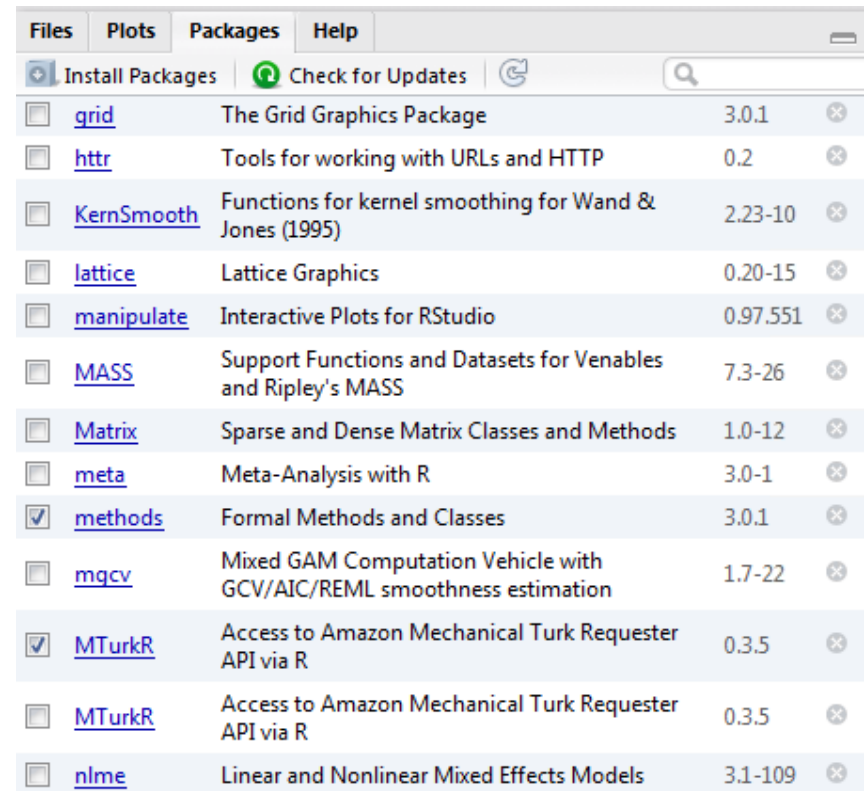
How to install MTurkR



- All of these examples were done in RStudio 0.97 because that's the version I use in my lab
- If you use something else and have problems just email me and I'll walk you through it

How to install MTurkR

- In order to turn a package on in RStudio you have to click the check box next to the package name.
- Click on the MTurkR package and the following text should appear.



Files	Plots	Packages	Help
Install Packages Check for Updates Search			
<input type="checkbox"/>	grid	The Grid Graphics Package	3.0.1
<input type="checkbox"/>	httr	Tools for working with URLs and HTTP	0.2
<input type="checkbox"/>	KernSmooth	Functions for kernel smoothing for Wand & Jones (1995)	2.23-10
<input type="checkbox"/>	lattice	Lattice Graphics	0.20-15
<input type="checkbox"/>	manipulate	Interactive Plots for RStudio	0.97.551
<input type="checkbox"/>	MASS	Support Functions and Datasets for Venables and Ripley's MASS	7.3-26
<input type="checkbox"/>	Matrix	Sparse and Dense Matrix Classes and Methods	1.0-12
<input type="checkbox"/>	meta	Meta-Analysis with R	3.0-1
<input checked="" type="checkbox"/>	methods	Formal Methods and Classes	3.0.1
<input type="checkbox"/>	mgcv	Mixed GAM Computation Vehicle with GCV/AIC/REML smoothness estimation	1.7-22
<input checked="" type="checkbox"/>	MTurkR	Access to Amazon Mechanical Turk Requester API via R	0.3.5
<input type="checkbox"/>	MTurkR	Access to Amazon Mechanical Turk Requester API via R	0.3.5
<input type="checkbox"/>	nlme	Linear and Nonlinear Mixed Effects Models	3.1-109

How to install MTurkR

```
Console ~/MTurk/ ↵
R version 3.0.1 (2013-05-16) -- "Good Sport"
Copyright (C) 2013 The R Foundation for Statistical Computing
Platform: x86_64-w64-mingw32/x64 (64-bit)

R is free software and comes with ABSOLUTELY NO WARRANTY.
You are welcome to redistribute it under certain conditions.
Type 'license()' or 'licence()' for distribution details.

R is a collaborative project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.

Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

> install.packages("MTurkR")
Installing package into 'C:/Users/hcilab/Documents/R/win-library/3.0'
(as 'lib' is unspecified)
trying URL 'http://cran.rstudio.com/bin/windows/contrib/3.0/MTurkR_0.3.5.zip'
Content type 'application/zip' length 404758 bytes (395 Kb)
opened URL
downloaded 395 Kb

package 'MTurkR' successfully unpacked and MD5 sums checked

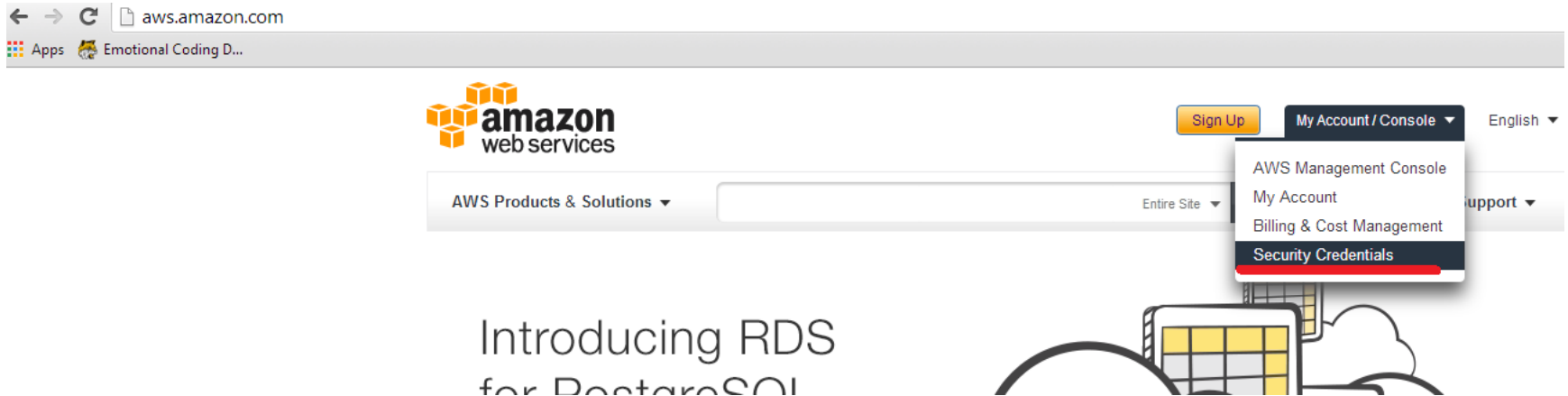
The downloaded binary packages are in
C:\Users\hcilab\AppData\Local\Temp\RtmpIBw4ru\downloaded_packages
> library("MTurkR", lib.loc="C:/Users/hcilab/Documents/R/win-library/3.0")
Loading required package: bitops
Loading required package: RCurl
Loading required package: digest
Loading required package: XML
```

- RStudio should automatically load all the required packages.
- Make sure all your packages are up to date
- The required packages for MTurkR are
 - bitops
 - Rcurl
 - digest
 - xml

Using MTurkR

- First you need to acquire your security credentials from Amazon
- They can be found on the Amazon Web Services site aws.amazon.com
- Once you get your credentials keep them in a safe spot, **you can only download them once**

Using MTurkR



This is where you will find the security credentials on the front page

Using MTurkR

Your Security Credentials

Use this page to manage the credentials for your AWS account. To manage credentials

To learn more about the types of AWS credentials and how they're used, see [AWS Security](#)

+ Password

+ Multi-Factor Authentication (MFA)

+ Access Keys (Access Key ID and Secret Access Key)

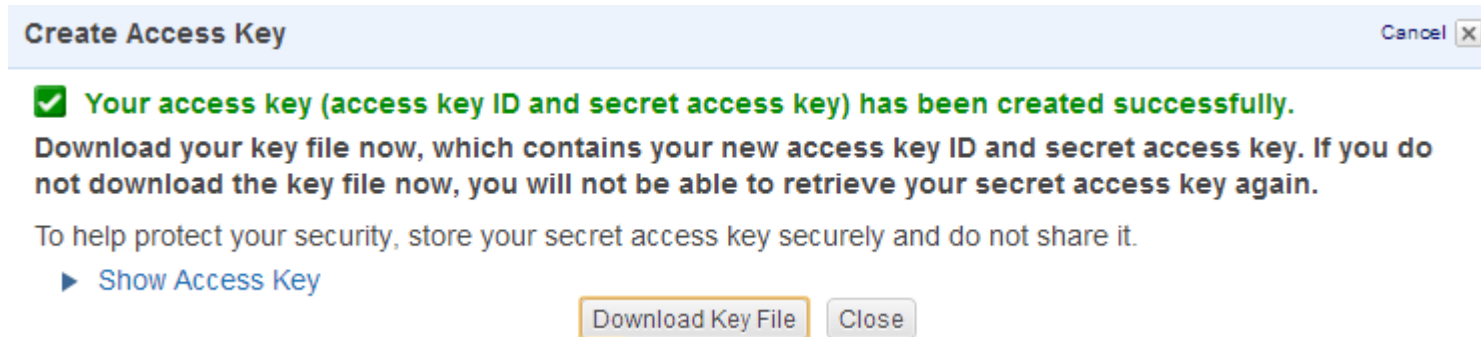
+ CloudFront Key Pairs

+ X.509 Certificates

+ Account Identifiers

- Click on Access Keys
- In the bottom left hand side there will be a button that says “Create New Access Key” click this and the following window will pop up

Using MTurkR



Download and keep this file safe! **You can only download it once,**
this information will give anyone who has it complete access you your Mturk account

Using MTurkR

- The Excel file that you download will have two numbers in it
- One will be the `AWSAccessKeyId` and the other is the `AWSSecretKey`

	A	B	C	D	E	F	G	H	I
1	AWSAccessKeyId=AKIAIMZT7B4RJFMSWNOA								
2	AWSSecretKey=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								

This is what it should look like, when you enter this data into MTurkR make sure to copy everything past the “=” sign

Using MTurkR

```
> mturkr.wizard("simple")
MTurkR Wizard loading...
Retrieve your AWS access keys from https://aws-portal.amazon.com/gp/aws/securityCredentials
AWS/MTurk Access Key ID: AKIAIMZT7B4RJFMSWNOA
AWS/MTurk Secret Access Key: ASSehr6kNFjA3B7jEYvCNooMPrnOBD3LdsUY/JC8
MTurkR Operations

1: Check Account Balance      2: Check Sufficient Funds      3: Create HIT
4: Check HIT Status          5: Get Assignment(s)          6: Extend HIT
7: Expire HIT                8: Approve Assignment(s)      9: Reject Assignment(s)
10: Grant Bonus(es)          11: Contact Worker(s)         12: Block Worker(s)
13: Unblock Worker(s)        14: Manage Qualifications     15: Requester Statistics
16: Worker Statistics        17: Open MTurk RUI Pages      18: Load MTurkR Log File/Entries
19: Exit

Selection: |
```

- This is important, you must use the command mturkr.wizard("simple"), the GUI version is not very good
- Copy and paste your AWS Access Key ID and the Secret Access Key, then this menu should pop up

Messaging Workers

- When you run an experiment on Mturk all of your workers are anonymous and have ID numbers.
- For this demo I used my Mturk ID number to message myself, you can message one worker or many

Messaging Workers

MTurkR Operations

1: Check Account Balance	2: Check Sufficient Funds	3: Create HIT
4: Check HIT Status	5: Get Assignment(s)	6: Extend HIT
7: Expire HIT	8: Approve Assignment(s)	9: Reject Assignment(s)
10: Grant Bonus(es)	11: Contact Worker(s)	12: Block Worker(s)
13: Unblock Worker(s)	14: Manage Qualifications	15: Requester Statistics
16: Worker Statistics	17: Open MTurk RUI Pages	18: Load MTurkR Log File/Entries
19: Exit		

Selection: 11

Contact one worker or multiple workers?

1: Single Worker
2: Multiple Workers

Selection: 1

WorkerId to Notify: A2ZXZFRG6A30J0

Email Subject Line: Ducks are the best!

Email body text: Quack Quack Quack!

WorkerId	Subject	Message Valid
1 A2ZXZFRG6A30J0	Ducks are the best! Quack Quack Quack!	TRUE

Messaging Workers

Ducks are the best!



Inbox x



William Hamilton via [bounces.amazon.com](#)

7:31 PM (4 minutes ago)

to me ▾

Message from William Hamilton (kyle.hamilton@gmail.com)

Quack Quack Quack!

Greetings from Amazon Mechanical Turk,

The message above was sent by an Amazon Mechanical Turk user.
Please review the message and respond to it as you see fit.

Sincerely,
Amazon Mechanical Turk
<https://www.mturk.com>
410 Terry Avenue North
SEATTLE, WA 98109-5210 USA

This is what the worker will receive in their inbox

Questions on MTurkR?



Amazon Simple Notification Service (SNS)

- Sending text messages through Amazon Web Services is not part of MTurk.
- This is a useful tool because you can text people to remind them to take follow up surveys.
- SNS also allows you to send email reminders as well

Amazon Simple Notification Service (SNS)

- SMS Messaging
 - First 100 SMS messages are free, after that it costs \$0.75 per 100 SMS messages
 - This works only in the US
- Mass Email
 - First 1,000 emails are free, after that it costs \$2.00 per 100,000
 - This works world wide

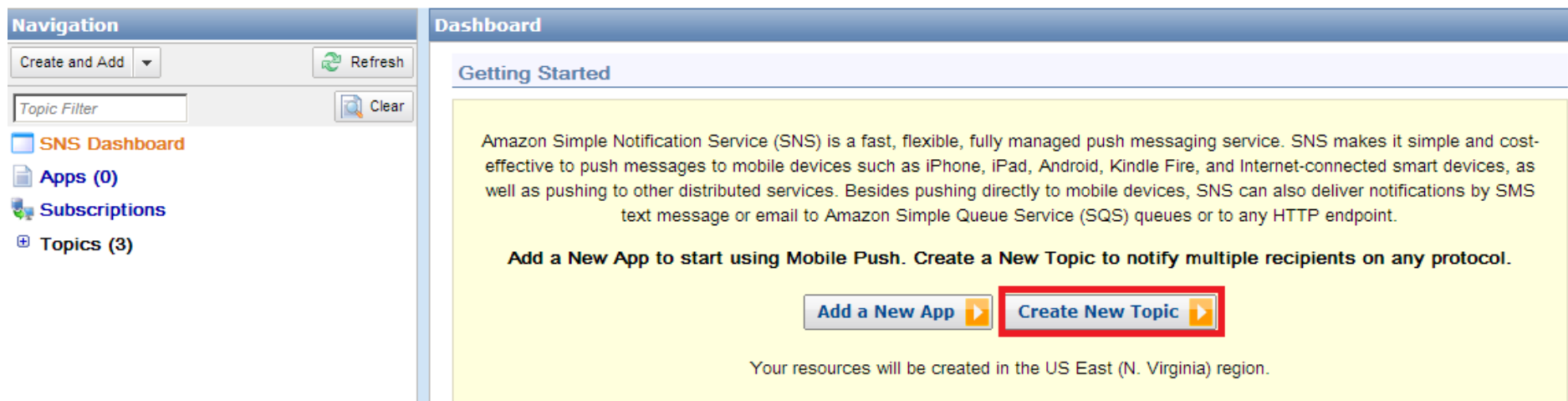
Amazon Simple Notification Service (SNS)

The screenshot shows the AWS console interface with a dark header bar containing the AWS logo, a 'Services' dropdown menu, and an 'Edit' dropdown menu. Below the header, the 'Amazon Web Services' title is displayed. The main content area is organized into six columns of service categories, each with a title and a list of services with their respective icons and descriptions. The 'SNS' service is highlighted with a red rectangular box.

Compute & Networking	Database	Analytics	Storage & Content Delivery	Deployment & Management	App Services
Direct Connect Dedicated Network Connection to AWS	DynamoDB Predictable and Scalable NoSQL Data Store	Data Pipeline Orchestration for Data-Driven Workflows	CloudFront Global Content Delivery Network	CloudFormation Templated AWS Resource Creation	Elastic MapReduce Managed Hadoop Framework
EC2 Virtual Servers in the Cloud	ElastiCache In-Memory Cache	Elastic MapReduce Managed Hadoop Framework	Glacier Archive Storage in the Cloud	CloudTrail User Activity and Change Tracking	CloudSearch Managed Search Service
Route 53 Scalable Domain Name System	RDS Managed Relational Database Service	Elastic Transcoder Easy-to-use Scalable Media Transcoding	S3 Scalable Storage in the Cloud	Redshift Managed Petabyte-Scale Data Warehouse Service	SES Email Sending Service
VPC Isolated Cloud Resources		SNS Push Notification Service	Storage Gateway Integrates On-Premises IT Environments with Cloud Storage	CloudWatch Resource and Application Monitoring	SQS Message Queue Service
		SWF Workflow Service for Coordinating Application Components		Elastic Beanstalk AWS Application Container	
				IAM Secure AWS Access Control	
				OpsWorks DevOps Application Management Service	

Click on SNS

Amazon Simple Notification Service (SNS)



The screenshot shows the Amazon SNS console interface. On the left is a 'Navigation' sidebar with links to 'SNS Dashboard', 'Apps (0)', 'Subscriptions', and 'Topics (3)'. The main area is titled 'Dashboard' and contains a 'Getting Started' section. This section includes a paragraph describing SNS as a fast, flexible, fully managed push messaging service. Below the text, there is a bold instruction: 'Add a New App to start using Mobile Push. Create a New Topic to notify multiple recipients on any protocol.' Under this instruction are two buttons: 'Add a New App' and 'Create New Topic'. The 'Create New Topic' button is highlighted with a red rectangular border. At the bottom of the 'Getting Started' section, a note states: 'Your resources will be created in the US East (N. Virginia) region.'

Navigation

Create and Add ▼ Refresh

Topic Filter Clear

SNS Dashboard

Apps (0)

Subscriptions

Topics (3)

Dashboard

Getting Started

Amazon Simple Notification Service (SNS) is a fast, flexible, fully managed push messaging service. SNS makes it simple and cost-effective to push messages to mobile devices such as iPhone, iPad, Android, Kindle Fire, and Internet-connected smart devices, as well as pushing to other distributed services. Besides pushing directly to mobile devices, SNS can also deliver notifications by SMS text message or email to Amazon Simple Queue Service (SQS) queues or to any HTTP endpoint.

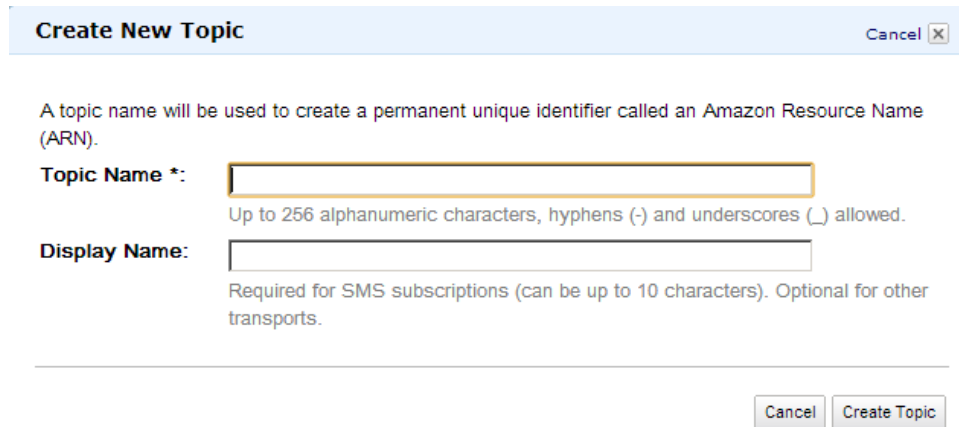
Add a New App to start using Mobile Push. Create a New Topic to notify multiple recipients on any protocol.

Add a New App **Create New Topic**

Your resources will be created in the US East (N. Virginia) region.

Click on “Create New Topic”

Amazon Simple Notification Service (SNS)



The screenshot shows the 'Create New Topic' dialog box in the AWS Management Console. It has a light blue header bar with the title 'Create New Topic' and a 'Cancel' button with a close icon. Below the header, there is a paragraph explaining that a topic name will be used to create a permanent unique identifier called an Amazon Resource Name (ARN). The form contains two input fields: 'Topic Name *:' and 'Display Name:'. The 'Topic Name' field has a yellow border and a tooltip that says 'Up to 256 alphanumeric characters, hyphens (-) and underscores (_) allowed.' The 'Display Name' field has a tooltip that says 'Required for SMS subscriptions (can be up to 10 characters). Optional for other transports.' At the bottom of the dialog, there are two buttons: 'Cancel' and 'Create Topic'.

Create New Topic Cancel X

A topic name will be used to create a permanent unique identifier called an Amazon Resource Name (ARN).

Topic Name *:

Up to 256 alphanumeric characters, hyphens (-) and underscores (_) allowed.


Display Name:

Required for SMS subscriptions (can be up to 10 characters). Optional for other transports.

Cancel Create Topic

- Topic Name will be shown only to you
- Display Name will be shown to all the people you are sending the message to
- In this example I used the Topic Name of Ducks_are_the_best and the Display Name of QUACKQUACK

Amazon Simple Notification Service (SNS)






 Ducks_are_the_best

Topic ARN: arn:aws:sns:us-east-1:173143279378:Ducks_are_the_best

Topic Owner: 173143279378


Region: us-east-1

Display Name: QUACKQUACK

 Create Subscription  Delete Subscriptions  Delivery Policy  Subscription Attributes  Clear

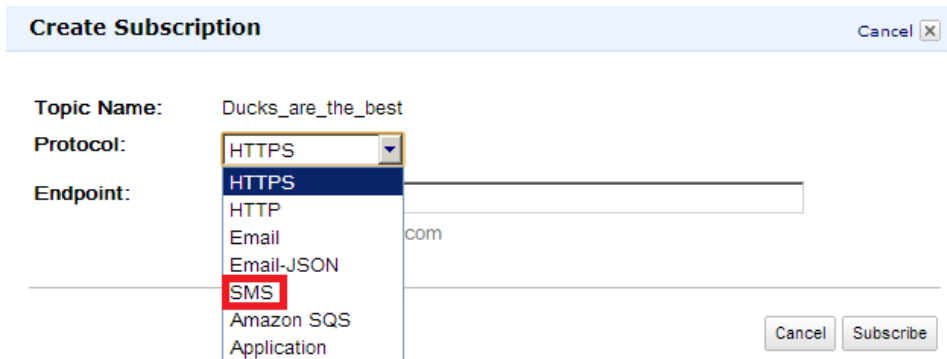
No items << < > >>

To receive notifications published to this topic, create a subscription. A subscription links a topic to an endpoint such as an email address or URL.

[Create Subscription](#) 

Amazon Simple Notification Service (SNS)

- Clicking on Create Subscription will bring up this menu
- For SMS text messages click SMS
- For Email message click on Email



The screenshot shows the 'Create Subscription' dialog box in the AWS Management Console. The 'Topic Name' field is filled with 'Ducks_are_the_best'. The 'Protocol' dropdown menu is open, showing a list of options: HTTPS (highlighted in blue), HTTP, Email, Email-JSON, SMS (highlighted with a red box), Amazon SQS, and Application. The 'Endpoint' field is partially visible, showing '.com'. At the bottom right, there are 'Cancel' and 'Subscribe' buttons.

Amazon Simple Notification Service (SNS)

Create Subscription Cancel X

Topic Name: Ducks_are_the_best

Protocol: SMS

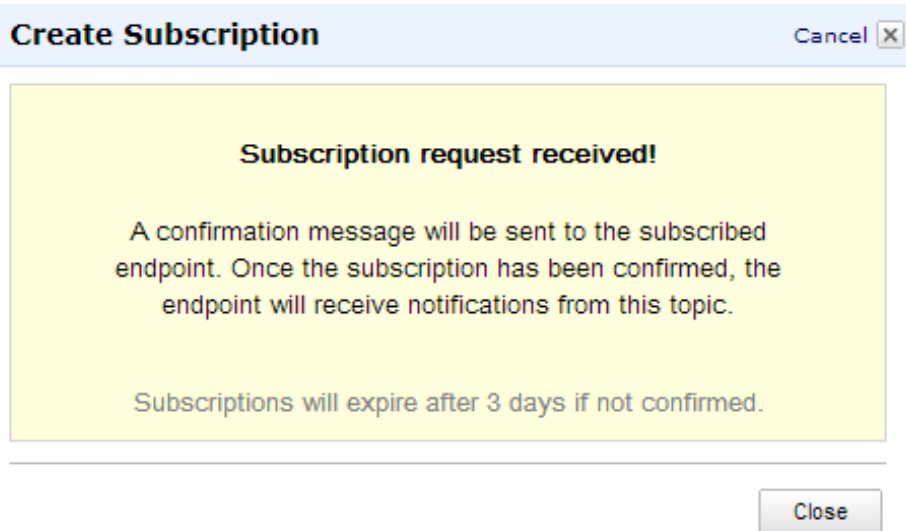
Endpoint: 15593925782
e.g. 1-206-555-6423

For terms and conditions, please see: <http://aws.amazon.com/sns/sms>
Reply HELP for help to 30304. Reply STOP to cancel to 30304.
Msg&data rates may apply. Frequency based on user.
1-866-216-1072

Cancel Subscribe

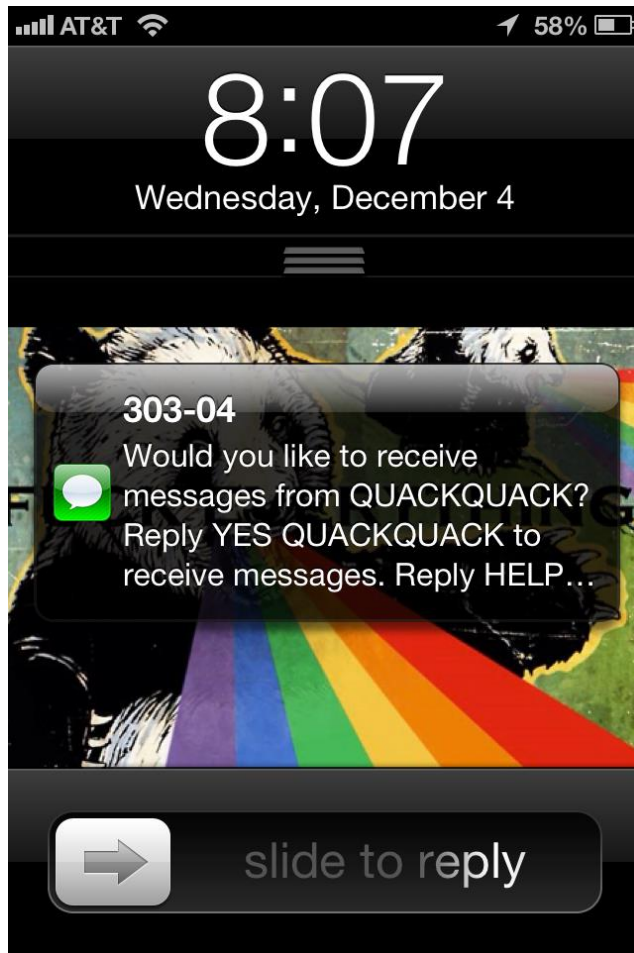
- For this workshop I'm going to use my cell phone number
- This is important, you must include the area code with the county code
- For the United States the county code is 1
- 1-559-392-5782 will work
- 559-392-5782 will **not** work

Amazon Simple Notification Service (SNS)



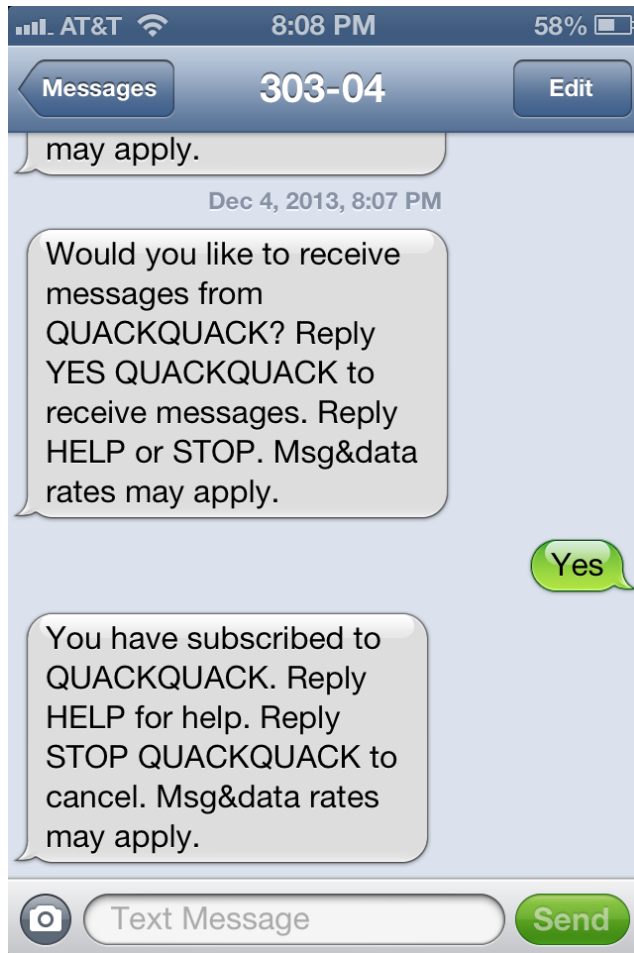
- Once you've signed someone up you will get this message
- They will have three days to confirm that they want to get text messages from you
- You have to enter the numbers one at a time

Amazon Simple Notification Service (SNS)



- Once you've signed someone up you will get this message
- They will have three days to confirm that they want to get text messages from you
- You have to enter the numbers one at a time

Amazon Simple Notification Service (SNS)



- With a little Excel wizardry you can do this quite quickly.
- Took me about 15 minutes to end in 50 cell phone numbers

Amazon Simple Notification Service (SNS)

AWS Notification - Subscription Confirmation



Inbox x



QUACKQUACK <no-reply@sns.amazonaws.com>

to me ▾

8:23 PM (0 minutes ago) ☆

You have chosen to subscribe to the topic:

arn:aws:sns:us-east-1:173143279378:Ducks_are_the_best


To confirm this subscription, click or visit the link below (If this was in error no action is necessary):

[Confirm subscription](#)

Please do not reply directly to this e-mail. If you wish to remove yourself from receiving all future SNS subscription confirmation requests please send email to [sns-opt-out](#)

- You can also add email addresses as well
- Follow the same process as for text messages but use Email instead of SMS

Amazon Simple Notification Service (SNS)

← → ↻  https://sns.us-east-1.amazonaws.com/confirmation.html?TopicArn=arn:aws:sns:us-east-1:173143279378:Ducks_are_the_best:21be9df7-6fcc-4255-982d-de5af8065d42



Simple Notification Service

Subscription confirmed!

You have subscribed kyle.hamilton@gmail.com to the topic:
Ducks_are_the_best.


Your subscription's id is:
arn:aws:sns:us-east-1:173143279378:Ducks_are_the_best:21be9df7-6fcc-4255-982d-de5af8065d42


If it was not your intention to subscribe, [click here to unsubscribe](#).

- Once they click the subscribe button they will be taken to this website
- Note that the Display Name is visible

Amazon Simple Notification Service (SNS)

Topic Details

All Topic Actions  Publish






 **Ducks_are_the_best**

Topic ARN: arn:aws:sns:us-east-1:173143279378:Ducks_are_the_best

Topic Owner: 173143279378

Region: us-east-1

Display Name: QUACKQUACK

 Create Subscription  Delete Subscriptions  Delivery Policy  Subscription Attributes  Clear

	Subscription ID	Protocol	Endpoint
<input type="checkbox"/>	PendingConfirmation	sms	15593925782

- In order to send text or email message to everyone on your list click on “Publish”

Amazon Simple Notification Service (SNS)

The screenshot shows the 'Publish' dialog box in the Amazon SNS console. At the top, there is a blue header bar with the word 'Publish' on the left and a 'Cancel' button with a close icon on the right. Below the header, the 'Topic Name' is set to 'Ducks_are_the_best'. The 'Subject' field contains the text 'Go hug your duck! He misses you very much! Bring Bread!' and has a note below it stating 'Up to 100 printable ASCII characters (optional)'. The 'Message' field contains the text 'This part will only be able to be seen by people getting an email, SMS people will not be able to read what I'm typing here' and has a note below it stating 'Up to 256KB of Unicode text.'. Below the message field, there are two radio buttons: 'Use same message body for all protocols' (which is selected) and 'Use different message body for different protocols'. At the bottom of the dialog, there are two buttons: 'Cancel' and 'Publish Message'. A note at the bottom of the dialog states: 'For SMS notifications, it is best to leave the Subject field blank and place your text in the Message field to send a maximum of 140 characters. If the Subject field is not blank, the text in the Subject field will be used as content for the SMS messages.'

- After you click the publish button you will be taken to this screen
- For SMS messages only the Subject line will be sent
- For Email messages the whole message will be sent

Amazon Simple Notification Service (SNS)




- SMS Messages will look like this to the user

Amazon Simple Notification Service (SNS)

Go hug your duck! He misses you very much! Bring Bread!



Inbox x

 **QUACKQUACK** <no-reply@sns.amazonaws.com>
to me ▾

8:30 PM (0 minutes ago) ☆

This part will only be able to be seen by people getting an email, SMS people will not be able to read what I'm typing here

--

If you wish to stop receiving notifications from this topic, please click or visit the link below to unsubscribe:

https://sns.us-east-1.amazonaws.com/unsubscribe.html?SubscriptionArn=arn:aws:sns:us-east-1:173143279378:Ducks_are_the_best:21be9df7-6fcc-4255-982d-de5af8065d42&Endpoint=kyle.hamilton@gmail.com

Please do not reply directly to this e-mail. If you have any questions or comments regarding this email, please contact us at sns-question@amazon.com

- Email messages will look like this to the user

Questions about Amazon SNS?



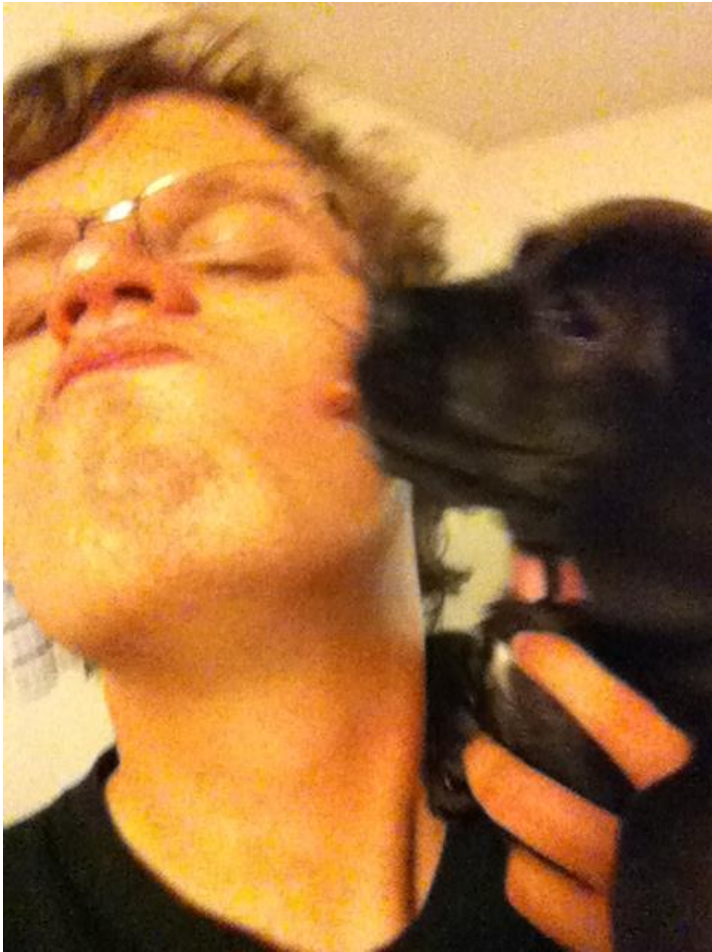
MTurk Qualifications

- What are Qualifications in MTurk?
 - Qualifications allow you to prevent the general MTurk population from accepting your survey
 - Use screeners to find a group of people you are looking for
 - For example if you want to only sample people over the age of 35 you would make a screener in the general population and assign a Qualification to all workers over 35, make a new survey and allow only people with that Qualification to take it.

MTurk Qualifications

- Today I want to find people who think I'm amazing and sample them.
- So I'm going to create a KyleIsGreat Qualification.
- Screen out the Kyle Haters.
- Followed by inviting all the people who think I'm amazing to my survey about me.

Data used for this workshop



- I paid workers \$0.05 to write something about this photo of me and a friends puppy, it could be as long or as short as they liked
- I also paid an extra \$0.03 bonus for them to let me send them a text message today

Data used for this workshop

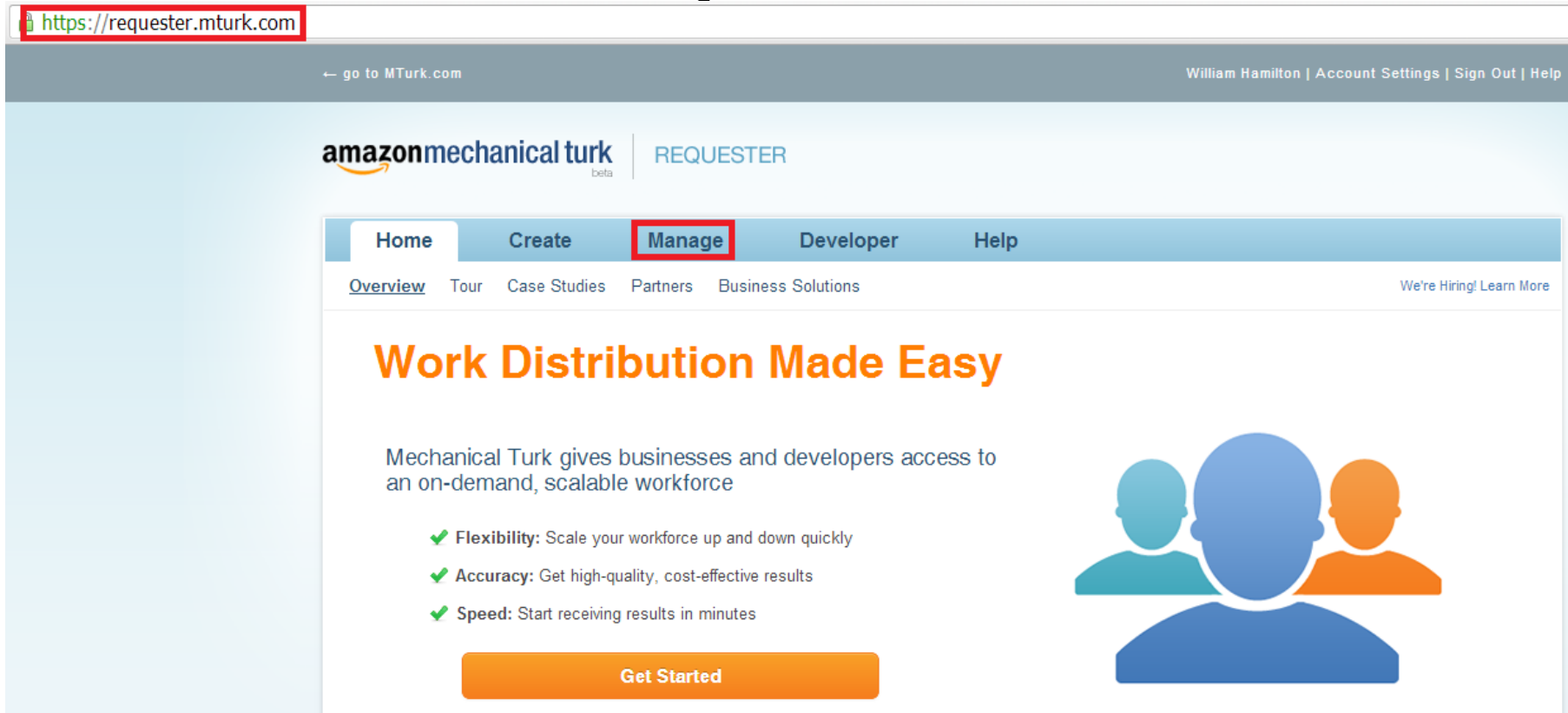
Nice things said about me

- Puppy loves your face!
- Someone's getting a doggy kiss!
- Aww so cute :)
- LOOK AT THE PUPPY! LOOK AT IT!
AWWWWWWWWWWWWWWWWWWW
Name it Shoes.
- This photo shows the love between a puppy and its owner. You don't usually see photos like these with cats and their owners because their behavior isn't very loving.
- The photo is a bit adorable though it is very unfocused and blurry. The man seems like a likable fellow.

Mean things said about me

- It is gross how the dog is licking his face. Dogs are self cleaning so they love to lick their anus. I wouldn't want that on my face.
- The dog is cuter than the man. It is also licking the mans face.
- That dog is pretty cute. Not sure why that person doesn't want anything to do with that cute dog kiss.
- Huge chin and seems the dog isn't licking him.
- A boy with glasses being licked by a black puppy.
- Cute puppy licking guys "duck face".

Mturk Qualifications



- Goto the requester site at <http://requester.mturk.com>
- Click Manage

Mturk Qualifications

amazonmechanical turk beta REQUESTER

Home Create **Manage** Developer Help

[Results](#) Workers Qualification Types [Manage HITs individually](#)

Manage Batches

Click on the name of the batch to see more details

▶ Batches in progress (1)

▼ Batches ready for review (21)

« Previous 1 2 3 Next »

[MTurk Test Project 1](#) [Results](#) [Delete](#)

Created:	December 03, 2013	Assignments Completed:	100 / 100
Time Elapsed:	1 day	Estimated Completion Time:	COMPLETE
Average Time per Assignment:	2 minutes 1 seconds	Effective Hourly Rate:	\$1.488
Batch Progress:	<div><div></div><div>100% submitted</div><div>100% published</div></div>		

- This is the Manage tab, you'll notice I just collected data for this workshop

Mturk Qualifications

Review Results

Select the check boxes on the left to approve or reject results. You only pay for approved results. To evaluate results offline, select Download CSV.

For additional batch information, [view batch details](#).

MTurk Test Project 1

[Customize View](#) [Filter Results](#)

[Upload CSV](#)

[Approve All](#)

[Download CSV](#)

- Here you can download all of the results from your HIT
- Click Download CSV

Mturk Qualifications

Download Batch Results

MTurk Test Project 1

Please click [here](#) to download your Batch results file.

You can review your results offline and approve or reject the assignments.

1. **APPROVE ASSIGNMENT:** Indicate which assignments to approve by putting an "x" under a column titled "Approve".
2. **REJECT ASSIGNMENT:** Indicate which assignments to reject by putting your reject feedback under a column titled "Reject".

The Batch results file was last updated on 9:39 PM PST.

If Workers are still working on your Batch, you can view up to the minute results on the [Review Results](#) page for the Batch at anytime.

You can download an updated file on or after 10:39 PM PST by clicking the **Download CSV** button on the [Review Results](#) page for the batch. Clicking on **Download CSV** before 10:39 PM PST will return the previously generated file.

- Clicking on the link in the box will allow you to download your CSV file with your data
- This is important you can only generate a file once per hour so keep that in mind.

Mturk Qualifications

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE
1	HITId	HITType	Title	Description	Keywords	Reward	Creation	MaxAssign	Requests	Assignm	AutoAppr	Expiration	NumberC	Lifetime	Assignm	WorkerId	Assignm	AcceptT	SubmitT	AutoAppr	Approval	Rejection	Requests	WorkTim	Lifetime	Last30Da	Last7Day	AnswerC	AnswerC	Approve	Reject
2	2C4EC1PC	2MLW6N	Write ab	Write as	survey, d	\$0.05	Tue Dec 3	100	BatchId:1	3600	60	Sat Dec 07 22:18:06 GMT 2013	20M8Y1T/A1T16G1	Approved	Tue Dec 3	Tue Dec 3	Tue Dec 3	2013/12/03 23:08:26 +0000	85	100%	(2/; 100%	(2/; 100%	(2/; 100%	(2/; 100%	7E+09	nothing like dog selfies					
3	2C4EC1PC	2MLW6N	Write ab	Write as	survey, d	\$0.05	Tue Dec 3	100	BatchId:1	3600	60	Sat Dec 07 22:18:06 GMT 2013	20N66RL/A36PHJQ1	Approved	Tue Dec 3	Tue Dec 3	Tue Dec 3	2013/12/03 22:38:25 +0000	94	100%	(1/; 100%	(1/; 100%	(1/; 100%	(1/; 100%	7E+09	nothing like dog selfies					
4	2C4EC1PC	2MLW6N	Write ab	Write as	survey, d	\$0.05	Tue Dec 3	100	BatchId:1	3600	60	Sat Dec 07 22:18:06 GMT 2013	20N18EBC/A2B8PBFN	Approved	Tue Dec 3	Tue Dec 3	Tue Dec 3	2013/12/03 23:13:27 +0000	12	100%	(2/; 100%	(2/; 100%	(2/; 100%	(2/; 100%	7E+09	nothing like dog selfies					
5	2C4EC1PC	2MLW6N	Write ab	Write as	survey, d	\$0.05	Tue Dec 3	100	BatchId:1	3600	60	Sat Dec 07 22:18:06 GMT 2013	20O618N/A9S8I5B1	Approved	Tue Dec 3	Tue Dec 3	Tue Dec 3	2013/12/03 23:23:24 +0000	43	100%	(2/; 100%	(2/; 100%	(2/; 100%	(2/; 100%	3.5E+09	A boy with glasses is being					
6	2C4EC1PC	2MLW6N	Write ab	Write as	survey, d	\$0.05	Tue Dec 3	100	BatchId:1	3600	60	Sat Dec 07 22:18:06 GMT 2013	20S0NNV/A9M8DA7	Approved	Tue Dec 3	Tue Dec 3	Tue Dec 3	2013/12/03 23:03:24 +0000	86	100%	(1/; 100%	(1/; 100%	(1/; 100%	(1/; 100%	1.9E+10	Puppy plays and paws Peter					
7	2C4EC1PC	2MLW6N	Write ab	Write as	survey, d	\$0.05	Tue Dec 3	100	BatchId:1	3600	60	Sat Dec 07 22:18:06 GMT 2013	21ALKH1/A3RYH60	Approved	Tue Dec 3	Tue Dec 3	Tue Dec 3	2013/12/03 22:43:26 +0000	494	100%	(8/; 100%	(1/; 100%	(1/; 100%	(1/; 100%	218-390-3	Puppy licking face					
8	2C4EC1PC	2MLW6N	Write ab	Write as	survey, d	\$0.05	Tue Dec 3	100	BatchId:1	3600	60	Sat Dec 07 22:18:06 GMT 2013	21DPHIT3/AVC62JNY	Approved	Tue Dec 3	Tue Dec 3	Tue Dec 3	2013/12/03 23:48:24 +0000	58	100%	(2/; 100%	(2/; 100%	(2/; 100%	(2/; 100%	6.3E+09	This dog is very happy to se					
9	2C4EC1PC	2MLW6N	Write ab	Write as	survey, d	\$0.05	Tue Dec 3	100	BatchId:1	3600	60	Sat Dec 07 22:18:06 GMT 2013	21KQV66/A1UUNYH	Approved	Tue Dec 3	Tue Dec 3	Tue Dec 3	2013/12/03 15:20:50 PST 2013	42	100%	(2/; 100%	(2/; 100%	(2/; 100%	(2/; 100%	7.3E+09	The puppy is cute!					
10	2C4EC1PC	2MLW6N	Write ab	Write as	survey, d	\$0.05	Tue Dec 3	100	BatchId:1	3600	60	Sat Dec 07 22:18:06 GMT 2013	223R18IU/A1A9QL81	Approved	Tue Dec 3	Tue Dec 3	Tue Dec 3	2013/12/03 14:23:57 PST 2013	40	100%	(1/; 100%	(1/; 100%	(1/; 100%	(1/; 100%	6.1E+09	There's a cute little puppy!					
11	2C4EC1PC	2MLW6N	Write ab	Write as	survey, d	\$0.05	Tue Dec 3	100	BatchId:1	3600	60	Sat Dec 07 22:18:06 GMT 2013	223R18IU/AV4TNBC	Approved	Tue Dec 3	Tue Dec 3	Tue Dec 3	2013/12/03 23:13:26 +0000	18	100%	(2/; 100%	(2/; 100%	(2/; 100%	(2/; 100%	7.2E+09	puppy licking a guy					

- You can ignore most of this data, the three most important parts are columns P, AB, and AC
 - P has our Worker ID Number
 - AB and AC have our Data
- U tells you when the HIT was approved
- X tells you how long it took a worker to do the study
- Y, Z, AA all have how many studies a worker has done for you

MTurk Qualifications

- Screened all 100 answers into three categories
 - Pro Kyle messages got a score of 100
 - Neutral messages got a score of 50
 - Anti Kyle messages got a score of 0
- You can give a Qualification score between 0 and 100
- Now I have to download my Worker file so I can update all of my wonderful workers!

MTurk Qualifications

Home Create **Manage** Developer Help

Results Workers **Qualification Types** Manage HITs individually

Manage Batches

Click on the name of the batch to see more details

▶ Batches in progress (1)

▼ Batches ready for review (21)

« Previous 1 2 3 Next »

MTurk Test Project 1		Results Delete	
Created:	December 03, 2013	Assignments Completed:	100 / 100
Time Elapsed:	1 day	Estimated Completion Time:	COMPLETE
Average Time per Assignment:	2 minutes 1 seconds	Effective Hourly Rate:	\$1.488
Batch Progress:	<div><div></div><div>100% submitted100% published</div></div>		

- Go to the Manage Tab and click on Qualification Types

MTurk Qualifications

Create New Qualification Type

This will create a new Qualification Type that can be assigned to Workers.

Friendly Name:

Description:

Kyle is wonderful

The Qualification Type you are creating does not require Workers to take a Qualification test. You can create a Qualification Type that requires Workers to take a test using the Developer Tools. [Get more info.](#)

Create or Cancel

- Click Create New Qualification, enter a friendly name, note that the workers can see this name

MTurk Qualifications

Home Create **Manage** Developer Help

[Results](#) **Workers** Qualification Types [Manage HITs individually](#)

Manage Batches

Click on the name of the batch to see more details

▶ Batches in progress (1)

▼ Batches ready for review (21)

« Previous 1 2 3 Next »

MTurk Test Project 1		Results Delete	
Created:	December 03, 2013	Assignments Completed:	100 / 100
Time Elapsed:	1 day	Estimated Completion Time:	COMPLETE
Average Time per Assignment:	2 minutes 1 seconds	Effective Hourly Rate:	\$1.488
Batch Progress:	<div><div></div><div>100% submitted100% published</div></div>		

- Go back to the Manage Tab and click on Workers

MTurk Qualifications

Manage Workers

The Workers who have completed work for you are listed below. Select a Worker ID to bonus, block, unblock, assign a Qualification, or revoke a Qualification. To block, unblock, or change Qualification settings for multiple Workers, select Download CSV. Select Customize View to change which Qualification Types are displayed in the table below.

Customize View

Download CSV

Upload CSV

Show my Workers by: **Lifetime** Last 30 days Last 7 days

« Previous 1 2 3 4 5 6 7 8 9 ... 84 85 Next »

- Once you're there on the workers tab, click Download CSV, it will generate a CSV file with every worker you've ever used

MTurk Qualifications

[Manage Workers](#) > [Download Workers Results](#)

Download Workers Results

Please click [here](#) to download your Workers file.

You can analyze your Workers offline and take action.

1. **ASSIGN QUALIFICATION TYPE:** Indicate which Qualification Type to assign a Worker by putting the Qualification score number under the column with UPDATE and your Qualification Type name. You can assign a Qualification score between 0 and 100.
2. **REVOKE QUALIFICATION TYPE:** To revoke the Qualification Type, put "Revoke" under the UPDATE column for your Qualification Type.
3. **BLOCK OR UNBLOCK:** Block or unblock a worker by putting "Block" or "Unblock" under the column titled "UPDATE BlockStatus."

The Workers file was last updated at 10:47 PM PST.

- Click on the link to download your worker file
- If you've used a lot of workers on MTurk this might take awhile, for me it took 17 minutes and I have used 2115 workers

MTurk Qualifications

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	Worker ID	Link to Inc	Number o	Number o	Your Life	Number o	Number o	Your Last	Number o	Number o	Your Last	CURRENT- UPDATE-c	CURRENT- UPDATE-S	CURRENT- UPDATE-P	CURRENT- UPDATE-KyleIsGreat				
2	A002160837SWJFPIA17L7	https://re	2	2	100.00%	0	0	0.00%	0	0	0.00%								
3	A00236363DL2ZN8A4FD7	https://re	1	1	100.00%	0	0	0.00%	0	0	0.00%								
4	A09265903LS1OKAES4KA	https://re	2	2	100.00%	0	0	0.00%	0	0	0.00%	100							
5	A106ZWSYEM18J2	https://re	1	1	100.00%	0	0	0.00%	0	0	0.00%	100							
6	A108CUUOEG505F	https://re	1	1	100.00%	1	1	100.00%	1	1	100.00%								
7	A1099JALGGQRRRC	https://re	2	2	100.00%	2	2	100.00%	2	2	100.00%			1					
8	A109DJ40HMXWT7	https://re	1	1	100.00%	0	0	0.00%	0	0	0.00%								

- Here is the excel file with all my workers
- The only columns we are interested in here at columns **A** and **S**
 - **A** has my Worker ID numbers
 - **S** has the UPDATE – KyleIsGreat Qualification

MTurk Qualifications

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	V
1	Worker ID	Link to Inc	Number o	Number o	Your Lifet	Number o	Number o	Your Last	Number o	Number o	Your Last	CURRENT- UPDATE-c	CURRENT- UPDATE-S	CURRENT- UPDATE-P	CURRENT- UPDATE-KyleIsGreat	CURRENT- UPDATE-H	CURRENT- UPD						
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							
13																							
14																							
15																							

- Next I'm going to delete all of the data **EXCEPT THE FIRST ROW**
- Then I'm going to add all the Worker ID numbers from my study

MTurk Qualifications

	P	AC	AF	AG	AH	AI
1	WorkerId	Answer.comment				
2	A1T16G11LQWFXC	nothing like dog selfies				
3	A36PHJQHYZ6BE	Though the photo is blurry, the dog looks really				
4	A2BPBFN87X32NO	A man showing off his new puppy				
5	AGSBI5BV26539	A boy with glasses is being licked on the cheek				
6	A9M8DA7B54IFG	Puppy plays and paws Peter.				
7	A3RYH6OUH7BJ4Z	Puppy licking face				
8	AVC62JNYAXA45	This dog is very happy to see his owner. I'm not				
9	A1UUNYHX3M8O3O	The puppy is cute!				
10	A1A9QL8W3AIDQL	There's a cute little puppy licking a guy's face.				
11	AV4TNBC7V6JI6	puppy licking a guy				
12	AVETZHRMCBL8H	There is a puppy licking this guy's face, it's cute				
13	A2BH0SKH37R2VL	No want doggy kiss!				
14	A2JLS8VHLTWVP8	This picture makes me want to go home and play				
15	A37LF5ANPTJZZS	puppy attack!				
16	A2TFMGNQXSFJNL	cute puppy!				

- When I go back to my data from my study I go back to Column **P** and **AC**
- Remember P has our Worker ID and AC has our data
- Now I'm going to move the Worker ID numbers over to the Worker file and assign them Qualification values based on their answers.

MTurk Qualifications

	A	S
1	Worker ID	UPDATE-KyleIsGreat
2	A1T16G11LQWFXC	100
3	A36PHJQHYZ6BE	50
4	A2BPBFN87X32NO	100
5	AGSBI5BV26539	0
6	A9M8DA7B54IFG	0
7	A3RYH6OUH7BJ4Z	0
8	AVC62JNYAXA45	0
9	A1UUNYHX3M8O3O	100
10	A1A9QL8W3AIDQL	50

- When I go back to my worker sheet I go back to Column **A** and **S**
- Remember **A** has our Worker ID and **S** has our Qualification Score for KyleIsGreat

MTurk Qualifications

Manage Workers

The Workers who have completed work for you are listed below. Select a Worker ID to bonus, block, unblock, assign a Qualification, or revoke a Qualification. To block, unblock, or change Qualification settings for multiple Workers, select Download CSV. Select Customize View to change which Qualification Types are displayed in the table below.


[Customize View](#)[Download CSV](#)[Upload CSV](#)

Show my Workers by: [Lifetime](#) [Last 30 days](#) [Last 7 days](#)

« Previous [1](#) [2](#) [3](#) [4](#) [5](#) [6](#) [7](#) [8](#) [9](#) ... [84](#) [85](#) Next »

- Go back to the workers tab, click Upload CSV, and upload the file we just saved with the new qualification scores.

MTurk Qualifications

Manage Workers Offline 

You can analyze your Workers offline and take action.

1. **ASSIGN QUALIFICATION TYPE:** Indicate which Qualification Type to assign a Worker by putting the Qualification score number under the column with UPDATE and your Qualification Type name. You can assign a Qualification score between 0 and 100.
2. **REVOKE QUALIFICATION TYPE:** To revoke the Qualification Type, put "Revoke" under the UPDATE column for your Qualification Type.
3. **BLOCK OR UNBLOCK:** Block or unblock a worker by putting "Block" or "Unblock" under the column titled "UPDATE BlockStatus."

Please select your Worker CSV file for upload

No file chosen

or [Cancel](#)

- Choose the File that we just saved with our new qualification scores
- Click Upload CSV

MTurk Qualifications

[Manage Workers](#) > **Offline Processing**

Offline Processing

Please review the following information and confirm your choices:

- Assign **9** Qualification Scores
- Revoke **0** Qualifications
- Block **0** Workers
- Unblock **0** Workers

Would you like to continue?

Cancel

Yes

- Review and make sure that you've assigned the right number of qualifications
- Click yes and the qualifications will be assigned

Final Steps

- After you have given a worker a qualification and have put your study up on MTurk you should message them through MTurkR and tell them about your study, don't forget to include a link Turkers are lazy you want to make things easy for them

Selection: 11

Contact one worker or multiple workers?

1: Single Worker

2: Multiple Workers

Selection: 2

Email Subject Line: Thank you for your help

Email body text: Thanks again, your work really made my class intrested in what I was talking about

How many workers to notify: 9

Enter each WorkerId on own line:

1: A1T16G11LQWFXC

2: A36PHJQHYZ6BE

3: A2BPBFN87X32NO

4: AGSBI5BV26539

5: A9M8DA7B54IFG

6: A3RYH6OUH7BJ4Z

7: AVC62JNYAXA45

8: A1UUNYHX3M8030

9: A1A9QL8W3AIDQL

Read 9 items

	WorkerId	Subject
1	A1T16G11LQWFXC	Thank you for your help
2	A36PHJQHYZ6BE	Thank you for your help
3	A2BPBFN87X32NO	Thank you for your help
4	AGSBI5BV26539	Thank you for your help
5	A9M8DA7B54IFG	Thank you for your help
6	A3RYH6OUH7BJ4Z	Thank you for your help
7	AVC62JNYAXA45	Thank you for your help
8	A1UUNYHX3M8030	Thank you for your help
9	A1A9QL8W3AIDQL	Thank you for your help

	Message	Valid
1	Thanks again, your work really made my class intrested in what I was talking about	TRUE
2	Thanks again, your work really made my class intrested in what I was talking about	TRUE
3	Thanks again, your work really made my class intrested in what I was talking about	TRUE
4	Thanks again, your work really made my class intrested in what I was talking about	TRUE

Questions, Comments, Concerns, Fears?



Need more help?

- Contact Information
- William Kyle Hamilton, my friends call me Kyle
- Email: kyle.hamilton@gmail.com
- Phone: 559-392-5782
- My CV can be found at <http://bit.ly/hamiltoncv>
- This PowerPoint can be found at <http://bit.ly/MTurkDemo>
- Available to meet one on one between 9am-1pm Monday through Friday, most weekends I'm free to meet just email me and we can set up a time, most often can be found in the Cameron Lab SSM 309