



# SCALABLE MEATFRASTRUCTURE

*Building stable DevOps teams*

*Alice Goldfuss*  
**@ALICEGOLDFUSS**



A photograph of Alice Cooper, the rock musician, wearing his signature black leather outfit and heavy makeup. He is holding two lit sparklers, one in each hand, which are emitting bright sparks. The background is dark and out of focus.

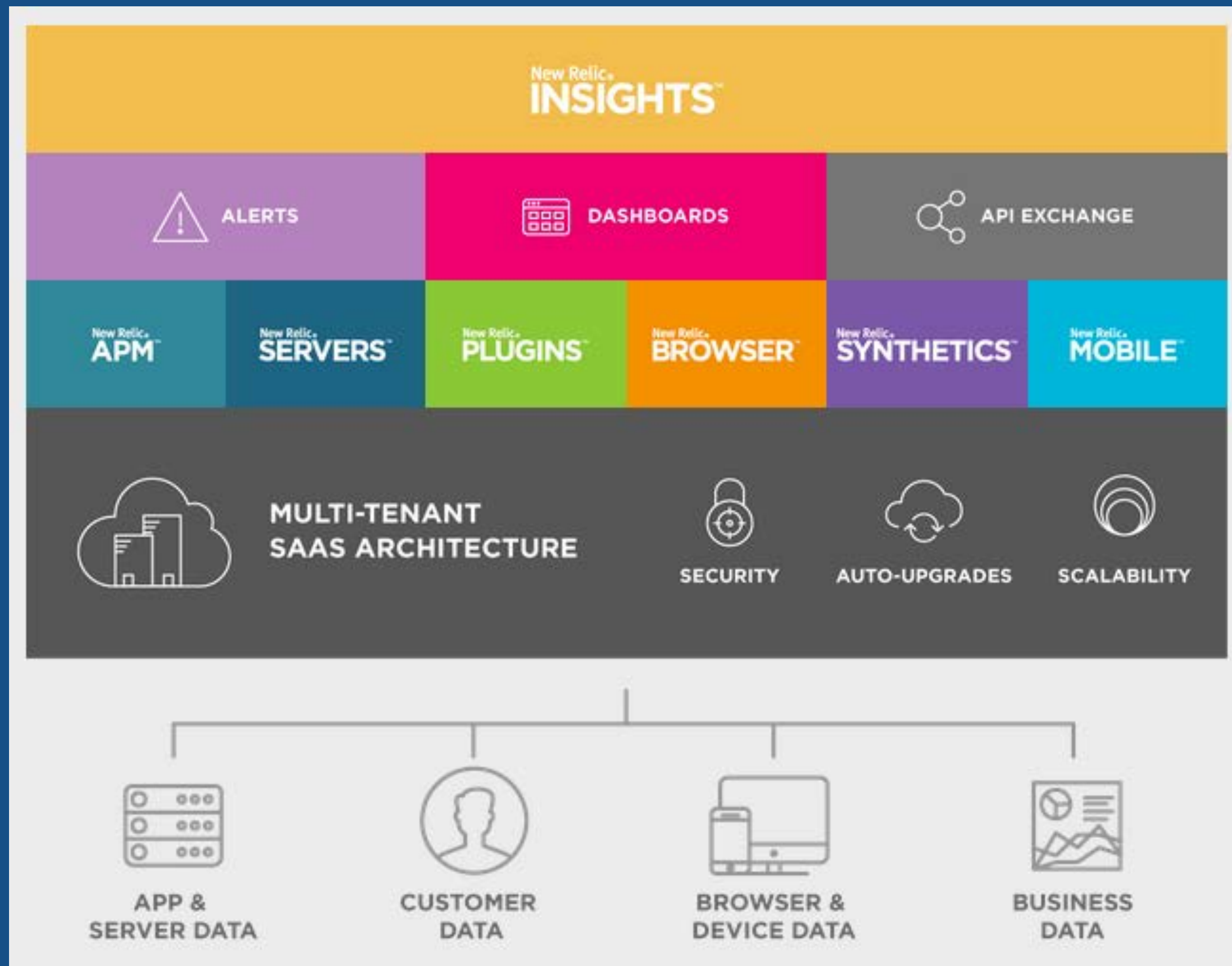
I'm  
ALICE

SRE @

The New Relic logo, consisting of a teal circle with a white inner circle containing the text "New Relic" in black.

New  
Relic®

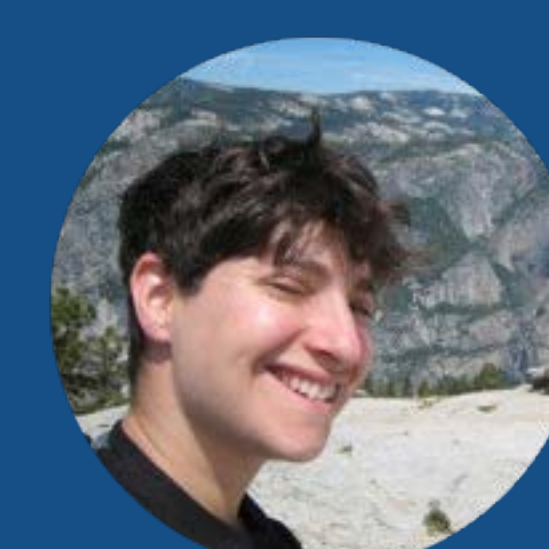
























What is  
**MEATFRASTRUCTURE?**





battery charger  
Type 2241 4 cells Li-Ion  
In: 100-240VAC  
50-60Hz max 0.2A  
0.5A 16.8V  
Orange Charge complete  
Green  
CE  
RoHS  
Do not reuse this cover  
Made in Norway

STOP! attach aerial  
before the power cord!  
(SEE QUICK START GUIDE FOR INFO)  
7881798

**SURGE PROTECTED**  
WITH SAFETY THERMAL FUSES  
**MASTERPLUS**  
NEON 'ON'  
INDICATES SURGE  
PROTECTION  
OPERATIONAL

BS  
U.K. STANDARDS

MH-10a  
17561  
AVARIN  
DO NOT  
AVARNUI  
AVERTISSA  
pas ouvrir



**ENABLE LOGGING**

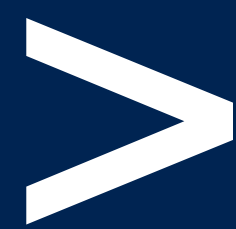
**PIPE STDOUT**

**DEFAULT CONFIGURATION**

**STABLE DISTRIBUTION**

**RELIABLE UNDER HIGH LOAD**





**ENABLE LOGGING**

PIPE STDOUT

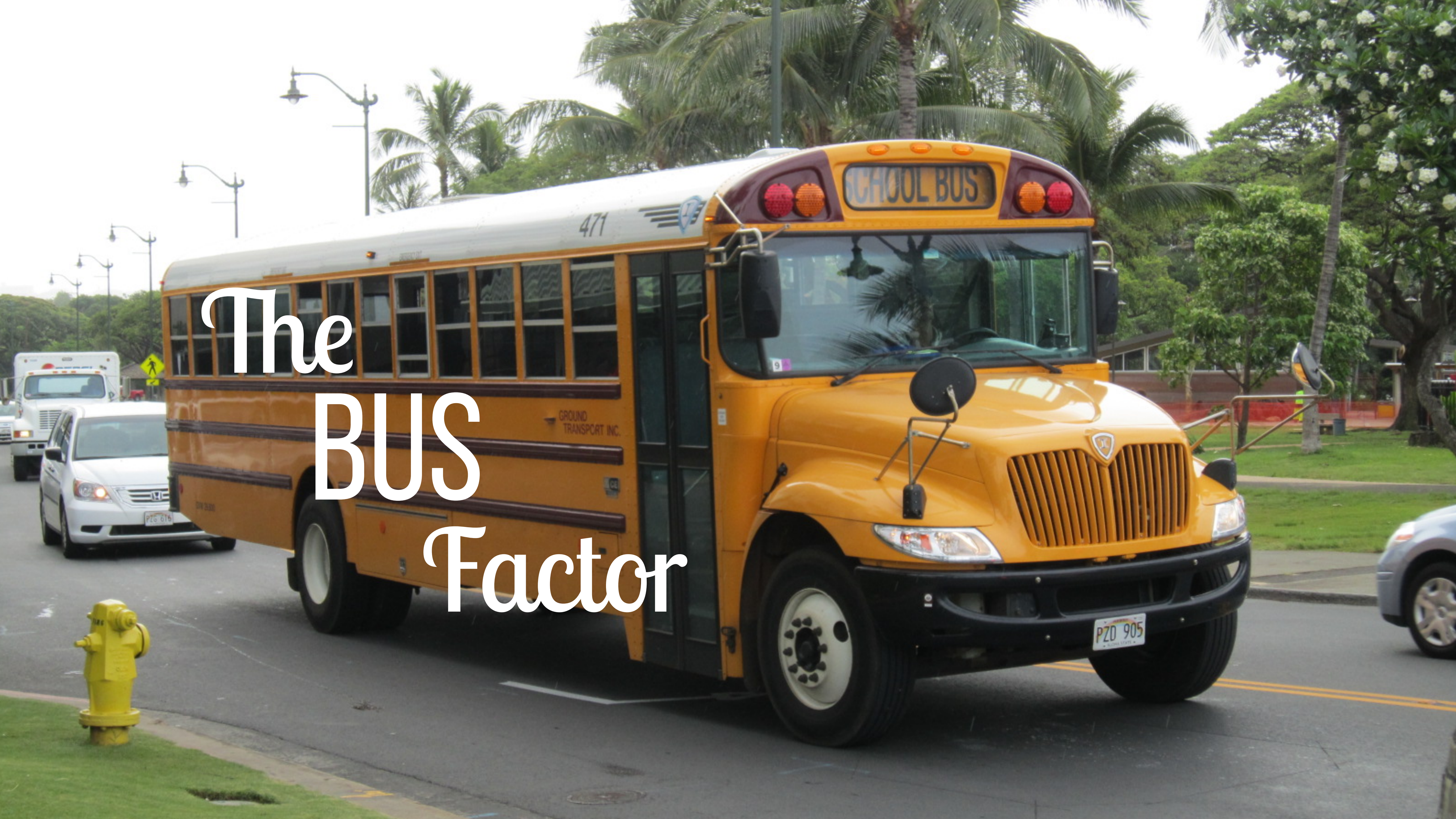
DEFAULT CONFIGURATION

STABLE DISTRIBUTION

RELIABLE UNDER HIGH LOAD



# The BUS Factor





# Oral to WRITTEN





Story time





# Write it ALL down

- Your team's mission
- Your team's chosen tools and methodologies
- Standard practices and procedures





F.A.Q.



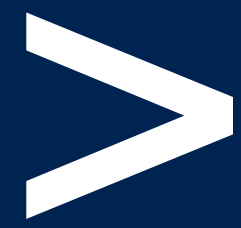


SHIP it









ENABLE LOGGING

PIPE STDOUT

DEFAULT CONFIGURATION

STABLE DISTRIBUTION

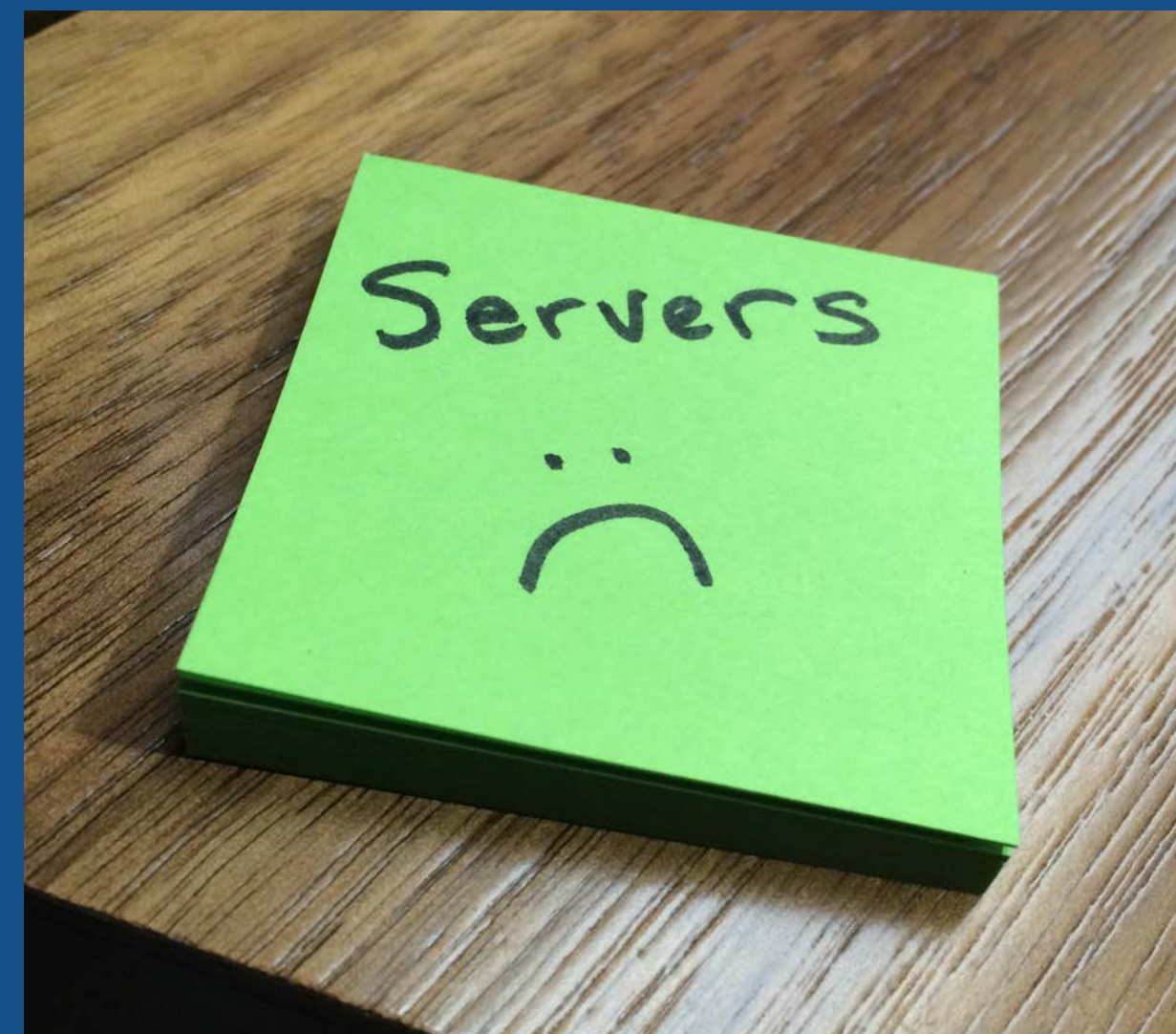
RELIABLE UNDER HIGH LOAD




A woman with blonde hair, wearing a dark dress with a light-colored geometric pattern, is seated. She is using a silver laptop with her right hand and writing in a yellow notebook with a black pen in her left hand. A tattoo is visible on her left forearm. The word "Success!" is overlaid in white cursive text on the right side of the image.

Success!







A wooden signpost stands in a dense forest. The signpost is a vertical wooden pole with a dark, possibly black, painted band around its middle. Three wooden signs are attached to the pole. The top sign is a horizontal wooden arrow pointing left, with a white paper label that reads "THIS WAY". The middle sign is a smaller wooden arrow pointing right, with a white paper label that reads "THE OTHER WAY". The bottom sign is a horizontal wooden arrow pointing right, with a white paper label that reads "THAT WAY". The background is filled with green leaves and tree branches, creating a dappled light effect.

THIS WAY

THE OTHER WAY

THAT WAY





**ONE WAY**





# Single Source of Truth

- Everyone knows where it is
- Everyone can contribute to it
- It's searchable
- It's archivable





- GitHub pages for company processes
- Gists for configuration changes
- Repos for runbooks



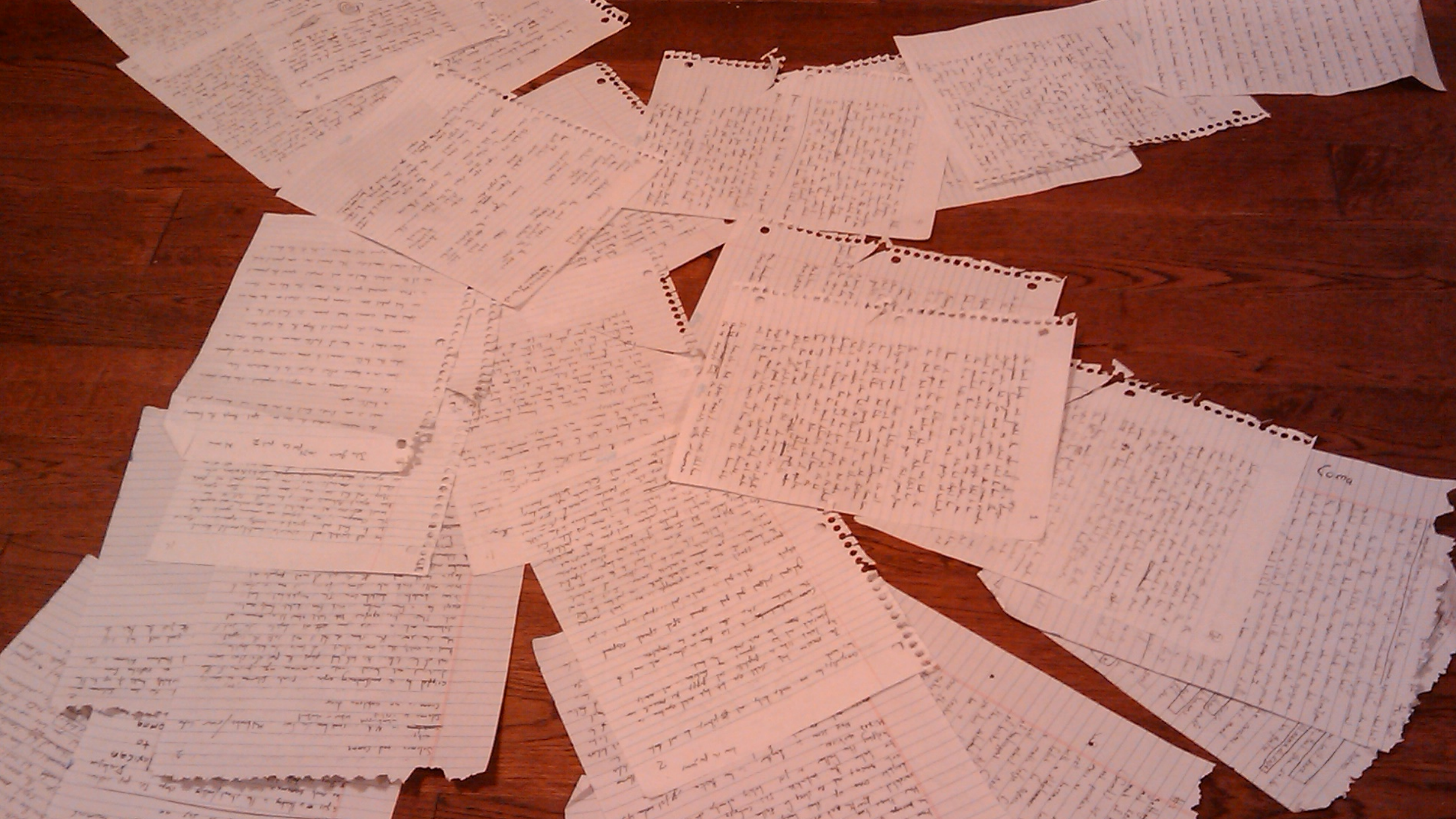






**HOLD  
UP**





...the ...  
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I am not a doctor  
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Affairs of Washington Counties



JANUARY	FEBRUARY	MARCH
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APRIL	MAY	JUNE
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
JULY	AUGUST	SEPTEMBER
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
OCTOBER	NOVEMBER	DECEMBER
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

A woman in a dark suit and glasses stands on the left side of the room, looking towards the center. She has her hands clasped in front of her.

A large, vintage mechanical typewriter with a roll of paper is positioned on a desk in the middle ground. It has a prominent carriage and a large paper tray.

A woman in a light-colored blouse with a large white bow at the neck is seated at a desk, looking towards the woman in the foreground. She is wearing glasses and has a friendly expression.

A woman in a patterned dress is seated in the foreground, viewed from behind, typing on a vintage typewriter. She is focused on her work.

A woman with glasses is seated at a desk in the background, looking towards the right side of the frame. She appears to be engaged in conversation or work.

A man in a white shirt is partially visible on the far right side of the image, looking down at something on his desk.



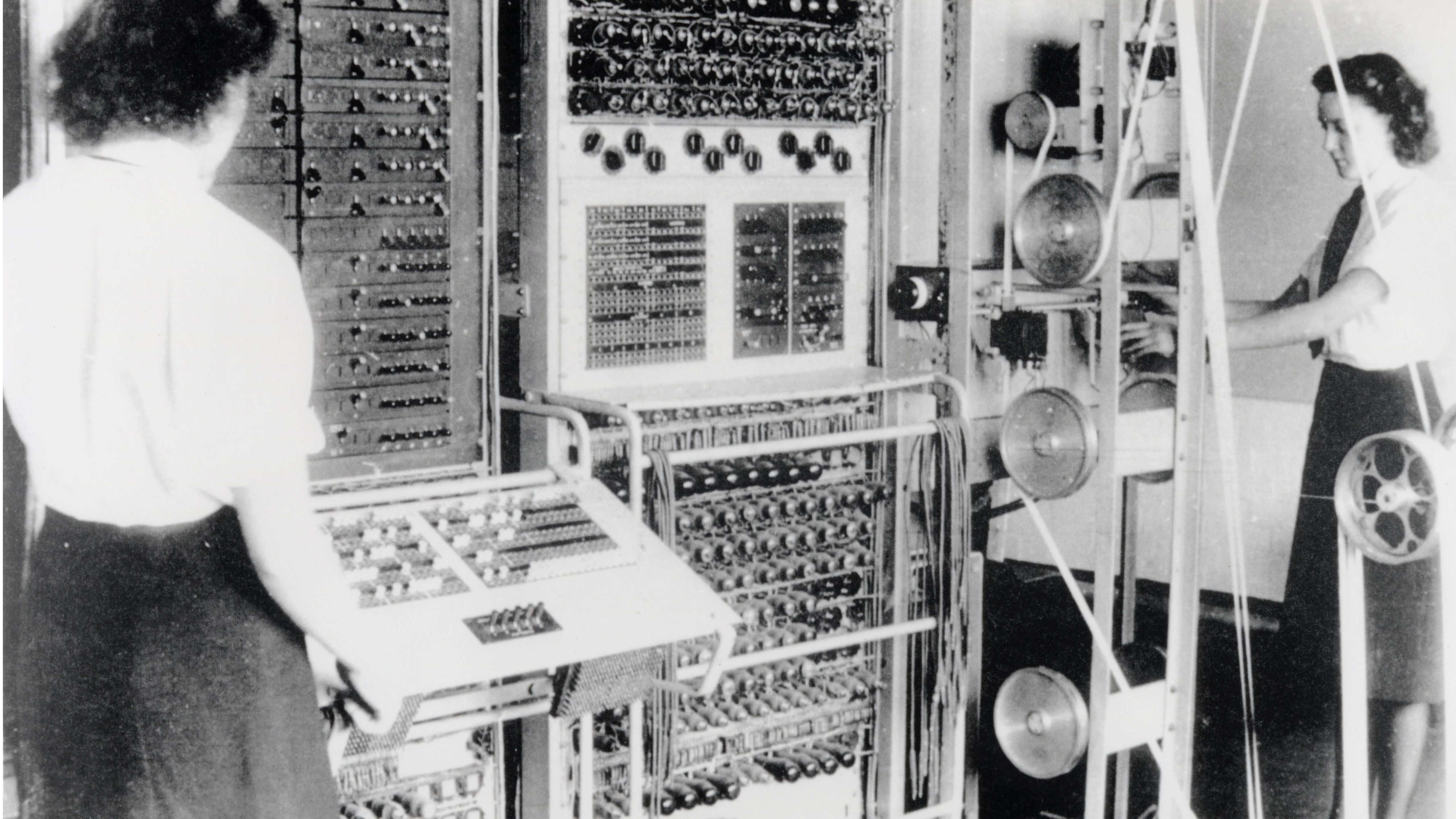




















Ejecución

...  
...  
...













ATHLETIC  
SINCE  
Aéropostale  
1967  
DIVISION





# Say Howdy to Real-Time Cattle Record Keeping

Welcome to the new way farmers and ranchers are managing their cattle. Now you can enter cattle records at home, at the ranch, and in the pastures. Record information as it happens instead of weeks later.

[Editions & Pricing](#)

or

[See It In Action](#)

*Watch the 11 minute Guided Tour video*



### CattleMax ID Edition

Basic inventory tracking, health,



### CattleMax Commercial Edition

Complete production, performance,



### CattleMax Registered Edition

Total herd management on the farm



- General
- Details
- Offspring
- Related Cattle
- Breeding
- Horns
- Performance
- Health
- Shows
- Photos

## Current Breeding & Pregnancy Information

- Breeding Date: 01-20-2012
- Estimated Calving Date: 10-29-2012 9 months and 9 days
- Breeding Method: AI
- Sire: 815
- Confirmed Pregnant on 08-15-2011

## Breeding History

[New Breeding](#)

Date	Est Calving	Method	Mating
08-01-2011 to 11-15-2011 (-3546 days)	05-10-2012 3 months and 20 days	NS	927
07-01-2011	04-09-2012 2 months and 20 days	AI	2061

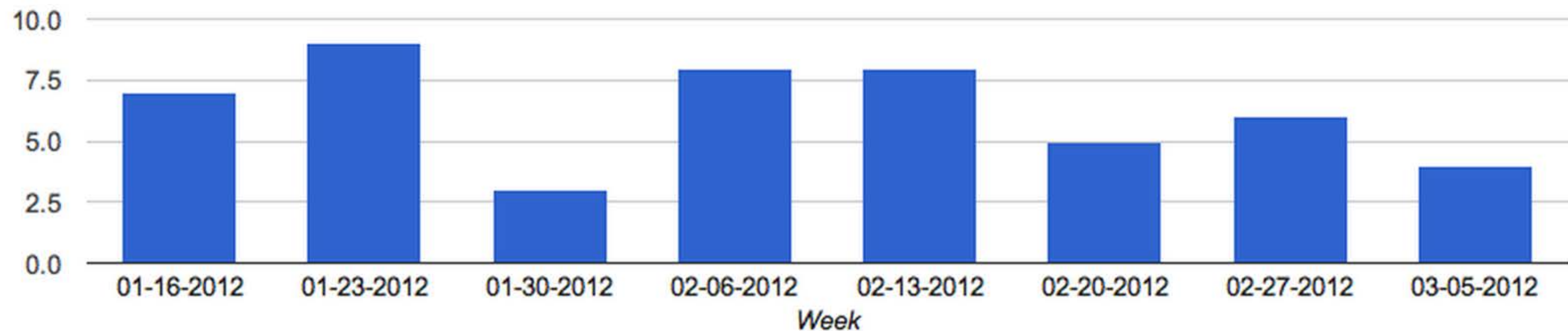
## Pregnancy Check History

[New Pregnancy Check](#)

Date	Result	Exp. due date
09-27-2011 Palpation	Pregnant 2 months	05-05-2012 3 months and 15 days

\* designates cleanup breeding record





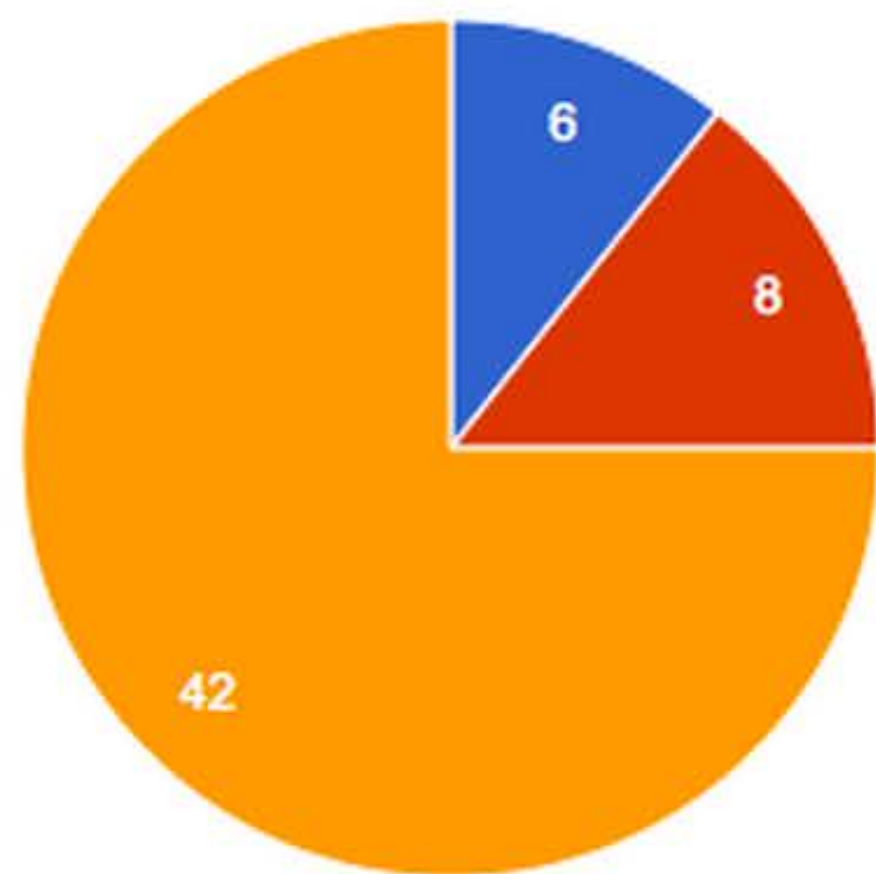
Animal	Method	Mating	Est. Date		
<a href="#">360</a>	NS	0100	01-15-2012	<a href="#">Calve this Cow</a>	<a href="#">Mark as not calving</a>
<a href="#">311</a>	NS	2019	01-15-2012	<a href="#">Calve this Cow</a>	<a href="#">Mark as not calving</a>
<a href="#">710</a>	AI	2289	01-17-2012	<a href="#">Calve this Cow</a>	<a href="#">Mark as not calving</a>
<a href="#">299</a>	AI	913	01-18-2012	<a href="#">Calve this Cow</a>	<a href="#">Mark as not calving</a>
<a href="#">872</a>	AI	3181	01-18-2012	<a href="#">Calve this Cow</a>	<a href="#">Mark as not calving</a>
<a href="#">848</a>	AI	4017	01-18-2012	<a href="#">Calve this Cow</a>	<a href="#">Mark as not calving</a>
<a href="#">533</a>	AI	913	01-18-2012	<a href="#">Calve this Cow</a>	<a href="#">Mark as not calving</a>
<a href="#">226</a>	AI	3181	01-18-2012	<a href="#">Calve this Cow</a>	<a href="#">Mark as not calving</a>
<a href="#">924</a>	NS	6164	01-20-2012	<a href="#">Calve this Cow</a>	<a href="#">Mark as not calving</a>
<a href="#">T702</a>	ET	S: 4017 D: 2338	01-25-2012	<a href="#">Calve this Cow</a>	<a href="#">Mark as not calving</a>

### Search for a cow

Search by ID

Search

### Calvings Breeding Method





## Smart Groups

Added & removed based on a criteria

Name
<a href="#">Active Bulls</a>
<a href="#">Active Calves</a>
<a href="#">Active Cattle</a>
<a href="#">Active Cows</a>
<a href="#">All Cattle</a>
<a href="#">Purchased Cattle</a>
<a href="#">Replacements</a>
<a href="#">Sold Cattle</a>
<a href="#">Unweaned Calves</a>

## Cattle Groups

Added & removed manually

Name	
<a href="#">AI Reference Bulls</a>	1 head
<a href="#">Cattle to Cull</a>	2 head
<a href="#">ET Donors</a>	12 head
<a href="#">Fall Calving Cows</a>	27 head
<a href="#">Group 3</a>	9 head
<a href="#">Herd Sires</a>	3 head
<a href="#">Replacement Heifer</a>	4 head
<a href="#">Sale Bulls</a>	1 head
<a href="#">Spring Calving Cows</a>	32 head
<a href="#">Year Fall 2010</a>	32 head
<a href="#">Year Fall 2011</a>	33 head
<a href="#">Year Fall 2012</a>	26 head
<a href="#">Year Spring 2010</a>	92 head
<a href="#">Year Spring 2011</a>	77 head

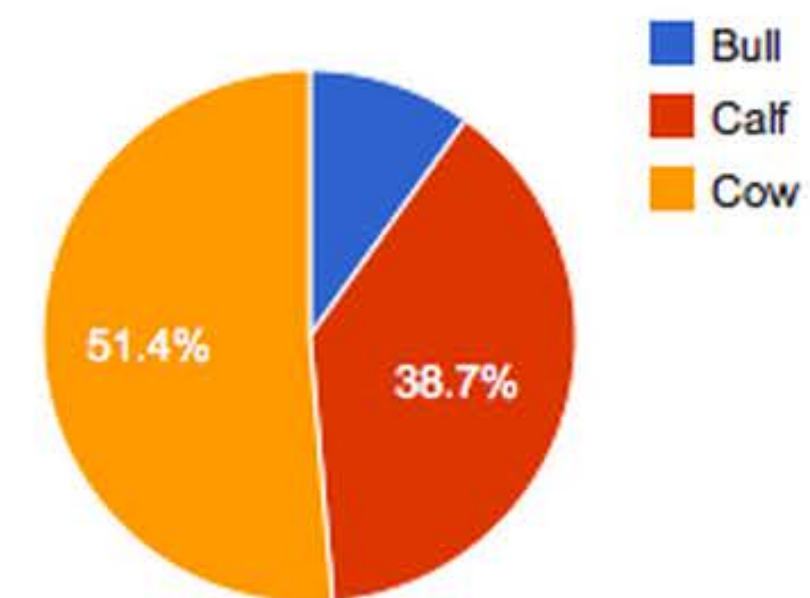
## Search

Search by ID

Search

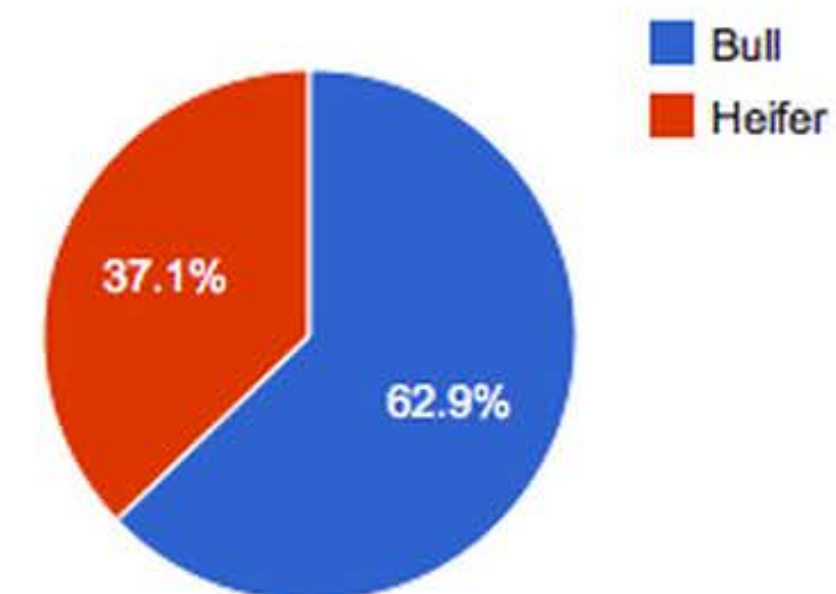
## Active Animals

Bull 18 Calf 70 Cow 93



## Active Calves

Bull 44 Heifer 26









SHIP it





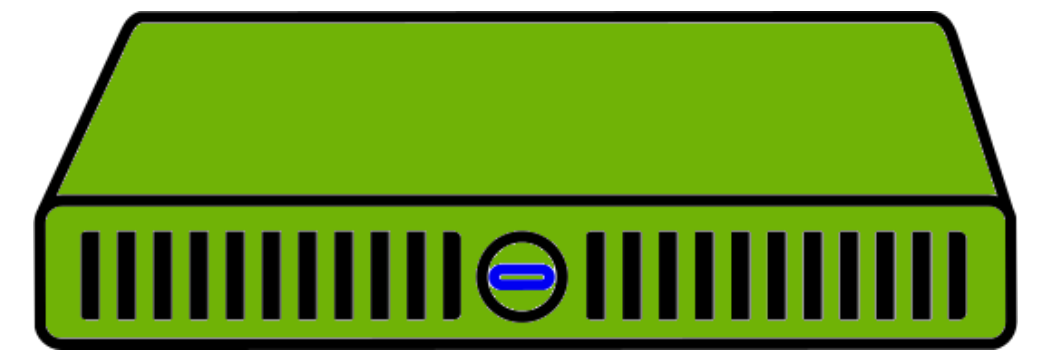
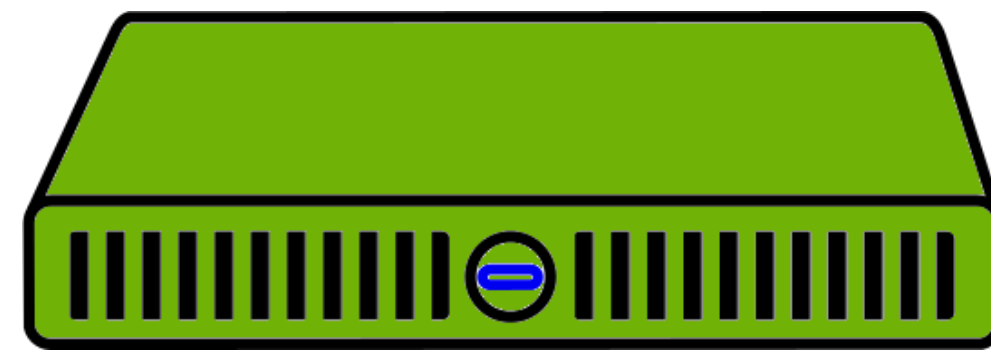
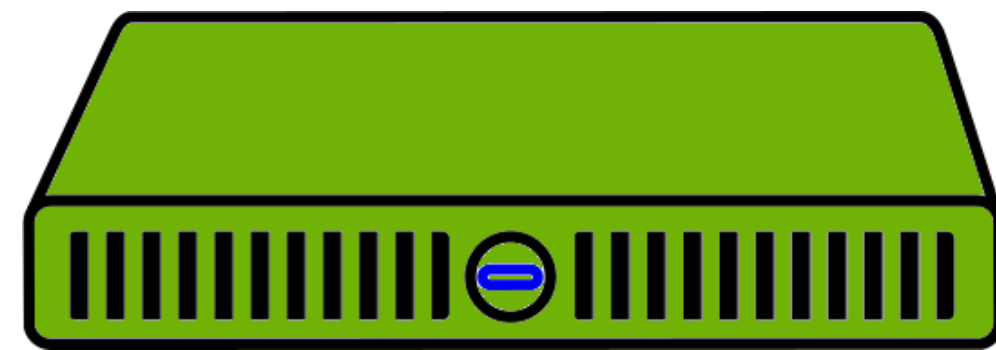
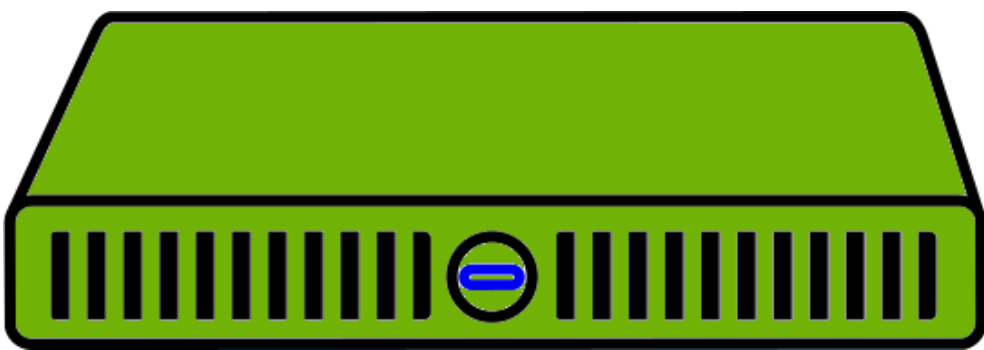
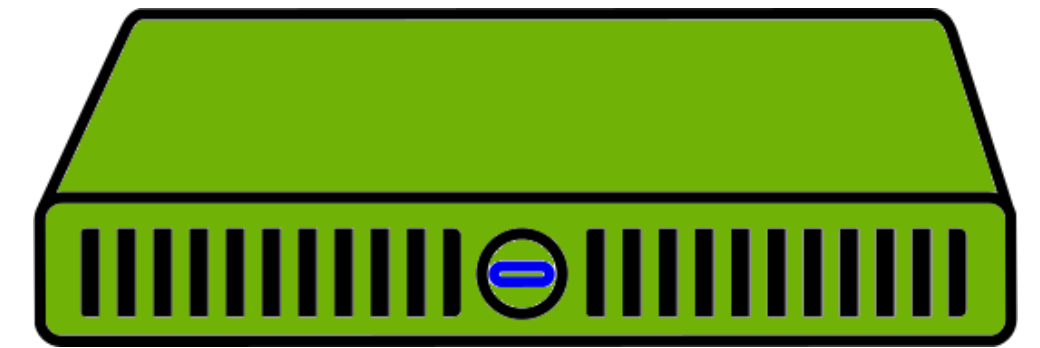
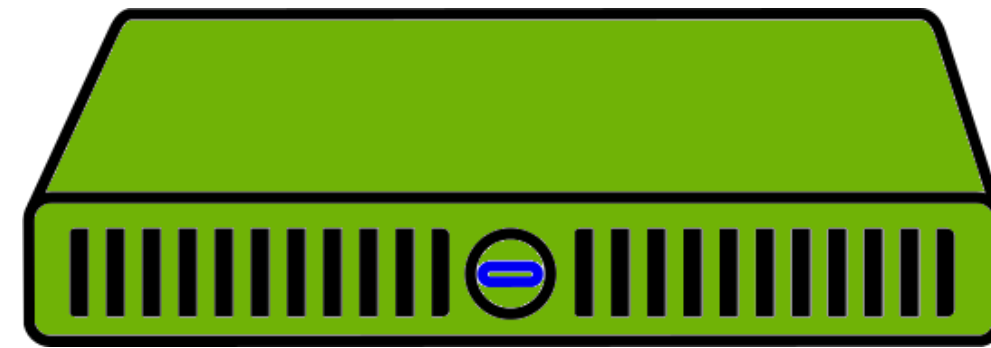
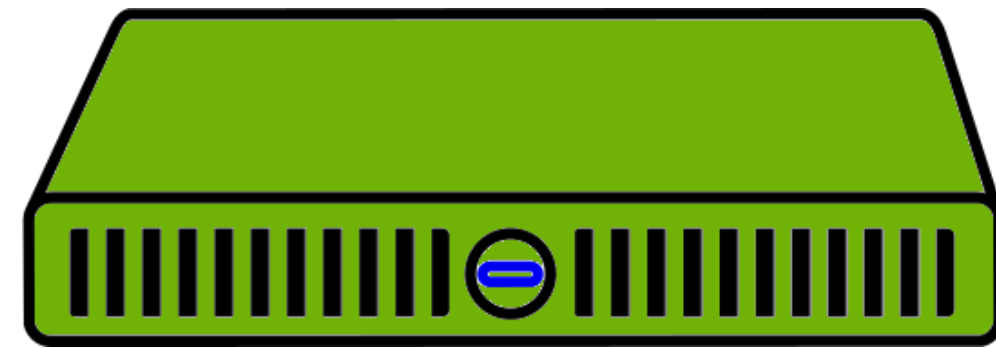
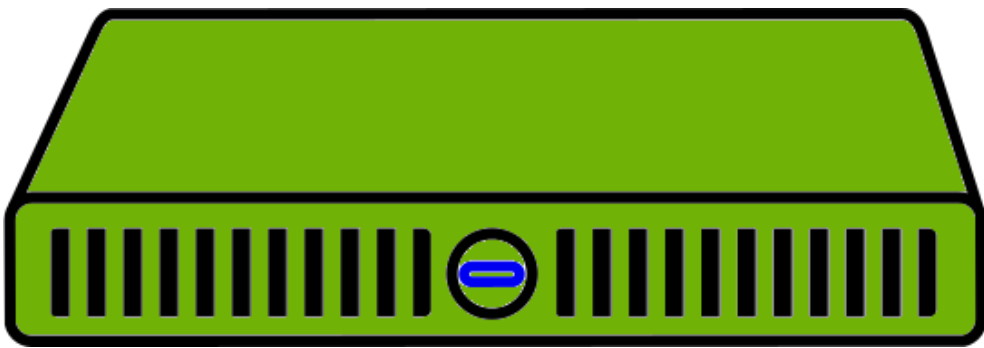
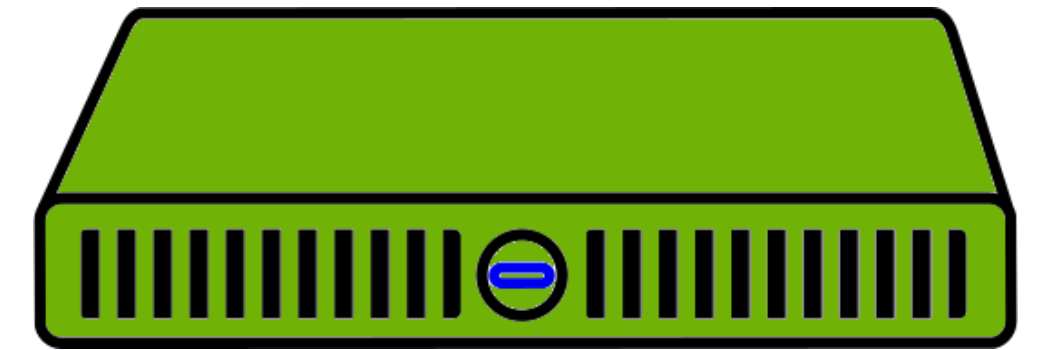
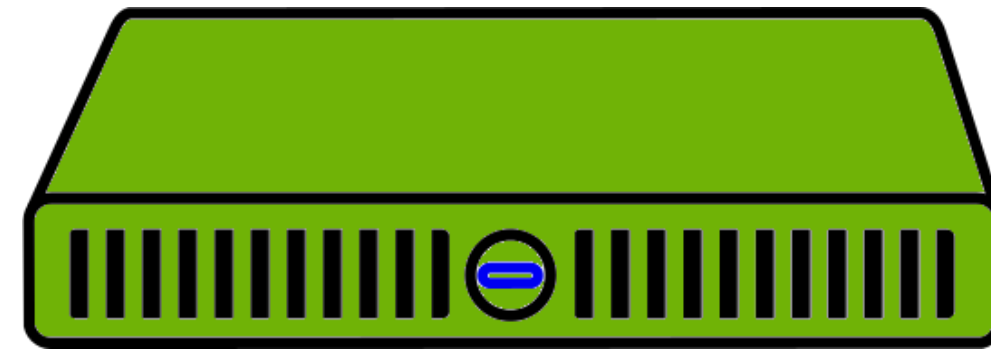
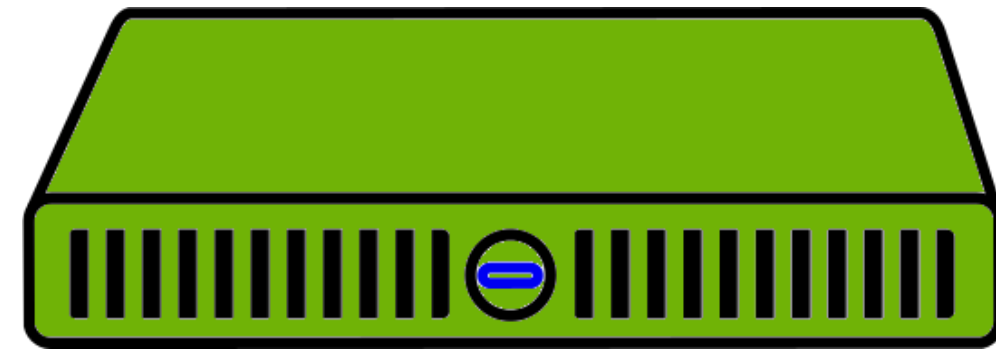
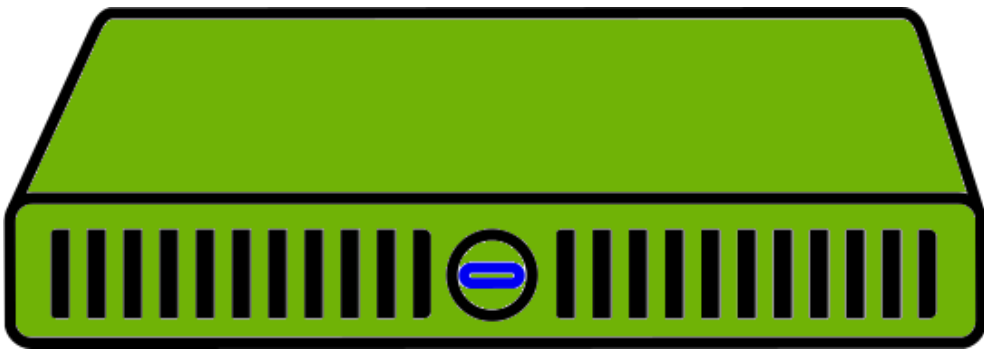


What's on  
**FIRE** today?





# What's on FIRE today?

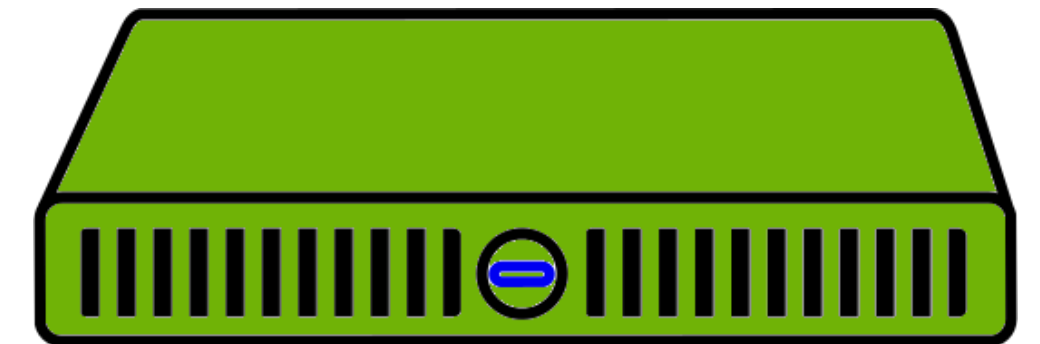
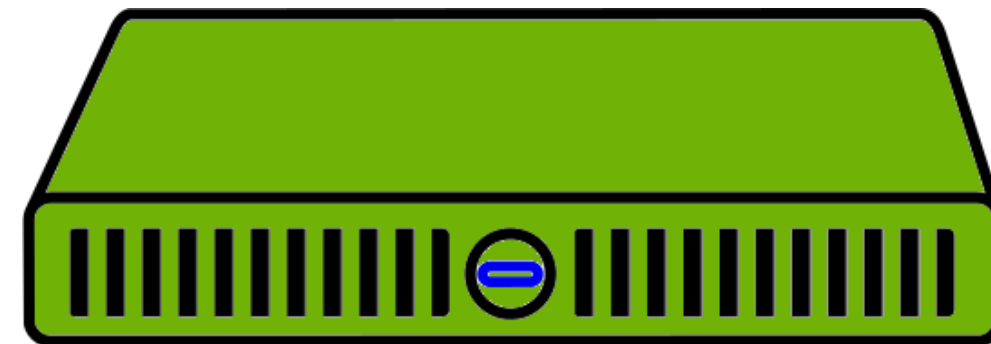
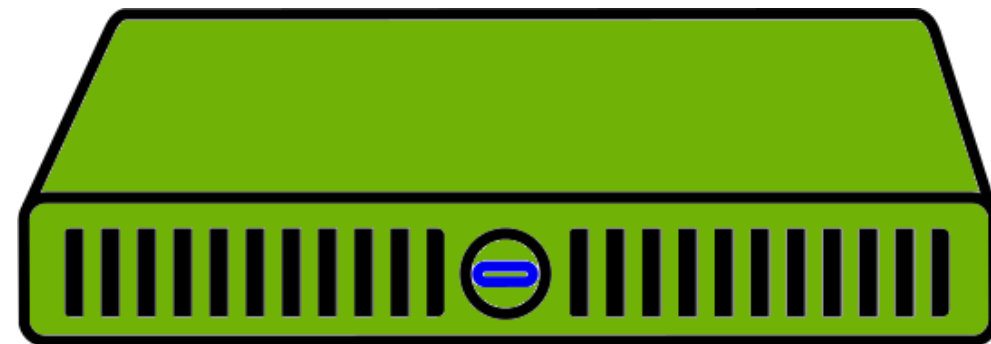
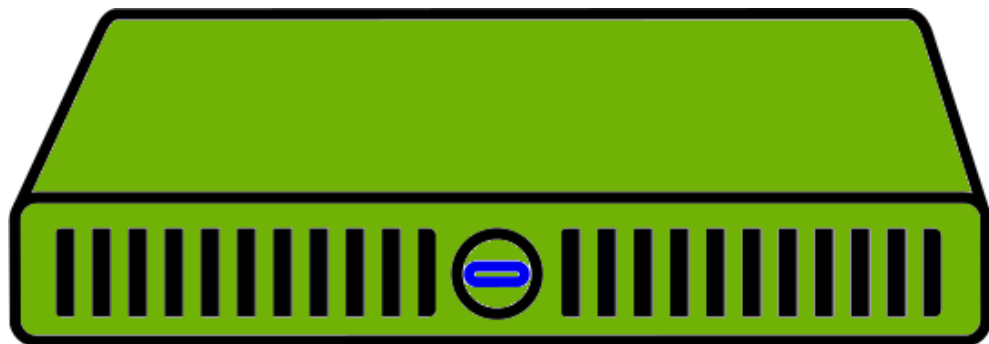
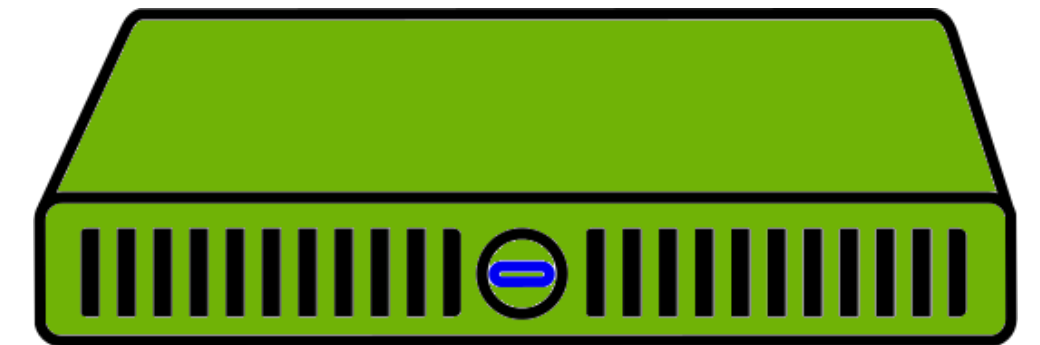
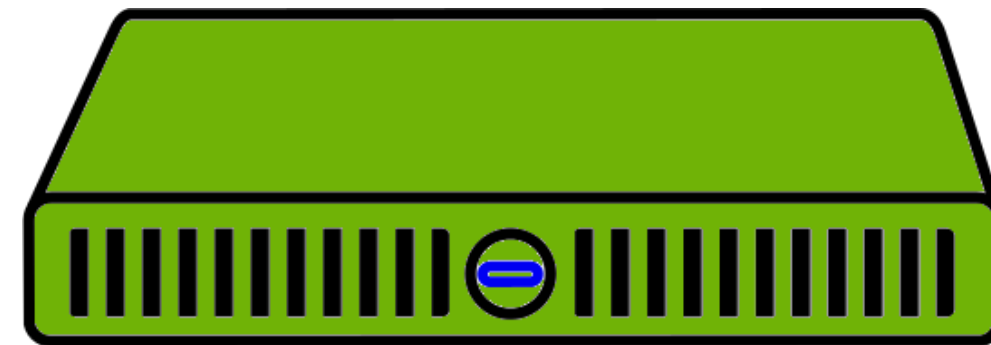
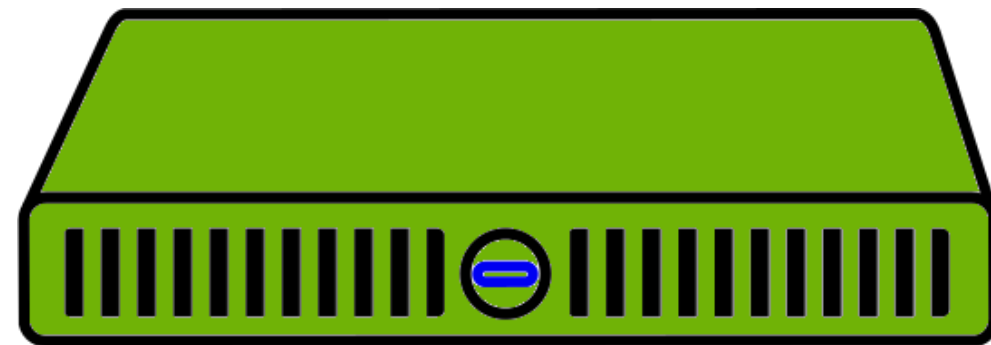
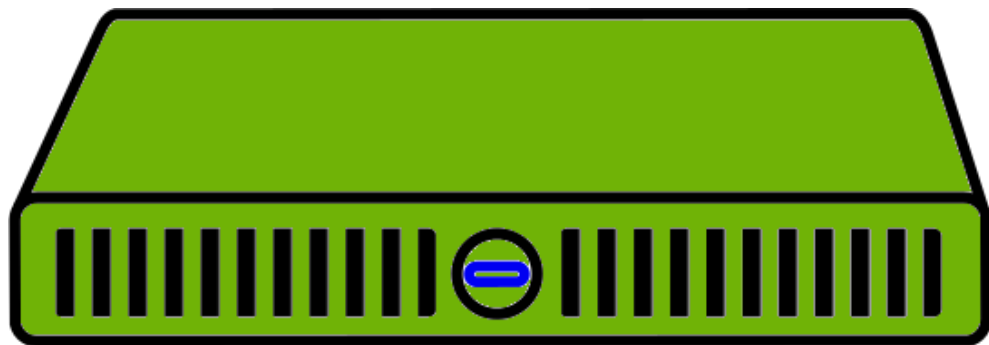
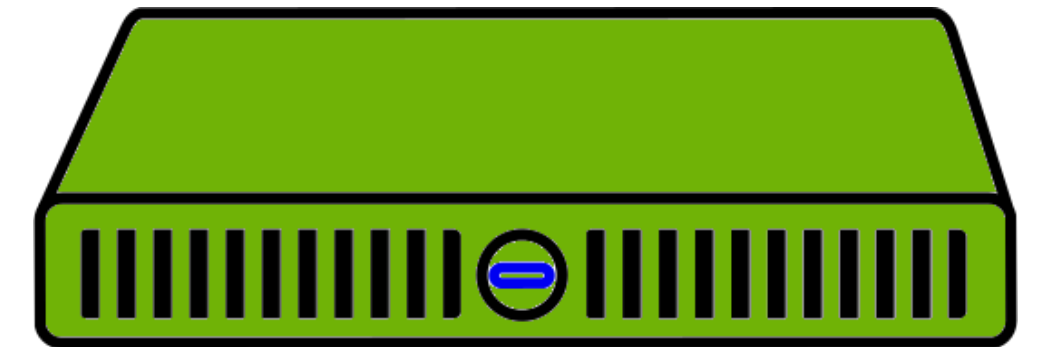
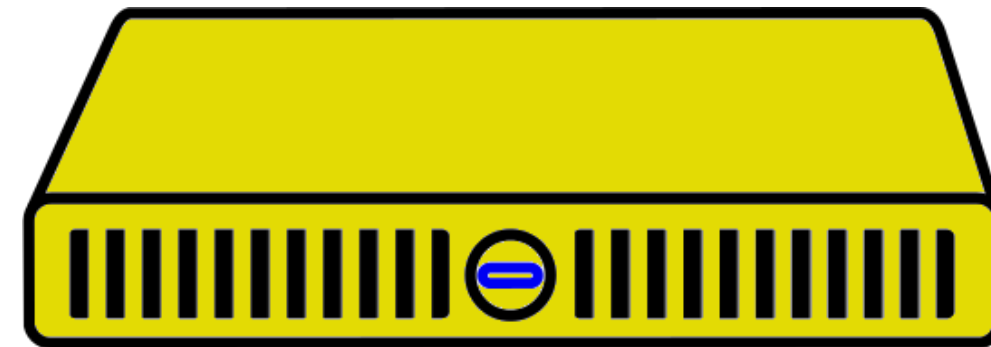
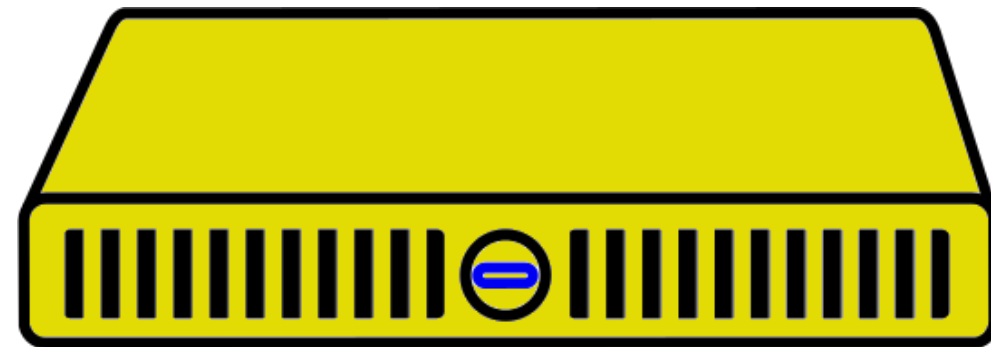
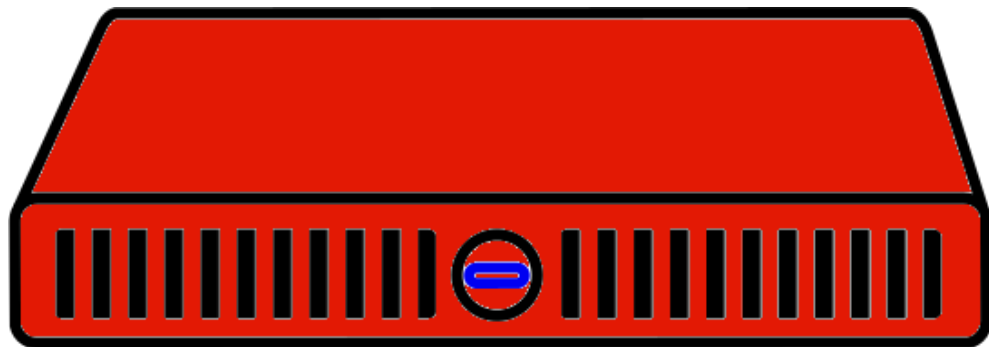






# What's on FIRE today?

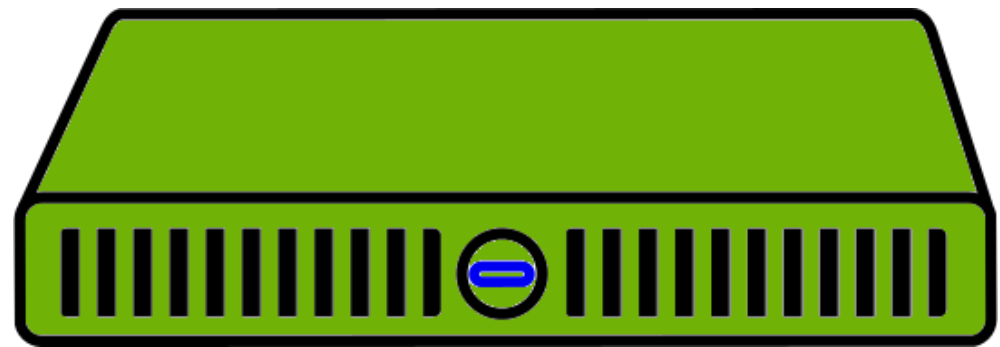
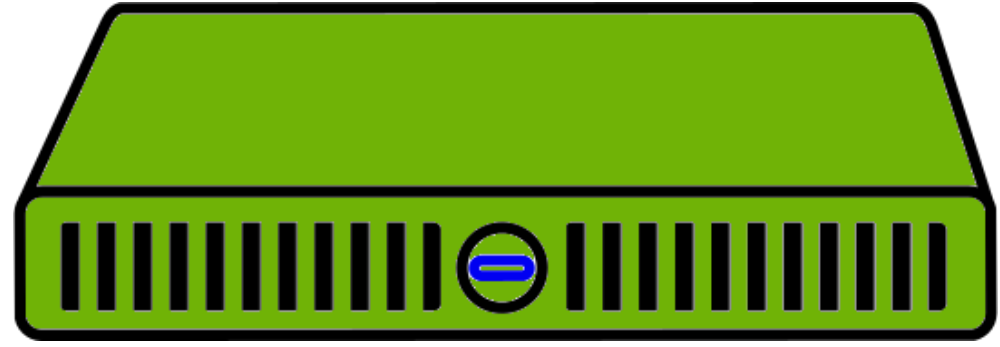
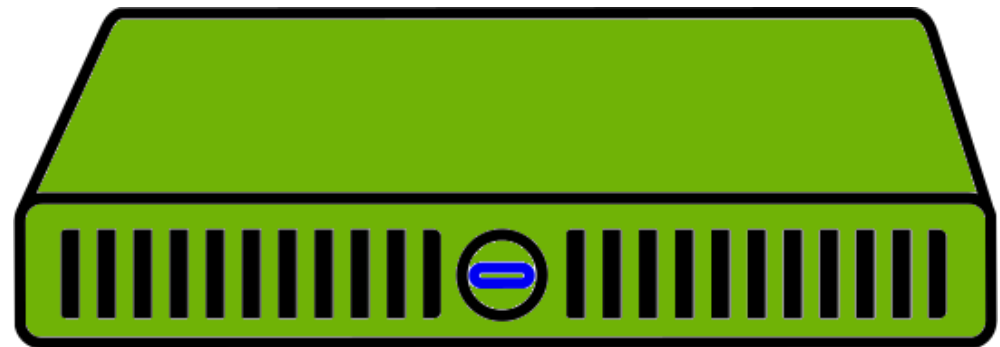
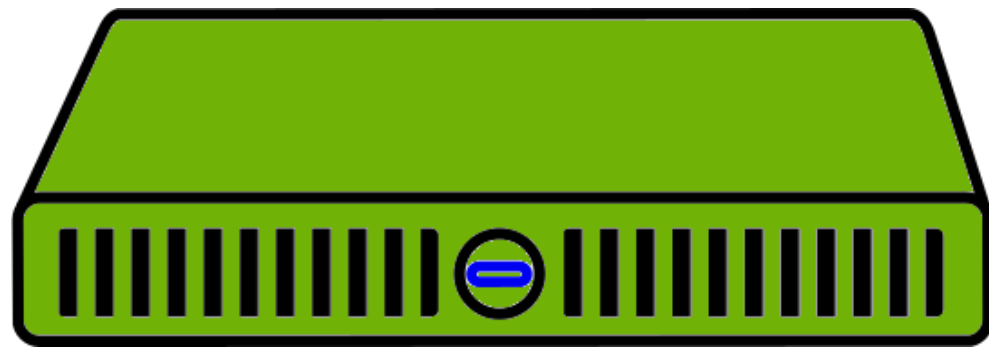
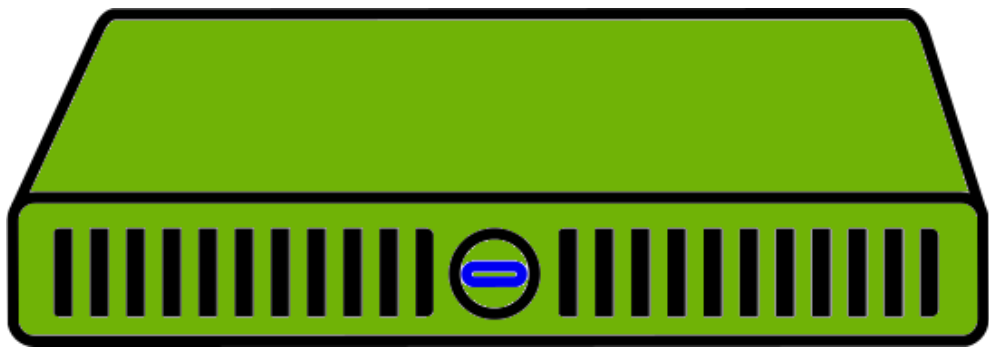
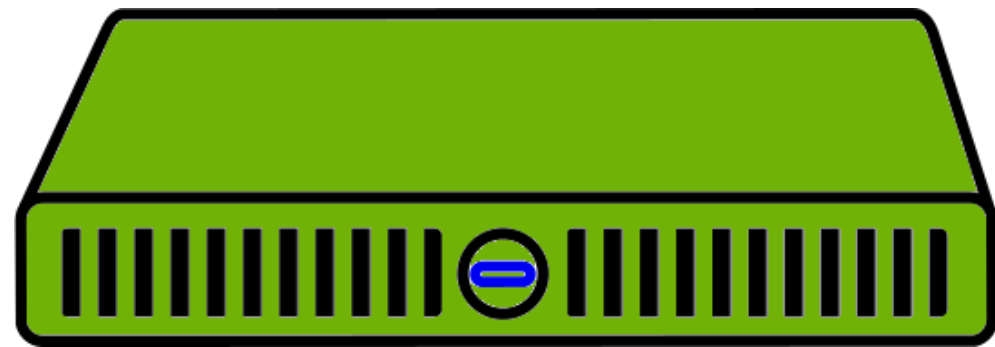
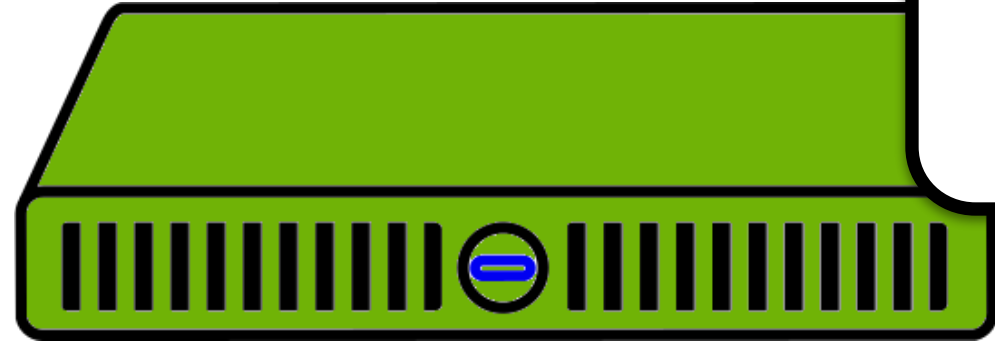
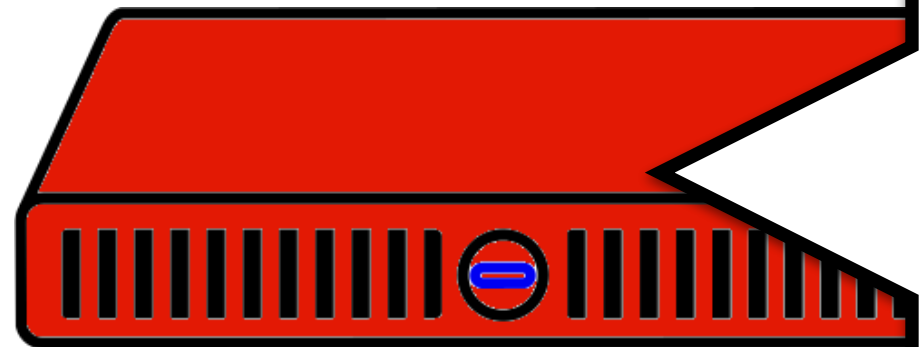
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# What's on FIDE today?

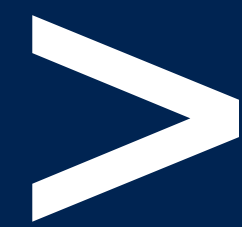
Coffee doesn't  
make processors  
run faster :(





ENABLE LOGGING

PIPE STDOUT



DEFAULT CONFIGURATION

STABLE DISTRIBUTION

RELIABLE UNDER HIGH LOAD













**"STRESSED"**

is

**"DESSERTS"**

spelled

backwards





MADE IN G.T. BRITAIN  
CRANE D.72

14 BAR / 198°C  
32 BAR C.W.P.

SHUT





be a  
**HERO**

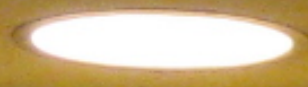




*the*  
**SYSADMIN**  
*will see*  
*you now*



TICKETS



TICKETS

TICKETS

TICKE



ELEVATOR BUTTON



ELEVATOR





*“It’s just a  
proof of concept.”*

**- SOMEONE YOU  
HATE NOW**





[www.anotherlunch.com](http://www.anotherlunch.com)



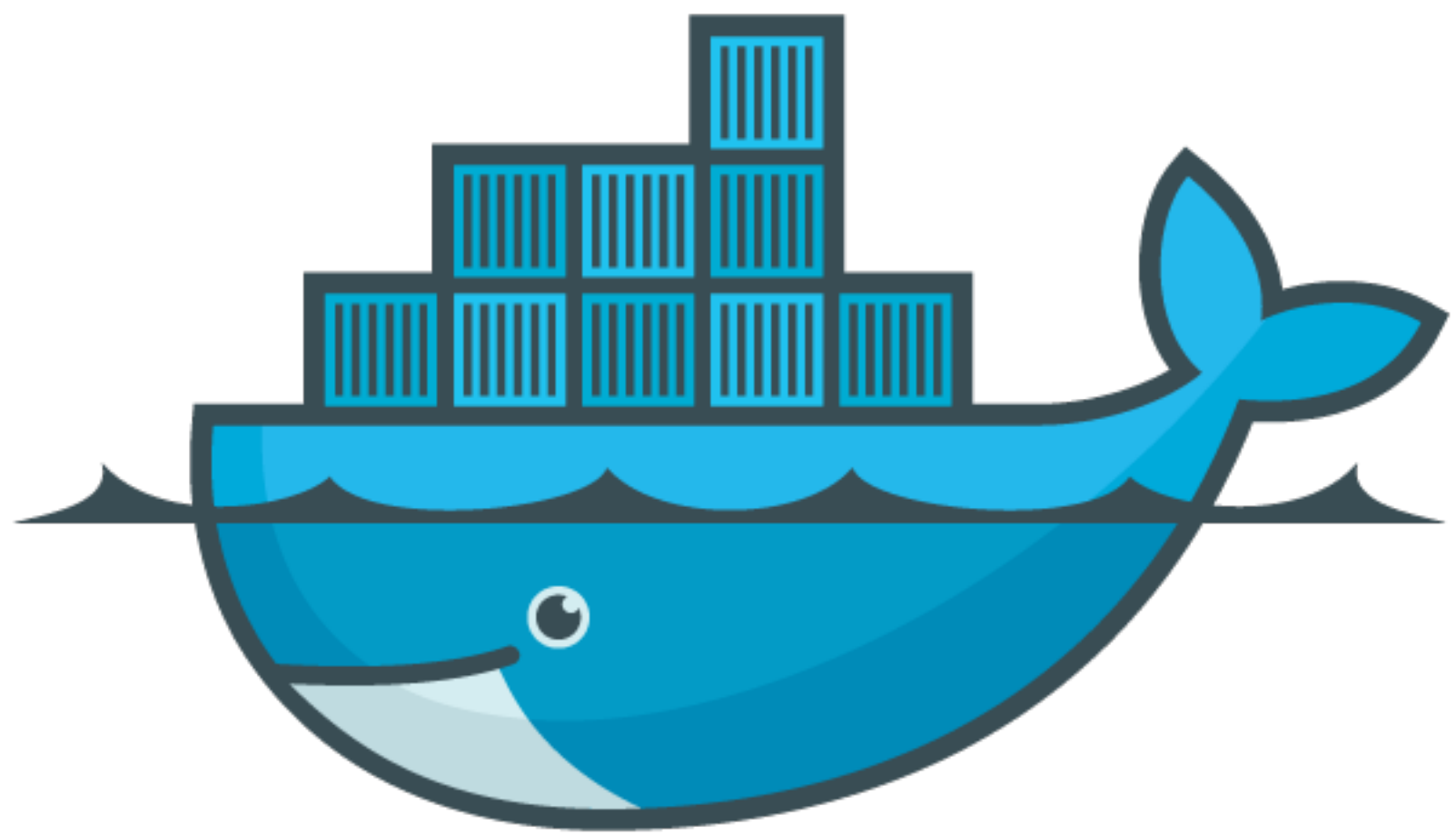


# What's approved?

- Languages
- Frameworks
- Tools



A Real World Example!



docker



SHIP it





## Welcome to Site Eng Requests!

The Central Services team has developed the Site Eng Requests site so that we can provide you with a more efficient and user friendly Ops request process. This site will eventually be used to submit all Site Engineering requests such as: adding or updating user accounts, provisioning new servers, and configuring monitoring and alerting.

### User Access

Request access to the Chicago VPN, servers, and accounts.

[REQUEST](#)

### JIRA Tickets List

See your newly created ticket at the top of the list after submission.

[VIEW JIRA LIST](#)

### Monitoring

Request a monitoring configuration for your service.

[REQUEST](#)

### Provisioning

Request server space for a new service.

[COMING SOON](#)





# User Access Request

Request access to accounts, databases, hosts, AWS, or VPN. Request the deprovisioning of a terminated user. Please note that manager approval is necessary for access to production infrastructure.

Your username (alice@newrelic.com) will be recorded when you submit this form.  
Not alice? [Sign out](#)

\* Required

**Reporter \***

Please enter your JIRA username

**Team**

Please enter your team

**Full Name**

**Job Title**

**Office Location**

- PDX
- SFO
- Other:

**Manager's Email Address \***

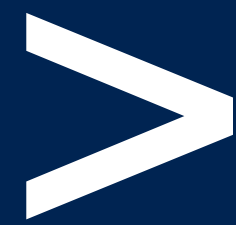
**Access For \***



ENABLE LOGGING

PIPE STDOUT

DEFAULT CONFIGURATION



**STABLE DISTRIBUTION**

RELIABLE UNDER HIGH LOAD

















ME





Left OUT





Learning  
SLOWED





# Out of SIGHT











# WHITE STAR LINE

NAME	
BOOKED TO	VIA
STEAMER	SAILINGS
FULL FOREIGN ADDRESS	



## NOT WANTED SECOND CLASS



WHITE STAR LINE

NAME

BOOKED TO

STEAMER

FULL FOREIGN ADDRESS

LINGS

NOT WANTED  
SECOND CLASS

NO

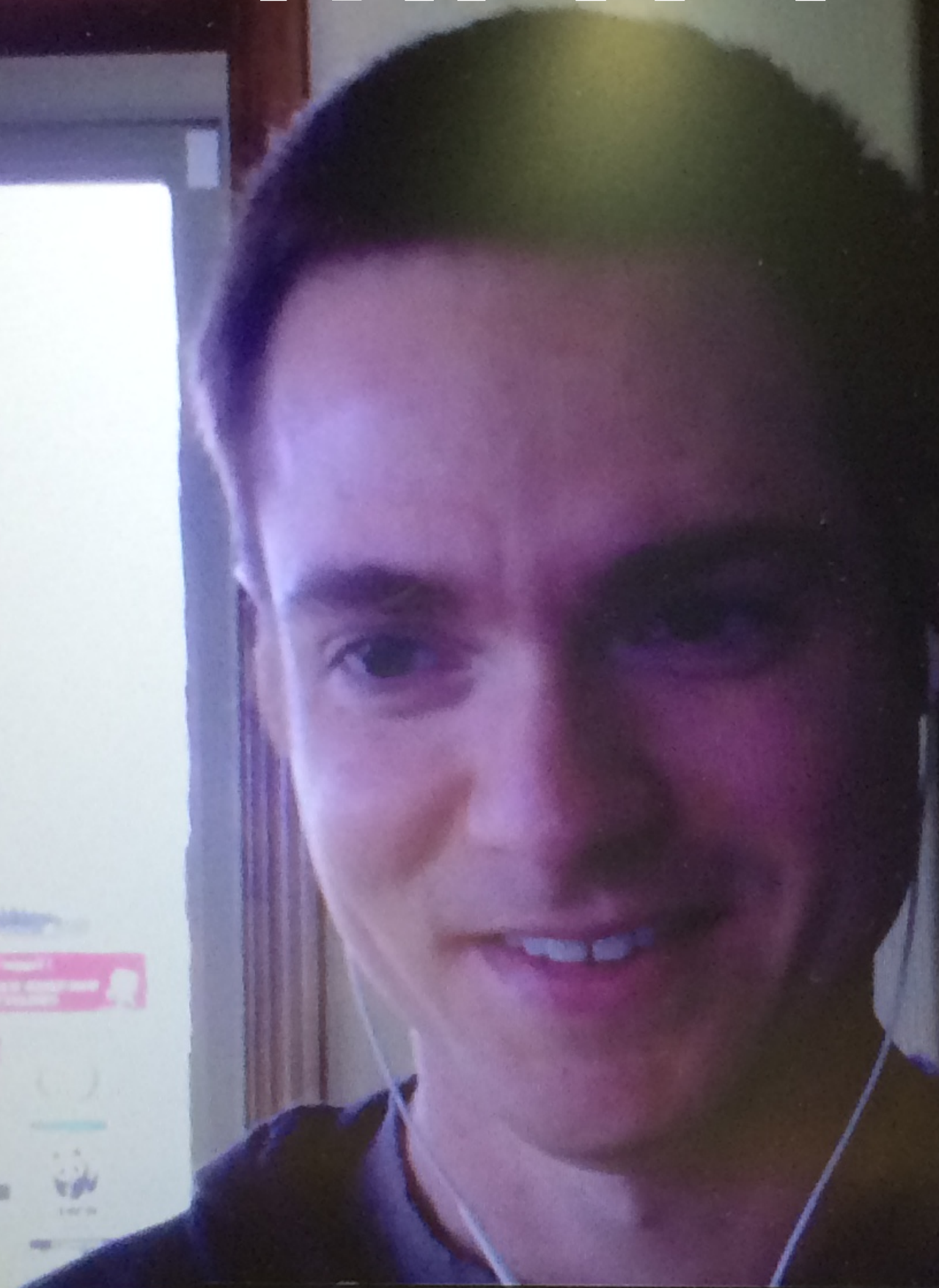


# LEVEL the playing field

- Take notes during stand-ups
- Record meetings
- Fly them in



# MATT Headroom



MacBook Pro



# SWAG DROP









SHIP it







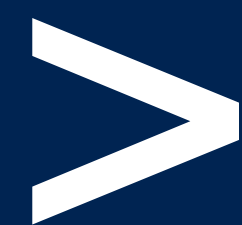


ENABLE LOGGING

PIPE STDOUT

DEFAULT CONFIGURATION

STABLE DISTRIBUTION



RELIABLE UNDER HIGH LOAD



**FINISH**

103.35  
SEIKO Sports Timer

SPORT  
RELIEF  
bury's

A cappuccino  
wake up,  
flex the card,  
lunch with  
the girls,





WELCOME ABOARD







1 Jun

1228

Delayed to 12:40

91

Flight closing

3

...ing

38



```
385 #endif
386     fprintf(stderr, "Red violation @ %d\n", node->data);
387 }
388     return 0;
389 }
390 #ifdef VERBOSE_RBT_VERIFY
391     if (left)
392         printf("%d\n", left->data);
393     if (right)
394         printf("%d\n", right->data);
395 #endif
396
397     height_l = rbt_verify_n(left, compare);
398     height_r = rbt_verify_n(right, compare);
399
400     // Verify BST property.
401     if (((left != NULL) && (compare->compare(left, right) < 0)) ||
402         ((right != NULL) && (compare->compare(right, left) < 0)))
403     #ifdef VERBOSE_RBT_VERIFY
404         FAIL("BST violation @ %d\n", node->data);
405     #endif
406 }
```



# Where to START?

- Big shop? Get invested
- Small shop? Get creative





**Photosynthesis**

Any extra food a plant makes through photosynthesis is stored in the form of starch. Testing a leaf for starch can tell you whether it has been performing photosynthesis. (Adult supervision required.)

**Materials:**

- Two plants
- Beaker or glass jar
- Spoon or the same
- Ethyl alcohol
- Iodine solution
- Scissors

**What To Do:**

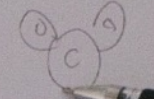
1. Put one of the plants in the dark for 24 hours; leave the other one on a windowsill.
2. After 24 hours, cut some ethyl alcohol in a beaker and place that in a newspaper full of water. Heat the pot until the alcohol almost boils in half. Remove from the heat.
3. Use tweezers to dip each of the leaves in the hot water for 30 seconds. Then place them in the beaker of ethyl alcohol for two minutes or until they turn almost white, but leave each in a beaker of hot water.
4. Cover the leaves with some iodine solution and watch.

**What's Happening:**

The hot water kills the leaf and the alcohol breaks down the chlorophyll, taking the green color out of the leaf. When you put iodine on the leaves, one of them will turn blue-black and the other will be a reddish-brown. Iodine is an indicator that turns blue-black in the presence of starch. The leaf that was in the light turns blue-black, which demonstrates that the leaf has been performing photosynthesis and producing starch.

Try the test again with a variegated leaf (one with both green and white) that has been in the sunlight. A leaf needs chlorophyll to perform photosynthesis. Based on that information, where on the variegated leaf do you think you would find starch?

1. WRITE THE EQUATION FOR PHOTOSYNTHESIS
2. WHAT ELEMENT IS REQUIRED FOR PHOTOSYNTHESIS TO OCCUR?
3. WRITE





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**RELIABLE UNDER HIGH LOAD**



**SHARE INFO**

**IN ONE PLACE**

**HELP OTHER TEAMS HELP YOU**

**MAKE REMOTE WORKERS EQUAL**

**MAKE ONBOARDING SMOOTH**





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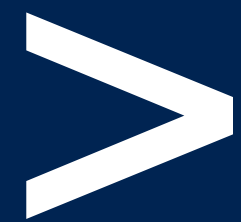
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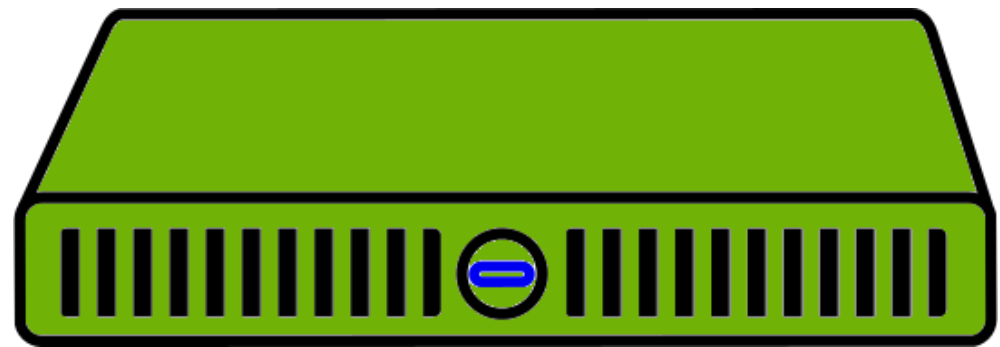
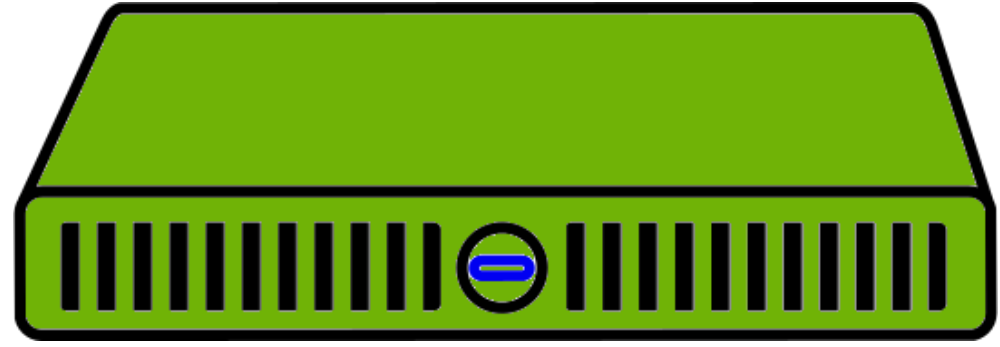
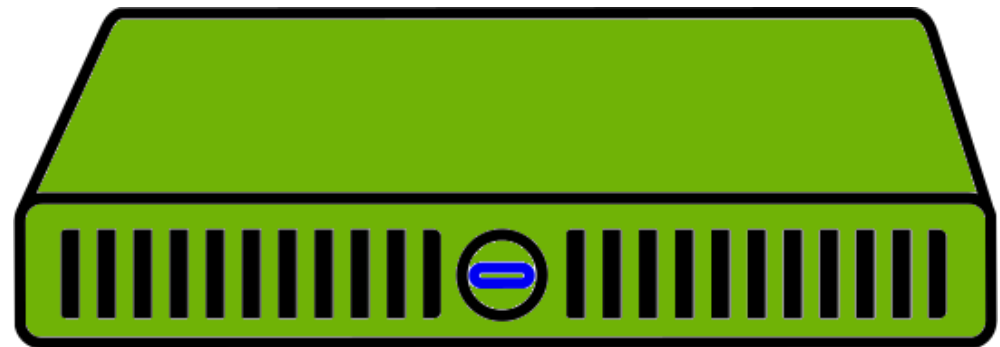
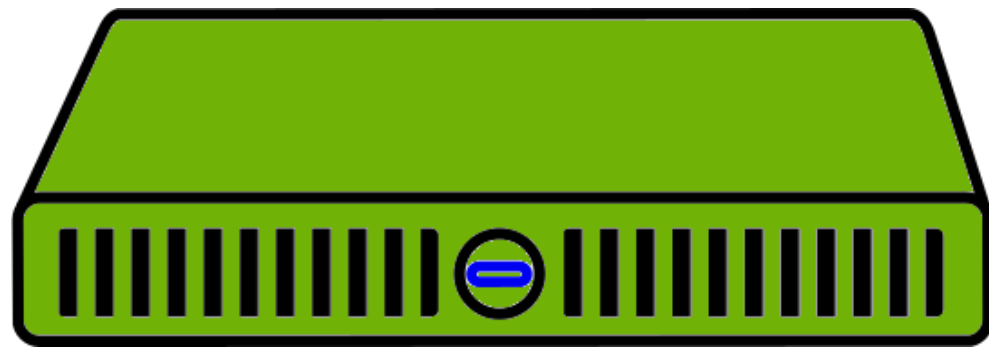
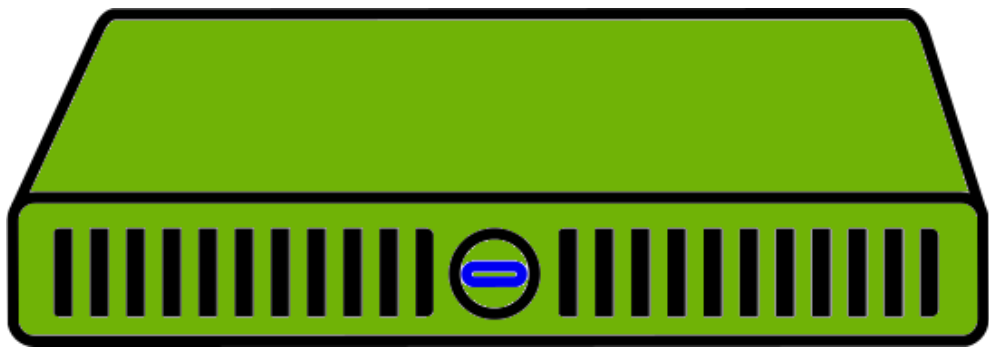
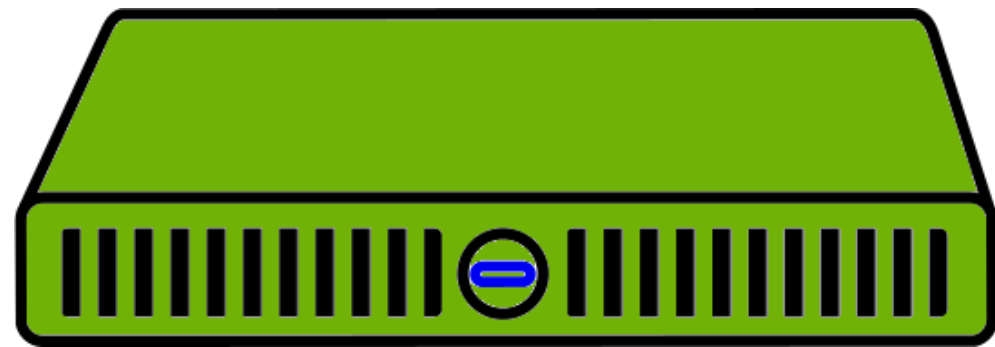
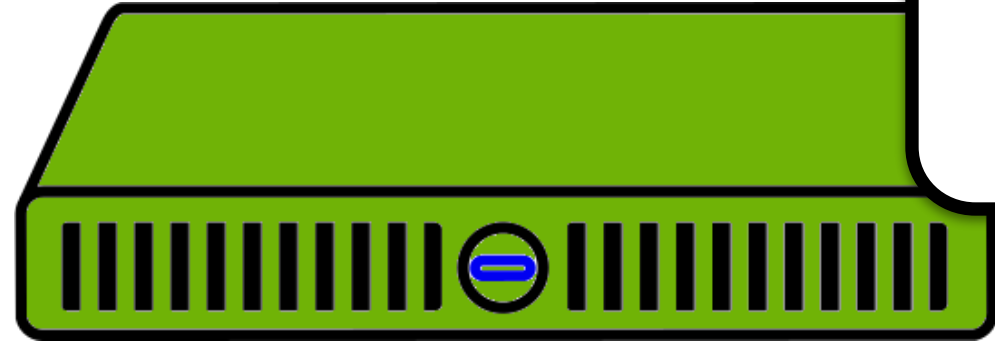
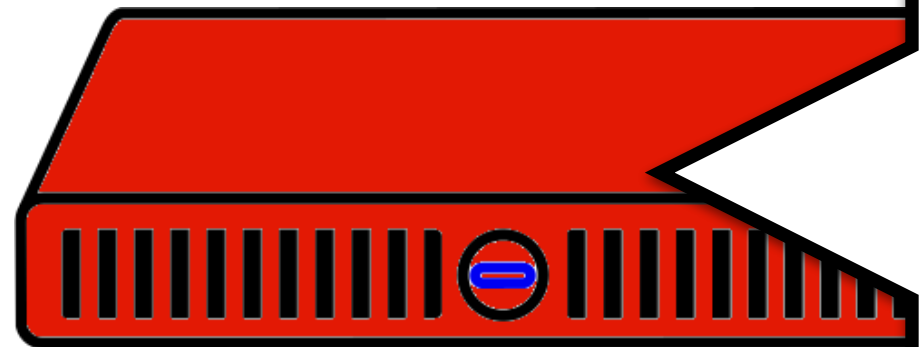
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# What's on FIDE today?

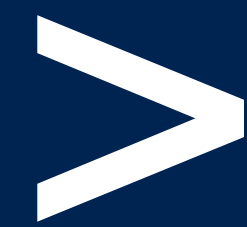
Coffee doesn't  
make processors  
run faster :(





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# Welcome to Site Eng Requests!

The Central Services team has developed the Site Eng Requests site so that we can provide you with a more efficient and user friendly Ops request process. This site will eventually be used to submit all Site Engineering requests such as: adding or removing user accounts, provisioning new servers, and configuring monitoring and alerting.

***For our initial release, we are only taking user access requests. As we gain familiarity with this new process, we will next enable the Monitoring and Provisioning forms, in addition to a general request form.***

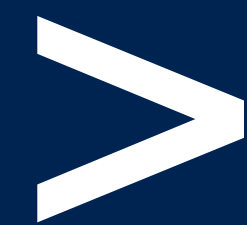
<h2>User Access</h2> <p>Request access to the Chicago VPN, servers, and accounts.</p> <p><a href="#">REQUEST</a></p>	<h2>JIRA Tickets List</h2> <p>See your newly created ticket at the top of the list after submission.</p> <p><a href="#">VIEW JIRA LIST</a></p>
<h2>Monitoring</h2> <p>Request monitoring through Nagios, etc.</p> <p>COMING SOON</p>	<h2>Provisioning</h2> <p>Request server space for a new service.</p> <p>COMING SOON</p>



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**MAKE REMOTE WORKERS EQUAL**

MAKE ONBOARDING SMOOTH







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MAKE REMOTE WORKERS EQUAL



MAKE ONBOARDING SMOOTH







almost  
done







Thanks!

@ALICEGOLDFUSS



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