

# CREATING A CULTURE OF DOCUMENTATION

KUBECON EU 2023

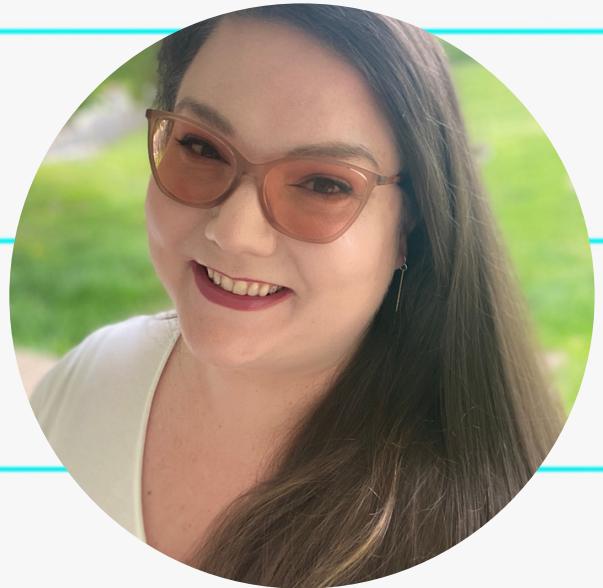
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ALANNA BURKE

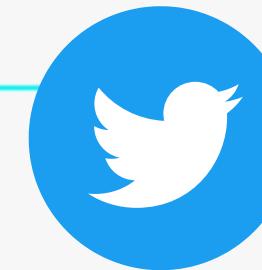
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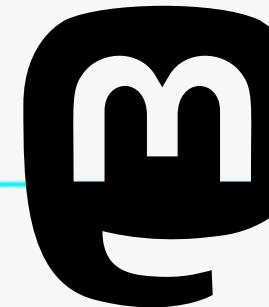
# ALANNA BURKE (SHE/HER)



Community Manager,  
Developer Relations, and  
Documentation



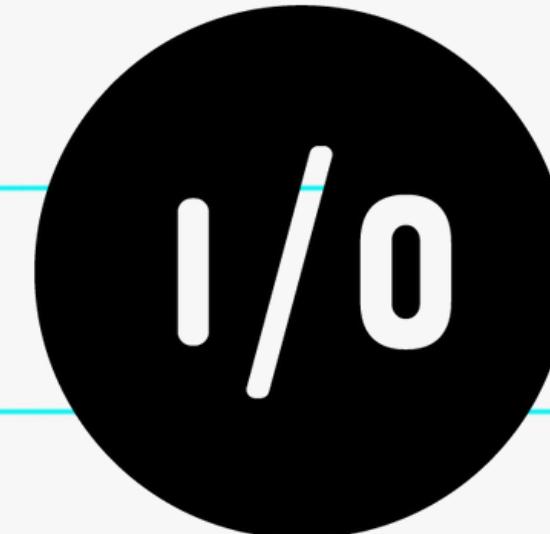
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amazee.io

part of Mirantis

01 What is documentation?

02 Why is it important?

03 What makes good docs?

04 What makes bad docs?

05 What leads to doc failure?

06 What are the consequences of bad docs?

07 Changing your culture

08 What if it doesn't work?



WHAT IS DOCUMENTATION?

# WHAT IS DOCUMENTATION? (WHAT DOES IT DO?)

Guides users

Explains code

Shows thought  
leadership

Establishes  
processes

Onboards new  
customers

WHY IS GOOD DOCUMENTATION IMPORTANT?

# WHY IS GOOD DOCUMENTATION IMPORTANT?

Better

Onboarding

Improves

productivity

Faster

troubleshooting

Saves time

Avoid miscommunication

Retains

users/customers

Manage change

# WHY ARE GOOD DOCS IMPORTANT?

- 61% of professionals in distributed teams say it can be hard to figure out what their colleagues are working on.
- 44% say siloed digital tools make it hard to spot if work is being duplicated.
- 62% report missing opportunities to collaborate and achieve better results.





"Humans are  
terrible at data  
storage"  
-Sergio Pereira

WHAT MAKES GOOD DOCS?

# WHAT MAKES GOOD DOCS?

Easy to  
understand

Gets to the point

Good visuals

Vetted for  
accuracy

Includes author  
and date

Addresses the  
right audience

Search

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## Kubernetes Object Management

The `kubectl` command-line tool supports several different ways to create and manage Kubernetes objects. This document provides an overview of the different approaches. Read the [Kubectl book](#) for details of managing objects by Kubectl.

### Management techniques

**Warning:** A Kubernetes object should be managed using only one technique. Mixing and matching techniques for the same object results in undefined behavior.

Management technique	Operates on	Recommended environment	Supported writers	Learning curve
Imperative commands	Live objects	Development projects	1+	Lowest
Imperative object configuration	Individual files	Production projects	1	Moderate
Declarative object configuration	Directories of files	Production projects	1+	Highest

### Imperative commands

When using imperative commands, a user operates directly on live objects in a cluster. The user provides operations to the `kubectl` command as arguments or flags.

This is the recommended way to get started or to run a one-off task in a cluster. Because this technique operates directly on live objects, it provides no history of previous configurations.

#### Examples

Run an instance of the nginx container by creating a Deployment object:

```
kubectl create deployment nginx --image nginx
```

#### Trade-offs

Advantages compared to object configuration:

- Commands are expressed as a single action word.
- Commands require only a single step to make changes to the cluster.

Disadvantages compared to object configuration:

- Commands do not integrate with change review processes.
- Commands do not provide an audit trail associated with changes.
- Commands do not provide a source of records except for what is live.
- Commands do not provide a template for creating new objects.

### Imperative object configuration

In imperative object configuration, the `kubectl` command specifies the operation (create, replace, etc.), optional flags and at least one file name. The file specified must contain a full definition of the object in YAML or JSON format.

See the [API reference](#) for more details on object definitions.

**Warning:** The imperative `replace` command replaces the existing spec with the newly provided one, dropping all changes to the object missing from the configuration file. This approach should not be used with resource types whose specs are updated independently of the configuration file. Services of type `LoadBalancer`, for example, have their `externalIPs` field updated independently from the configuration by the cluster.

#### Examples

Create the objects defined in a configuration file:

```
kubectl create -f nginx.yaml
```

Delete the objects defined in two configuration files:

- [Edit this page](#)
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[Kubernetes Documentation](#) / [Reference](#) / [Other Tools](#)

## Other Tools

Kubernetes contains several tools to help you work with the Kubernetes system.

### cubectl

An API for container runtimes to integrate with kubelet

`cubectl` is a command-line interface for inspecting and debugging CRI-compatible container runtimes.

### Dashboard

[Dashboard](#), the web-based user interface of Kubernetes, allows you to deploy containerized applications to a Kubernetes cluster, troubleshoot them, and manage the cluster and its resources itself.

### Helm

This item links to a third party project or product that is not part of Kubernetes itself. [More information](#)

[Helm](#) is a tool for managing packages of pre-configured Kubernetes resources. These packages are known as *Helm charts*.

Use Helm to:

- Find and use popular software packaged as Kubernetes charts
- Share your own applications as Kubernetes charts
- Create reproducible builds of your Kubernetes applications
- Intelligently manage your Kubernetes manifest files
- Manage releases of Helm packages

-  [Edit this page](#)
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cubectl  
Dashboard  
Helm  
Kompose  
Kui  
Minikube

information to your when making the API request.

Search

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Kubernetes  
Objects**

Kubernetes

Object

Management

Object Names  
and IDsLabels and  
Selectors

Namespaces

Annotations

Field Selectors

Finalizers

Owners and  
DependentsRecommended  
Labels

Here's an example `.yaml` file that shows the required fields and object spec for a Kubernetes Deployment:

[application/deployment.yaml](#)

```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: nginx-deployment
spec:
  selector:
    matchLabels:
      app: nginx
  replicas: 2 # tells deployment to run 2 pods matching the template
  template:
    metadata:
      labels:
        app: nginx
    spec:
      containers:
      - name: nginx
        image: nginx:1.14.2
        ports:
        - containerPort: 80
```

[Edit this page](#)[Create child page](#)[Create an issue](#)[Print entire section](#)Understanding Kubernetes  
objects

Object spec and status

Describing a Kubernetes object

Required fields

What's next

One way to create a Deployment using a `.yaml` file like the one above is to use the `kubectl apply` command in the `kubectl` command-line interface, passing the `.yaml` file as an argument. Here's an example:

```
kubectl apply -f https://k8s.io/examples/application/deployment.yaml
```

The output is similar to this:

▶ Overview
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Components
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▶ Working with
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<b>Understanding Kubernetes Objects</b>
Kubernetes Object Management
Object Names and IDs
Labels and Selectors
Namespaces
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Finalizers
Owners and Dependents
Recommended Labels
▶ Cluster Architecture

of an object specification is the [spec field](#) for the StatefulSet API. For StatefulSet, the `.spec` field specifies the StatefulSet and its desired state. Within the `.spec` of a StatefulSet is a [template](#) for Pod objects. That template describes Pods that the StatefulSet controller will create in order to satisfy the StatefulSet specification. Different kinds of object can also have different `.status`; again, the API reference pages detail the structure of that `.status` field, and its content for each different type of object.

[Create an issue](#)[Print entire section](#)

Understanding Kubernetes objects

Object spec and status

Describing a Kubernetes object

Required fields

What's next

## What's next

Learn more about the following:

- [Pods](#) which are the most important basic Kubernetes objects.
- [Deployment](#) objects.
- [Controllers](#) in Kubernetes.
- [Kubernetes API overview](#) which explains some more API concepts.
- [kubectl](#) and [kubectl commands](#).

## Feedback

Was this page helpful?

[Yes](#)[No](#)

Last modified November 13, 2022 at 9:26 PM PST: [updated /kubernetes-objects.md \(25aa28ff6a\)](#)

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**GETTING STARTED**

create

get

run

expose

delete

**APP MANAGEMENT**

apply

annotate

autoscale

debug

diff

edit

kustomize

label

patch

replace

rollout

scale

set

wait

**WORKING WITH APPS**

attach

auth

cp

describe

exec

logs

port-forward

# GETTING STARTED

This section contains the most basic commands for getting a workload running on your cluster.

- `run` will start running 1 or more instances of a container image on your cluster.
- `expose` will load balance traffic across the running instances, and can create a HA proxy for accessing the containers from outside the cluster.

Once your workloads are running, you can use the commands in the [WORKING WITH APPS](#) section to inspect them.

## create

Create a resource from a file or from stdin.

JSON and YAML formats are accepted.

### Usage

```
$ kubectl create -f FILENAME
```

### Flags

Name	Shorthand	Default	Usage
allow-missing-template-keys		true	If true, ignore any errors in templates when a field or map key is missing in the template. Only applies to golang and jsonpath output formats.
dry-run		none	Must be "none", "server", or "client". If client strategy, only print the object that would be sent, without

**Create a pod using the data in pod.json**

```
kubectl create -f ./pod.json
```

**Create a pod based on the JSON passed into stdin**

```
cat pod.json | kubectl create -f -
```

**Edit the data in docker-registry.yaml in JSON then create the resource using the edited data**

```
kubectl create -f docker-registry.yaml --edit -o json
```



- [Getting Started](#)
- [Onboarding Guide](#)
- [Introduction](#)
- [Glossary of Common Flex Terms](#)
- [Set Up Your Flex Account](#)
- [Explore the Built-In Flex UI Views](#)
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- [Configure Skill-Based Routing](#)
- [Deploy an IVR to Route Calls to Queues](#)
- [Building with Flex checklist](#)
- [Getting Started with React Plugin Development](#)
- [Multiple Users and Skills-Based Routing](#)
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  - [Flex UI and Plugins](#)
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- [Administrator Guide](#)
  - [Index](#)
  - [What is Twilio Flex?](#)
  - [Core Concepts](#)
  - [Contact Center Setup](#)

# Twilio Flex

Twilio Flex is a digital engagement center for sales and customer support teams that gives companies control over how they communicate with customers and prospects across all channels, and at every stage of the customer journey. Twilio Flex works within existing solutions to drive revenue in three specific ways. First, it provides a customer service contact center with specific channels and integrations orchestrated to remove friction and drive repeat sales. Second, it enables high touch, contextual direct sales interactions. Third, it facilitates relationship management as your in-app digital concierge.

[Get started >\\_](#)

START BUILDING YOUR CONTACT CENTER

```
import React from 'react';
import { withTaskContext } from '@twilio/flex-ui';

const TaskSIDText = {
  color: "#FFF"
};

class CustomCRM extends React.Component {
  render() {
    const { task } = this.props;
    return <div style={TaskSIDText}>
      <p>Access agent task data</p>
      <p>Task SID: <span style={{ fontWeight: 'bold' }}>{task.sid}</span></p>
    </div>;
  }
}
```

Easily deploy and manage your new contact center!



WHAT MAKES BAD DOCS?

# WHAT MAKES **BAD** DOCS?

Fragmented

across platforms

Makes

assumptions

Incomplete

Uses jargon

Out of date

Not tailored to

the right  
audience

# Creating and configuring Media Types

Last updated on 13 November 2020

## # Basic concepts

If you have worked with **nodes** before, you will find some similarities in the basic concepts when dealing with **media entities**. For example, **Media Types** are the equivalent to **media entities** of what **Content Types** are for **nodes**. In other words, the `media` entity (just like any other content entity in Drupal 8) has **bundles**, which for the end user are exposed using the terminology of **Media Types**.

As soon as you enable the **Media** module, some Media Types will be created automatically for you:

- Document
- Image
- Audio File (local)
- Video File (local)
- Remote video

(Note that these are available when using the Standard profile. If you are using another distribution or install profile, other types may be available instead of these ones, or you may need to create your own.)

They are ready to use, and if you want to directly create a Media entity you can go to `/media/add/{type_name}` and see how the media entity form looks like.

One important difference of media entities when compared to nodes is that *not all media types are equal*. They are specialized so that they are able to know how to manage the media resource they are dealing with in the best way. For example, media types that deal with *images* will be able to validate file extensions, as well as know how to map width/height image information to Drupal fields. On the other hand, this knowledge won't be necessary or useful to *youtube* media entities, which in turn will probably need to know how to retrieve a thumbnail or the video author information from the remote video server.

Advertising sustains the DA. Ads are hidden for members. [Join today](#)

## On this page

- Basic concepts
- Creating and configuring a Media Type
  - 1 - Indicate the Media Source plugin
  - 2 - Define the source field
  - 3 - (Optionally) indicate metadata mapping information
- Creating media items manually
- Taking advantage of the automatic name generation for media entities
- Using the pre-defined Media Gallery

## Media module

[Media module overview](#)

[Creating and configuring Media Types](#)

[Setting up private access to Media items](#)

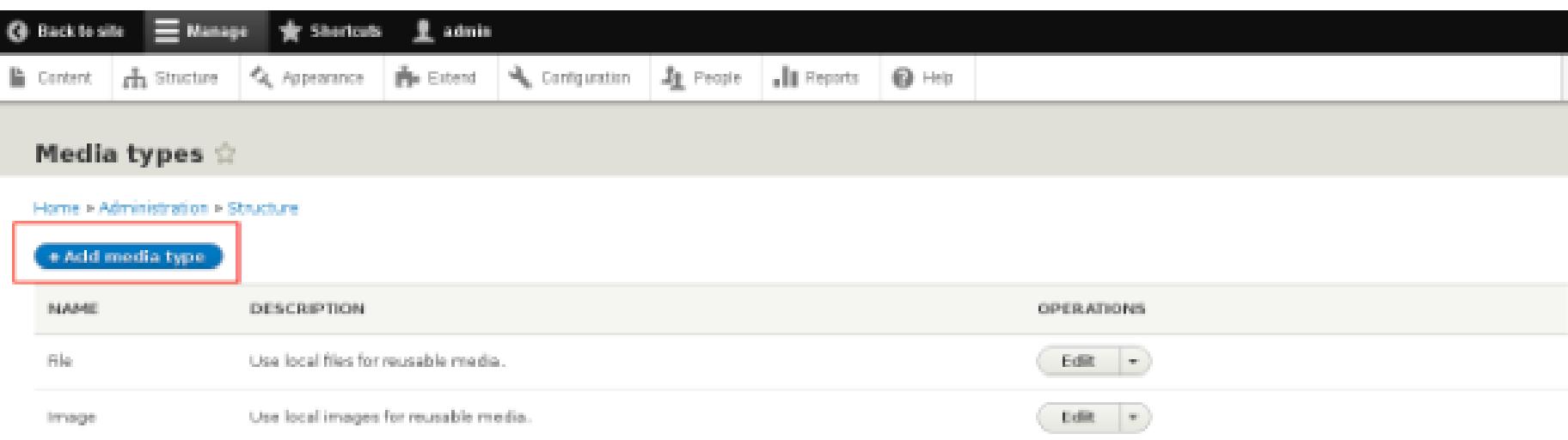
[FAQ - Transition from Media Entity to Media in core](#)

[Creating a custom MediaSource plugin for external assets](#)

Help improve this

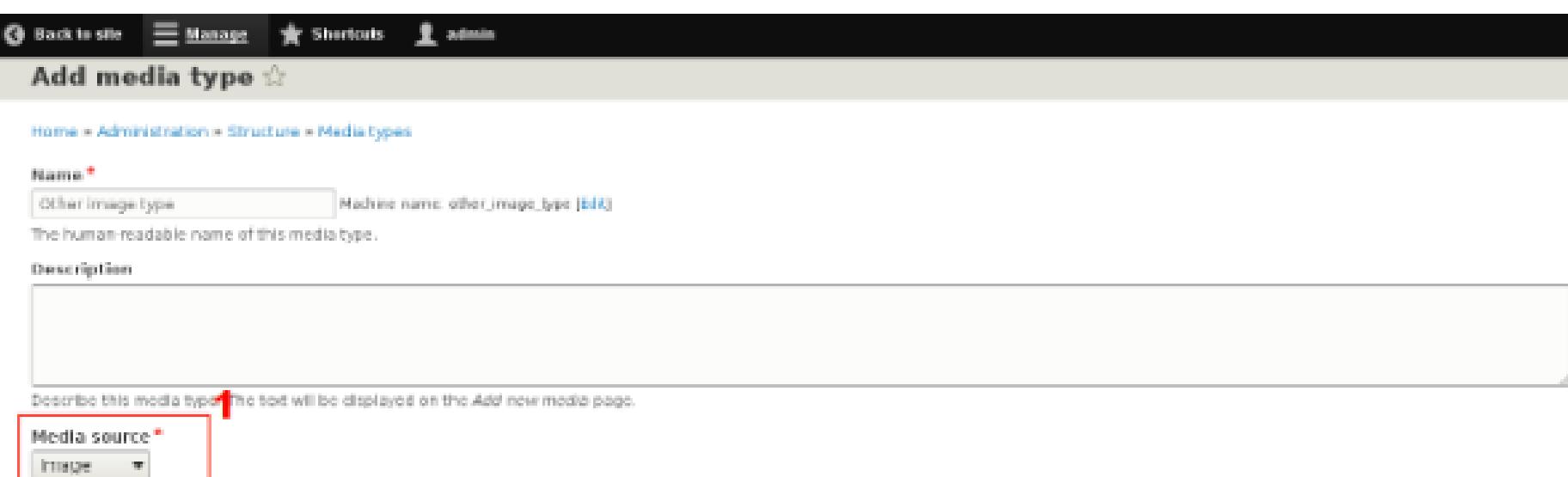
# # Creating and configuring a Media Type

Just like with content types, you will probably want your site to have additional Media Types, or you may want to edit the existing types Drupal core creates for you. In order to do so, navigate to **Structure -> Media Types**, or visit </admin/structure/media>:



The screenshot shows the Drupal administration interface with a dark header bar containing links for Back to site, Manage, Shortcuts, and admin. Below the header is a navigation menu with links for Content, Structure (which is highlighted), Appearance, Extend, Configuration, People, Reports, and Help. The main content area has a title 'Media types' with a star icon. Below the title is a breadcrumb trail: Home > Administration > Structure. A prominent blue button labeled '+ Add media type' is centered above a table. The table has three columns: NAME, DESCRIPTION, and OPERATIONS. It lists two media types: 'File' (description: 'Use local files for reusable media.') with an 'Edit' button, and 'Image' (description: 'Use local images for reusable media.') with an 'Edit' button.

You will need then to provide the basic information for your media type:



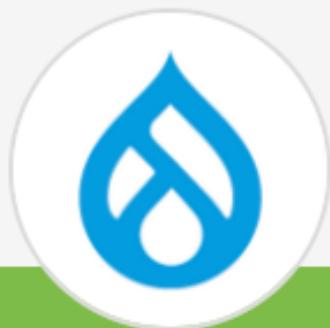
The screenshot shows the 'Add media type' form within the Drupal administration interface. The header bar and navigation menu are identical to the previous screenshot. The main form has a title 'Add media type' with a star icon. Below the title is a breadcrumb trail: Home > Administration > Structure > Media types. The form fields include: 'Name' (required, value: 'Other image type', machine name: 'other\_image\_type'), 'Description' (text area with placeholder 'Describe this media type. The text will be displayed on the Add new media page.'), and 'Media source' (dropdown menu with 'Image' selected). The 'Media source' field is highlighted with a red box.



# Documentation

Search documentation...

[Drupal Wiki](#) [Develop](#) [Core modules and themes](#) [Core modules](#)



Drupal 10, the latest version of the open-source digital experience platform with even more features, is here.

[Upgrade to Drupal 10](#)



## Media module

Media is a drop-in replacement for the Drupal core upload field with a unified User Interface where editors and administrators can upload, manage, and reuse files and multimedia assets.

This guide is about the D8 Media core module. If you are looking for information about the contributed D7 Media module, [click here](#).

### Media module overview

A general overview of what the Media module is and its purpose

### Creating and configuring Media Types

Basic information about installation and defining Media Types (bundles)

### Setting up private access to Media items

Recommendations about handling access restrictions that affect media items

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## Core modules

[Actions module](#)

[Activity Tracker module](#)

[Automated Cron module](#)

[Ban module](#)

[BigPipe module](#)

[Block module](#)

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[Breakpoint module](#)

[CKEditor 5 module](#)

[Comment module](#)

[Configuration Manager module](#)

[Configuration Translation module](#)

[Contact module](#)

Search

# Official Ubuntu Documentation

Documentation developed and maintained by the Ubuntu Documentation Project.

Release	Desktop	Server	Installation Guide
Ubuntu 22.10 (Kinetic Kudu)	<a href="#">HTML</a>	<i>unpublished</i>	<i>unpublished</i>
Ubuntu 22.04 LTS (Jammy Jellyfish)	<a href="#">HTML</a>	<a href="#">HTML and PDF</a>	<i>unpublished</i>
Ubuntu 20.04 LTS (Focal Fossa)	<a href="#">HTML</a>	<a href="#">HTML and PDF</a>	<a href="#">per architecture</a>
Ubuntu 18.04 LTS (Bionic Beaver)	<a href="#">HTML</a>	<a href="#">HTML and PDF</a>	<a href="#">per architecture</a>
Ubuntu 23.04 (Lunar Lobster) Preliminary	<a href="#">HTML</a>	<i>unpublished</i>	<i>unpublished</i>

## Notes:

- As of the Ubuntu 22.04 release in 2020, the Server documentation has moved to [a different site](#), and will automatically update when changes are made to the [discourse source code pages](#).
- The Desktop links above are available in many different languages. They will be displayed in the preferred language specified by your browser. If the preferred language is not available they will be displayed in English. The Serverguide and the Installation Guide are available solely in English.
- Unsupported releases are not shown here. See [instructions for upgrading to a supported version](#).
- Useful information: [LTS details](#) and [release & end-of-life dates](#) (for all versions).

[More Ubuntu documentation](#) (IaaS, Juju, Cloud-init, ...)

WHAT LEADS TO DOC FAILURE?

# WHAT LEADS TO DOC FAILURE?

Docs are often everyone's problem and no one's job

No time

No incentive

No experience

Red tape

Information  
hoarding

Hard to keep up  
to date

# WHAT LEADS TO DOC FAILURE?

## Excuses

"The code is self-documenting"

"It's too hard to keep it up to date"

"It adds too much time to my development"

WHAT ARE THE CONSEQUENCES OF BAD DOCS?

# CASE STUDY - GOOGLE (2014)

- 48% of Google engineers cited bad docs as #1 productivity issue
- 50%+ of SRE issues cited problems with docs
- Docs were considered everybody's problem, but nobody's job



# WHAT ARE THE CONSEQUENCES OF BAD DOCS?

Having to redo  
work because  
requirements  
unclear

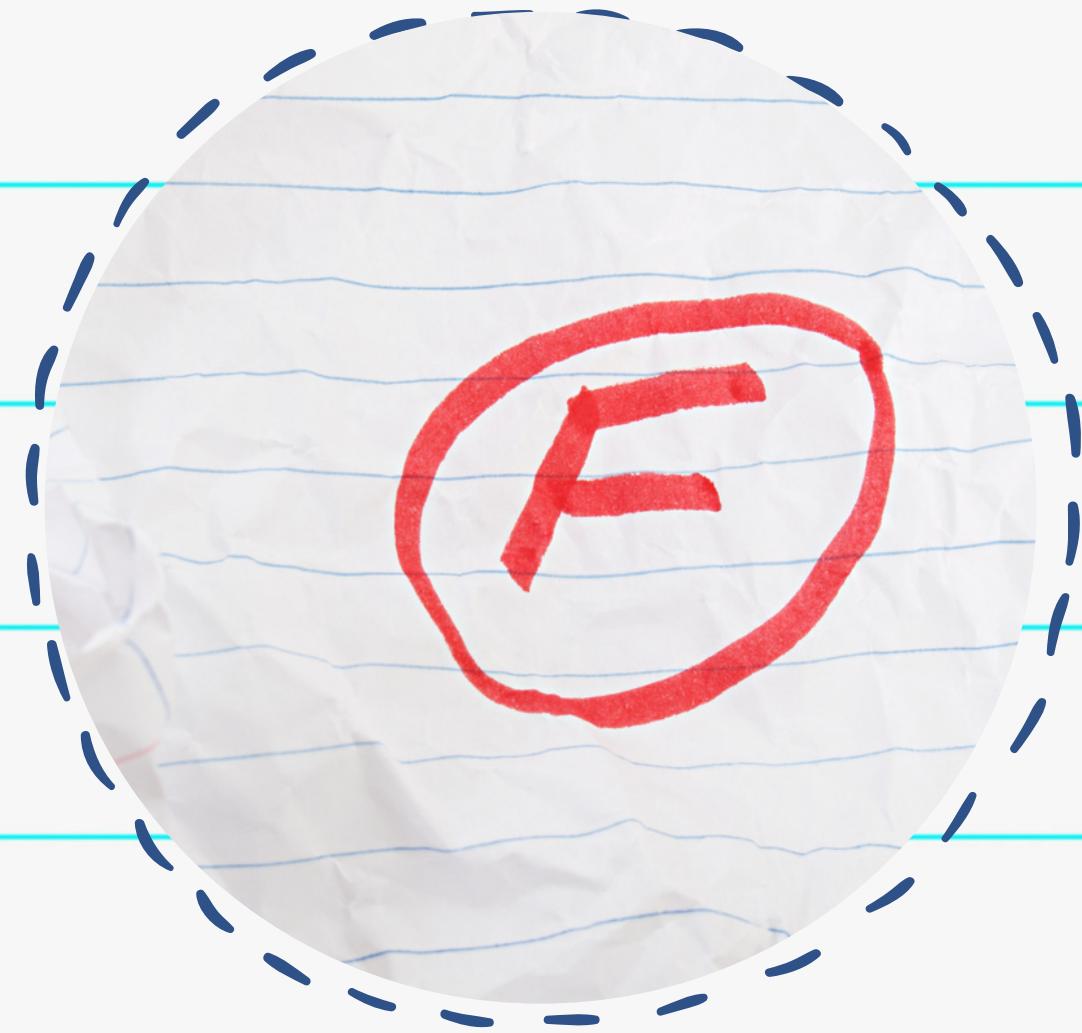
Missing info on  
areas of  
codebase

Docs are hard to  
find and waste  
time

# WHAT ARE THE CONSEQUENCES OF BAD DOCS?

If IT folks spend around 20% of their time just looking for information...

- Average salary – \$60,000/year
- Average hourly labor rate (fully burdened) – \$43/hour
- Time wasted due to bad documentation – 20%
- Annual cost of time waste – \$13,760 per employee
- Annual opportunity cost of time waste – \$34,400 per employee



BAD DOCS ARE WORSE THAN NO DOCS!

CHANGING YOUR CULTURE



"Culture is not  
immutable"

-Riona MacNamara

# CHANGING YOUR CULTURE

Start from the top

Choose someone to drive it

Make it easy

Start with standardization

Empower contributors

# START FROM THE TOP

Establish that clear, concise, writing is the expectation from everyone

Higher ups and stakeholders lead by example with quality writing

# CHOOSE SOMEONE TO DRIVE IT

Make someone responsible for managing documentation.

This person also creates templates, trainings, and any other support needed to create docs.

# MAKE IT EASY

Choose tools that integrate into  
existing workflows

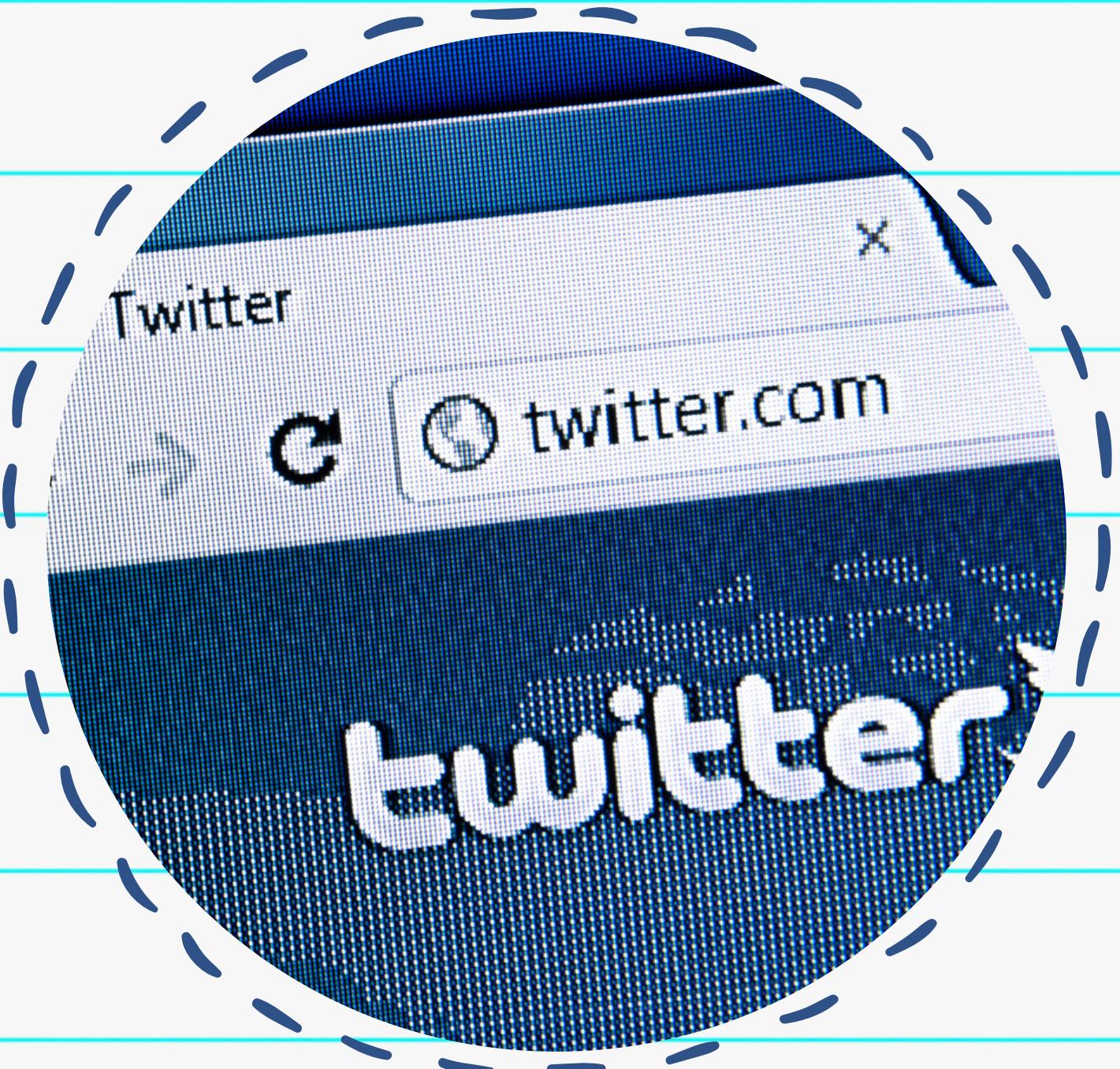
Let devs stay in their editor

Use Git

Ensure everyone has access

# CASE STUDY - TWITTER (2014)

- Back in 2014, Twitter had 3 technical doc writers.
- Encourage documentation via education and "DocDays"
- Build a new docs-as-code stack
- Create documentation templates



# START WITH STANDARDIZATION

Establish a tool set

Create templates

Create a style guide

Use spell checkers and linters

Have an approval process

Establish a maintenance  
schedule

# DOCUMENTATION TOOLS

Markdown

ReadtheDocs

mkdocs

GitBook

Confluence

Sphinx

# CASE STUDY - FORTUNE 500 COMPANY

- Helped the client reduce content overload and increased content reuse by 20% YoY
- Helped reduce support calls by 35%
- Guidelines designed for the client were also implemented as the standards for future releases



# EMPOWER CONTRIBUTORS

Use a system that allows for contribution from everyone.

Create a positive feedback loop.

Give trainings on how to write docs.

Allow everyone to have a sense of ownership over docs.

WHAT IF IT DOESN'T WORK?

# WHAT IF IT DOESN'T WORK?

Don't accept  
merge requests  
that don't  
include needed  
documentation  
updates.

Make doc  
writing an  
official part of  
everyone's job  
description

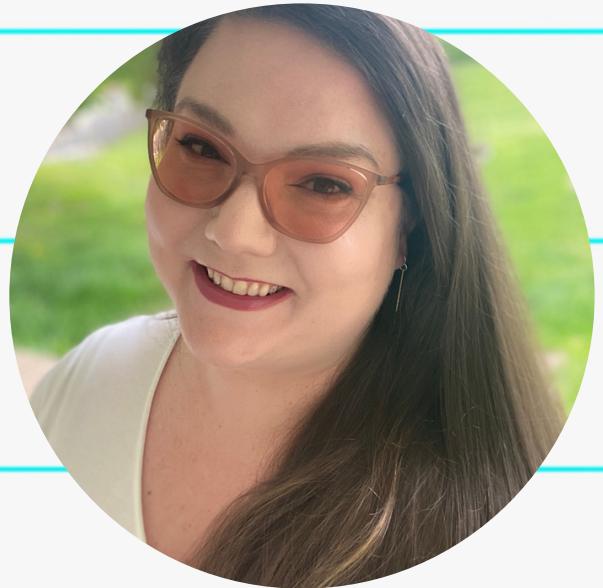
Develop intrinsic  
value

THANK YOU!

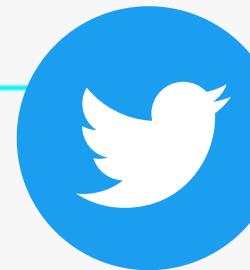
Questions?

Let me know if you have any feedback for this talk!

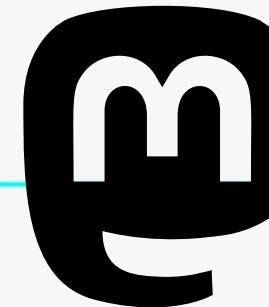
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Community Manager,  
Developer Relations, and  
Documentation



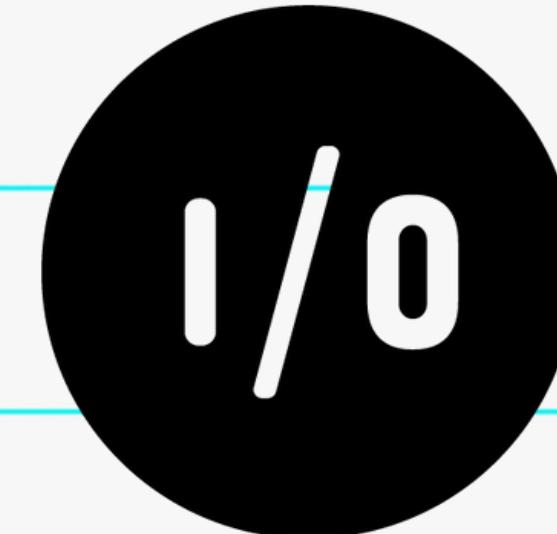
aburke626



alannaburke@fosstodon.org



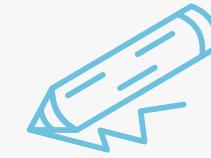
alannaburke



amazee.io

part of Mirantis

# REFERENCES



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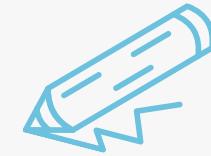
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