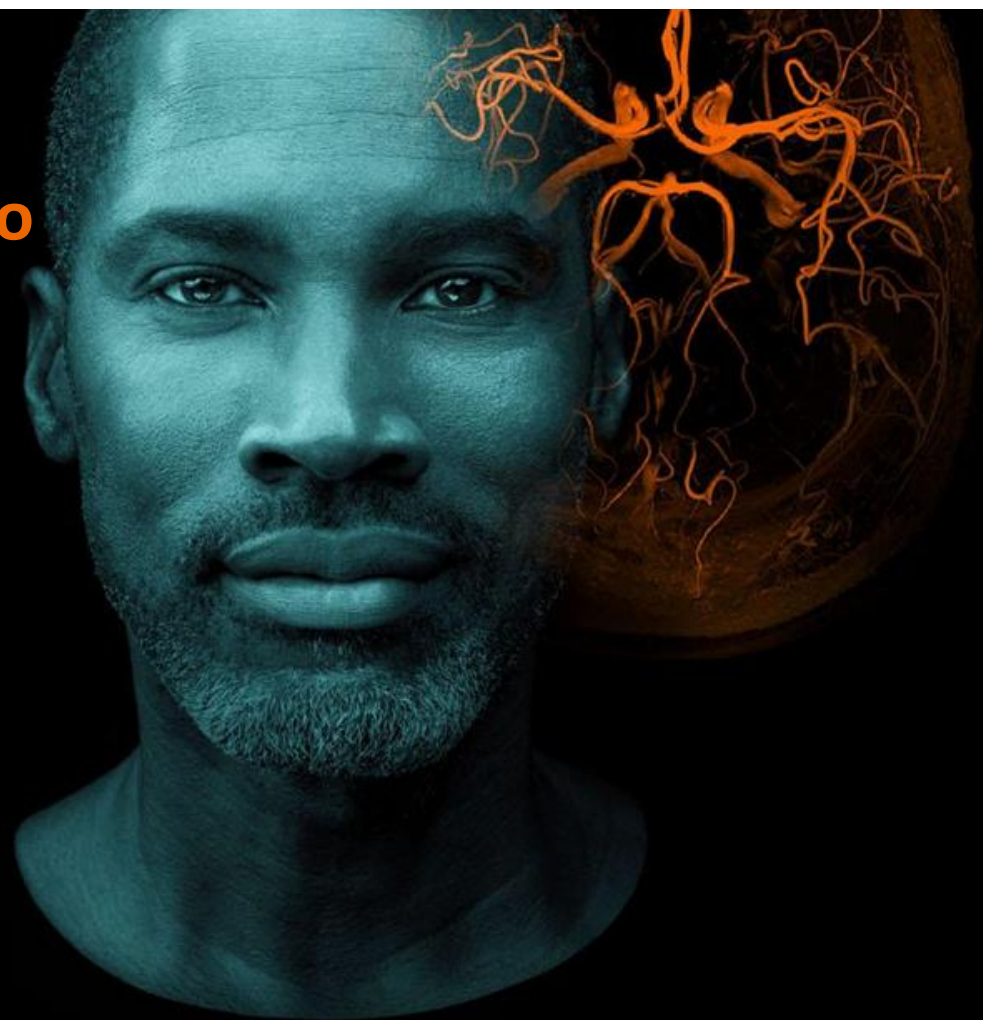
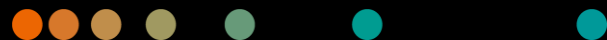


Training as Code: from workshop chaos to a declarative approach with Educates.dev

An open-Source Training Platform running on Kubernetes

Tomáš Bočinec



> WHOAMI

Tomáš Bočinec (bocinec.com)

- project: SRSNG
- team: Helios
- office: Ba
- focus on:
 - Cloud native technologies, CI/CD, observability
 - Kubernetes (ckad cert.)
- lead Slovak association for cloud native application support



How satisfied are you with our training platform and our training sessions?



Educates Training Platform

Interactive workshop environment in Kubernetes



[educates/educates-training-platform](https://github.com/educates/educates-training-platform)




educates.dev

1: Workshop Overview

The [Kubernetes](#) web site describes Kubernetes as:

an open-source system for automating deployment, scaling, and management of containerized applications.



This workshop is intended to give you a quick hands on introduction with using Kubernetes. In the process you will learn about some of the fundamental concepts of Kubernetes when deploying applications to it. The focus will be on what a developer would need to know to use the platform. It is not a workshop on how to run the Kubernetes platform.

Start Workshop

Terminal Console Slides Editor

59:38

```
[~] $ kubectl version
Client Version: version.Info{Major:"1", Minor:"17", GitVersion:"v1.17.6", GitCommit:"d32e40e20d167e103faf894261614c5b45c44198", GitTreeState:"clean", BuildDate:"2020-05-20T13:16:24Z", GoVersion:"go1.13.9", Compiler:"gc", Platform:"linux/amd64"}
Server Version: version.Info{Major:"1", Minor:"17", GitVersion:"v1.17.5", GitCommit:"e0fccafd69541e3750d460ba0f9743b90336f24f", GitTreeState:"clean", BuildDate:"2020-04-16T11:35:47Z", GoVersion:"go1.13.9", Compiler:"gc", Platform:"linux/amd64"}
[~] $
```

```
[~] $
```

4: Creating the Resources

By doing a dry run deployment, you have seen the resources that will be created. To actually deploy the database component, now run:

```
kubectl apply -f database/
```

As with the dry run, `kubectl apply` will list the resources, except this time the resources will be created.

```
secret/blog-credentials created
service/blog-db created
persistentvolumeclaim/blog-database created
deployment.apps/blog-db created
```

The key resource in this list is `deployment`. It specifies the name of the container image to be deployed for an application, how many instances should be started, and the strategy for how the deployment should be managed.

To monitor progress of the deployment, and know when it has completed, you can run the command:

```
kubectl rollout status deployment/blog-db
```

The argument is the full name of the resource, including the type of resource and the name for this instance. In this case the instance was called `blog-db`.

With the database deployed, now deploy the front end web application by running:

```
kubectl apply -f frontend/
```

kubernetes

Overview

Cluster
Cluster Roles
Namespaces
Nodes
Persistent Volumes
Storage Classes

Namespace
lab-k8s-fundamentals-w01-...

Overview
Workloads
Cron Jobs
Daemon Sets
Deployments
Jobs
Pods
Replica Sets
Replication Controllers
Stateful Sets
Discovery and Load Balancing

Workloads

Workload Status

Deployments

Pods

Replica Sets

Deployments

Name	Labels	Pods	Created	Images
✓ blog	app: blog	2 / 2	10 minutes ago	quay.io/eduk8s-labs/app-k8s-fundamentals-frontend:latest
✓ blog-db	app: blog-db	1 / 1	11 minutes ago	centos/postgresql-96-centos7:latest


2: Accessing the Cluster

For the exercises you will be doing, you will be using the **kubectl** command line program to interact with Kubernetes. This is provided for you via the interactive terminal session accessible through the **Terminal** tab, here in the workshop environment. You do not need to install anything on your own computer. You will be doing everything here through your web browser. There is no need to login as you are already connected to the Kubernetes cluster you will be using.

The workshop environment also provides you with a web based view into the Kubernetes cluster. This is available through the **Console** tab of the workshop environment. This is included so you can visually see the results of what you do in the exercises, but the exercises do not depend on it.

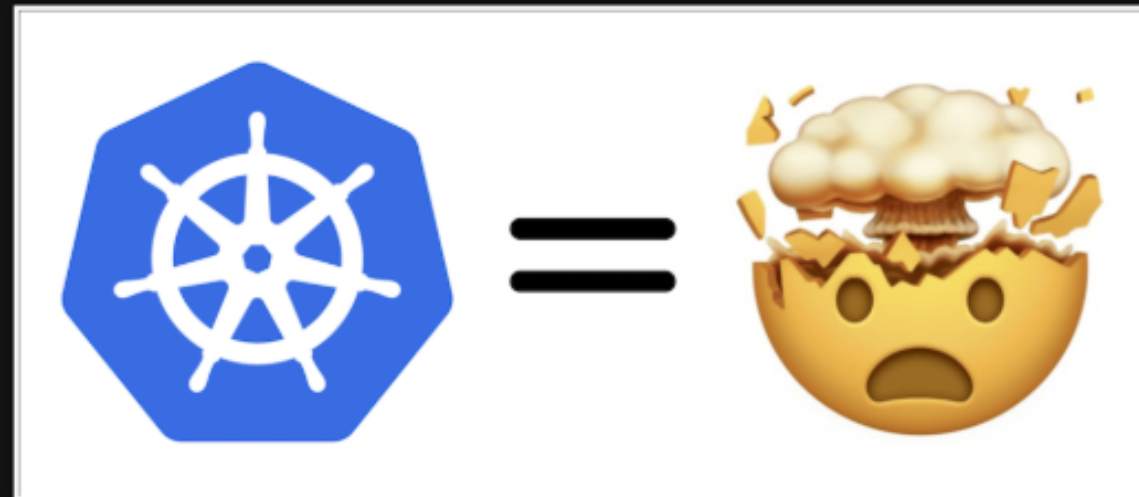
Before continuing, verify that the `kubectx` command runs and the workshop environment is also functioning. To do this run:

```
kubectl version
```

Would you type the command in yourself? If you did, click on the command here instead and you will find that it is executed for you. You can click on any command here in the workshop notes which has the  icon shown to the right of it, and it will be copied to the interactive terminal and run for you.

When run, you should see output similar to:

```
Client Version: version.Info{Major:"1", Minor:"17",
GitVersion:"v1.17.0", GitCommit:"7b132b0f130acc0bed193d9
ba596d186f0e634cf", GitTreeState:"clean", BuildDate:"2019-12-
07T21:20:10Z", GoVersion:"go1.13.4", Compiler:"gc"}
```



3: Deploying an Application

Now you have checked your access to the Kubernetes cluster is working, we are going to immediately jump in and deploy a complete application, consisting of a front end web application implementing a blog site, along with a PostgreSQL database for storing the blog posts.

This is to show you how quickly you can deploy a complete application to Kubernetes if you already have the configuration. Once the complete application has been deployed, we will delete the front end web application component, and deploy it again in steps so you can see how it fits together and how it uses Kubernetes.

The first part of the application we want to deploy is the PostgreSQL database. The set of resource files for deploying this can be found in the database directory.

```
ls -las database/
```

Each file in the directory contains a different resource definition which go together to make up the deployment for the application component.

⬅️ Rather than try and dig into each file to work out what it defines, you can have Kubernetes tell you what resources it would create when the directory of resources is processed. To do this, run:

```
kubectl apply -f database/ --dry-run
```

This should output:

```
secret/blog-credentials created (dry run)
service/blog-db created (dry run)
persistentvolumeclaim/blog-database created (dry run)
```

Terminal Console Slides Editor

58:32

EXPLORER

OPEN EDITORS

! service.yaml

EDUK8S

.config

.kube

.local

database

! deployment.yaml

! persistentvolumeclaim.yaml

! secret.yaml

! service.yaml

frontend

! deployment.yaml

! ingress.yaml

! ingress.yaml.in

! persistentvolumeclaim.yaml

! service.yaml

frontend-src

frontend-v1

frontend-v2

frontend-v3

frontend-v4

frontend-v5

OUTLINE

TIMELINE

! service.yaml X

database > ! service.yaml > apVersion

```

1  apiVersion: v1
2  kind: Service
3  metadata:
4    name: blog-db
5    labels:
6      app: blog-db
7  spec:
8    type: ClusterIP
9    selector:
10     app: blog-db
11  ports:
12    - name: postgresql
13      port: 5432
14      protocol: TCP
15      targetPort: 5432
16

```

Ln 1, Col 1, Spaces: 2, LF, YAML

USE CASES:



Interactive Workshops

Host engaging workshops with hands-on exercises and real-time feedback.



Team Training

Train your team effectively with customized learning environments.



Product Demos

Showcase your products with interactive demonstrations and tutorials.



Educational Programs

Create comprehensive educational programs with practical exercises.

Platform Features



Kubernetes Native
Built from the ground up to run natively on Kubernetes, leveraging its powerful features and ecosystem.



Secure by Design
Enterprise-grade security with isolated environments and controlled access for each participant.



Highly Scalable
Scale your training environments effortlessly to accommodate any number of participants.



Extensible Platform
Customize and extend the platform to meet your specific training needs and requirements.



Local Container Runtime
Run the platform locally using a local container runtime.



Run Anywhere
The platform can be run anywhere, whether it be on a local machine, a cloud provider, or a Kubernetes cluster.



Developer Friendly
The platform is designed to be developer friendly, with a focus on ease of use and content creation.



Customizable
Provide your own theme and branding to make the platform your own.

Educates Training Platform provides a comprehensive set of features designed to make your training and workshop experiences seamless and effective.

Platform Features

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Scale your training environments effortlessly to accommodate any number of participants.

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Customize and extend the platform to meet your specific training needs and requirements.

Local Container Runtime

Run the platform locally using a local container runtime.

Self Paced or Supervised

Choose between self-paced or supervised training modes to suit your learning style and needs.

Developer Friendly

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Customizable

Provide your own theme and branding to make the platform your own.

Run Anywhere

The platform can be run anywhere, whether it be on a local machine, a cloud provider, or a Kubernetes cluster.

Educates Training Platform provides a comprehensive set of features designed to make your training and workshop experiences seamless and effective.

Open Source

The platform is Open Source and free to use and licensed under the Apache 2.0 license.



Graham Dumpleton

Project co-Lead



Jorge Morales

Project co-Lead



Bill Kable

Project contributor



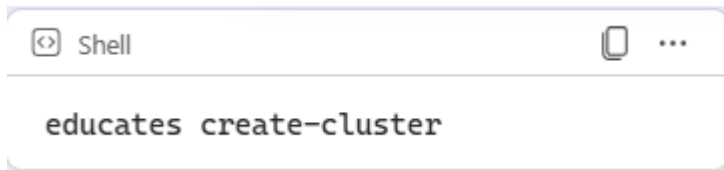
Where & How to Run

Local Development (Kind-based training cluster)

Requirements:

- Container runtime (e.g. Docker/Colima)
- Kind (auto-install if missing)
- Min 4CPU,8GB ram recommended
- 3 available open ports (HTTPS,DNS,local registry)

One-step startup using Educates CLI



```
Shell  
educates create-cluster
```

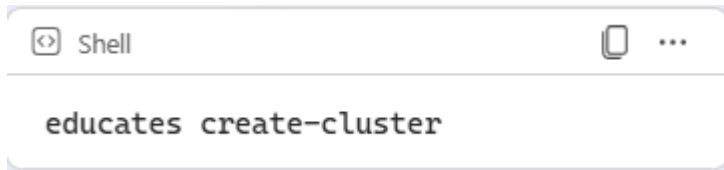

Local Development (Kind-based training cluster)

Best for development or small workshops

Requirements:

- Container runtime (e.g. Docker/Colima)
- Kind (auto-install if missing)
- Min 4CPU,8GB ram recommended
- 3 available open ports (HTTPS,DNS,local registry)

One-step startup using Educates CLI

A terminal window with a title bar that says 'Shell'. Inside the terminal, the command 'educates create-cluster' is entered.

```
educates create-cluster
```

Cloud-Managed Kubernetes

- **Best for large-scale trainings and conferences**
- **Recommended dedicated cluster**
- **No answer to size (depends on app and number of participation)**
- **Requirements:**
 - Ingress controller (Contour is recommended)
 - Persistent volume (minimally readOnlyOnce)
 - Cluster security enforcement (Kyverno is recommended)

Installation Options:

- **Educates CLI (one-command install)**
- **Carvel (kapp + ytt) — recommended for GitOps**
- **Terraform modules available for EKS/GKE**

Under the Hood

On the Cluster side

Contour for ingress

Kyverno for sandboxing workshop session

CRDs for managing educates through Operators

Rendering Hugo

VS code server

On the Client Side

Educates CLI for:

- **Creating platforms locally**
- **Publisiinig workshops**
- **Deploying workshops**
- **Managing portals**

Architecture and CRD

Training Portal is the entry point and orchestrator of the entire platform.

- **Key responsibilities include:**
 - Rendering the portal UI and exposing the landing page.
 - Registering all available workshops, their metadata and configuration
 - Configuring ingress, TLS, URL paths, and domain settings.
 - Defining global session policies (TTL, maximum concurrent sessions, cleanup rules).
 - Managing authentication, user rules

```
1  apiVersion: v1
2  kind: List
3  items:
4  - apiVersion: training.educates.dev/v1beta1
5    kind: TrainingPortal
6    metadata:
7      name: educates-cli
8    spec:
9      portal:
10         password: orange
11         registration:
12           type: anonymous
13         sessions:
14           maximum: 20
15       workshops:
16       - alias: ""
17         expires: 60m
18         initial: 0
19         name: educates-cli--kafka-intro-e7ea950
20         url: https://github.com/tbocinec/educates-labs/releases/download/0.1/kafka-intro.yaml
21         orphaned: 5m
22         overdue: 2m
23         reserved: 0
24       - alias: ""
25         expires: 60m
26         initial: 0
27         name: educates-cli--kafka-ui-5b06831
28         url: https://github.com/tbocinec/educates-labs/releases/download/0.1/kafka-ui.yaml
29         orphaned: 5m
30         overdue: 2m
31         reserved: 0
```


Workshop definition

The *Workshop* CRD describes the content of a workshop and how it should be built, packaged, and presented.

- **Key responsibilities include:**
 - Workshop metadata (title, description, categories).
 - Where the content is stored (Git repo, or OCI image).
 - Default session settings and environment bindings.
 - Ingress in workshops

```
You, 2 days ago | 1 author (You)
apiVersion: training.educates.dev/v1beta1
kind: Workshop
▼ metadata:
  name: "kafka-cli"
▼ spec:
  title: "Kafka CLI Tools Mastery"
  description: "Complete hands-on workshop for Kafka CLI tools - from basics to advanced operations. Environment"
  url: https://github.com/tbocinec/educates-labs
  ▼ publish:
    image: "${image_repository}/kafka-cli-files:${workshop_version}"
    files:
    ▼ - directory:
      path: .
    ▼ includePaths:
      - /workshop/**
      - /docker-compose.yml
      - /README.md
  ▼ workshop:
    image: "ghcr.io/educates/educates-jdk21-environment:latest"
    files:
    ▼ - image:
      url: "${image_repository}/kafka-cli-files:${workshop_version}"
    ▼ includePaths:
      - /workshop/**
      - /docker-compose.yml
      - /README.md
  session:
    namespaces:
      budget: x-large
    resources:
      memory: 4Gi
    applications:
      terminal:
        enabled: true
        layout: split
      editor:
        enabled: true
      console:
        enabled: false
      docker:
        enabled: true
        memory: 4Gi
      registry:
        enabled: false
      vcluster:
        enabled: false
    ingresses:
      - name: kafka-ui
```

- **WorkshopEnvironment**

Defines the runtime blueprint for workshop sessions (tools, editor, terminal, Docker, storage, CPU/RAM limits).

- **WorkshopRequest**

Represents a user's request to start a workshop. Triggers provisioning of the session namespace, Pod, PVCs, and services.

- **Session / SessionNamespace**

Tracks the lifecycle of an active workshop session, including status, TTL, expiration, and cleanup workflow.

- **WorkshopContent**

Stores metadata about compiled or rendered workshop assets (e.g., built images or processed content bundles).

- **WorkshopEnvironmentPolicy**

Defines global limits and security constraints for all workshop environments (resources, quotas, default policies).

- **WorkshopUserAssignment**

Used for controlled access and enterprise training flows—binds users to specific workshops or pre-created sessions.

- **WorkshopEnvironmentSnapshot**

Captures the state of a running session to support advanced recovery or restore scenarios.

User/portal registration

User/portal registration

- **Automated validation system for workshops**
Ensures participants complete tasks correctly by running pre-defined tests inside the session.
- **Script-based test definitions**
Tests are written as Bash scripts that verify files, Kubernetes resources, commands, or configuration changes.
- **Runs inside the workshop environment**
Ensures validation reflects the participant's actual actions and environment state.
- **Pass/Fail based on exit codes**
Exit code 0 marks the test as passed; any non-zero result triggers failure.
- **Useful for structured learning and certification**
Supports challenge-based scenarios, guided exercises, and formal skill assessments.

Demo

web: educates.bocinec.com

Password: orange

Lab: XX

Thank you for your attention.

> CAT QUESTIONS | teams

DEMO:

| Security & Isolation



Namespace Isolation: Each user session runs in a dedicated Kubernetes Namespace, ensuring no resource overlap.



Network Policies: Strict policies prevent sessions from communicating with each other or sensitive cluster components.



RBAC Controls: Service accounts are scoped with minimal privileges required for the workshop content.



Automatic Cleanup: Environments are completely destroyed when the session expires, leaving no digital footprint.

Educates vs. Traditional VM Labs

Metric	Traditional VM Labs	Educates.dev
Startup Time	Minutes (OS Boot)	Seconds (Container Start)
Resource Usage	Heavy (Full OS overhead)	Lightweight (Shared Kernel)
User Access	RDP / VNC (Laggy)	Browser (Native Web Tech)
Scalability	Linear / Expensive	High (Kubernetes Scaling)

| Common Workshop Pain Points



"Works on my machine"

Participants waste the first hour configuring their local environments, installing dependencies, and fixing version conflicts.



Heavy Resources

Traditional VM-based labs are slow to provision, expensive to run, and difficult to scale dynamically for large audiences.



Context Switching

Users constantly switch between documentation tabs and their local terminal, breaking flow and leading to copy-paste errors.

Presentation title

Calibri Bold

amet consetet

Optional subhead

Presenter, Calibri 16 pt
English, Month 2023



ETIAM sit amet

Product title Calibri Bold
amet consetet

ETIAM sit amet

Product title Calibri Bold
amet consetet



Chapter divider title Calibri Bold



ETIAM sit amet

Chapter divider Calibri Bold

Table of Contents

Title Calibri Bold 28 pt

- **Headline Calibri Bold 18 pt**3
Lorem ipsum Calibri 18 pt 5
- **Headline Calibri Bold 18 pt** 3
Lorem ipsum Calibri 18 pt 8
Dolor situs cum habilitarum 9
- **Headline Calibri Bold 18 pt** 10
Lorem ipsum Calibri 18 pt 11
Dolor situs cum habilitarum 18



One column

Headline Calibri Bold 28 pt

Headline Calibri 18 pt

Calibri 18 pt Dolor situs cum habilitarum itum alusi ex landum it exus rius cum habilitarum itum alus ex landum it lorem exit itum alus causticus. Dolor situs cum habilitarum itum alus causticus sit imane nter status ex landum it exus rius laudandum itum caiusticus. Dolor situs cum habilitarum itum alus causticus imanenter status ex landum it alus causticus.

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Two columns (including image)

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Headline Calibri 18 pt

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Calibri 16 pt dolor situs

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Two columns

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Headline Calibri 18 pt

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Headline Calibri 18 pt

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Three columns

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causticus.

Headline Calibri 18 pt

- Dolor situs cum habilitarum itum
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Headline Calibri 18 pt

- Dolor situs cum habilitarum itum
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rius enter.
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alus causticus sit imane causticus sit
imane nter Status ex landum it exus
rius enter.

One column (with margin)

Headline Calibri Bold 28 pt

Headline Calibri 18 pt

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- Dolor situs cum habilitarum itum alus causticus sit imane causticus sit imane nter Status ex landum it exus rius enter.

.....

Calibri 16 pt

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.....

Three columns (including images)

Headline Calibri Bold 28 pt

Headline Calibri 18 pt

Dolor situs cum habilitarum itum alusi causticus imanenter ex landum it exus rius laudaer ibis tum. Lorem et exit vulna reus plexus.



Headline Calibri 18 pt

Dolor situs cum habilitarum itum alusi causticus imanenter ex landum it exus rius laudaer ibis tum. Lorem et exit vulna reus plexus.



Headline Calibri 18 pt

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*„Quote Calibri 28/14 pt dolor
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tempor invidunt ut labore
et dolore magna.“*

Lorem ipsum dolor sit



*„Quote Calibri 48/14 pt dolor sit
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tempor invidunt ut labore
et dolore magna.“*

Lorem ipsum dolor sit



*„Quote Calibri 40/14 pt dolor
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et dolore magna.“*

Lorem ipsum dolor sit

Product detail

Title Calibri Bold 28 pt

Headline Calibri Bold 14 pt
Text Calibri 14 pt.
Dolor situs cum habilitarum

Headline Calibri Bold 14 pt
Text Calibri 14 pt.
Dolor situs cum habilitarum

Headline Calibri Bold 14 pt
Text Calibri 14 pt.
Dolor situs cum habilitarum

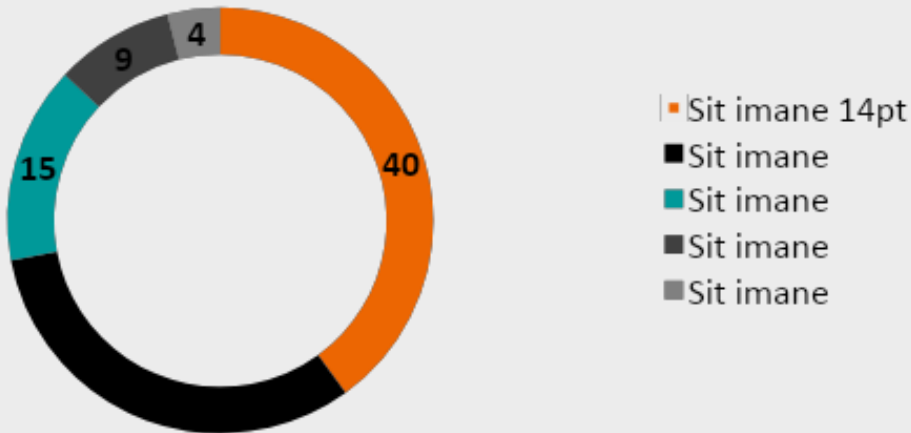


Headline Calibri Bold 14 pt
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Dolor situs cum habilitarum

Headline Calibri Bold 14 pt
Text Calibri 14 pt.
Dolor situs cum habilitarum

Diagram (with description)

Headline Calibri Bold 28 pt



Headline Calibri Bold 18 pt

Text Calibri 18 pt. Dolor situs cum habilitarum itum alusi causticus imanenter Status ex landum it exus rius laudanum ibis tum. Lorem et exit vulnareus plexus. Sit imane nter Status ex landum it exus rius laudanum itum.

- Sit Lorem et exit vulnare eus plexus sit ite causticus. Imane nter Status ex landum it exus rius laudanum it exus rius laudanum ibis tum.

One column (with medical image)

Headline Calibri Bold 28 pt

Headline Calibri Bold 18 pt

Text Calibri 18 pt. Dolor situs cum habilitarum itum alusi causticus imanenter Status ex landum it exus rius laudanum ibis tum. Lorem et exit vulnareus plexus.

- Dolor situs cum habilitarum itum alus
- Sit imane nter Status ex landum it exus rius laudanum itum causticus.
- Dolor situs cum habilitarum itum alus imanenter Status ex landum it alus causticus.



Four clinical pictures

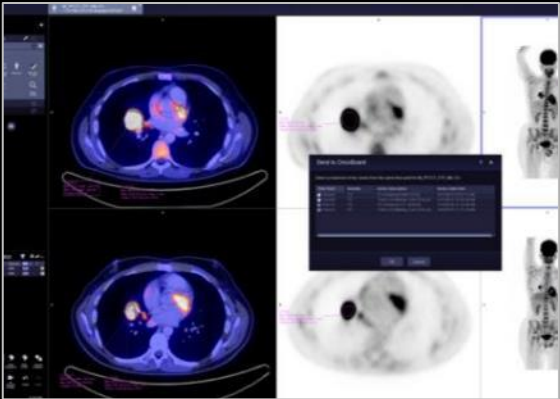
Title Calibri Bold 28 pt

Headline Calibri Bold 18 pt

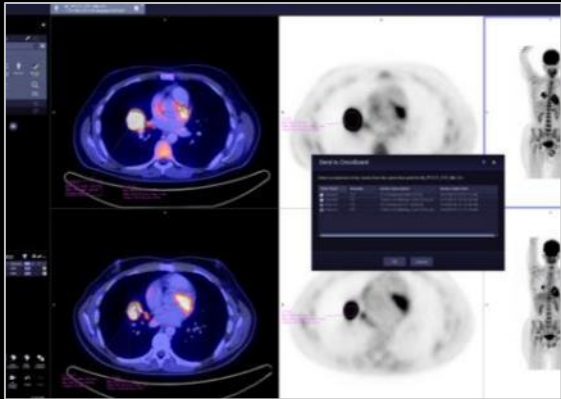
Text Calibri 18 pt. Dolor situs cum habilitarum
itum alusi causticus imanenter Status ex landum
it exus rius laudanum ibis tum. Lorem et exit
vulnareus plexus. Sit imane nter Status ex
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aurum eum explindus. Status landum it exus
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eus plexus Sit ite causticus.

Calibri 16 pt dolor situs

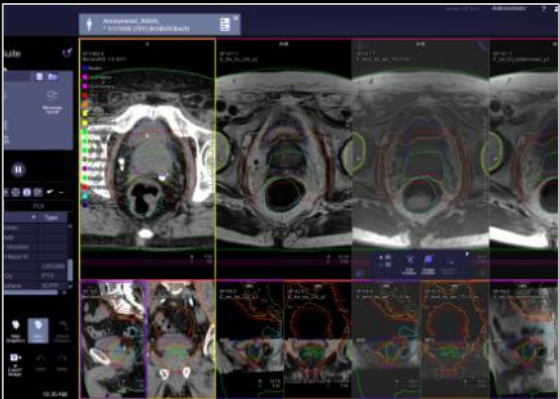
Donec pede justo, fringvilla vel, aliquet
nec, vulputate eget, arcu. In enim justo.



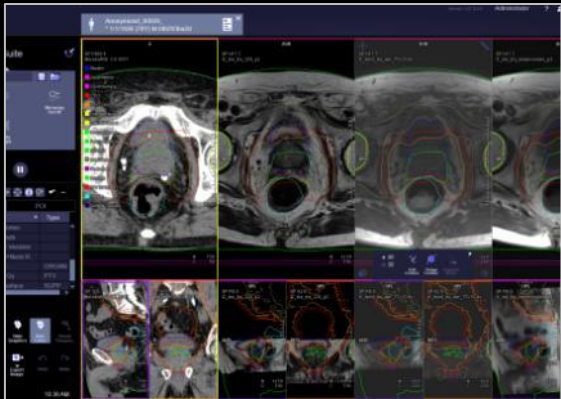
Lorem caption ipsum



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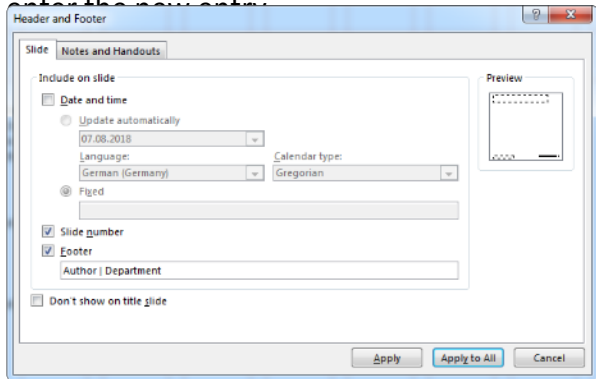
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Author | Department

To insert author and department please use the specified function “Header & Footer”. Choose a slide where a footnote is listed. Go to Insert > Header & Footer and



Other footnotes

To insert slide based footnotes use the text frame below.

Animations

Some slides contain animations. To customize this go to the appropriate master layout and then to Animations > Animation Pane.

Category

Each presentation needs to be categorized, with the author being responsible for choosing the right category: “Unrestricted”, “Restricted”, “Confidential” or “Strictly confidential”

The preset default category for presentations is “Restricted”. Start > Replace > insert “Restricted ©” and “the new category ©” to choose a new one.

Exchange

This presentation uses the preinstalled Office font Calibri. If you send it to someone internally or externally, please convert it into a pdf (Save as > PDF) to ensure that the content stays as intended.

Transfer of old presentations

To apply content to the new template, select the desired slides from the sidebar in the old presentation and press Ctrl+C, go to the new template and press Ctrl+V by selecting Paste Options > Use Destination Theme (H).

If necessary, additionally press the “Reset” button in the

Guides

Our template contains layout guidelines. Their purpose is to indicate key margins and mandatory areas on slides. Click with the right key in the outer area of the content slides to switch on or off the guides.

Copy and paste

Copy only full slides when they use the same new design. Otherwise the file size will be very large (because duplication of the master). Use the function Insert > Insert Content > Unformatted Text to paste a copied text. The text will now use the same existing format.

Attention

The Dot Pulse may not be used or animated in any other form than shown. Thank you for your understanding!

Theme Colors

<div>0</div> <div>0</div> <div>0</div>	<div>255</div> <div>255</div> <div>255</div>	<div>191</div> <div>191</div> <div>191</div>	<div>236</div> <div>102</div> <div>2</div>	<div>236</div> <div>102</div> <div>2</div>
Text/Bkgrd Dark 1	Text/Bkgrd Light 1	Text/Bkgrd Dark 2	Text/Bkgrd Light 2	Accent 1
<div>0</div> <div>0</div> <div>0</div>	<div>0</div> <div>153</div> <div>153</div>	<div>64</div> <div>64</div> <div>64</div>	<div>128</div> <div>128</div> <div>128</div>	<div>191</div> <div>191</div> <div>191</div>
Accent 2	Accent 3	Accent 4	Accent 5	Accent 6

Custom Colors = Additional Colors + Functional Colors

<div>0</div> <div>153</div> <div>153</div>	<div>236</div> <div>102</div> <div>2</div>	<div>122</div> <div>22</div> <div>45</div>	<div>231</div> <div>0</div> <div>29</div>	<div>255</div> <div>210</div> <div>0</div>	<div>58</div> <div>191</div> <div>237</div>	<div>43</div> <div>36</div> <div>131</div>	<div>0</div> <div>154</div> <div>56</div>	<div>27</div> <div>27</div> <div>27</div>	<div>208</div> <div>208</div> <div>208</div>
<div>135</div> <div>210</div> <div>210</div>	<div>249</div> <div>181</div> <div>145</div>	<div>198</div> <div>155</div> <div>158</div>	<div>243</div> <div>128</div> <div>142</div>	<div>255</div> <div>233</div> <div>128</div>	<div>157</div> <div>223</div> <div>246</div>	<div>149</div> <div>146</div> <div>193</div>	<div>128</div> <div>204</div> <div>156</div>	<div>146</div> <div>146</div> <div>146</div>	<div>236</div> <div>236</div> <div>236</div>
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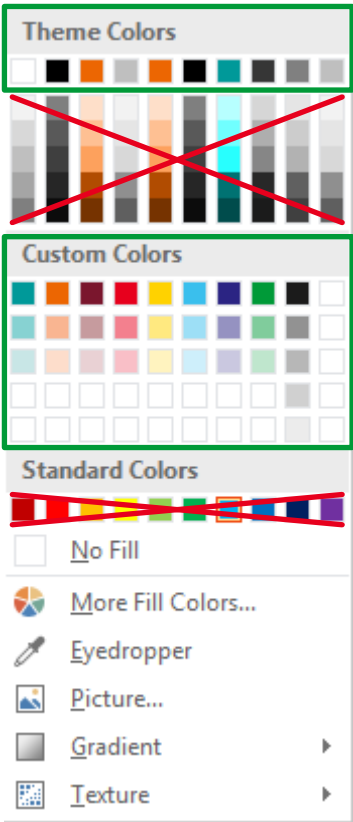
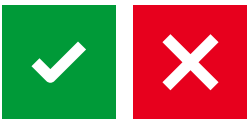
Correct color ratio



Our vibrant **Primary Colors** palette expresses a bright personality.

When an application requires more than four primary colors (including white) **the Additional Colors** can be used for complex infographics and the **Functional Colors** for instance for traffic sign symbols or warning signs/symbols.

Useful symbols



Theme Colors

Don't use the given gradation colors from PowerPoint.

Custom Colors

Our Primary, Additional and Functional Colors.