

DESIGN & COMPUTATION LITERACY WORKSHOP: THE CRISP-DM CYCLE FOR NON-CODERS

Bernard Suen
Center for Entrepreneurship
Chinese University of Hong Kong

Our Agenda Today

- ✓ Recap of the **T-Shaped** mindset and skills
- ✓ The **CRISP-DM** Cycle
- ✓ Data **scraping, cleaning, management** and **publishing** tools for non-coders

Quick recap of a few important points.

Case Study: Redesigning the Lobby Experience



Exploring the Hotel Experience of the Future with Marriott Hotels

Source: MIT Mobile Experience Lab

<https://design.mit.edu/projects/the-future-hotel-experience>

How can Marriott regain the market from Airbnb?

FIELD STUDY OBSERVATION AT THE HOTEL

We noticed a desire for customer autonomy, contextualized experiences, and public privacy.



Source: MIT Mobile Experience Lab



Source: MIT Mobile Experience Lab

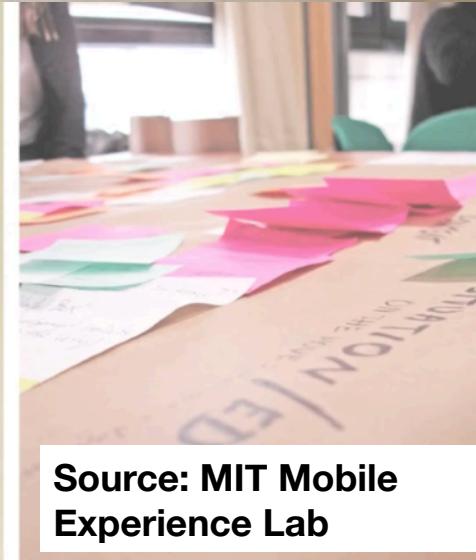
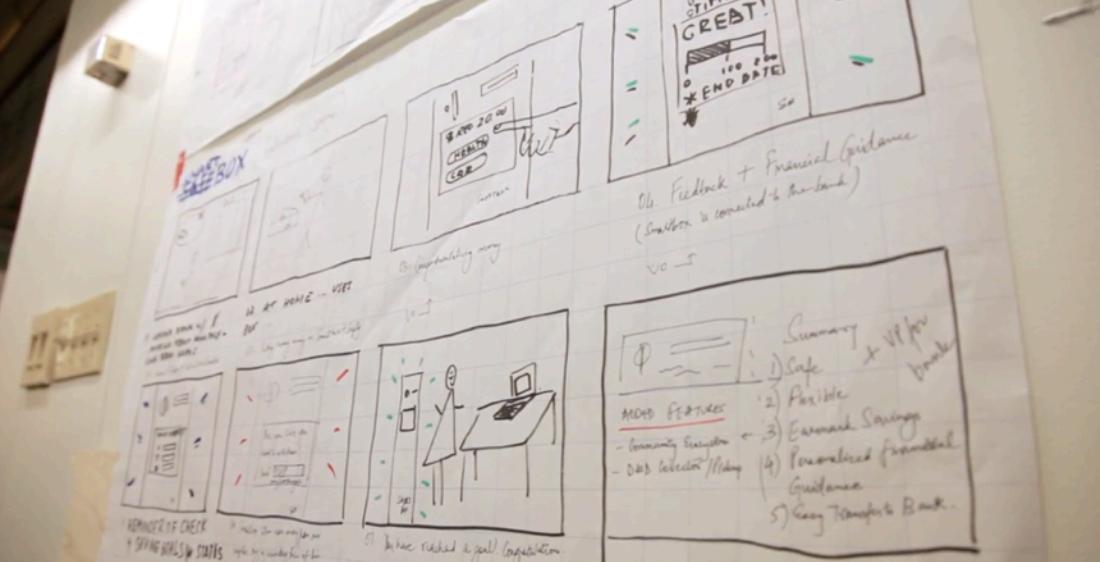
avid social explorer

Gen Y travelers seeking personalized yet serendipitous experiences, good company to share them with, and the ability to capture and celebrate them.



bored lobbygoer in transition

Anyone using the lobby as a meeting place or gathering point, looking to pass the time and avoid awkwardness.



Source: MIT Mobile Experience Lab

PROBLEM STATEMENT:

How might we make marriott guests
feel like **nodes within a network**
while encouraging
interactions in the lobby space?

**Source: MIT Mobile
Experience Lab**

HOME



Joins loyalty program, creates a profile & installs phone app.

LOBBY

ROOM

BOOKING

CHECK-IN

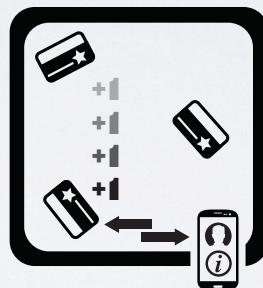
MEETUP

RETURN

USER JOURNEY MAP

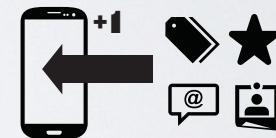


Given physical loyalty card on check-in — stores profile info, points & doubles as room key.



(Can be done in lobby or room)
Set availability via orientation of card. (Lobby only) Loyalty points awarded to cards at the same table. Table lights up to show activity, interests shown on table & lobby display map. Profiles added to app network.

INTERACTIONS OUTSIDE HOTEL



Prompted by app to tag places visited, ratings & social media for points — added to in-app database of recommendations.

Source: MIT Mobile Experience Lab

HOME
LOBBY
ROOM



Booking

USER JOURNEY MAP

profile, activity, location, points



Check-in

Give check-in point



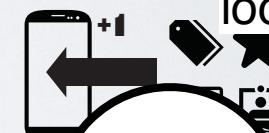
Meetup

Profile, activity, location, points
of users at the same table. Table lights up to show activity, interests shown on table & lobby display map. Profiles added to app network.

INTERIOR
OUTSIDE



Database



Review & Rating

profile, activity, location, points



RETURN

BOOKING

CHECK-IN

MEETUP

Source: MIT Mobile Experience Lab

Data Stores to be Tracked

Guests

Venues

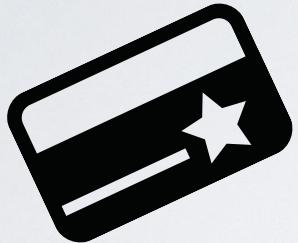
Social
Interactions

Activity
Types

Points

- e.g.
 - 1st time guests
 - Returning guests
- e.g.
 - Starbuck
 - Bar inside hotel
 - Boston Metropolitan Museum
- e.g.
 - Add friends
 - Take pictures
 - Share rides
 - Split bills
- e.g.
 - Museum tour
 - Bar hopping
 - Scenic picture taking
 - Business meeting
- e.g.
 - Revisit
 - Dine in hotel
 - Shop in hotel
 - Initiate contact
 - Give reviews

THE CARD



room key
point counter
status symbol

LOYALTY

Source: MIT Mobile
Experience Lab

THE TABLE



the social hub

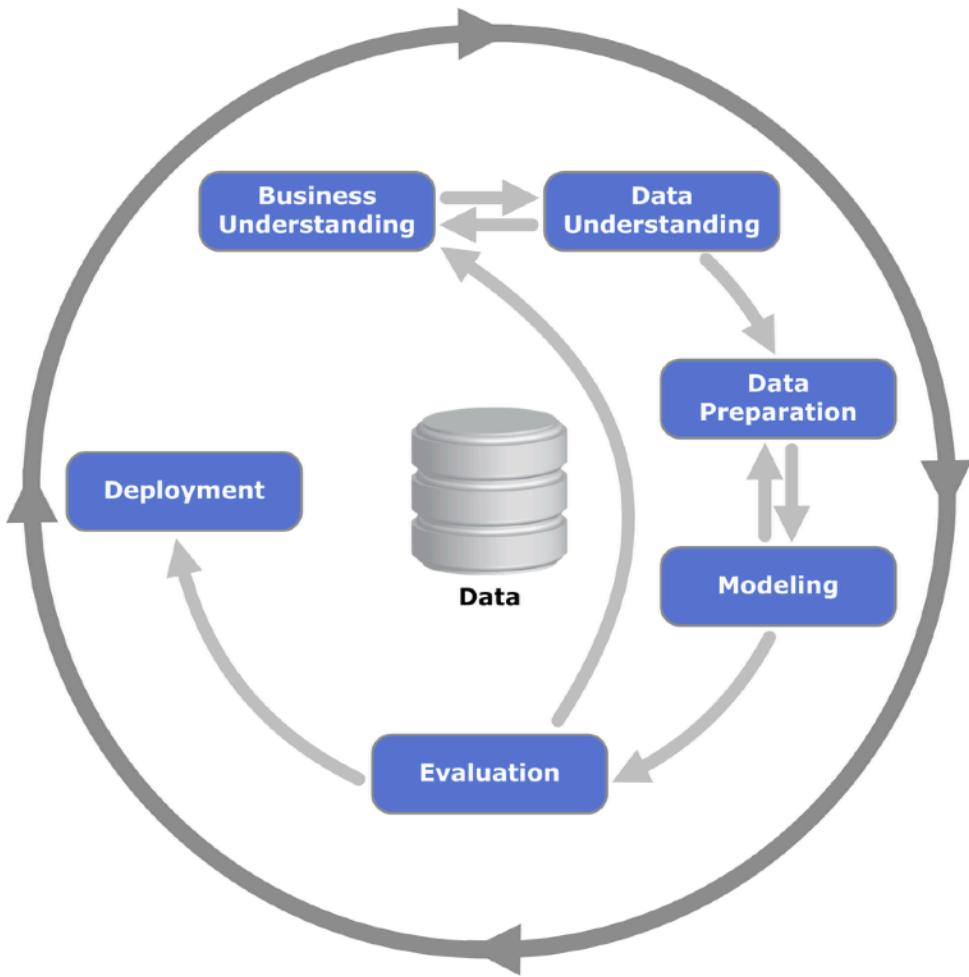
INTERACTION

THE APP



shared memory
social networks
recommendations

DATA



Cross-Industry Standard Process for Data Mining (**CRISP-DM**) Framework

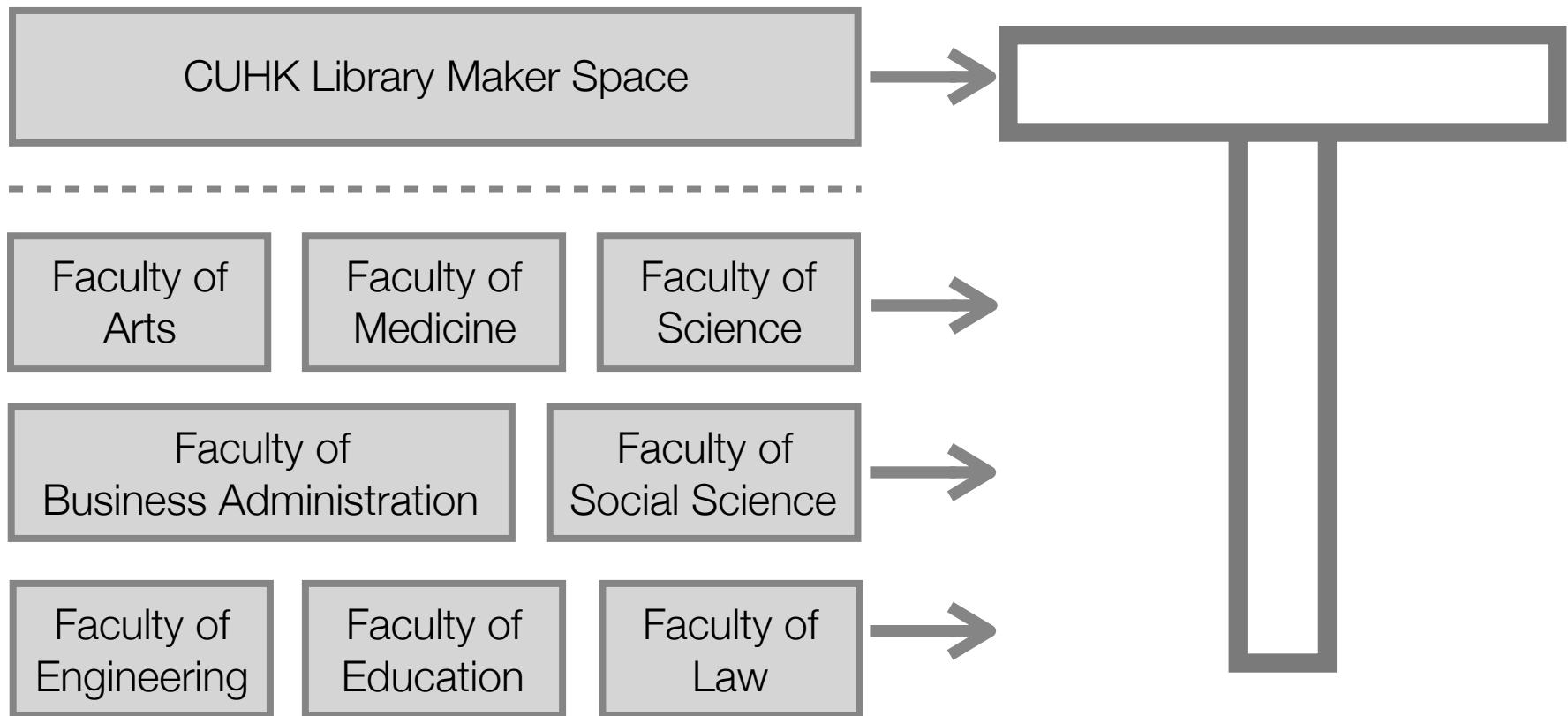
Source: Wikipedia

**How does CRISP-DM fit into the maker
space program?**

CU Maker Space

1. Objectives
2. Strategies
3. Initiatives

Objectives



設計思維 Design Thinking	運算思維 Computational Thinking	內容重點 Main Points
同理心 Empathy	分解 Decomposition	Collect stories from stakeholders for framing and decomposing the problem into sub-problems.
界定問題 Definition	模式 Patterns	Define the problem and functional and content requirements for collecting data to support ongoing system development and future operations.
創意發想 Ideation	抽象化 Abstraction	Build hypothesis for explaining or fostering the outcome and assemble the required data and processes for validation and evaluation
開展原型 Prototyping	算法 Algorithm	Validate the hypothesis through physical prototypes and software models.
重複測試 Testing	自動化 Automation	Evaluate findings through unit, integrated and user acceptance testing and automated system operations



<https://www.youtube.com/watch?v=5dFxQRcsKpw>

The essentials of computational thinking.

設計思維 Design Thinking	運算思維 Computational Thinking	數據發掘 Data Mining (CRISP-DM)	內容重點 Main Points
同理心 Empathy	分解 Decomposition	商業理解 Business Understanding	Collect stories from stakeholders for framing and decomposing the problem into sub-problems.
界定問題 Definition	模式 Patterns	數據理解 Data Understanding	Define the problem and functional and content requirements for collecting data to support ongoing system development and future operations.
創意發想 Ideation	抽象化 Abstraction	準備數據 Data Preparation	Build hypothesis for explaining or fostering the outcome and assemble the required data and processes for validation and evaluation
開展原型 Prototyping	算法 Algorithm	建立模型 Modeling	Validate the hypothesis through physical prototypes and software models.
重複測試 Testing	自動化 Automation	評估 Evaluation	Evaluate findings through unit, integrated and user acceptance testing and automated system operations

Strategies and Initiatives



The “**Two**” Tracks?

Web Scrapping

File Edit View Insert Cell Kernel Widgets Help Trusted Python 3 C Run Cell Code

```
In [1]:
 1 import requests
 2 import csv
 3 import pandas as pd
 4 from bs4 import BeautifulSoup
 5
 6 # quote_page = requests.get('http://startubbeat.hkej.com/?tag=fintech&paged=1')
 7 # soup = BeautifulSoup(quote_page.text, 'html.parser')
 8
 9 header = ['page #', 'title', 'url', 'details', 'post date']
10 data = []
11
12 # Display and store away 2 pages of scrapped data from startubbeat.hkej.com
13 for i in range(1,4):
14     quote_page = requests.get('http://startubbeat.hkej.com/?tag=fintech&paged=' + str(i))
15     print("\n***** Page " + str(i) + " in action *****")
16     soup = BeautifulSoup(quote_page.content, 'html.parser')
17
18     for article in soup.find_all("div", attrs={"class": "archive-text"}):
19         # for article in soup.find_all('div', class_ = 'archive-text'):
20             page_no = str(i)
21             title = article.a.text.encode('utf-8').strip()
22             decoded_title = title.decode('utf-8')
23             url = article.a.get('href')
24             details = article.p.text.encode('utf-8').strip()
25             decoded_details = details.decode('utf-8')
26             post_date = article.div.ul.li.text
27             print(decoded_title)
28             print(url)
29             print(decoded_details)
30             print(post_date)
31             data.append((page_no, decoded_title, url, decoded_details, post_date))
32
33 df = pd.DataFrame(data,
34 columns = header
35 df.to_csv('startub_beat_data_1.csv', sep='\t', encoding='utf-8')

***** Page 1 in action *****
港官方數碼幣料兩年內試用
http://startubbeat.hkej.com/?p=89686
各國近年紛紛探索央行數碼貨幣 (Central Bank Digital Currency, CBDC) ,不但中國正加快進行「數字貨幣/電子支付」 (DC/EP) 試點計劃,香港近年亦在此領域積極研究,區塊鏈科技初創CryptoBLK就與香港金融管理局 (金管局) 合作,參與相關項目。
Posted July 13, 2020
日本告別現金 (老占)
http://startubbeat.hkej.com/?p=89672
日本是一個現金社會,電子貨幣、支付寶和微信支付、Apple Pay一直都流行不起來。日本人更不喜歡「革命」兩字,認為這是「殺頭」的意思。
```

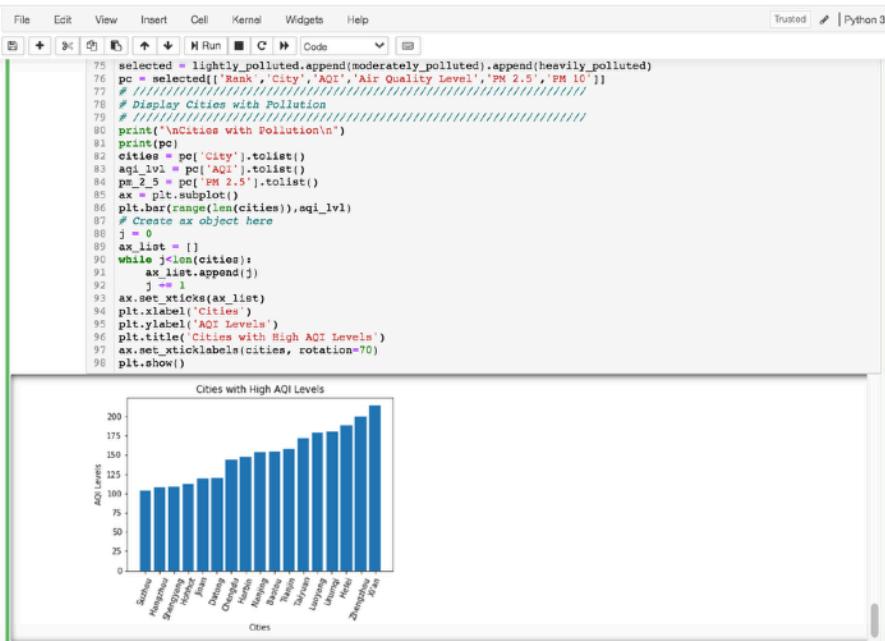
Programmer Track

The screenshot shows a web-based scraping tool. On the left, a sidebar lists various actions: 'Select page' (highlighted), 'Select Posts', 'Extract title', 'Extract url', 'Relative content', 'Relative date', 'Relative pic', and 'Select next'. Below these are two buttons: 'Click each next item (1)' and 'and go to main_template'. A large green 'Get Data' button is at the bottom right of the sidebar. In the main area, there's a message '堅持初心 繼續團結 (莫乃光)'. Below it, a section titled 'All posts tagged "FinTech"' shows a thumbnail of a woman holding a banknote, followed by a table of data. The table has columns: Posts_title, Posts_url, Posts_content, and Posts_date. One row is visible: '港官方數碼幣料兩年內試用' with URL 'http://startubbeat.hkej.com/?p=89686' and date 'Posted July 13, 2020'. At the bottom of the main area, there are checkboxes for 'Show more data' and 'Visuals enabled (advanced)'.

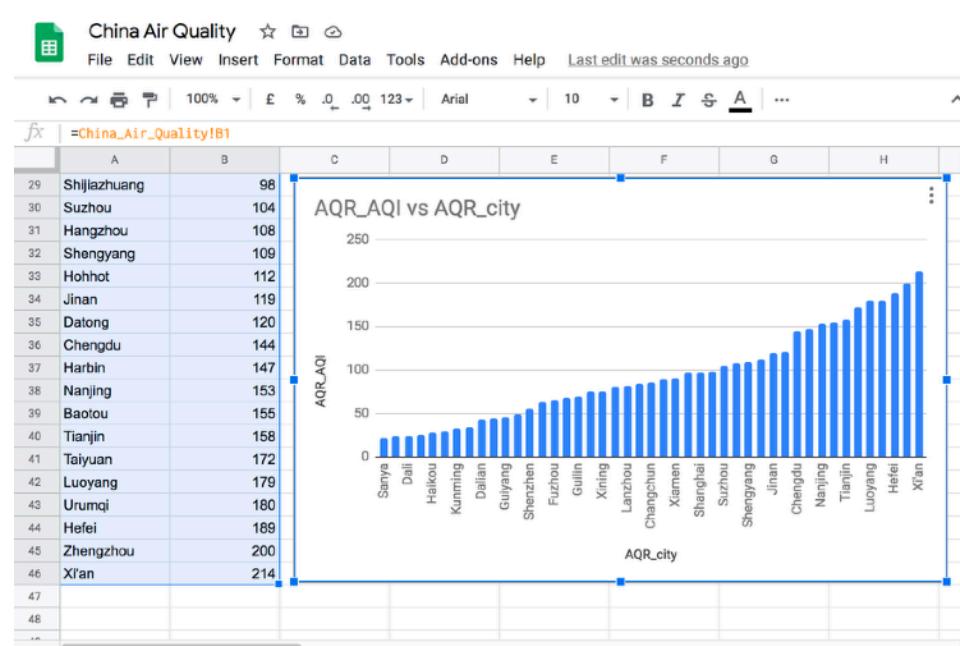
Posts_title	Posts_url	Posts_content	Posts_date
港官方數碼幣料兩年內試用	http://startubbeat.hkej.com/?p=89686	各國近年紛紛探索央行數碼貨幣 (Central Bank Digital Currency, CBDC) ,不但中國正加快進行「數字貨幣/電子支付」 (DC/EP) 試點計劃,香港近年亦在此領域積極研究,區塊鏈科技初創CryptoBLK就與香港金融管理局 (金管局) 合作,參與相關項目。	Posted July 13, 2020

Non-Programmer Track

Making Charts



Programmer Track



Non-Programmer Track

Database Management

Server: localhost:3306 Database: abc Table: User

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Show query box

Showing rows 0 - 3 (4 total). Query took 0.0023 seconds.

```
SELECT `id`, `public_id`, `name`, `password`, `admin` FROM `User` WHERE `id` > 4
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

	id	public_id	name	password	admin
<input type="checkbox"/>	7	dfe165cc-8e12-4029-82d1-028f3dacad68	John	sha256\$1BqSuelv\$0c4b6c558a319b0129a254b575b1a5153...	0
<input type="checkbox"/>	9	e01aac07-d9e3-476c-a679-88kf2fb6750	Winnie	sha256\$cOvvXS03gct7682000fdb34e467854d8e06f0d7cfb50b...	0
<input type="checkbox"/>	14	79cb6fe7-9387-4119-95e5-2d92101df4a	George	sha256\$kt7KK!e\$499e580a5d5a3229a3700e09d230b6be16...	0
<input type="checkbox"/>	16	2c9b56dd-234b-4cc5-8c05-c9c3f603201b	Stephen	sha256\$U9cDqtpbaec27b72f5ef26a34ef19b0f5c795a0b...	0

Show all | Number of rows: 25 Filter rows: Search this table Sort by key: None

+ Options

Check all With selected: Edit Copy Delete

Print Copy to clipboard Export Display chart Create view

Project Tracking

Staff Task Projects

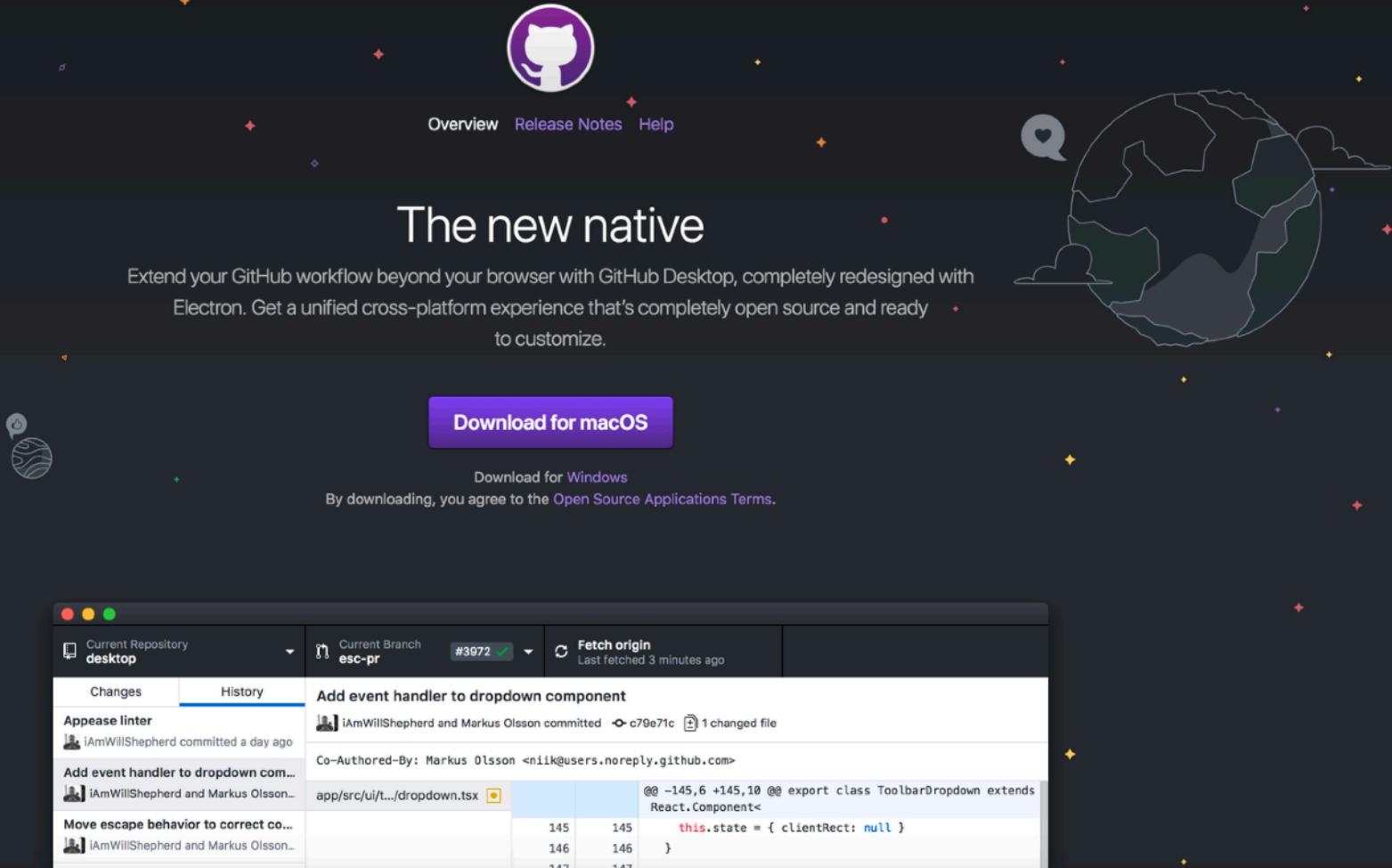
Views Grid view 1 hidden field Filter Group Sort Color ...

	Name	Staff	Where	Name	contains	End Date	Projects
1	MEI, Social Enterprise Challen...	David Chan				11/10/2019	Social Enterprise Challenge
2	Social Enterprise Challenge-M...	Winnie Cheung				10/9/2019	Social Enterprise Challenge
3	Social Enterprise Challenge, C...	Tommy Lee	Interview			27/9/2019	CFE Fund Raising Day / Socia...
4	Data and Media Hackathon-Da...	Winnie Cheung	David Chan	Data Collection		3/10/2019	Data and Media Hackathon
5	Teachers' Day-Meeting-5	David Chan		Meeting		7/10/2019	Teachers' Day
6	Teachers' Day-Proposal Review...	David Chan		Proposal Review		3/10/2019	Teachers' Day

Programmer Track

Non-Programmer Track





The new native

Extend your GitHub workflow beyond your browser with GitHub Desktop, completely redesigned with Electron. Get a unified cross-platform experience that's completely open source and ready to customize.

Download for macOS

Download for Windows

By downloading, you agree to the [Open Source Applications Terms](#).

Current Repository: desktop

Current Branch: esc-pr #3972 ✓

Fetch origin: Last fetched 3 minutes ago

Add event handler to dropdown component

iAmWillShepherd and Markus Olsson committed c79e71c 1 changed file

Co-Authored-By: Markus Olsson <nnik@users.noreply.github.com>

app/src/ui/t.../dropdown.tsx

	145	145	this.state = { clientRect: null }
	146	146	}
	147	147	

<https://desktop.github.com/>



Built for developers

GitHub is a development platform inspired by the way you work. From open source to business, you can host and review code, manage projects, and build software alongside 40 million developers.

Username

Email

Password

Make sure it's **at least 15 characters** OR **at least 8 characters including a number and a lowercase letter**. [Learn more](#).

[Sign up for GitHub](#)

By clicking "Sign up for GitHub", you agree to our [Terms of Service](#) and [Privacy Statement](#). We'll occasionally send you account related emails.

<https://github.com/>

Current Repository
ybsuen.github.io

Current Branch
master

Fetch origin
Last fetched 11 hours ago

Filter

Add ▾

- Clone Repository...
- Create New Repository...
- Add Existing Repository...**

Recent

- teachablemachine
- Flask-Intro-Demo
- maker_space

ybsuen

- Flask-to-airtable-on-Pythonanywhere
- JOUR2076
- JOUR4046
- Jupyter_google_connection
- Learning-Garden
- maker_space
- python-docs-hello-world
- ybsuen.github.io

NO local changes

There are no uncommitted changes in this repository. Here are some friendly suggestions for what to do next.



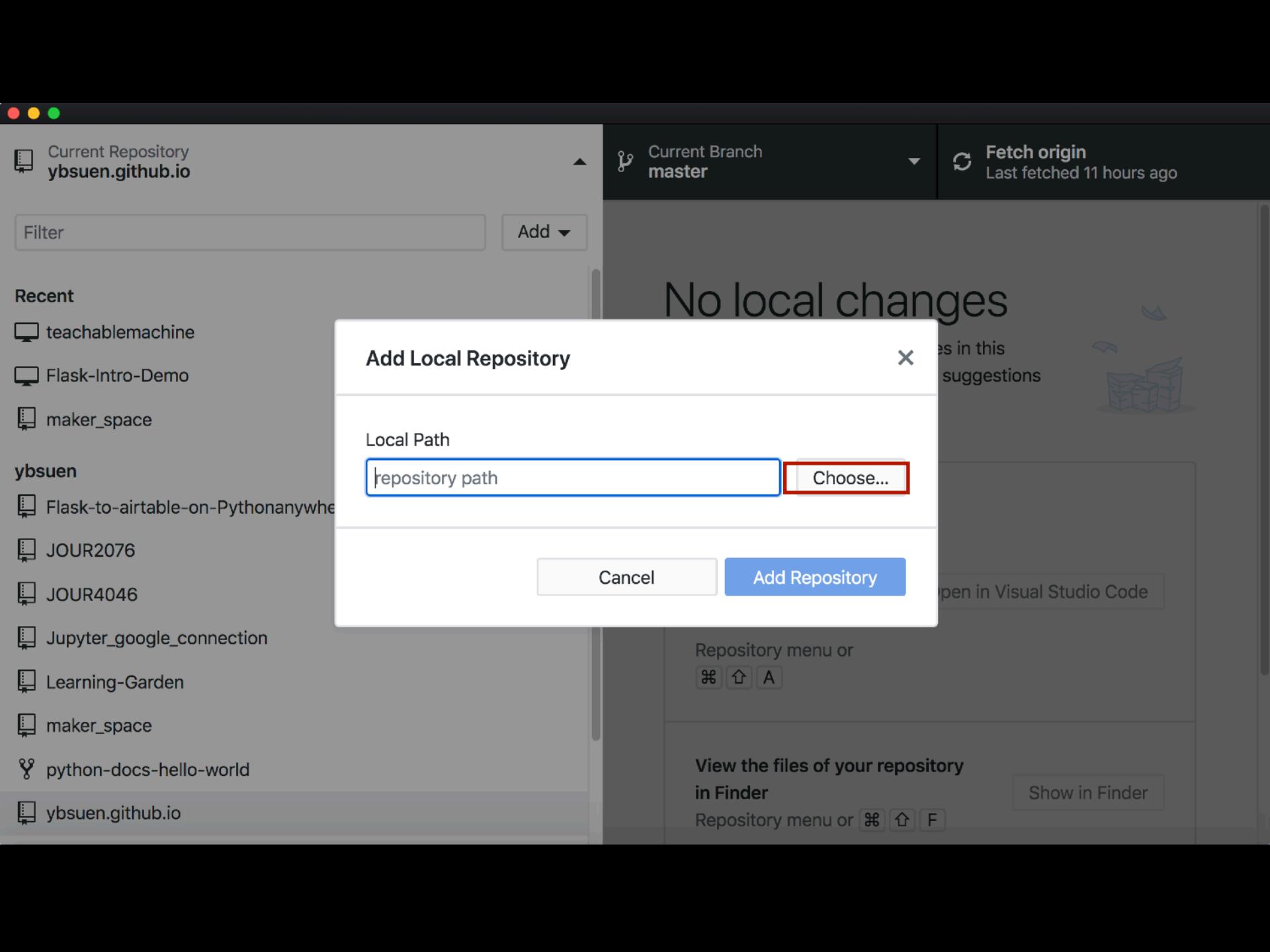
Open the repository in your external editor
Select your editor in Preferences

Repository menu or ⌘ ⌘ A

Open in Visual Studio Code

View the files of your repository in Finder
Repository menu or ⌘ ⌘ F

Show in Finder



Current Repository
ybsuen.github.io

Filter

Recent

- teachablemachine
- Flask-Intro-Demo
- maker_space

ybsuen

- Flask-to-airtable-on-Pythonanywhere
- JOUR2076
- JOUR4046
- Jupyter_google_connection
- Learning-Garden
- maker_space
- python-docs-hello-world
- ybsuen.github.io

Create a New Repository

Name
your_account_name.github.io

Description
Set up git hub web repository for website publishing

Local Path
/Users/yssuen/Documents Choose...

Initialize this repository with a README

Git Ignore
None

License
None

Cancel Create Repository

Fetch origin Last fetched a minute ago

ges
es in this
suggestions

Open in Visual Studio Code

Show in Finder

Current Repository
your_account_name.github.io

Filter Add ▾

ybsuen

- Flask-to-airtable-on-Pythonanywhere
- JOUR2076
- JOUR4046
- Jupyter_google_connection
- Learning-Garden
- maker_space
- python-docs-hello-world
- ybsuen.github.io

Other

- Flask-Intro-Demo
- teachablemachine
- your_account_name.github.io

Open in iTerm2
Reveal in Finder
Open in Visual Studio Code

Remove... Remove...

Current Branch
master

Publish repository
Publish this repository to GitHub

No local changes

There are no uncommitted changes in this repository. Here are some friendly suggestions for what to do next.



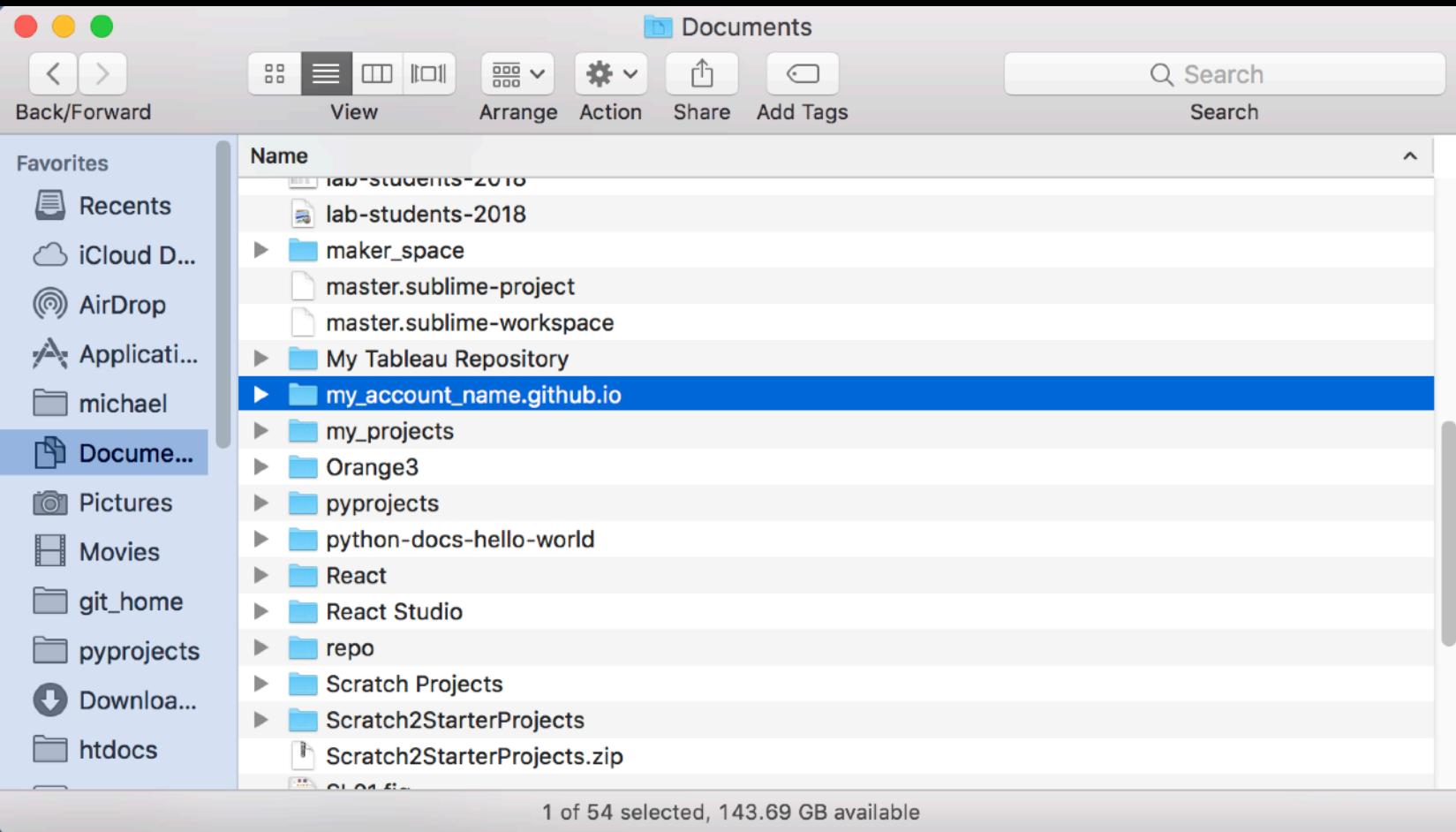
Publish your repository to GitHub

This repository is currently only available on your local machine. By publishing it on GitHub you can share it, and collaborate with others.

Always available in the toolbar for local repositories or ⌘ P

Publish repository

Open the repository



tm1.html

tm2.html

Current Repository
my_account_name.github.io

Current Branch
master

Publish repository
Publish this repository to GitHub

Changes History

0 changed files

SL Summary (required)

Description

Commit to master

Committed just now
Prepare repository for displaying ML and NLP demo.

Undo

No local changes

There are no uncommitted changes in this repository. Here are some friendly suggestions for what to do next.

SL Publish your repository to GitHub

This repository is currently only available on your local machine. By publishing it on GitHub you can share it, and collaborate with others.

Always available in the toolbar for local repositories or ⌘ P

Publish repository

Open the repository

Current Repository my_account_name.github.io

Current Branch master

Publish repository Publish this repository to GitHub

Changes History

0 changes

SL Summary (required)

Description

Commit to master

Committed just now Prepare repository for displaying ML and NLP demo.

Undo

Open the repository

Publish Repository

GitHub.com GitHub Enterprise Server

Name: my_account_name.github.io

Description:

Keep this code private

Cancel Publish Repository

for local repositories or ⌘ P

Current Repository my_account_name.github.io

Current Branch master

Publish repository Publish this repository to GitHub

Changes History

0 changes

SL Summary (required)

Description

Commit to master

Committed just now Prepare repository for displaying ML and NLP demo.

Undo Open the repository

Publish Repository

GitHub.com GitHub Enterprise Server

Name: my_account_name.github.io

Description:

Keep this code private

Cancel Publish Repository

for local repositories or ⌘ P



Search or jump to...

Pull requests Issues Marketplace Explore



Bernard Y S Suen

ybsuen

Life-long learner with a passion for interdisciplinary learning in advancing digital humanities.

Edit profile

58 followers · 0 following · 1 star

Chinese University of Hong Kong

Overview

Repositories 18

Projects

Packages

Find a repository...

Type: All

Language: All

New

[my_account_name.github.io](#)

HTML Updated 17 seconds ago

Star

[ybsuen.github.io](#)

Personal Website

Jupyter Notebook 6 MIT License Updated 2 days ago

Star



[Learning-Garden](#)

Learning Garden Repo

HTML Updated 10 days ago

Star



[maker_space](#)

Demo for CUHK Maker Space Workshop

Star

No-code Data Scrapping with ParseHub

A web scraping tool that is easy to use

ParseHub is a free web scraping tool. With our advanced web scraper, extracting data is as easy as clicking the data you need.

[Download our free app](#)



Open a website

Download our [desktop app](#). Choose a site to scrape data from.



Click to select data

Get data from multiple pages. Interact with AJAX, forms, dropdowns, etc.



Download results

Access data via JSON, Excel and [API](#). Data is collected by our servers.



about:parsehubupdater

about:parsehubupdater

parsehub

Double tap ⌘ to view all ParseHub hotkeys.

Connecting to the Parsehub server.

If this persists for more than a few seconds, update your ParseHub extension and restart Firefox.



A preview of your data will appear here

CSV/Excel JSON CSV/Excel Wide (beta)

Visuals enabled ⓘ

API Tutorials Contact

Projects

Runs

My Account

Integrations

Plans & Billing

Tutorials

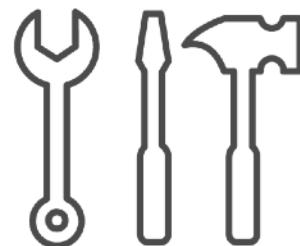
Documentation

API

Contact

Log Out

Recent projects



+ New Project

covid19 hkej.com Project



travelchinaguide.com Project



startupbeat.hkej.com Project



basketball-reference.com P...



+ See more

Recent runs

Interactive Tutorials

✓ Learn the Basics (8 min)

✓ Select and Download Data (3 min)

✓ Group data with Relative Select (3 min)

✓ Click and Navigate to Links (4 min)

Written Tutorials

1 Parsehub 101

2 Pagination ('next' page buttons)

3 Scrape product details

4 Scrape leads from directories

登入 | 註冊 | 訂閱 / 繼訂



熱門：港區國安法 新冠肺炎 搜尋：搶奪中環人 ESG報道系列

搜尋



齊心抗疫，優惠再延長！>



StartUpBeat



信報月刊

優雅生活

ejinsight

信報通識

信報出版

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主頁

即時新聞

今日信報

港股360

地產投資

財富管理

專題

信報視頻

最新

新聞專題

人物訪問

生活休閒

信報教育

活動專輯

全部

瘟疫大流行 >全球疫情發展



南韓增36宗新冠肺炎確診 逾半屬境外輸入

南韓中央防疫對策本部稱，當地新增36宗感染新型冠狀病毒肺炎的確診病例，累計近1.43萬宗。另外，當地新增1例死 ...

2020年7月31日



全球確診人數超過1745萬 美國達463萬

據Worldometer統計，截至香港時間周五早上8時，全球確診人數突破1745萬人，增加27.7



每月保費 (標準計劃)	女性	男性
25歲	\$130	\$109
35歲	\$187	\$147
45歲	\$264	\$221

Test Ru...



main_template

- Select page +
- Select article (19) +
- Extract title
- Extract url
- Relative story ↴ +
- Relative post_date ↴ +
- Select next
- Click each next item
 - and go to main_template

Selection Node: [Edit](#)

2nd a
> All elements

Wait up to seconds for elements
to appear.

API

Tutorials

Contact

全球疫情發展 - 信報網站 h 全球疫情發展 - 信報網站 h Test Run 全球疫情發展 - 信報網站 h

https://www1.hkej.com/features/topic/tag/瘟疫大流行最新發展

2020年7月30日

Select Mode [更多內容](#)

**全球確診人數突破1700萬
美國逾456萬**

據Worldometer統計 截至香港時間周四早上

CSV/Excel	JSON			
article_title	article_url	article_story	article_story_url	article_post_date
南韓增36宗新冠肺炎確診 逾半屬境外輸入	https://www1.hkej.com/features/article?q=%E2%96%AB%E5%A4%A7%E6%B5%81%E8%A1%8C	南韓中央防疫對策本部稱，當地新增36宗感染新型冠狀病毒肺炎的確診病例，累計近1.43萬宗。另外，當地新增1例死 ...	https://www1.hkej.com/features/article?q=%E2%96%AB%E5%A4%A7%E6%B5%81%E8%A1%8C	2020年7月31日
全球確診人數超過1745萬 美國達463萬	https://www1.hkej.com/features/article?q=%E2%96%AB%E5%A4%A7%E6%B5%81%E8%A1%8C	據Worldometer統計，截至香港時間周五早上8時，全球確診人數突破1745萬人，增加27.7萬人。死亡	https://www1.hkej.com/features/article?q=%E2%96%AB%E5%A4%A7%E6%B5%81%E8%A1%8C	2020年7月31日

This is a live preview. When you are ready to run your project, click Get Data.

Show more data Visuals enabled (advanced)



No-code Data Cleaning with OpenRefine



A free, open source,
powerful tool for working
with messy data



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Enhanced with Java profiler



Welcome!

OpenRefine (formerly Google Refine) is a powerful tool for working with messy data: cleaning it; transforming it from one format into another; and extending it with web services and external data.

OpenRefine is available in English, Chinese, Spanish, French, Russian, Portuguese (Brazil), German, Japanese, Italian, Hungarian, Hebrew, Filipino, Cebuano, Tagalog

OpenRefine is supported by:



Introduction to OpenRefine

1. Explore Data

OpenRefine can help you explore large data sets with ease. You can find out more about this functionality by watching the video below and going through [these articles](#)

The screenshot shows the OpenRefine interface with a table of data. The columns are: Contract ID, Contractor Name, Type of Contract, Date of Award, Start Date, End Date, and Total value. The data includes rows for various companies like ASAP SOFTWARE EXPRESS INC, Microsoft, and Cisco SmartNet.

Contract ID	Contractor Name	Type of Contract	Date of Award	Start Date	End Date	Total value
1.	ASAP SOFTWARE EXPRESS INC DELAWARE INC	Agreement	04/01/2009	04/03/2011		
2.	Microsoft Enterprise Services, Inc.	Agreement	04/01/2009	03/31/2010		
3.	Honeywell Service Data, Inc.	Maintenance	04/01/2009	05/01/2011		
4.	Cisco SmartNet	Agreement	05/01/2009	05/01/2011		
5.	ITS CORPORATION	Time & Materials	12/01/2008	01/09/2011		
6.	ITSCORPORATION INC	Agreement	05/04/2009	05/05/2009	07/30/2009	
7.	GOVCONNECTION INC	Agreement	05/04/2009	05/05/2009	07/30/2009	
8.	BENET INTERNATIONAL CORPORATION	Agreement	01/29/2010	01/29/2010	01/30/2010	

[https://docs.google.com/spreadsheets/d/171GoZt1fF3E1e79gb HAh2ulmq111DscD2_dCtjkNVw/edit?copiedFromTrash#gid=0](https://docs.google.com/spreadsheets/d/171GoZt1fF3E1e79gbHAh2ulmq111DscD2_dCtjkNVw/edit?copiedFromTrash#gid=0)

No-code Data Management with Airtable



Product Blocks Templates Universe Pricing Sign in [Sign up](#)

Create, your way

Part spreadsheet, part database, and entirely flexible, teams use Airtable to organize their work, their way.

Enter your email address

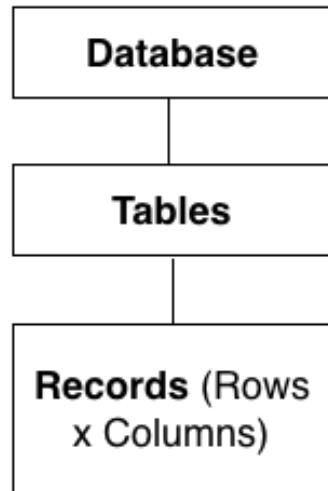
[Get started](#)

Already using Airtable? [Sign in](#)



“A database is a computerised system that makes it easy to search, select and store information..”

Source: BBC Website



“A **database** is made up of a collection of **tables** which relate to each other for storing and managing data entries (**records**), organised by rows and columns.

Tell us a bit about yourself

What will you be using Airtable for?

Select an option ▾

Skip

Continue

14-day pro plan trial ✨

Good news! Your workspace will receive a **14-day free trial** of our **Pro plan**, which includes:

- ✓ Increased record & attachment limits
- ✓ Extended revision & snapshot history
- ✓ Extended functionality with blocks
- ✓ Advanced calendar features
- ✓ Custom branded forms
- ✓ More colors and styling options
- ✓ Personal views

Priority support Not available during trial
And more!





WORKSPACES

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My First Workspace

Pro trial 14 days left

[SHARE](#)

Event Marketing

Digital Content
Calendar

User Studies



Product Launch



Product Planning

Content Marketing
ManagementDigital Video
ProductionDigital Asset
Management

Applicant Tracking



Add a base



WORKSPACES

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Event Marketing

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User Studies



Product Launch



Product Planning

Content Marketing
ManagementDigital Video
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Management

Applicant Tracking



Add a base

Start with a template

Import a spreadsheet

Start from scratch



My First Workspace

Pro trial 14 days left

SHARE**WORKSPACES**

- My First Workspace Trial
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Event Marketing

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Product Launch



Product Planning

LEARNING AND RESOURCES

- Guide to Airtable
- Video tutorials
- Help center
- Ask a question
- Importing
- Understanding views
- Advanced linking
- What's new

Content Marketing
ManagementDigital Video
ProductionDigital Asset
Management

Applicant Trac



CI

+ Add a workspace

Add a base

-
-
- Share
- Duplicate base
- Move base to another workspace
- Slack notifications
- Delete base

Untitled Base

HELP ? 🔔

Table 1 ▾

+ SHARE ⚙ BLOCKS

Grid view Hide fields Filter Group Sort Color



1	2	3	+
1			
2			
3			

Try clicking here to expand this record: you'll see all its cells in a spacious form layout, as well as its revision history and any associated comments.

3 records



Untitled Base

SHARE

Blocks

+ Add a block

Table 1

Grid view Hide fields Filter Group Sort Color ...

Name Id Notes Attachments

1
2
3
+

Blocks give your base superpowers.

Sort Countdown Summary Pivot Table

Add a block

3 records

The image shows the Airtable web application interface. On the left, there's a table named "Table 1" with four rows of data. The columns are labeled "Name", "Id", "Notes", and "Attachments". The first row has values "1", "", "", and "" respectively. The second row has values "2", "", "", and "" respectively. The third row has values "3", "", "", and "" respectively. There are also "Add", "Search", and "More" buttons at the top of the table. Above the table, there are navigation and search tools. On the right, there's a sidebar titled "Blocks" which contains a grid of eight colored icons: orange (with a checkmark), blue (with a document), red (with a speech bubble), cyan (with a clock), purple (with a magnifying glass), yellow (with a globe), and teal (with a hash). Below these icons is the text "Blocks give your base superpowers." and a blue "Add a block" button. At the very bottom of the sidebar, there's a row of smaller, semi-transparent circular icons representing different block types. The overall theme is clean and modern, with a dark header and light-colored content areas.

The Field Types Found in Airtable

- | | | |
|---------------------|---------------------|-------------------|
| 1. Single Line Text | 9. Attachment | 17. Created Time |
| 2. Long Text | 10. Checkbox | 18. Modified Time |
| 3. Date | 11. Multiple Select | 19. Formula |
| 4. Phone Number | 12. Single Select | 20. Autonumber |
| 5. URL | 13. Collaborator | 21. Count |
| 6. Number | 14. Duration | 22. Link |
| 7. Currency | 15. Email | 23. Lookup |
| 8. Percent | | 24. Rollup |
| | | 25. Barcode |

A database can be used for representing and tracking people, things, events. and transactions.

- People (e.g. students, employees, customers, donors, volunteers)
- Things (e.g. properties, stocks, products, books)
- Events (e.g. campaigns, courses, conferences)
- Transactions (e.g. billings, orders, tasks, donations)

Learning from examples.

https://airtable.com/universe

Apps Cyberport Bootcamp Blockchain NLP and Chatbot FinTech E-Commerce Classes Development Tools Data Science Machine Learning Music Drupal Cloud Providers Other Bookmark

Airtable Bases Templates Universe HELP

AIRTABLE UNIVERSE

Explore, discover, and share your passion

Sort by featured

CATEGORIES

- Featured
- Arts and culture
- Community and local interest
- Creative production
- Education
- Entrepreneurship
- Fashion and style
- Food and drink
- Government and politics
- Health and self-improvement
- Journalism and publishing
- Marketing and sales
- Nonprofits and volunteering
- Operations
- Product, design, and UX
- Products and consumer reviews
- Professional
- Real estate
- Science and technology
- Sports and games
- Travel and outdoors

P Publish your own!

Cole Haan Creative Operations

Cole Haan Brand Creative is an in-house, full service agency. Our Creative Operations team manages...

Andrew Coulter Enright

Twilio's Lightweight CMS

Tony Mataya

Britannica's Digital Content Management System

Alison Eldridge

Insomniac Events' Staffing Template

Insomniac Events

Home

To do list

Sort by featured ▾

CATEGORIES

- Featured
- Arts and culture
- Community and local interest
- Creative production
- Education
- Entrepreneurship
- Fashion and style
- Food and drink
- Government and politics
- Health and self-improvement
- Journalism and publishing
- Marketing and sales
- Nonprofits and volunteering
- Operations
- Product, design, and UX

3 results for To do list

To Do List

#PROFESSIONAL

The old days of scribbling To Do notes in a book that find themselves lost in time are over. Never let any task fall by the wayside again with this Tasklist base. As tasks emerge through...

ClarkeHopkinsClarke 3 years ago

SIMPLE To Do List & Task Management

Simple To Do List & Task Managem...

#CREATIVE PRODU... #ENTREPRENEU... #HEALTH AND SELF-IMPRO...

A simple to do list and task management base for all those tasks you need to manage. This base features an overarching to do list, where you can set due dates, priority levels and categories for...

Natalie Hands 7 months ago

The screenshot shows a public shareable link for an Airtable base. The title card features a decorative border with celestial icons like stars and planets. The main title is "SIMPLE To Do List & Task Management". Below the title, it says "Updated 7 months ago" and "Copied 613 times". There are social sharing buttons for Twitter, Facebook, and LinkedIn, along with a "Copy base" button. The base itself has a yellow header with the title and a sidebar on the left containing navigation links: "To Do's", "To Do List", "Organized By Due Date", "Organized By Priority", "Calendar View", and "Completed Tasks". The main table view shows 8 records with the following data:

	Name
1	High priority task 1
2	High priority task 2
3	Medium priority tas
4	Medium priority tas
5	Low priority task 1
6	Low priority task 2
7	Task 1
8	Task 2

A "Explore the base" button is located at the bottom of the sidebar. The footer of the base view indicates "8 records".

All changes saved

To Do List & Task Management

SHARE BLOCKS

To Do's

Organized By Due Date Hide fields Group Sorted by 1 field

Name Completed Prior... Due Date Category

1	High priority task 1		High	3 February 2019	Personal	
2	High priority task 2		High	3 February 2019	Business	
3	Medium priority task 1		Medium	4 February 2019	Wellness	
4	Medium priority task 2		Medium	4 February 2019	Social	
5	Low priority task 1		Low	5 February 2019	Category	
6	Low priority task 2		Low	5 February 2019	Category	
7	Task 1			9 February 2019		
8	Task 2			9 February 2019		
	+					

The screenshot shows a task management application interface with the following elements:

- Header:** "01 To Do List & Task Management" with a checkmark icon.
- Top Right:** HELP, SHARE, BLOCKS, and user profile icons.
- Left Sidebar:** "To Do's" dropdown menu with "Find a view" search bar. Options include:
 - To Do List
 - Organized By Due Date
 - Organized By Priority
 - Calendar View
 - Completed Tasks (selected, indicated by a checkmark)
- Center:** A grid header row with columns: Color, C..., Prior..., Due Date, and Category.
- Bottom Left:** "Add a view:" dropdown with options: Grid, Form, Calendar, Gallery, and Kanban.
- Bottom:** "0 records" message.

- 1. Sort** single or multiple fields.
- 2. Group** entries by a single field or multiple fields to create data segments.
- 3. Filter** entries by single or multiple fields as searching conditions.

Use sort, group, and filter to search for information in a table.

To Do List & Task Management

Organized By Priority

PRIORITY	Count
Low	2
Medium	2
High	4

Low priority tasks:

Name	Priority	Due Date	Category
Low priority task 1	Low	5 February 2019	Category
Low priority task 2	Low	5 February 2019	Category

Medium priority tasks:

Name	Priority	Due Date	Category
Medium priority task 1	Medium	4 February 2019	Wellness
Medium priority task 2	Medium	4 February 2019	Social

Total: 8 records Sum: 105.0

of hours

Number

Format: Decimal (1.0)

Precision: 1.0

Allow negative numbers:

Cancel Save

20.0

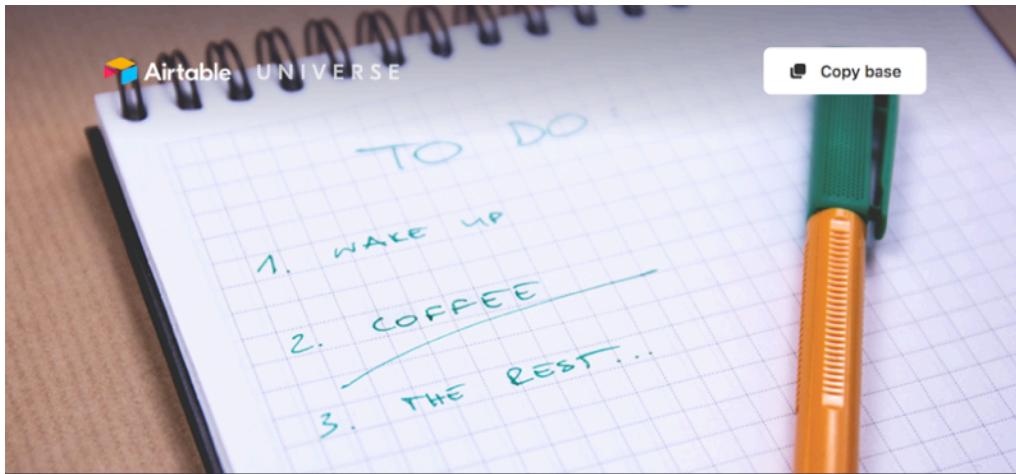
To Do List & Task Management

Organized By Priority

Name	Priority	Due Date	Category	# of hours
Low priority task 1	Low	5 February 2019	Category	10.0
Low priority task 2	Low	5 February 2019	Category	20.0
+				
Medium priority task 1	Medium	4 February 2019	Wellness	15.0
Medium priority task 2	Medium	4 February 2019	Social	20.0
+				

8 records Sum 105.0

Linking Tables



To Do List

#PROFESSIONAL

The old days of scribbling To Do notes in a book that find themselves lost in time are over. Never let any task fall by the wayside again with this

Tasks

- Priority Rated
- By date
- Completed T...
- Kanban by P...

People

Explore the base →

PRIORITY	NAME	COMPLETED
Urgent	1. Urgent task	✓
Urgent	2. Urgent task	✓
Urgent	3. Urgent task	✓
High	4. High priorit	✓
High	5. High priorit	✓
High	6. High priorit	✓

13 records

All changes saved

To Do List

Tasks People +

Priority Rated Hide fields Filter Grouped by 2 fields Sort Color ...

Name C... Date Prior... People involved Comments Attachments

PRIORITY

Urgent Count 4

High Count 3

COMPLETED 3

5 High priority task 1 High

6 High priority task 2 High

7 High priority task 3 High

+

Medium Count 3

COMPLETED 3

8 Medium priority task 1 Medium

14 records

Name	C...	Date	Prior...	People involved	Comments	Attachments
PRIORITY						
Urgent Count 4						
High Count 3						
COMPLETED 3						
5	High priority task 1		High			
6	High priority task 2		High			
7	High priority task 3		High			
+						
Medium Count 3						
COMPLETED 3						
8	Medium priority task 1		Medium			

All changes saved

To Do List

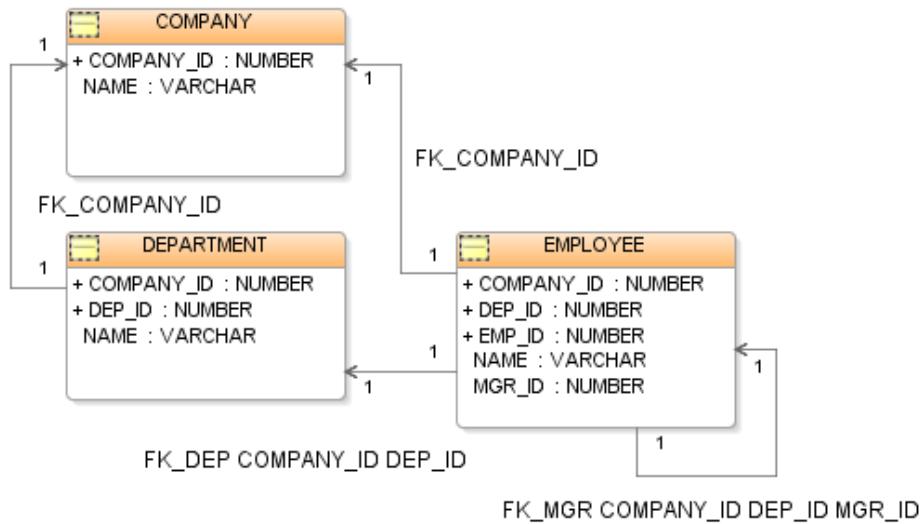
Tasks People +

Main View Hide fields Filter Group Sort Color ...

	Staff	Tasks
1	Amy	
2	Andy	
3	Brad	
4	Clare	
5	Jessica	
6	Rebecca	
+		

Building relationships between tables by using foreign key.

- Every entry in a table should be uniquely defined by a **primary key**.
- Build relationships between tables by making one of the fields in the table as a key linked to the **primary key** of another table.
- The field from the original table is called a **foreign key**.



Source: commons.wikimedia.org

Understanding Views

All changes saved

To Do List

SHARE BLOCKS

Tasks People

Find a view

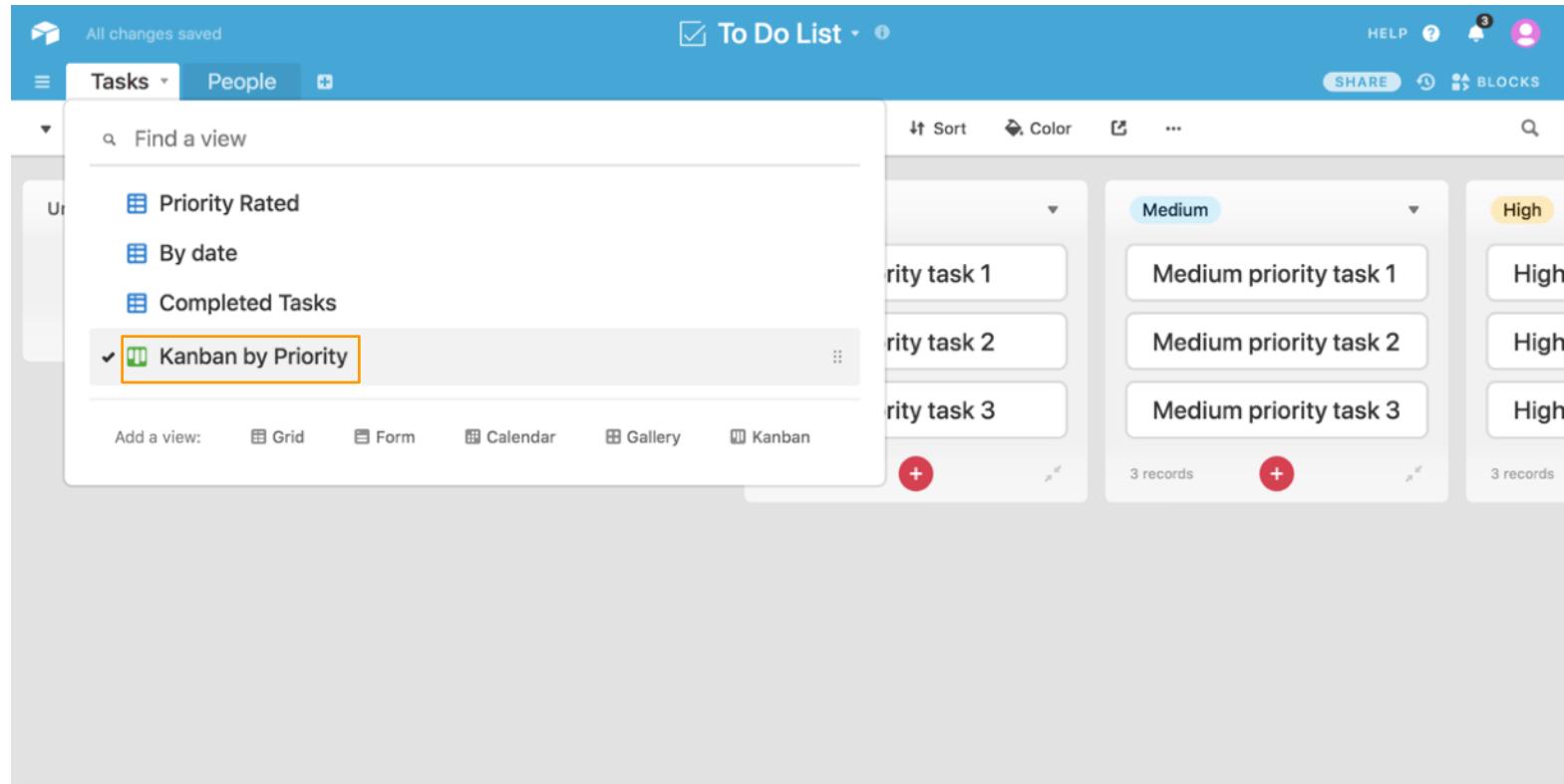
- Priority Rated
- By date
- Completed Tasks
- Kanban by Priority**

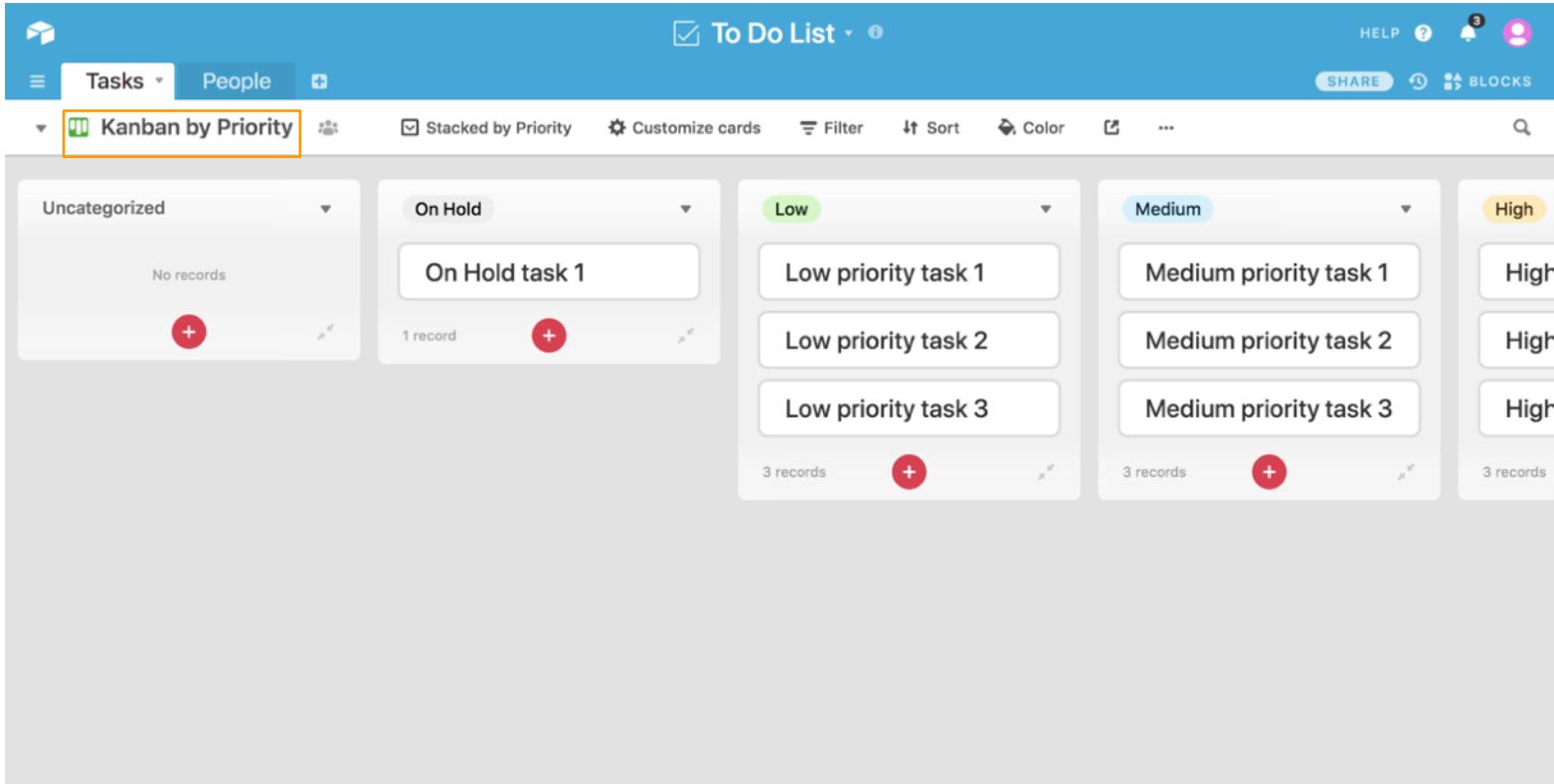
Add a view: Grid Form Calendar Gallery Kanban

Sort Color

Priority	Task Description	Priority
Medium	Priority task 1	High
Medium	Priority task 2	High
Medium	Priority task 3	High
Medium	Medium priority task 1	High
Medium	Medium priority task 2	High
Medium	Medium priority task 3	High

3 records 3 records





To Do List

Tasks People +

Find a view

- Priority Rated
- By date
- Completed Tasks
- Kanban by Priority

Add a view: Grid Form Calendar Gallery Kanban

Form view
Create a shareable form that populates records in your table. Send anyone the form for them to fill out.

Sort Color ...

Priority	Color	Task Description
Priority task 1	Medium	Medium priority task 1
Priority task 2	Medium	Medium priority task 2
Priority task 3	Medium	Medium priority task 3

3 records

SHARE ? BLOCKS

HELP ? 3

Find a view

Priority Rated

By date

Completed Tasks

Kanban by Priority

Add a view: Grid Form Calendar Gallery Kanban

Form view

Create a shareable form that populates records in your table. Send anyone the form for them to fill out.

Sort Color ...

Priority	Color	Task Description
Priority task 1	Medium	Medium priority task 1
Priority task 2	Medium	Medium priority task 2
Priority task 3	Medium	Medium priority task 3

3 records

3 records

 To Do List 1

HELP ?  

SHARE  

Tasks  People 

Form for Entering Tasks  Share form  Open form 

Fields  remove all

Drag and drop fields here to hide

+ Add a field to this table

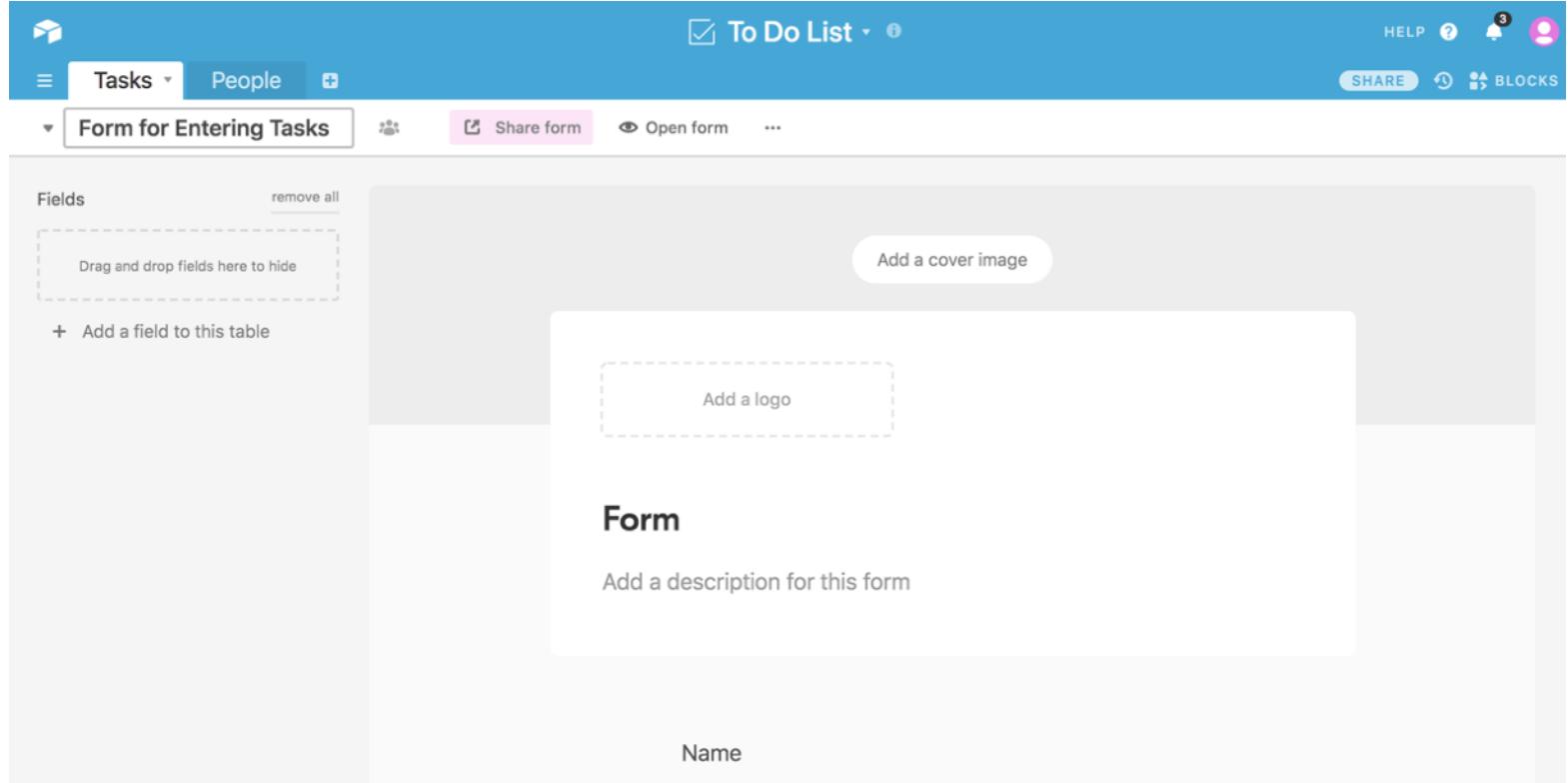
Add a cover image

Add a logo

Form

Add a description for this form

Name



All changes saved

To Do List • 0

HELP 🔎 🔍 3 🔍 🔍 BLOCKS

SHARE

Tasks People +

Form for Entering Tasks 📁 Share form Open form ...

Fields remove all

Drag and drop fields here to hide

+ Add a field to this table

Attachments

Attach file

Drop files here

People involved

+ Add

Submit

This is a screenshot of a 'Form for Entering Tasks' in a digital workspace. The interface has a blue header bar with the title 'To Do List' and a checkmark icon. Below the header is a toolbar with 'Tasks', 'People', and a plus sign. The main area shows a table structure with a single row. The first column is labeled 'Fields' and contains a placeholder 'Drag and drop fields here to hide'. The second column is a large empty table cell. A callout box titled 'Attachments' is overlaid on the table, containing 'Attach file' and 'Drop files here' buttons. Below the attachments section is a 'People involved' section with a '+ Add' button. At the bottom is a large blue 'Submit' button.

All changes saved

To Do List

Tasks People

Form for Entering Tasks

Share form Open form ...

Fields remove all add all

Attachments

Drag and drop fields here to hide

+ Add a field to this table

Completed

People involved

+ Add

Submit

Create your own form with Airtable

 To Do List 3

HELP 🔎 3 BLOCKS

Tasks People +

Form for Entering Tasks Share form Open form ...

Fields remove all add all

Attachments ⋮

Completed ⋮

Drag and drop fields here to hide

Show Airtable branding

Redirect to URL after the form is submitted

+ Add a field to this table

After the form is submitted:

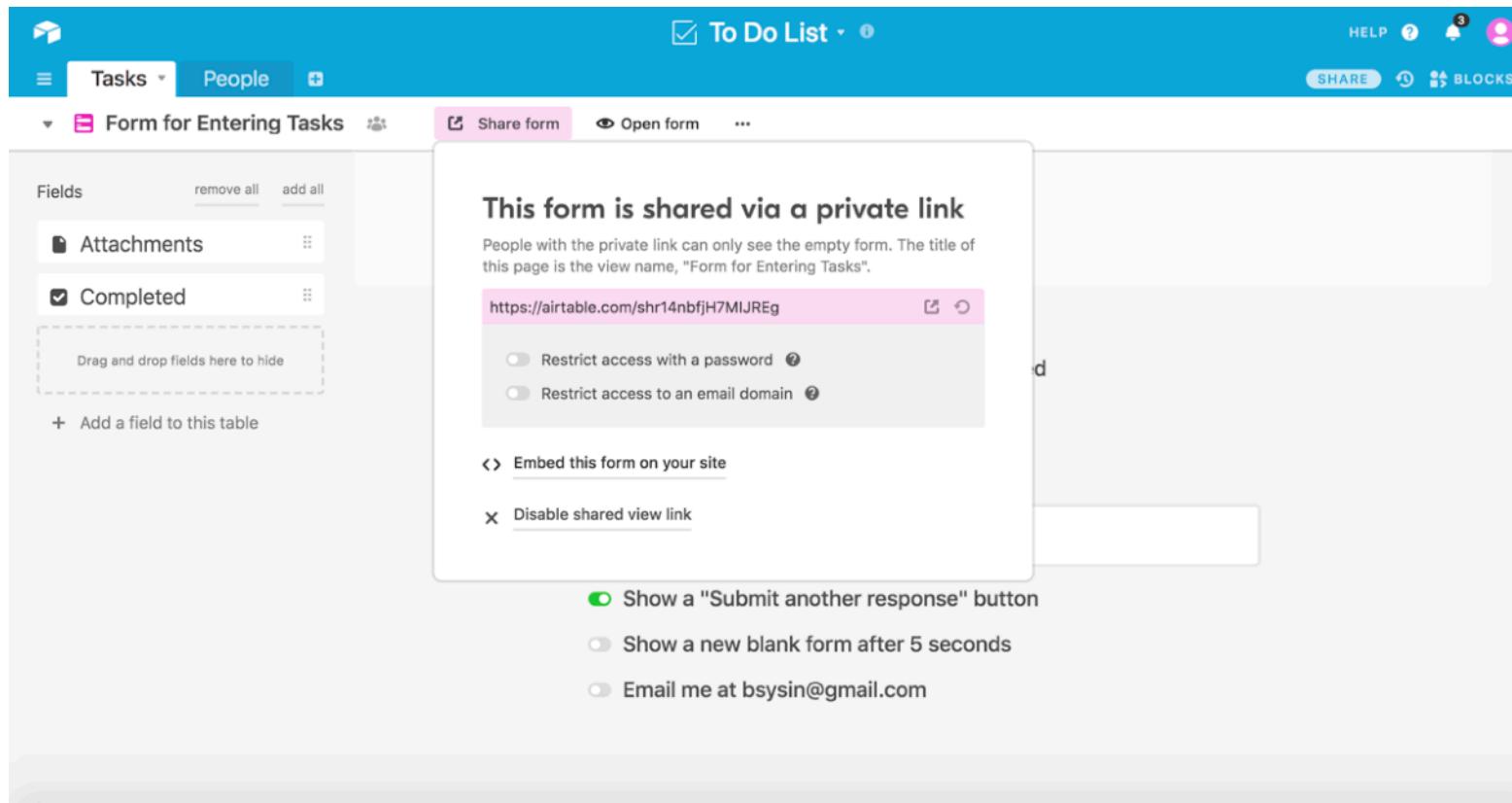
Show this message

Thank you for submitting the form!

Show a "Submit another response" button

Show a new blank form after 5 seconds

Email me at bsysin@gmail.com

A screenshot of the Airtable interface. At the top, there's a blue header bar with the title "To Do List" and a gear icon. Below the header, the navigation bar shows "Tasks" and "People". On the right side of the header, there are "HELP", "SHARE", and "BLOCKS" buttons, along with a user profile icon. The main content area is titled "Form for Entering Tasks". On the left, there's a sidebar for "Fields" with "Attachments" and "Completed" listed. A note says "Drag and drop fields here to hide". Below that is a "+ Add a field to this table" button. The main area contains a pink box with "Share form" and "Open form" buttons. A central box states "This form is shared via a private link" and provides a URL: <https://airtable.com/shr14nbfjH7MIJREg>. It also includes two toggle buttons: "Restrict access with a password" and "Restrict access to an email domain". Below this are three buttons: "Embed this form on your site", "Disable shared view link", and three additional options at the bottom: "Show a 'Submit another response' button" (selected), "Show a new blank form after 5 seconds", and "Email me at bsysin@gmail.com".

Form for Entering Tasks

Comments

Name

Date

Priority

0

[Bases](#)[Templates](#)[Universe](#)[HELP](#)

Templates

Use these starter bases to get a jump start on your project. For inspiration from community-published bases, check out Universe.

 Search templates

CATEGORIES

- Featured
- Content production
- Creative
- Event Planning
- Everyday Life
- Groups, Clubs & Hobbies
- HR & Recruiting

**Content calendar****Digital video production****Project Tracker****Marketing campaign tracking****Product catalog****Product Launch****Product Planning****Bug tracker****Event planning****User research****Simple Applicant Tracker**



Bases

Templates

Universe

HELP ?



Templates

Use these starter bases to get a jump start on your project. For inspiration from community-published bases, check out Universe.



Search templates

CATEGORIES

- Featured
- Content production
- Creative
- Event Planning
- Everyday Life
- Groups, Clubs & Hobbies
- HR & Recruiting
- Legal
- Local Business
- Marketing

Event Planning →



Event planning

Even the most organized and experienced event planner can get overwhelmed by managing events....



Event marketing

Hosting events is one of the best ways to engage customers. Use this template to plan meetups, dinners, webinars, an...



Nonprofit Gala

Venues, schedules, speakers—there's a lot that goes in to pulling off a successful event. This template will he...

Everyday Life →



Restaurant Field Guide

For the foodie, an easy way to organize restaurants and reservations. List the



Pet Medical History

Whether you identify as a cat person, or a dog person, or a guinea pig or snake



Apartment Hunting

Where was that place? How much was it? Did it include parking? Pets? What's

Templates

Use these starter bases to get a jump start on your project. For inspiration from community-published bases, check out Universe.



Search templates

CATEGORIES

- Featured
- Content production
- Creative
- Event Planning
- Everyday Life
- Groups, Clubs & Hobbies
- HR & Recruiting
- Legal
- Local Business
- Marketing

Event planning

[Use template](#)

#EVENT PLANNING

Even the most organized and experienced event planner can get overwhelmed by managing events. Successful event planning requires juggling and coordinating many moving parts at a time—from securing the event locations to planning the budget to finalizing the speaker schedule. Most event management software, however, is too rigid to keep up with the fast-paced world of event management.

This event planning template helps you organize all of those important details in one place so you can ensure that everything runs according to plan, whether you're managing corporate events, large scale events like trade shows or conferences, special events like weddings or small-scale social events like family get-togethers. And by creating different views, everyone on your team, from the event manager to the catering manager to the audio-visual equipment team, can see exactly what matters to them, and ignore the rest.

All changes saved

Event planning

SCHEDULE Event locations Topics & themes Speakers & attendees Event staff Sponsors HELP ? 🔔 3 🚙 BLOCKS

Full schedule Hide fields Filter Group Sorted by 2 fields Color ...

	Activity	Start	End	Notes	Location	Speaker
1	Welcome breakfast	15/11/2019 8:00am	15/11/2019 9:00am		President's dining hall	
2	Opening remarks (Friday)	15/11/2019 9:00am	15/11/2019 9:25am	Katina is subbing in for Russell, because...	Grand ballroom	Katina F
3	Morning keynote (Friday)	15/11/2019 9:30am	15/11/2019 10:15am		Grand ballroom	Matthew
4	Technology in the household	15/11/2019 10:30am	15/11/2019 11:20am		Pearl room	Stephan
5	How to make all your devices play nice	15/11/2019 10:30am	15/11/2019 11:20am	This session will be led by Deepa	Ruby room	Deepa V
6	Building an alert system that works for everyone	15/11/2019 10:30am	15/11/2019 11:20am		Sapphire room	Clara R
7	Workshop for security professionals	15/11/2019 11:30am	15/11/2019 12:00pm		Jade room	Garnet room
8	Workshop for security novices	15/11/2019 11:30am	15/11/2019 12:00pm		Emerald room	
9	Lunch (Friday)	15/11/2019 12:15pm	15/11/2019 1:30pm	We'll have vegetarian and pescatarian f...	President's dining hall	
10	Security for all ages — babies, grandparents, and more!	15/11/2019 1:30pm	15/11/2019 2:20pm	Belinda's going to need a projector for ...	Jade room	Garnet room
11	Which security solution is best for you?	15/11/2019 1:30pm	15/11/2019 2:20pm		Emerald room	Stephan
12	Breakout session (Friday)	15/11/2019 2:30pm	15/11/2019 3:20pm	Make sure that post-its are available for...	Sapphire room	
13	Breakout presentation (Friday)	15/11/2019 3:30pm	15/11/2019 3:55pm		Ruby room	
14	Afternoon keynote (Friday)	15/11/2019 4:00pm	15/11/2019 4:50pm		Grand ballroom	Stephan
15	Closing remarks (Friday)	15/11/2019 5:00pm	15/11/2019 5:30pm		Grand ballroom	Katina F

29 records

Event planning

Schedule Event locations Topics & themes Speakers & attendees Event staff Sponsors [SHARE](#) [BLOCKS](#)

Find a view

✓ **Full schedule**

- Calendar**
- Friday schedule (11/15)**
- Saturday schedule (11/16)**

Add a view: Grid Form Calendar Gallery Kanban

	Color	Notes	Location	Speaker	
1			President's dining hall		
2		Katina is subbing in for Russell, because...	Grand ballroom	Katina F...	
3			Grand ballroom	Matthew...	
4			Pearl room	Stephan...	
5		This session will be led by Deepa	Ruby room	Deepa V...	
6			Sapphire room	Clara Ro...	
7			Jade room	Garnet roo...	
8	Workshop for security novices	15/11/2019 11:30am	15/11/2019 12:00pm	Emerald room	
9	Lunch (Friday)	15/11/2019 12:15pm	15/11/2019 1:30pm	We'll have vegetarian and pescatarian f...	President's dining hall
10	Security for all ages — babies, grandparents, and more!	15/11/2019 1:30pm	15/11/2019 2:20pm	Belinda's going to need a projector for ...	Jade room
11	Which security solution is best for you?	15/11/2019 1:30pm	15/11/2019 2:20pm		Emerald room
12	Breakout session (Friday)	15/11/2019 2:30pm	15/11/2019 3:20pm	Make sure that post-its are available for...	Sapphire room
13	Breakout presentation (Friday)	15/11/2019 3:30pm	15/11/2019 3:55pm		Ruby room
14	Afternoon keynote (Friday)	15/11/2019 4:00pm	15/11/2019 4:50pm		Grand ballroom
15	Closing remarks (Friday)	15/11/2019 5:00pm	15/11/2019 5:30pm		Katina F...

 03 Event planning

Schedule Event locations Topics & themes Speakers & attendees Event staff Sponsors [SHARE](#) [BLOCKS](#)

Calendar Using "Start" field Filter Sort Color ...

Today < > November 2019 Month 2 week Week 3 day Day Find a record All records

Mon	Tue	Wed	Thu	Fri	Sat	Sun
28	29	30	31	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15 8 Welcome break... +15 more	16 8 Breakfast +12 more	17
18	19	20	21	22	23	24
25	26	27	28	29	30	1

Welcome breakfast Nov 15 8:00am

Opening remarks (Friday) Nov 15 9:00am

Morning keynote (Friday) Nov 15 9:30am

Technology in the house... Nov 15 10:30am

How to make all your devi... Nov 15 10:30am

Building an alert system th... Nov 15 10:30am +

Workshop for security pro...

	Space name	Building location	Photo(s)	Description	Max capacity	Scheduled events
1	President's dining hall	28 Conference Hall Lane		Dining hall for meals and a large open space for mingling / general events	350	Happy hour & networking Lunch (Saturday) Welcome breakfast
2	Grand ballroom	20 Organization Way		Large ballroom that can seat up to 1000 people at max capacity; contains a large stage with professional audio and lighting set up	1000	Closing remarks (Saturday) Morning keynote (Saturday) Opening remarks (Saturday) Afternoon keynote (Friday) Morning keynote (Friday)
3	Pearl room	25 Conference Hall Lane		Conference room that can hold up to 250 people	250	The successes of home security technology Technology trends in the future
4	Ruby room	25 Conference Hall Lane		Conference room that can hold up to 100 people	100	Breakout presentation (Saturday) Breakout presentation (Sunday) Building a safer community How to make all your dreams come true
5	Sapphire room	25 Conference Hall Lane		Conference room that can hold up to 150 people	150	Breakout session (Saturday) Breakout session (Sunday) Building an alert system that works for everyone
6	Emerald room	12 Organization Way		Conference room with open air patio	400	Best practices for IoT protocols Which security solution is best
8 records						Sum 2950

Event planning

Schedule Event locations Topics & themes Speakers & attendees Event staff Sponsors

Find a view

- All spaces
- Spaces per building
- Location gallery

Add a view: Grid Form Calendar Gallery Kanban

Location gallery

Room	BUILDING LOCATION	MAX CAPACITY
Sapphire room	25 Conference Hall Lane	150
Emerald room	12 Organization Way	400
Garnet room	12 Organization Way	500
Ruby room	25 Conference Hall Lane	100
Jade room	12 Organization Way	200

+ Add location

03 Event planning

Schedule Event locations Topics & themes Speakers & attendees Event staff Sponsors SHARE BLOCKS

Location gallery Customize cards Filter Sort Color ...

President's dining hall	Grand ballroom	Pearl room	Ruby room
A BUILDING LOCATION 28 Conference Hall Lane MAX CAPACITY 350	A BUILDING LOCATION 20 Organization Way MAX CAPACITY 1000	A BUILDING LOCATION 25 Conference Hall Lane MAX CAPACITY 250	A BUILDING LOCATION 25 Conference Hall Lane MAX CAPACITY 100
			
Sapphire room	Emerald room	Garnet room	Jade room
A BUILDING LOCATION 25 Conference Hall Lane MAX CAPACITY 150	A BUILDING LOCATION 12 Organization Way MAX CAPACITY 400	A BUILDING LOCATION 12 Organization Way MAX CAPACITY 500	A BUILDING LOCATION 12 Organization Way MAX CAPACITY 200

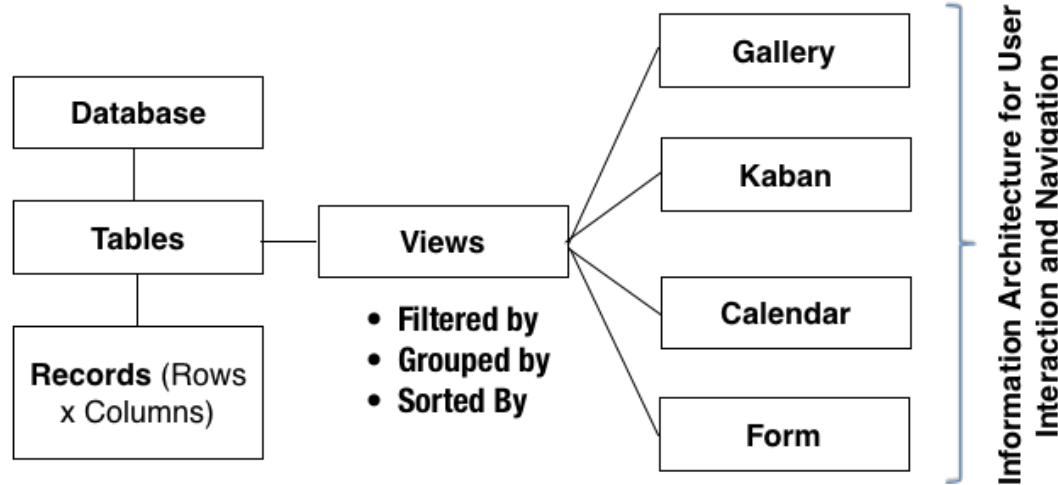
+

- 1. Sort** single or multiple fields.
- 2. Group** entries by a single field or multiple fields to create data segments.
- 3. Filter** entries by single or multiple fields as searching conditions.

Use sort, group, and filter to search for information in a table.

- 1. Grid**
- 2. Kanban**
- 3. Calendar**
- 4. Gallery**
- 5. Form**

Use views to present and capture data in a variety of way to suit different needs.



Advanced Fields

Formula Field

A formula field in Airtable is almost like a formula field in Excel but more restrictive. It can only be applied to the values in the same record (i.e. row).

Event planning

Budget

Item

Estimated Actual Quantity Total cost Total budget Under budget Notes

UNDER BUDGET

Count 5 Sum \$26,550.00 Sum \$26,551.50 Sum 17 Sum \$33,976.50 Sum \$35,000.00

1 Venue rental \$17,000.00 \$16,899.00 1 \$16,899.00 \$17,500.00 ✓

2 Labor (set up, during conference, take down) \$3,500.00 \$3,890.00 1 \$3,890.00 \$4,000.00 ✓

Food \$4,800.00 \$4,675.00 2 \$9,350.00 \$9,500.00 ✓

Speaker honoraria \$250.00 \$250.00 12 \$3,000.00 \$3,000.00 ✓

Miscellaneous supplies \$1,000.00 \$837.50 1 \$837.50 \$1,000.00 ✓

OVER BUDGET

Count 2 Sum \$20.25 Sum \$17.73 Sum 1500 Sum \$9,030.00 Sum \$8,800.00

6 Printed programs \$0.25 \$0.33 1000 \$330.00 \$300.00 ✗

Printing ended up being slightly more than anticipated due to our usage of color.

7 records Sum \$26,570.25 Sum \$26,569.23 Sum 1517 Sum \$43,006.50 Sum \$43,800.00

Event planning

BUDGET

Item	Estimated	Actual	Quantity	Total cost	Total budget	Under budget	Notes
UNDER BUDGET							
✓ Venue rental	\$17,000.00	\$16,899.00	1				
Labor (set up, during conference, take down)	\$3,500.00	\$3,890.00	1				
Food	\$4,800.00	\$4,675.00	2				
Speaker honoraria	\$250.00	\$250.00	12				
Miscellaneous supplies	\$1,000.00	\$837.50	1				
OVER BUDGET							
Printed programs	\$0.25	\$0.33	1000	\$330.00	\$300.00	✗	Printing ended up being slightly more than anticipated due to our usage of color.
7 records	Sum \$26,570.25	Sum \$26,569.23	Sum 1517	Sum \$43,006.50	Sum \$43,800.00		

Total cost

Formula

Compute a value in each record based on other fields in the same record. For more information on formulas and a complete function reference, see the [Formula Field Reference](#).

Formula Formatting

Actual * Quantity

Cancel Save

Event planning

Budget

Item	Estimated	Actual	Quantity	Total cost	Total budget	Under budget	Notes
UNDER BUDGET							
1 Venue rental	\$17,000.00	\$16,899.00	1	\$16,899.00	\$17,500.00		
2 Labor (set up, during conference, take down)	\$3,500.00	\$3,890.00	1	\$3,890.00	\$4,000.00		
3 Food	\$4,800.00	\$4,675.00	2	\$9,350.00	\$9,500.00		
4 Speaker honoraria	\$250.00	\$250.00	12	\$3,000.00	\$3,000.00		
5 Miscellaneous supplies	\$1,000.00	\$837.50	1	\$837.50	\$1,000.00		
OVER BUDGET							
6 Printed programs	\$0.25	\$0.33	1000	\$330.00	\$300.00	✗	Printing ended up being slightly more expensive than anticipated due to our usage of color.
7 records	Sum \$26,570.25	Sum \$26,569.23	Sum 1517	Sum \$43,006.50	Sum \$43,800.00		

Under budget

Formula

Compute a value in each record based on other fields in the same record. For more information on formulas and a complete function reference, see the [Formula Field Reference](#).

Formula **Formatting**

```
IF({Total cost} <= {Total budget},  
"✓","✗")
```

Cancel **Save**

Lookup Field

A lookup field is a foreign key field for looking up another field value through the linked table's primary key.

Event planning

Schedule Event locations Topics & themes Speakers & attendees Event staff Sponsors

All topics & themes

Topic / theme	Count
Welcome to HomeTech 2019!	1
How technology will shape home security	2
Building products for families	3
Home automation	4
Security smart hubs	5
Types of home security	6

Field 4

Venue

Find a field type

- Duration
- Rating
- Formula
- Rollup
- Count
- Lookup

Lookup

Lookup a field on linked records.

Cancel Save

Event planning

Schedule Event locations Topics & themes Speakers & attendees Event staff Sponsors

All topics & themes Hide fields Filter Group Sort Color ...

	Topic / theme	Count
1	Welcome to HomeTech 2019!	1
2	How technology will shape home security	2
3	Building products for families	3
4	Home automation	3
5	Security smart hubs	1
6	Types of home security	1

A Field 4

Venue

Lookup

Lookup a field on linked records.

Configuration Formatting

Field on this table that links to the records you want to look up

Relevant event(s)

Find a field

Relevant event(s)

Cancel Save

Topic / theme

it(s)

Topic / theme

(Friday)

Topic / theme

(Saturday) Morning keynote (Friday)

Topic / theme

SecurTech Security for all ages — babies, grandparents, and more!

Topic / theme

IoT protocols Afternoon keynote (Friday)

Topic / theme

system that works for everyone

Topic / theme

solution is best for you?

Event planning

Schedule Event locations Topics & themes Speakers & attendees Event staff Sponsors

All topics & themes Hide fields Filter Group Sort Color ...

	Topic / theme	Count	Field 4
1	Welcome to HomeTech 2019!	1	
2	How technology will shape home security	2	
3	Building products for families	3	
4	Home automation	3	
5	Security smart hubs	1	
6	Types of home security	1	

Venue

Find a field

A Activity

Start

Type

Speaker(s)

Topic / theme

Location

Choose a field

Cancel Save

Event planning

Schedule Event locations Topics & themes Speakers & attendees Event staff Sponsors

All topics & themes Hide fields Filter Group Sort Color ...

	Topic / theme	Count	Field 4
1	Welcome to HomeTech 2019!	1	Venue
2	How technology will shape home security	2	Lookup
3	Building products for families	3	Field on this table that links to the records you want to look up
4	Home automation	3	Relevant event(s)
5	Security smart hubs	1	Schedule table field that you'd like to look up
	Types of home security	1	Location

Venue

Lookup

Lookup a field on linked records.

Configuration Formatting

Field on this table that links to the records you want to look up

Relevant event(s)

Schedule table field that you'd like to look up

Location

Cancel Save

All changes saved

Event planning

SCHEDULE | EVENT LOCATIONS | TOPICS & THEMES | SPEAKERS & ATTENDEES | EVENT STAFF | SPONSORS | BIDS | + | SHARE | @ | BLOCKS

All topics & themes

Hide fields | Filter | Group | Sort | Color | Count | Venue | + | ...

Topic / theme	Relevant event(s)	Count	Venue
Welcome to HomeTech 2019!	Opening remarks (Friday)	1	Grand ballroom
How technology will shape home security	Afternoon keynote (Saturday) Morning keynote (Friday)	2	Grand ballroom Grand ballroom
Building products for families	Case study: Home SecurTech Security for all ages — babies, grandparents, and more! Technology in the household	3	Jade room Garnet room Jade room
Home automation	Best practices for IoT protocols Afternoon keynote (Friday) How to make all your devices play nice	3	Emerald room Grand ballroom Ruby room
Security smart hubs	Building an alert system that works for everyone	1	Sapphire room
Field updated UNDO	Which security solution is best for you?	1	Emerald room

Rollup Field

A rollup field is like a supercharged lookup field which can perform aggregated functions on the looked up values.

Event planning

Schedule Event locations Topics & themes Speakers & attendees Event staff Sponsors

Main View 2 hidden fields Filter Group Sort Color Notes

	Company	Amount	Previous sponsor	Notes
1	SimplySafe			
2	Wintel Corp	\$1,500.00		
3	Families for a Safer Home	\$4,000.00	♥	Sponsored last year and committed more resources and \$\$\$ for this year's conference
4	National Association of Neighborhood Associations	\$2,500.00	♥	
5	E-Z Safe-T	\$2,000.00		
6	PorchCam	\$7,500.00	♥	Primary organizer of the conference
7	Home SecurTech	\$5,000.00	♥	
8	Playpen.io	\$1,000.00		
9	Absolute Electric	\$1,000.00		Heard about us from our press coverage last week

of Contacts

Find a field type

% Percent

⌚ Duration

★ Rating

ƒ Formula

🕒 Rollup

≡ Count

Rollup
A rollup allows you to summarize data from records that are linked to this table.

Cancel Save

Event planning

Schedule Event locations Topics & themes Speakers & attendees Event staff Sponsors

Main View 2 hidden fields Filter Group Sort Color Notes

	Company	Amount	Previous sponsor	Notes
1	SimplySafe			
2	Wintel Corp	\$1,500.00		
3	Families for a Safer Home	\$4,000.00	♥	Sponsored last year and committed more resources and \$\$\$ for this year's conference
4	National Association of Neighborhood Associations	\$2,500.00	♥	
5	E-Z Safe-T	\$2,000.00		
6	PorchCam	\$7,500.00	♥	Primary organization that's organizing this conference
7	Home SecurTech	\$5,000.00	♥	
8	Playpen.io	\$1,000.00		
9	Absolute Electric	\$1,000.00		Heard about us from our press coverage last

of Contacts

Rollup

A rollup allows you to summarize data from records that are linked to this table. For more information on rollups and a complete function reference, see the Rollup Field Reference.

Rollup Formatting

Field on this table that links to the records you want to summarize

Contact(s)

Cancel Save

Event planning

Schedule Event locations Topics & themes Speakers & attendees Event staff Sponsors

Main View 2 hidden fields Filter Group Sort Color ...

	A Company	d amount	Previous sponsor	Notes
1	SimplySafe			
2	Wintel Corp	\$1,500.00		
3	Families for a Safer Home	\$4,000.00	♥	Sponsored last year and committed more resources and \$\$\$ for this year's conference
4	National Association of Neighborhood Associations	\$2,500.00	♥	
5	E-Z Safe-T	\$2,000.00		
6	PorchCam	\$7,500.00	♥	Primary organization that's organizing this conference
7	Home SecurTech	\$5,000.00	♥	
8	Playpen.io	\$1,000.00		
9	Absolute Electric	\$1,000.00		Heard about us from our press coverage last

of Contacts
Find a field
A Name
Speaking at
A Role
Email
Type
Status
Choose a field

Cancel Save

Event planning

Main View | 2 hidden fields | Filter | Group | Sort | Color | ... | # of Contacts | + | # of Contacts | Rollup | # of Contacts | Rollup | # of Contacts | COUNTA(values) | COUNTA(values) | COUNTA(values)

Company	Amount	Previous sponsor	Notes	# of Contacts
SimplySafe				
Wintel Corp	\$1,500.00			
Families for a Safer Home	\$4,000.00	♥	Sponsored last year and committed more resources and \$\$\$ for this year's conference	
National Association of Neighborhood Associations	\$2,500.00	♥		
E-Z Safe-T	\$2,000.00			
PorchCam	\$7,500.00	♥	Primary organization that's organizing this conference	
Home SecurTech	\$5,000.00	♥		
Playpen.io	\$1,000.00			
Absolute Electric	\$1,000.00		Heard about us from our press coverage last	

of Contacts

A rollup allows you to summarize data from records that are linked to this table. For more information on rollups and a complete function reference, see the Rollup Field Reference.

Rollup

Field on this table that links to the records you want to summarize

Contact(s)

Enter an aggregation function which rolls up the values in each linked record

COUNTA(values)

Counts the number of non-empty values. This function counts both numeric and text values

INSERT A ROLLUP FUNCTION

COUNTA(values)

Event planning

Schedule Event locations Topics & themes Speakers & attendees Event staff Sponsors

Main View 2 hidden fields Filter Group Sort Color ...

	Company	Amount	Previous sponsor	Notes	# of Contacts	
1	SimplySafe				0	
2	Wintel Corp	\$1,500.00			3	
3	Families for a Safer Home	\$4,000.00	♥	Sponsored last year and committed more resources and \$\$\$ for this year's conference	3	
4	National Association of Neighborhood Associations	\$2,500.00	♥		2	
5	E-Z Safe-T	\$2,000.00			3	
6	PorchCam	\$7,500.00	♥	Primary organization that's organizing this conference	2	
7	Home SecurTech	\$5,000.00	♥		3	
8	Playpen.io	\$1,000.00			2	
9	Absolute Electric	\$1,000.00		Heard about us from our press coverage last year	2	

 Event planning

HELP ? 🔔 3 🚙

Schedule Event locations Topics & themes Speakers & attendees Event staff Sponsors Block + SHARE ⏱ BLOCKS

Grouped by company 3 hidden fields Filter Grouped by 1 field Sorted by 1 field Color ...

Name Role Email Phone Type Speaker ... Attendee ... +

+ COMPANY Wintel Corp Count 3

					Sum 1	Sum 2
18	Gabriella Lily	Team manager	gabriella@email.com	(123) 456-7890	Speaker	1 0
19	Kelly Sall	Product	kelly@email.com	(123) 456-7890	Attendee	0 1
20	Leslie Walker	Marketing associate	leslie@email.com	(123) 456-7890	Attendee	0 1

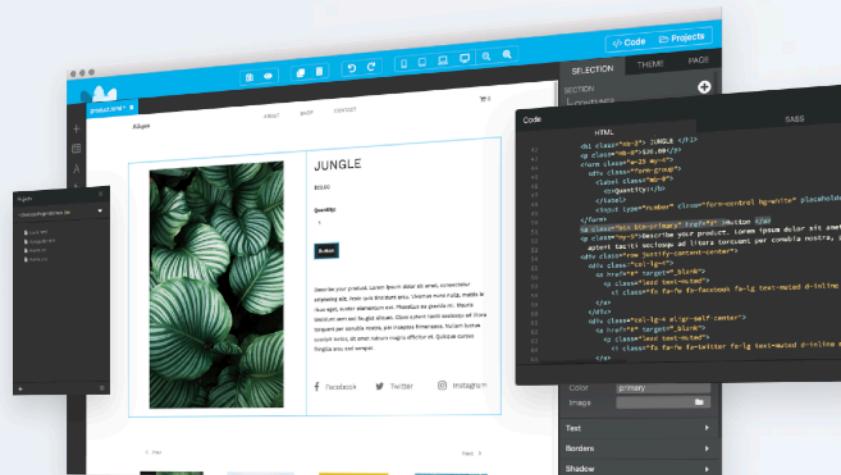
+ COMPANY Wintel Corp Count 3

No-code Web Publishing with Pingendo

Pingendo Bootstrap 4 builder

Design, build and deploy web pages in a flow.

Pingendo is a modern tool for designers, developers and web agencies. Intuitive as stacking blocks, powerful as a text editor.

[Download it for free](#)

Free Bootstrap Templates



Bootstrap themes, templates, and more to help you start your next project!

Start Bootstrap creates free, open source, MIT license, Bootstrap [themes](#), [templates](#), and [code snippets](#) for you to use on any project, [guides](#) to help you learn more about designing and developing with the Bootstrap framework, and premium Bootstrap products.



<https://startbootstrap.com/>

Bootstrap

Build responsive, mobile-first projects on the web with the world's most popular front-end component library.

Bootstrap is an open source toolkit for developing with HTML, CSS, and JS. Quickly prototype your ideas or build your entire app with our Sass variables and mixins, responsive grid system, extensive prebuilt components, and powerful plugins built on jQuery.

[Get started](#)[Download](#)

Currently v4.3.1

2



<https://getbootstrap.com/>

[Getting started](#)[Layout](#)[Overview](#)[Grid](#)[Utilities for layout](#)[Content](#)[Components](#)[Utilities](#)[Extend](#)

Overview

Components and options for laying out your Bootstrap project, including wrapping containers, a powerful grid system, a flexible media object, and responsive utility classes.

Containers

Containers are the most basic layout element in Bootstrap and are **required when using our default grid system**. Choose from a responsive, fixed-width container (meaning its `max-width` changes at each breakpoint) or fluid-width (meaning it's `100%` wide all the time).

[Getting started](#)[Layout](#)[Overview](#)[Grid](#)[Utilities for layout](#)[Content](#)[Components](#)[Utilities](#)[Extend](#)

Grid system

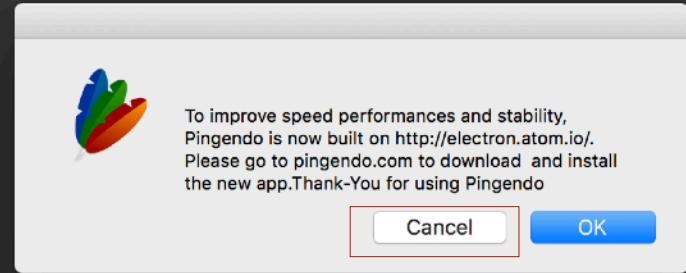
Use our powerful mobile-first flexbox grid to build layouts of all shapes and sizes thanks to a twelve column system, five default responsive tiers, Sass variables and mixins, and dozens of predefined classes.

How it works

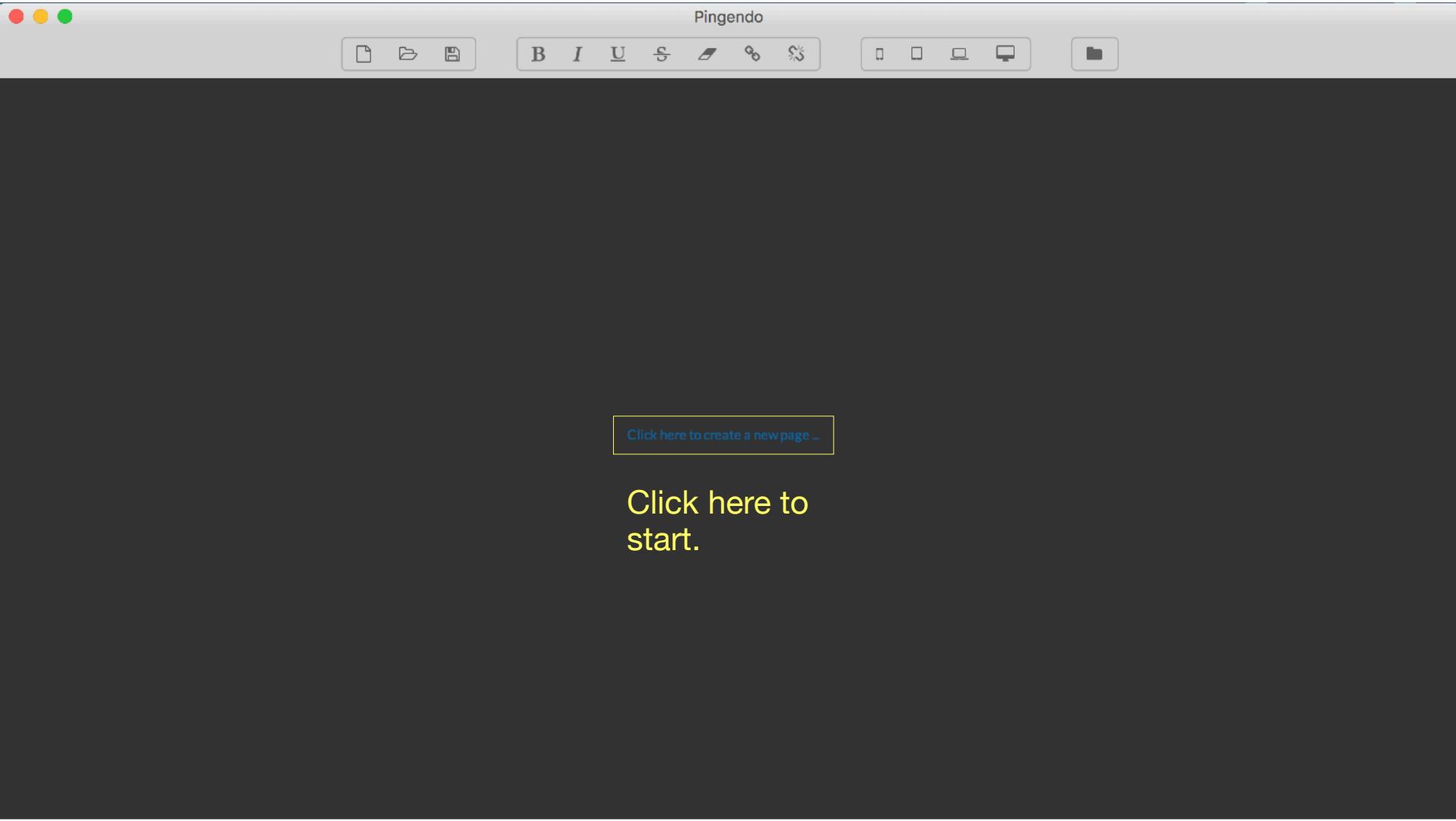
Bootstrap's grid system uses a series of containers, rows, and columns to layout and align content. It's built with [flexbox](#) and is fully responsive.

Window: <https://pingendo.software.informer.com/2.0/>

Mac: [https://macdownload.informer.com/pingendo/
download/#downloading](https://macdownload.informer.com/pingendo/download/#downloading)



Pingendo
Click “Cancel” instead.
Otherwise downloading
the new version will
cause your old version
to be overwritten.



[Click here to create a new page ...](#)

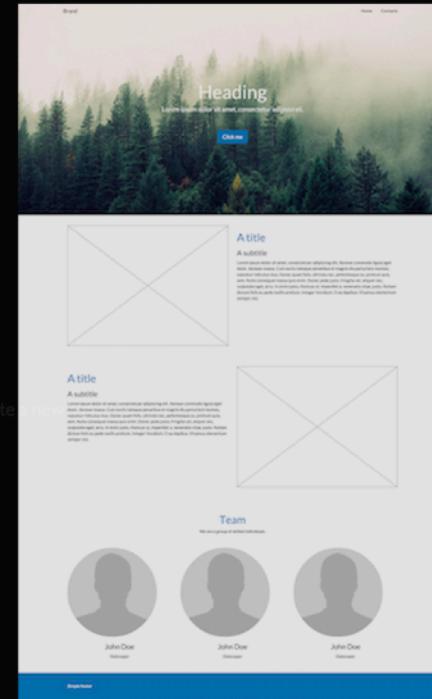
Click here to
start.



Pingendo



Default empty page



Landing page

Pingendo



B I U S



SECTIONS

COMPONENTS

Untitled.html*

PAGE

SELECTION

HEADERS



CONTENTS



FOOTERS



FORMS

BODY

ATTRIBUTES

ID

CLASS

BOOTSTRAP

SCROLL

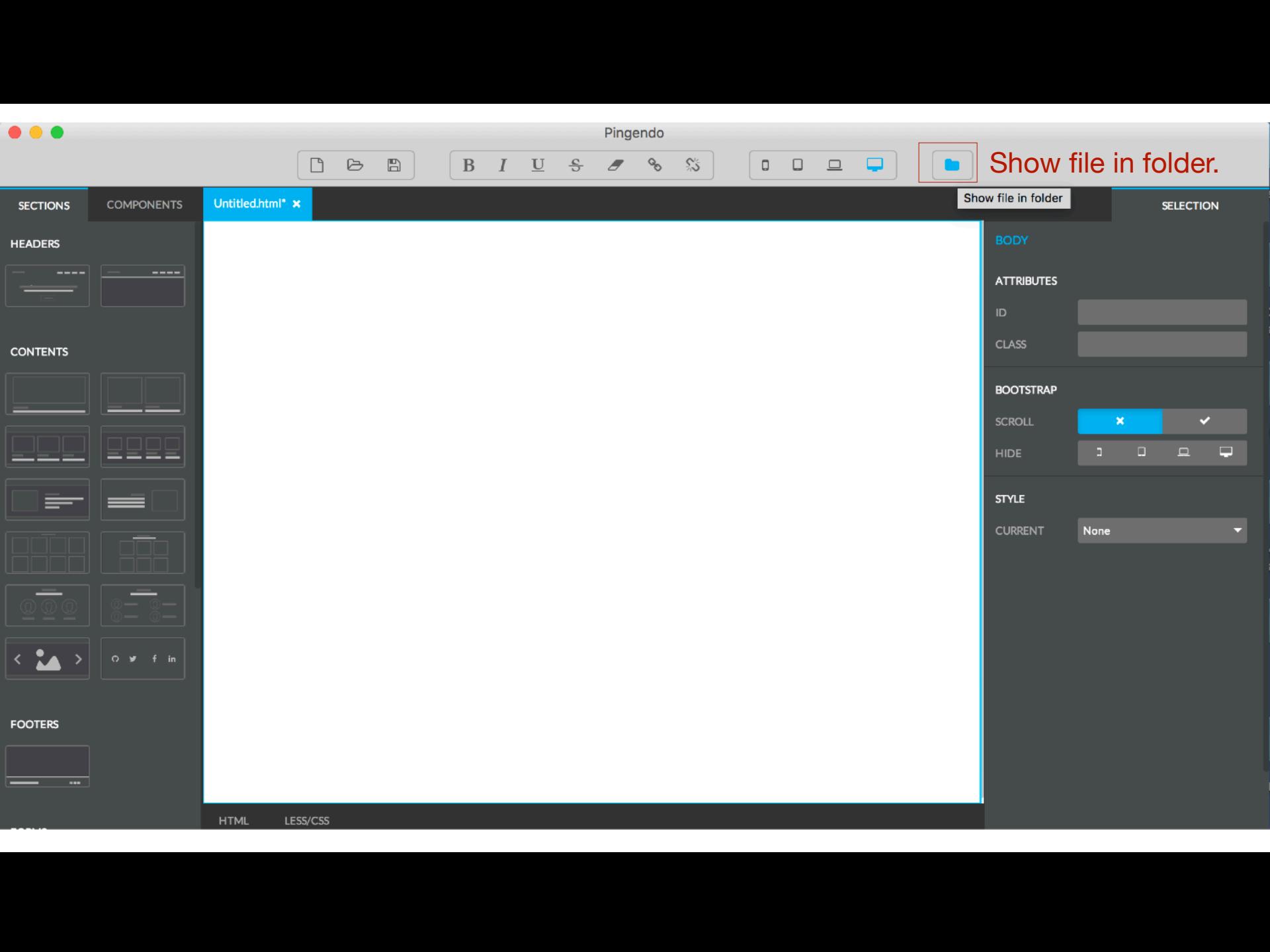
HIDE

STYLE

CURRENT

HTML LESS/CSS

Setup Working Folder



Pingendo

Save As: Untitled.html

Tags:

Desktop Search

Favorites

- ▶ iCloud Drive
- ▶ Applications
- ▶ Documents
- ▶ Pictures
- ▶ Movies
- ▶ git_home
- ▶ pyprojects
- ▶ Downloads
- ▶ Desktop
- ▶ htdocs

Name

- ▶ New Courses
- ▶ ML Medium Articles
- ▶ Lib Workshop
- ▶ Inv 2018-19
- ▶ Integrated Campaign Communication - Updated.pdf
- ▶ Intech 2019
- ▶ Final Report Draft(1).docx
- ▶ EDB STEAM Ed
- ▶ demo Bootstrap
- ▶ DDD
- ▶ Data Science Readings
- ▶ com5961 Student Images
- ▶ COM5940 Keynotes
- ▶ BU Courses

Hide extension

Default

Primary

Info

Choose

Lato

Lato

Choose

NARROW

ROUNDNESS

SECTIONS

COMPONENTS

Untitled.

HEADERS

CONTENTS

FOOTERS

FORMS

HTML LESS/CSS

PAGE

DESCRIPTION

KEYWORDS

VICON

EME

LORS

TYPOGRAPHY

NARROW

ROUNDNESS

Create a new folder.

Pingendo

Save As: Untitled.html

Tags:

Desktop

New Folder

Name of new folder: demo

Cancel Create

Intech 2019

- Final Report Draft(1).docx
- EDB STEAM Ed
- demo Bootstrap
- DDD
- Data Science Readings
- com5961 Student Images
- COM5940 Keynotes

Hide extension New Folder Cancel Save

Default Primary Info Choose

Lato Lato Choose

NARROW x ✓

ROUNDNESS 4px

SECTIONS COMPONENTS Untitled.

HEADERS

CONTENTS

FOOTERS

FORMS

HTML LESS/CSS

PAGE

DESCRIPTION

KEYWORDS

ICON

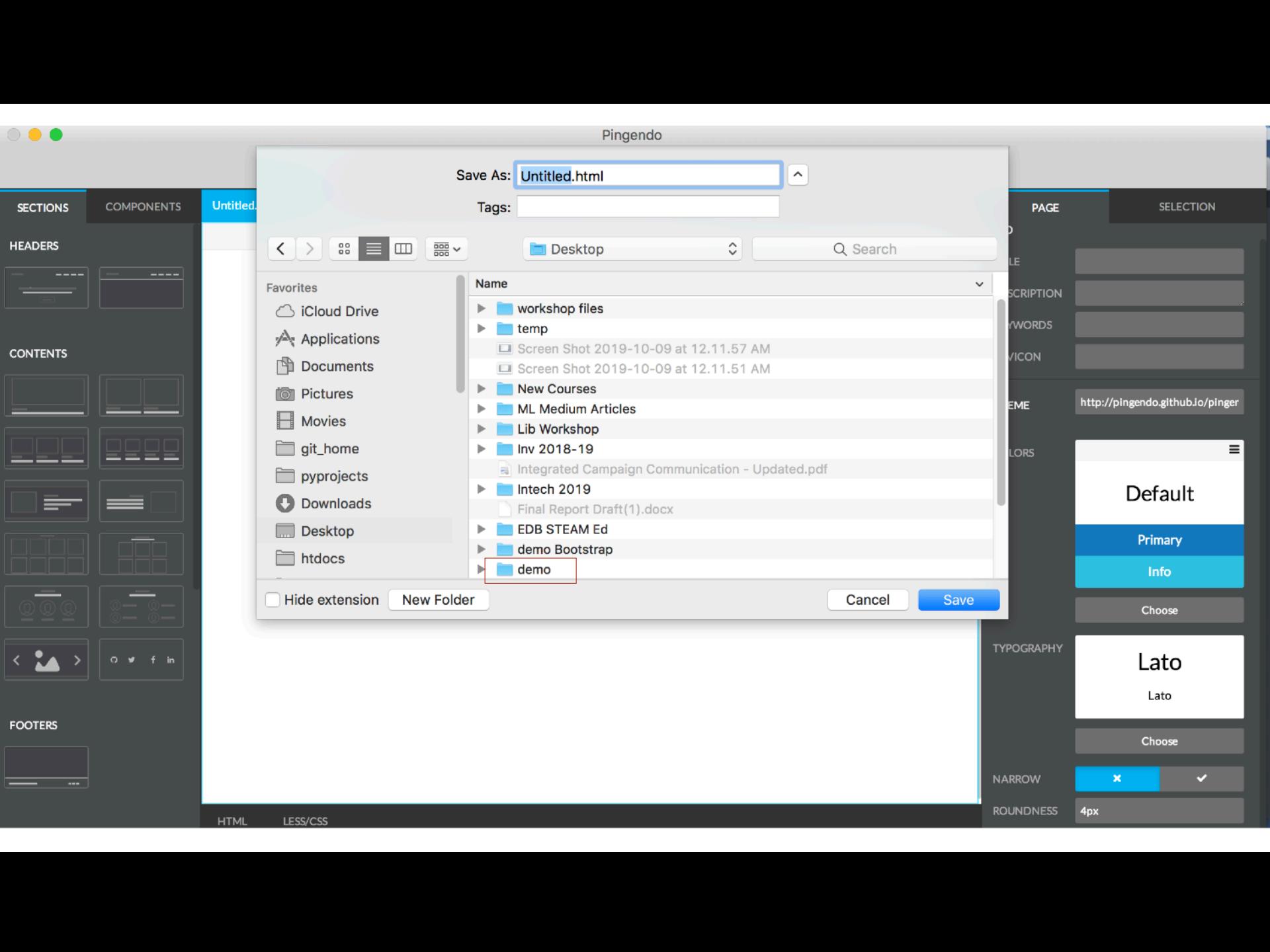
HEME

LORS

TYPOGRAPHY

NARROW

ROUNDNESS



Setup Navigation Bar

Pingendo

Untitled.html* x

SECTIONS

HEADERS

Navigation bar

CONTENTS

FOOTERS

FORMS

B I U S E F \$

PAGE

SELECTION

BODY

ATTRIBUTES

ID

CLASS

BOOTSTRAP

SCROLL

HIDE

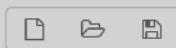
STYLE

CURRENT None

Pick and drag navigation bar component to layout workspace.

HTML LESS/CSS

The image shows the Pingendo user interface. On the left, there's a sidebar with categories: SECTIONS, HEADERS, CONTENTS, FOOTERS, and FORMS. Under HEADERS, a 'Navigation bar' component is selected and highlighted with a yellow border. The main workspace is titled 'Untitled.html*' and contains the text 'Pick and drag navigation bar component to layout workspace.' The top menu bar includes file icons (New, Open, Save) and a toolbar with B, I, U, S, E, F, and \$ buttons. The right side features a 'PAGE' tab and a 'SELECTION' panel. The 'SELECTION' panel contains sections for BODY, ATTRIBUTES (ID, CLASS), and BOOTSTRAP (SCROLL, HIDE). It also includes a STYLE section with a CURRENT dropdown set to 'None'. At the bottom, tabs for 'HTML' and 'LESS/CSS' are visible.



COMPONENTS

Untitled.html* x

Brand

Home Contacts

PAGE

SELECTION

... / NAVIGATION BAR / NAV / ITEM

Select
“Contacts”
and delete it.

ATTRIBUTES

ID

CLASS

HREF

BOOTSTRAP

STATE

x Active Disabled

HIDE

CHILDREN

ICON

x

BADGE

x

STYLE

CURRENT

None

Pingendo

Untitled.html* x

SECTIONS

COMPONENTS

HEADERS

CONTENTS

FOOTERS

FORMS

B I U S E F N

Smartphone Tablet Laptop Monitor Folder

PAGE

SELECTION

... / NAVIGATION BAR / NAV / ITEM

Brand

Home

One left.

ATTRIBUTES

ID

CLASS nav navbar-nav navbar-right

BOOTSTRAP

LEAD x ✓

ALIGNMENT x ← →

HIDE □ □ □ □

CHILDREN

CHILDREN Item (Home) +

STYLE

CURRENT None

HTML LESS/CSS

This screenshot shows the Pingendo UI editor interface. The top navigation bar includes file, font style, and device selection tools. The main workspace displays a navigation bar component titled 'Brand' with a single item labeled 'Home'. The right sidebar contains sections for ATTRIBUTES (ID, CLASS), BOOTSTRAP (LEAD, ALIGNMENT, HIDE), CHILDREN (with 'Item (Home)' selected), and STYLE (CURRENT set to 'None'). The left sidebar lists categories like HEADERS, CONTENTS, FOOTERS, and FORMS, each with corresponding icons. At the bottom, tabs for 'HTML' and 'LESS/CSS' are visible.

Pingendo

Untitled.html*

B I U S E F N

Home

Select the
“NAV”
breadcrumb.

NAV / ITEM

ATTRIBUTES

ID:

CLASS: nav navbar-nav navbar-right

BOOTSTRAP

LEAD: ✓

ALIGNMENT: ↶ ↷ ↸ ↹

HIDE: □ ▢ ▣ ▤

CHILDREN

CHILDREN: Item (Home)

STYLE

CURRENT: None

Sections

Components

Headers

Contents

Footers

Forms

HTML

LESS/CSS

Pingendo

Untitled.html*

Brands

Home

Add new item to navigation bar.

ATTRIBUTES

ID:

CLASS: nav navbar-nav navbar-right

BOOTSTRAP

LEAD: ✓

ALIGNMENT: ↗ ↙ ↘ ↛

HIDE: ☰ ☱ ☲ ☳

CHILDREN

Item (Home) +

STYLE

CURRENT: None

SECTIONS

COMPONENTS

HEADERS

CONTENTS

FOOTERS

FORMS

HTML

LESS/CSS

This screenshot shows the Pingendo web design tool interface. The main workspace displays a navigation bar component with a single item labeled 'Home'. A large red text overlay in the center says 'Add new item to navigation bar.' To the right, the 'CHILDREN' section of the sidebar shows a list with 'Item (Home)' checked, accompanied by a blue plus sign button. The top menu bar includes file, edit, and preview icons. The left sidebar contains sections for Sections, Components, Headers, Contents, Footers, and Forms, each with corresponding icon-based tools. The bottom navigation bar has tabs for HTML and LESS/CSS.

Pingendo

Untitled.html* x

Home

PAGE

SELECTION

... / NAVIGATION BAR / NAV / ITEM

ATTRIBUTES

ID

CLASS nav navbar-nav navbar-right

BOOTSTRAP

LEAD

ALIGNMENT

HIDE

CHILDREN

Item

Dropdown Menu

STYLE

CURRENT None

SECTIONS

COMPONENTS

HEADERS

CONTENTS

FOOTERS

FORMS

HTML LESS/CSS

Pick “item”.

The image shows the Pingendo user interface for web design. On the left, there's a sidebar with categories like HEADERS, CONTENTS, FOOTERS, and FORMS, each containing various icon-based components. The main workspace shows a navigation bar component with a single item labeled 'Home'. The right side has a panel for 'PAGE' and 'SELECTION' with a breadcrumb trail: '... / NAVIGATION BAR / NAV / ITEM'. A 'CHILDREN' section shows a dropdown menu with 'Item' and 'Dropdown Menu' options. The 'ATTRIBUTES' panel includes fields for ID and CLASS (set to 'nav navbar-nav navbar-right'). The 'BOOTSTRAP' panel shows settings for LEAD, ALIGNMENT (set to 'right'), and HIDE. The 'STYLE' panel shows 'CURRENT' set to 'None'. At the bottom, tabs for 'HTML' and 'LESS/CSS' are visible. A central text overlay says 'Pick “item”.'

Pingendo

Untitled.html* x

SECTIONS

COMPONENTS

HEADERS

CONTENTS

FOOTERS

FORMS

B I U S E P F S

Mobile

Laptop

Tablet

Print

File

Save

Home

Nav item

PAGE

SELECTION

... / NAVIGATION BAR / NAV

New navigation menu item added.

ATTRIBUTES

ID

CLASS

nav navbar-nav navbar-right

BOOTSTRAP

LEAD

ALIGNMENT

HIDE

CHILDREN

Item (Home)

Item (Nav Item)

+

STYLE

CURRENT

None

HTML

LESS/CSS

This screenshot shows the Pingendo web design interface. The main canvas displays a navigation bar with two items: 'Home' and 'Nav item'. The 'Nav item' is highlighted with a red border. The right-hand sidebar contains panels for 'ATTRIBUTES' (with ID and CLASS fields), 'BOOTSTRAP' (with LEAD, ALIGNMENT, and HIDE options), 'CHILDREN' (listing 'Item (Home)' and 'Item (Nav Item)' with a plus sign to add more), and 'STYLE' (set to 'None'). The bottom navigation bar includes tabs for 'HTML' and 'LESS/CSS'.

Pingendo

Untitled.html* x

Home Nav item

Select item to rename.

ATTRIBUTES

ID:

CLASS:

HREF: #

BOOTSTRAP

STATE: Active Disabled

HIDE:

CHILDREN

ICON:

BADGE:

STYLE

CURRENT: None

SECTIONS

COMPONENTS

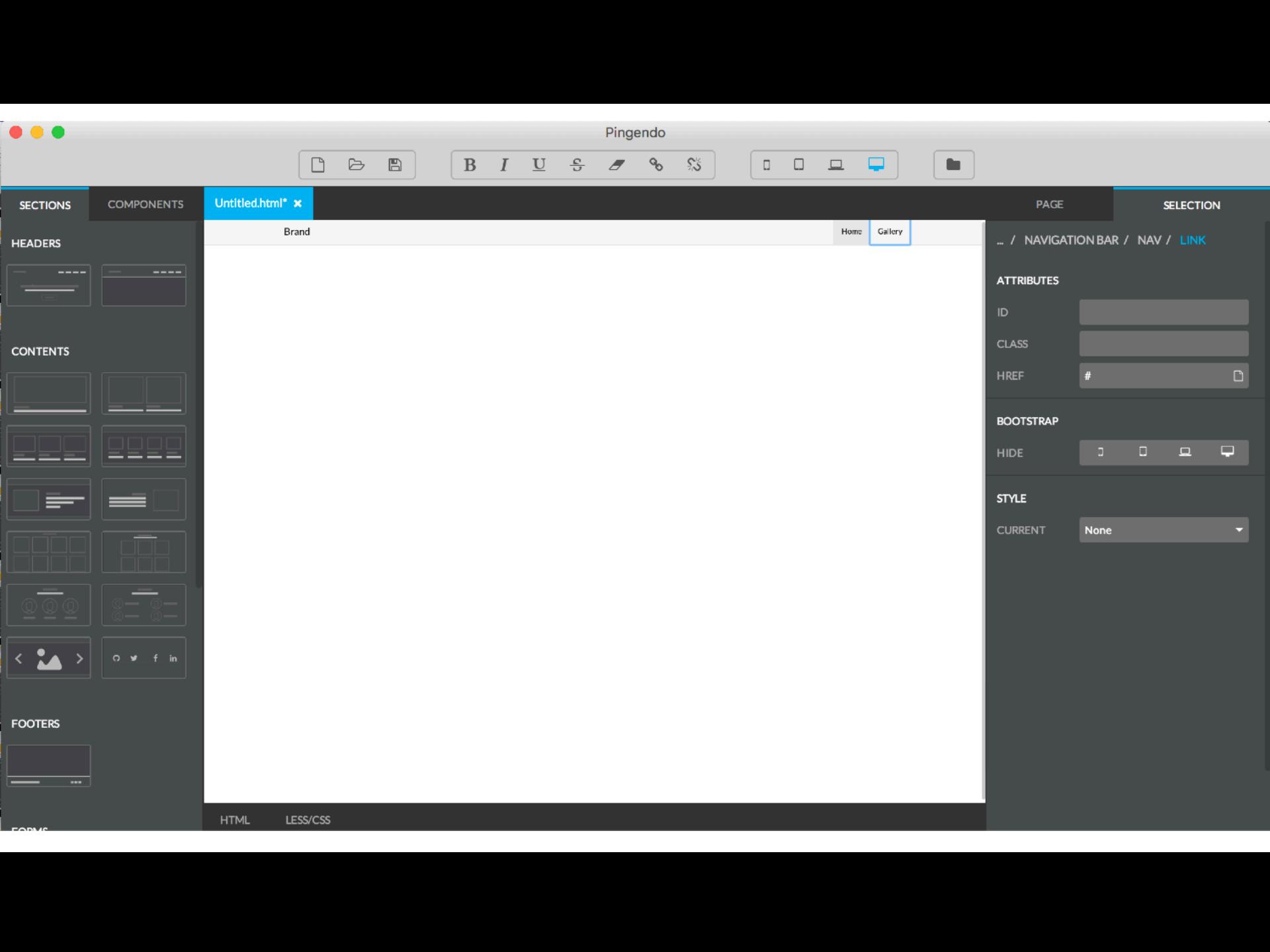
HEADERS

CONTENTS

FOOTERS

HTML LESS/CSS

This screenshot shows the Pingendo user interface for web design. The main workspace displays a navigation bar component with the text 'Select item to rename.' The 'Nav item' button is highlighted with a red border. The left sidebar contains sections for HEADERS, CONTENTS, and FOOTERS, each with a grid of component icons. The top menu bar includes file operations (New, Open, Save) and a toolbar with bold, italic, underline, and other styling tools. The right sidebar provides detailed settings for the selected component, including attributes like ID, Class, and HREF; bootstrap states like Active and Disabled; and style options like current styles and icons. The bottom navigation bar offers tabs for HTML and LESS/CSS.



Pingendo

Untitled.html* x

B I U S

Home Gallery Calendar

Use the same method to create additional item.

ATTRIBUTES

ID:

CLASS: nav navbar-nav navbar-right

BOOTSTRAP

LEAD: ✓

ALIGNMENT: ↪

HIDE: □ □ □ □

CHILDREN

Item (Home) Item (Gallery) Item (Calendar)

+

STYLE

CURRENT: None

SECTION

COMPONENTS

HEADERS

CONTENTS

FOOTERS

FORMS

HTML LESS/CSS

Pingendo

Untitled.html* x

SECTIONS

COMPONENTS

HEADERS

CONTENTS

FOOTERS

FORMS

B I U S E F N

Home Gallery Calendar

... / NAVIGATION BAR / NAV / ITEM

ATTRIBUTES

ID:

CLASS: active

HREF: #

BOOTSTRAP

STATE: Active Disabled

HIDE:

CHILDREN

ICON:

BADGE:

STYLE

CURRENT: None

HTML LESS/CSS

This screenshot shows the Pingendo UI editor interface. The top navigation bar includes file, font style, and selection tools. The main workspace displays a navigation bar component with tabs: Home, Gallery, and Calendar (which is currently selected). To the left, there are sections for Headers, Contents, Footers, and Forms, each containing various UI component icons. The right side features a detailed panel for the selected 'ITEM' component, showing attributes like ID, Class, and HREF, and a Bootstrap section for State and Hide options. The bottom navigation bar offers HTML and LESS/CSS switching.

Pingendo

Untitled.html* x

B I U S ↗ 🔍 ⚡

Home Gallery Calendar Nav item

Rename each new item to meet you need.

ATTRIBUTES

ID

CLASS

HREF #

BOOTSTRAP

STATE Active Disabled

HIDE

CHILDREN

ICON

BADGE

STYLE

CURRENT None

SECTIONS

COMPONENTS

HEADERS

CONTENTS

FOOTERS

HTML LESS/CSS

Pingendo

Untitled.html* x

SECTIONS

COMPONENTS

HEADERS

CONTENTS

FOOTERS

FORMS

B I U S E F N

Mobile Tablet Laptop Monitor Folder

PAGE

SELECTION

BODY

ATTRIBUTES

ID

CLASS

BOOTSTRAP

SCROLL

HIDE

STYLE

CURRENT None

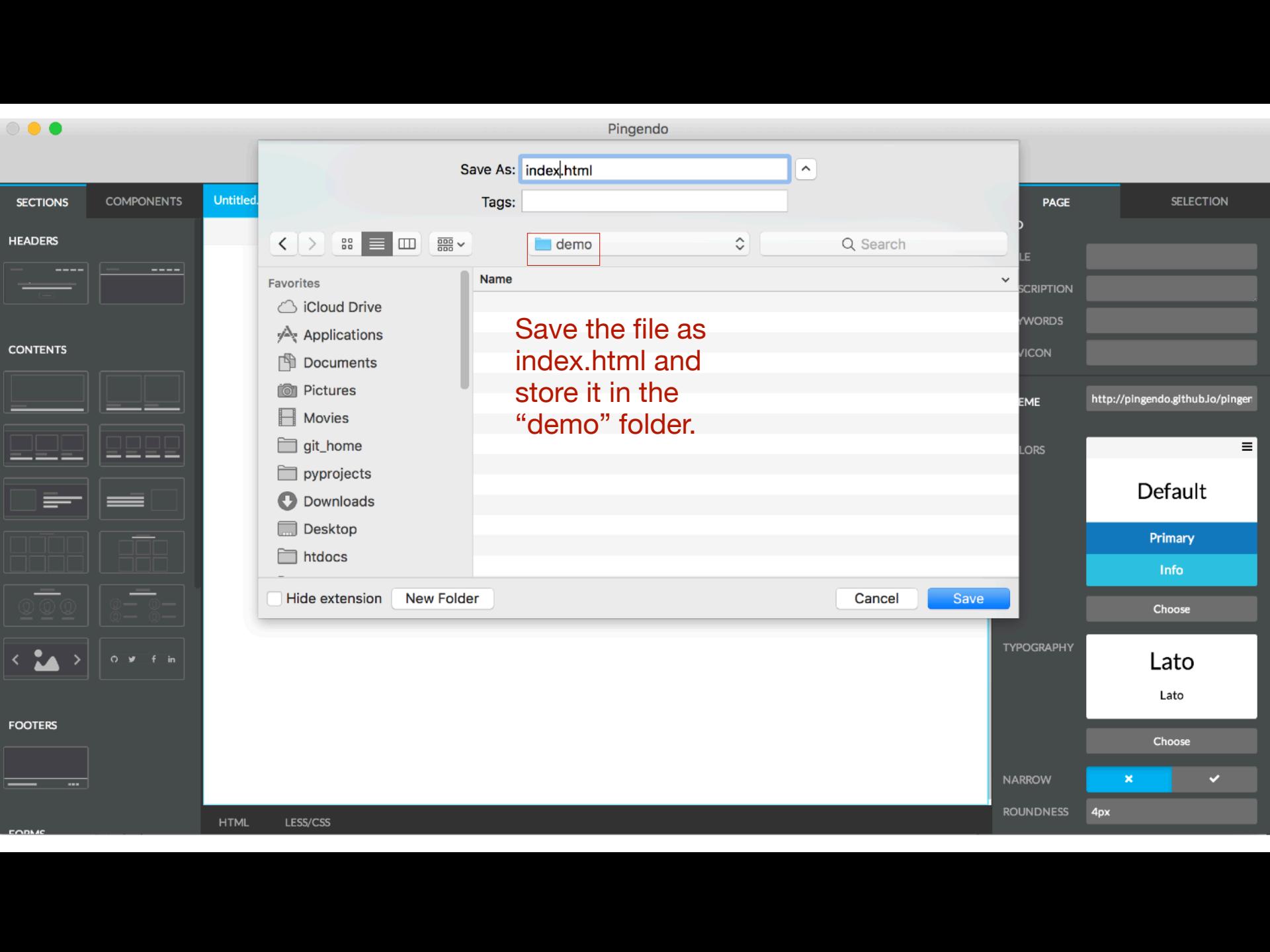
HTML LESS/CSS

The image shows the Pingendo web editor interface. At the top, there's a toolbar with file icons (New, Open, Save) and styling tools (Bold, Italic, Underline, Strike, Font Size, Font Family, Alignment, Paragraph). Below the toolbar is a header bar with the title "Untitled.html* x" and a "PAGE" tab. The main workspace is a blank white area with a header bar containing "Brand" and navigation links: Home, Gallery, Calendar, and Contacts. To the left is a sidebar with sections: HEADERS, CONTENTS, FOOTERS, and FORMS, each containing various component icons. On the right is a "SELECTION" panel with sections for BODY, ATTRIBUTES (ID, CLASS), BOOTSTRAP (SCROLL, HIDE), and STYLE (CURRENT set to "None"). At the bottom, there are tabs for "HTML" and "LESS/CSS".

Creating Additional Web Pages

Save document.

The screenshot shows the Pingendo web editor interface. The main window displays the text "Save document." in red. On the left, there are panels for "SECTIONS", "HEADERS", "CONTENTS", and "FOOTERS", each containing various icons for different design elements. The top menu bar has "New", "Open..", "Open Recent", "Save html/less", "Save document" (which is highlighted in blue), "Save theme", and "Save As". Below the menu is a toolbar with icons for file operations like Open, Save, Print, Find, and Copy/Paste. The right side of the interface includes sections for "PAGE" (with tabs for BODY, ATTRIBUTES, ID, and CLASS), "BOOTSTRAP" (with SCROLL and HIDE settings), and "STYLE" (with CURRENT set to None). At the bottom, there are tabs for "HTML" and "LESS/CSS".



Pingendo

Save As: style.css

Tags:

demo

Search

Name: index.html

Favorites

- iCloud Drive
- Applications
- Documents
- Pictures
- Movies
- git_home
- pyprojects
- Downloads
- Desktop
- htdocs

Hide extension

SECTIONS

COMPONENTS

HEADERS

CONTENTS

FOOTERS

FORMS

PAGE

DESCRIPTION

KEYWORDS

VICON

EME

LORS

Default

Primary

Info

Choose

TYPGRAPHY

Lato

Choose

NARROW

ROUNDNESS

4px

HTML LESS/CSS

The image shows the Pingendo user interface. A central modal window titled 'Pingendo' is open, prompting the user to save a file named 'style.css'. The 'Save As:' field contains 'style.css', and the 'Tags:' field is empty. The 'demo' folder is selected in the file browser. The 'Name:' field contains 'index.html', which is highlighted with a red border. The left sidebar lists various UI components like 'HEADERS', 'CONTENTS', and 'FOOTERS' with their respective icon sets. On the right, there are panels for 'PAGE' settings (Description, Keywords, Vicon, EME, LORS) and 'TYPGRAPHY' settings (Font Lato, Choose, Narrow, Roundness). The bottom navigation bar includes tabs for 'HTML' and 'LESS/CSS'.

Pingendo

Desktop

demo

index.html

style.css

style.less

Name Date Modified Size Kind

Today at 12:14 AM 2 KB HTML

Today at 12:14 AM 145 KB CSS

Today at 12:14 AM 27 KB Visual...oc

Back/Forward

Favorites

- Recents
- iCloud D...
- AirDrop
- Applicati...
- Docume...
- Pictures
- Movies
- git_home
- pyprojects
- Download...
- Desktop
- htdocs

1 of 3 selected, 140.77 GB available

repo

DDD

Data Science Readings

24 items, 140.77 GB available

HTML LESS/CSS

PAGE

SEO

TITLE

DESCRIPTION

KEYWORDS

FAVICON

THEME style.less

COLORS

Default

Primary

Info

Choose

TYPOGRAPHY

Lato

Lato

Choose

NARROW

ROUNDNESS 4px

This screenshot shows the Pingendo interface, a web design tool. At the top, there's a toolbar with standard file operations (New, Open, Save, etc.) and a set of icons for bold, italic, underline, and other text styling. Below the toolbar is a Mac-style window title bar with 'Pingendo' and a close/minimize/fullscreen button. The main area contains a file browser window titled 'demo'. Inside, there are three files listed: 'index.html', 'style.css', and 'style.less'. The 'index.html' file is selected, showing its details: 'Today at 12:14 AM', '2 KB', and 'HTML'. The browser also shows a message '1 of 3 selected, 140.77 GB available'. Below the browser is a preview area showing a simple white page. At the bottom, there are tabs for 'HTML' and 'LESS/CSS'. To the right of the browser is a sidebar with several sections: 'PAGE', 'SEO' (with fields for Title, Description, Keywords, and Favicon), 'THEME' (set to 'style.less'), 'COLORS' (showing a color palette with 'Default', 'Primary', 'Info', and 'Choose' buttons), 'TYPOGRAPHY' (set to 'Lato'), 'NARROW' (with a switch), and 'ROUNDNESS' (set to '4px'). The sidebar has a dark background with light-colored text and buttons.

Linking the Navigation Item to the Web Page

Pingendo

index.html x

SECTIONS

COMPONENTS

HEADERS

CONTENTS

FOOTERS

FORMS

B I U S E C \$

Mobile Desktop Laptop Monitor File

PAGE

SELECTION

... / NAVIGATION BAR / NAV / ITEM

Select the navigation menu item to be linked.

ATTRIBUTES

ID

CLASS

Href #

BOOTSTRAP

STATE Active Disabled

HIDE

CHILDREN

ICON

BADGE

STYLE

CURRENT None

HTML LESS/CSS

The screenshot shows the Pingendo UI editor interface. On the left, there are sections for HEADERS, CONTENTS, FOOTERS, and FORMS, each containing various component icons. The main workspace is titled 'index.html' and contains a 'Brand' header with tabs for Home, Gallery, Calendar, and Contacts. The 'Home' tab is highlighted with a blue border. In the center, large red text reads 'Select the navigation menu item to be linked.' To the right, the 'SELECTION' panel is open, showing attributes like ID, CLASS, and HREF (#), and bootstrap states like Active and Disabled. Below these are sections for CHILDREN (with icons and badges) and STYLE (with a dropdown for CURRENT). At the bottom, there are tabs for HTML and LESS/CSS.



Pingendo

**B** *I* U 

SECTIONS

COMPONENTS

index.html

PAGE

SELECTION

HEADERS



CONTENTS



FOOTERS



FORMS

Brand

Home

Gallery

Calendar

Contacts

Enter the file
name.

... / NAVIGATION BAR / NAV / ITEM

ATTRIBUTES

ID

CLASS

HREF

BOOTSTRAP

STATE

Active Disabled

HIDE

CHILDREN

ICON

BADGE

STYLE

CURRENT

HTML LESS/CSS

Pingendo

Index.html* x

SECTIONS

COMPONENTS

HEADERS

CONTENTS

FOOTERS

FORMS

B I U S F G

Home Gallery Calendar Contacts

Do the same to the other items.

... / NAVIGATION BAR / NAV / ITEM

ATTRIBUTES

ID

CLASS active

HREF gallery.html

BOOTSTRAP

STATE Active Disabled

HIDE

CHILDREN

ICON

BADGE

STYLE

CURRENT None

HTML LESS/CSS

Pingendo

index.html*

Home Gallery **Calendar** Contacts

... / NAVIGATION BAR / NAV / ITEM

ATTRIBUTES

ID:

CLASS: active

HREF: calendar.html

BOOTSTRAP

STATE: Active

HIDE:

CHILDREN

ICON:

BADGE:

STYLE

CURRENT: None

SECTIONS

COMPONENTS

HEADERS

CONTENTS

FOOTERS

FORMS

HTML LESS/CSS

Pingendo

SECTIONS COMPONENTS Headers

CONTENTS

FOOTERS FORMS

NAVIGATION BAR / NAV / ITEM

SECTION

Back/Forward View Arrange Action Share Add Tags demo Search Search

Favorites

- Recents
- iCloud D...
- AirDrop
- Application...
- Documents
- Pictures
- Movies
- git_home
- pyprojects
- Downloads
- Desktop
- htdocs

Name Date Modified Size Kind

Name	Date Modified	Size	Kind
gallery.html	Today at 12:23 AM	2 KB	HTML
index.html	Today at 12:23 AM	2 KB	HTML
style.css	Today at 12:14 AM	145 KB	CSS
style.less	Today at 12:14 AM	27 KB	Visual...oc

contacts.html

Duplicate index.html to create the other web pages and rename them according to the navigation item entry.

1 of 4 selected, 140.75 GB available

HTML LESS/CSS

```
35      </li>
36      <li>
37          <a href="contacts.html">Contacts<br></a>
38      </li>
```

CURRENT None

A screenshot of the Pingendo web editor interface. On the left, there are sections for SECTIONS, COMPONENTS, HEADERS, CONTENTS, FOOTERS, and FORMS. The main area shows a file browser with a 'demo' folder containing files like gallery.html, index.html, style.css, and style.less. A red text overlay in the center says 'Duplicate index.html to create the other web pages and rename them according to the navigation item entry.' Below the file browser is a code editor with tabs for HTML and LESS/CSS. The HTML tab shows a snippet of code with line numbers 35 through 38, including an anchor tag for 'Contacts'. At the bottom right, there's a 'CURRENT' dropdown set to 'None'.

Pingendo

SECTIONS

COMPONENTS

HEADERS

CONTENTS

FOOTERS

FORMS

demo

Back/Forward View Arrange Action Share Add Tags

Search

Name Date Modified Size Kind

gallery.html Today at 12:23 AM 2 KB HTML

index.html Today at 12:23 AM 2 KB HTML

Today at 12:14 AM 145 KB CSS

Today at 12:14 AM 27 KB Visual...oc

Favorites

- Recents
- iCloud D...
- AirDrop
- Applicati...
- Docume...
- Pictures
- Movies
- git_home
- pyprojects
- Download...
- Desktop
- htdocs

Open Open With ►

Move to Trash

Get Info

Rename

Compress "index.html"

Duplicate

Make Alias

Quick Look "index.html"

Share ►

Copy "index.html"

Show View Options

Tags... 40.74 GB available

Active Disabled

None CURRENT

Navigation Bar / Nav / Item

contacts.html

HTML LESS/CSS

```
35      </li>
36      <li>
37          <a href="contacts.html">Contacts<br></a>
38      </li>
```

Pingendo

SECTIONS

COMPONENTS

HEADERS

CONTENTS

FOOTERS

FORMS

demo

Back/Forward View Arrange Action Share Add Tags Search

Name Date Modified Size Kind

Name	Date Modified	Size	Kind
gallery.html	Today at 12:23 AM	2 KB	HTML
index copy.html	Today at 12:23 AM	2 KB	HTML
index.html	Today at 12:23 AM	2 KB	HTML
style.css	Today at 12:14 AM	145 KB	CSS
style.less	Today at 12:14 AM	27 KB	Visual...

1 of 5 selected, 140.74 GB available

HTML LESS/CSS

```
35      </li>
36      <li>
37          <a href="contacts.html">Contacts<br></a>
38      </li>
```

SEARCH

NAVIGATION BAR / NAV / ITEM

CONTACTS

MAP

CURRENT

None

This screenshot shows the Pingendo web application interface. The main window displays a file browser titled 'demo' with a list of files: gallery.html, index copy.html, index.html, style.css, and style.less. The file 'index copy.html' is currently selected. Below the file list, a message indicates '1 of 5 selected, 140.74 GB available'. On the left side, there are sections for 'SECTIONS', 'COMPONENTS', 'HEADERS', 'CONTENTS', 'FOOTERS', and 'FORMS', each containing various icons representing different design elements. At the bottom, a code editor shows the HTML and LESS/CSS code for a menu item, specifically line 37 which contains a link to 'contacts.html'. To the right of the code editor, there are tabs for 'CURRENT' and 'None', and a section for 'NAVIGATION BAR / NAV / ITEM' with some placeholder components.

Pingendo

SECTIONS COMPONENTS Headers

CONTENTS

FOOTERS FORMS

demo

Back/Forward View Arrange Action Share Add Tags Search Search

Favorites

Name	Date Modified	Size	Kind
gallery.html	Today at 12:23 AM	2 KB	HTML
index copy.html	Today at 12:23 AM	2 KB	HTML
index.html	Today at 12:23 AM	2 KB	HTML
style.css	Today at 12:14 AM	145 KB	CSS
style.less	Today at 12:14 AM	27 KB	Visual...oc

NAVIGATION BAR / NAV / ITEM

AP

None CURRENT

HTML LESS/CSS

```
35      </li>
36      <li>
37          <a href="contacts.html">Contacts<br></a>
38      </li>
```

Pingendo

SECTIONS COMPONENTS

HEADERS

CONTENTS

FOOTERS

FORMS

demo

Back/Forward View Arrange Action Share Add Tags

Search

Name Date Modified Size Kind

Name	Date Modified	Size	Kind
gallery.html	Today at 12:23 AM	2 KB	HTML
calendar.html	Today at 12:23 AM	2 KB	HTML
index.html	Today at 12:23 AM	2 KB	HTML
style.css	Today at 12:14 AM	145 KB	CSS
style.less	Today at 12:14 AM	27 KB	Visual...oc

1 of 5 selected, 140.74 GB available

HTML LESS/CSS

```
35      </li>
36      <li>
37          <a href="contacts.html">Contacts<br></a>
38      </li>
```

Navigation Bar / Nav / Item

CONTACTS

MAP

None

Pingendo - /Users/yssuen/Desktop/demo/gallery.html

SECTIONS

COMPONENTS index.html x gallery.html*

PAGE

SELECTION

... / NAVIGATION BAR / NAV / ITEM

HEADERS

CONTENTS

FOOTERS

FORMS

Brand

Home **Gallery** Calendar Contacts

Open them inside Pigendo.

ATTRIBUTES

ID

CLASS active

HREF gallery.html

BOOTSTRAP

STATE Active Disabled

HIDE

CHILDREN

ICON

BADGE

STYLE

CURRENT None

HTML

LESS/CSS

```
29      </li>
30      <li class="active">
31          <a href="gallery.html">Gallery<br></a>
32      </li>
```

Layout Web Pages

Pingendo

index.html*

B I U S E N

Home Gallery Calendar Contacts

SECTIONS

HEADERS

CONTENTS

FOOTERS

PAGE

SELECTION

BODY

ATTRIBUTES

ID

CLASS

BOOTSTRAP

SCROLL

HIDE

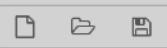
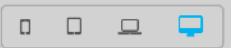
STYLE

CURRENT

None

HTML LESS/CSS

```
1 /*!
2 * Default theme for Pingendo
3 * Homepage: http://pingendo.com
4 * Copyright 2015 Pingendo
5 * Licensed under MIT
6 * Based on Bootstrap v3.3.4
7 */
8
9
```

**B** *I* U ~~S~~ 

SECTIONS

COMPONENTS

index.html*

gallery.html

calendar.html

contacts.html

PAGE

SELECTION

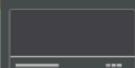
HEADERS



CONTENTS



FOOTERS



Brand

Home Gallery Calendar Contacts

... / BODY

ATTRIBUTES

ID

CLASS

BOOTSTRAP

SCROLL

HIDE

STYLE

CURRENT

None

HTML

LESS/CSS

```
1 /*!
2 * Default theme for Pingendo
3 * Homepage: http://pingendo.com
4 * Copyright 2015 Pingendo
5 * Licensed under MIT
6 * Based on Bootstrap v3.3.4
7 */
8
9
```

10 Add another CSS or LESS base

Change Navbar Color



TWBSColor

Generate your own Bootstrap navbar

<https://work.smarchal.com/twbscolor/>

Select your colors

Default background



Active background



Default color



Active color



Colorize dropdown

Brand

Link

Link

Dropdown ▾

Search

Submit

Disabled

Dropdown ▾

Select your colors

Default background



Active background



Default color



Active color



Colorize dropdown



```
.navbar-default {  
    background-color: #0b7d7e;  
    border-color: #05a1b0;  
}  
.navbar-default .navbar-brand {  
    color: #fbfeff;  
}  
.navbar-default .navbar-brand:hover,  
.navbar-default .navbar-brand:focus {  
    color: #f1f9ae;  
}  
.navbar-default .navbar-text {  
    color: #fbfeff;  
}  
.navbar-default .navbar-nav > li > a {  
    color: #fbfeff;  
}  
.navbar-default .navbar-nav > li > a:hover,  
.navbar-default .navbar-nav > li > a:focus {  
    color: #f1f9ae;  
}  
.navbar-default .navbar-nav > li > .dropdown-menu {  
    background-color: #0b7d7e;  
}  
.navbar-default .navbar-nav > li > .dropdown-menu > li > a {  
    color: #fbfeff;  
}  
.navbar-default .navbar-nav > li > .dropdown-menu > li > a:hover,  
.navbar-default .navbar-nav > li > .dropdown-menu > li > a:focus {  
    color: #f1f9ae;  
    background-color: #05a1b0;  
}  
.navbar-default .navbar-nav > li > .dropdown-menu > li.divider {  
    background-color: #05a1b0;  
}  
.navbar-default .navbar-nav .open .dropdown-menu > .active > a,  
.navbar-default .navbar-nav .open .dropdown-menu > .active > a:hover,
```

pingendo_demo > # style.css > ...

```
56 .navbar-default {  
57     background-color: #0b7d7e;  
58     border-color: #05a1b0;  
59 }  
60 .navbar-default .navbar-brand {  
61     color: #fbfeff;  
62 }  
63 .navbar-default .navbar-brand:hover,  
64 .navbar-default .navbar-brand:focus {  
65     color: #f1f9ae;  
66 }  
67 .navbar-default .navbar-text {  
68     color: #fbfeff;  
69 }  
70 .navbar-default .navbar-nav > li > a {  
71     color: #fbfeff;  
72 }  
73 .navbar-default .navbar-nav > li > a:hover,  
74 .navbar-default .navbar-nav > li > a:focus {  
75     color: #f1f9ae;
```

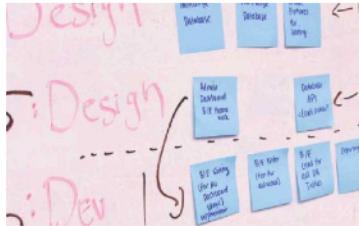
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Part I

0/4

Major Topics

1. Introduction to website development.
2. Designing a website with Pingendo.
3. Setting up a free Github account.
4. Creating a Github based website.

Self-paced Learning Videos (approx. 1 hr)

- + 1) HTML, CSS, JavaScript Explained (3 min 57 sec)
- + 2) Web Development Tutorial for Beginners (#1) (14 min 7 sec)
- + 3) Web Development Tutorial for Beginners (#2) (15 min 47 sec)
- + 4) JavaScript Video Tutorial Pt 1 (31 min 51 sec)
- + 5) Pingendo Bootstrap Visual Editor Part 1 (13 min 13 sec)
- + 6) Pingendo Bootstrap Visual Editor Part 2 (15 min 37 sec)
- + 7) Pingendo Bootstrap Visual Editor - Part 3 (17 min 43 sec)
- + 8) Pingendo Bootstrap Visual Editor - Part 4 (3 min 02 sec)

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Part I

0/4

- Digital Tools for Content Production I 01 hour
- Digital Tools for Content Production II 01 hour
- Digital Tools for Community Formation 01 hour
- Digital Tool For Conversion Tracking 01 hour

Major Topics

1. A gentle introduction to data entity relationships and views using Airtable.
2. Setting up a free Airtable account.
3. Creating Airtable tables, views, and collaborators.
4. Embedding Airtable views inside web pages.

Self-paced Learning Videos (approx. 1 hr)

- + 1) Data Science for Business: Data Mining Process and CRISP DM (7 min 45 sec)
- + 2) ParseHub Tutorial: Tables (7 min 44 sec)
- + 3) Introduction to OpenRefine - Skillshare (27 min 32 sec)
- + 4) Getting Started with Airtable (9 min 55 sec)
- + 5) Linking Tables in Airtable (7 min 14 sec)
- + 6) Airtable Demo: Supercharge Your Workflows With Formulas (11 min 12 sec)
- + 7) How to get your Airtable Linked Data to Summarize Perfectly (7 min 14 sec)
- + 8) Using Views in Airtable to Improve Workflows (8 min 50 sec)

Thank you for your time!