



CCFEST
creative coding festival

CSS and Web Design

Scott Gruber
Los Angeles, September 2018



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creative coding festival

CSS Grid and Web Design

Scott Gruber
Los Angeles, September 2018



www.ioes.ucla.edu

**CSS Grid Layout shipped in
production browsers 2017.**



CSS Grid Layout - CR

Method of using a grid concept to lay out content, providing a mechanism for authors to divide available space for layout into columns and rows using a set of predictable sizing behaviors. Includes support for all **grid-*** properties and the **fr** unit.

Usage

% of all users

Global84.16% + 3.09% = 87.25%

unprefixed:84.16%

Current alignedUsage relativeDate relativeShow all

IE	Edge*	Firefox	Chrome	Safari	iOS Safari*	Opera Mini*	Chrome for Android	UC Browser for Android	Samsung Internet
			149636768						
		61			10.311.2				4
211	1718	626364	69707172	11.112TP	11.412	all	67	11.8	7.2

CSS Grid Layout brings a two-dimensional grid system to the Web.

“What is a grid?”

**"A grid is an intersecting set of
horizontal and vertical lines"**

Vermont Symphony Orchestra

Winter
2007
Season

Aaron Copland
The Tender Land
January 2007

Eric Satie
Gymnopedie 1, 2
February 2007

01/12/07
**Middlebury College
Center for the Arts**
8:00 pm

02/03/07
**Johnson State College
Dibden Center for the Arts**
8:00 pm

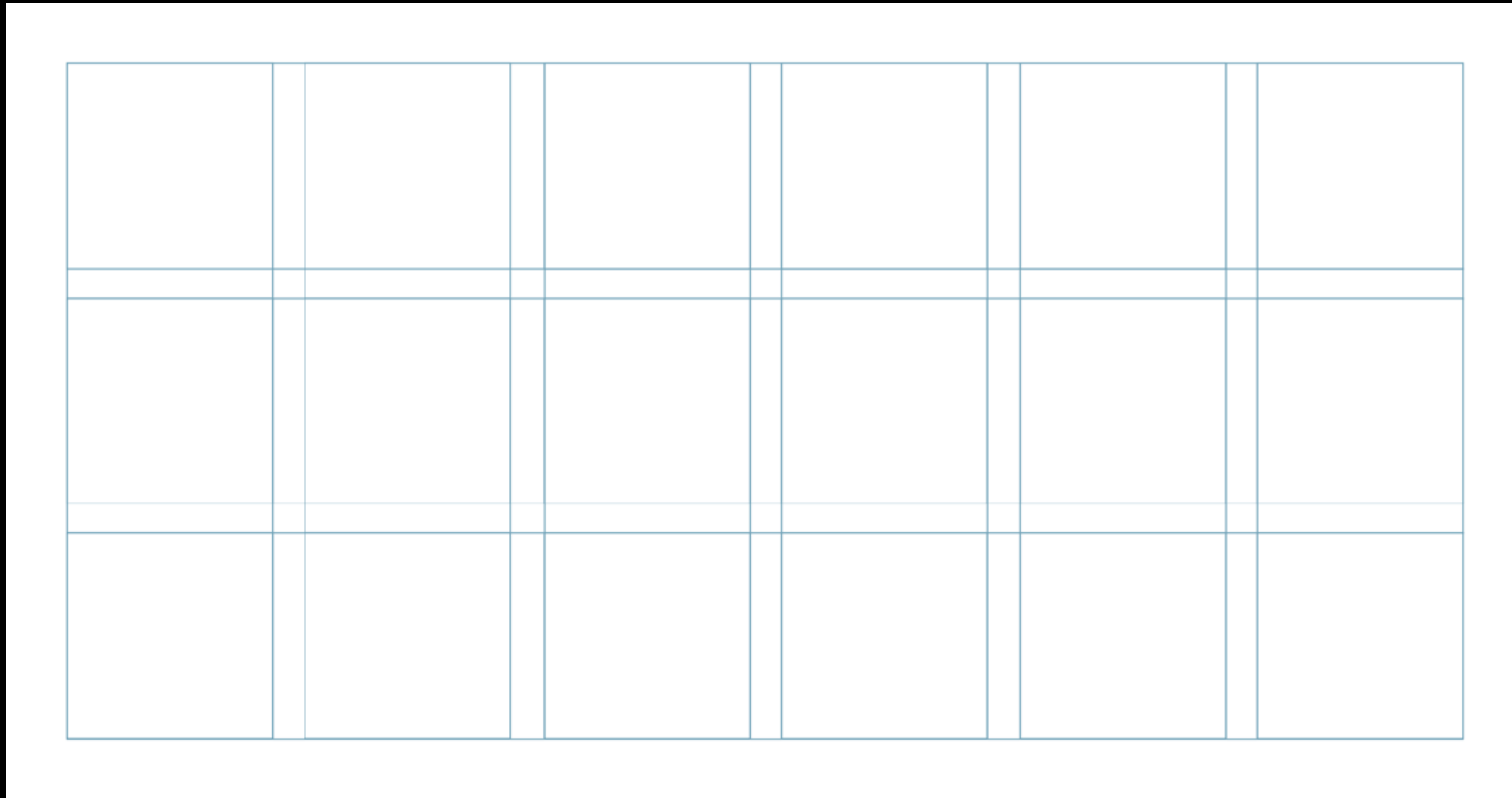
01/19/07
**Johnson State College
Dibden Center for the Arts**
8:00 pm

02/10/07
**Castleton State College
Fine Arts Center**
8:00 pm

01/26/07
**Lyndon State College
Alexander Twilight Theater**
8:00 pm

02/17/07
**Middlebury College
Center for the Arts**
8:00 pm

Grid



`display: grid;`

Grid Rows

grid-template-rows

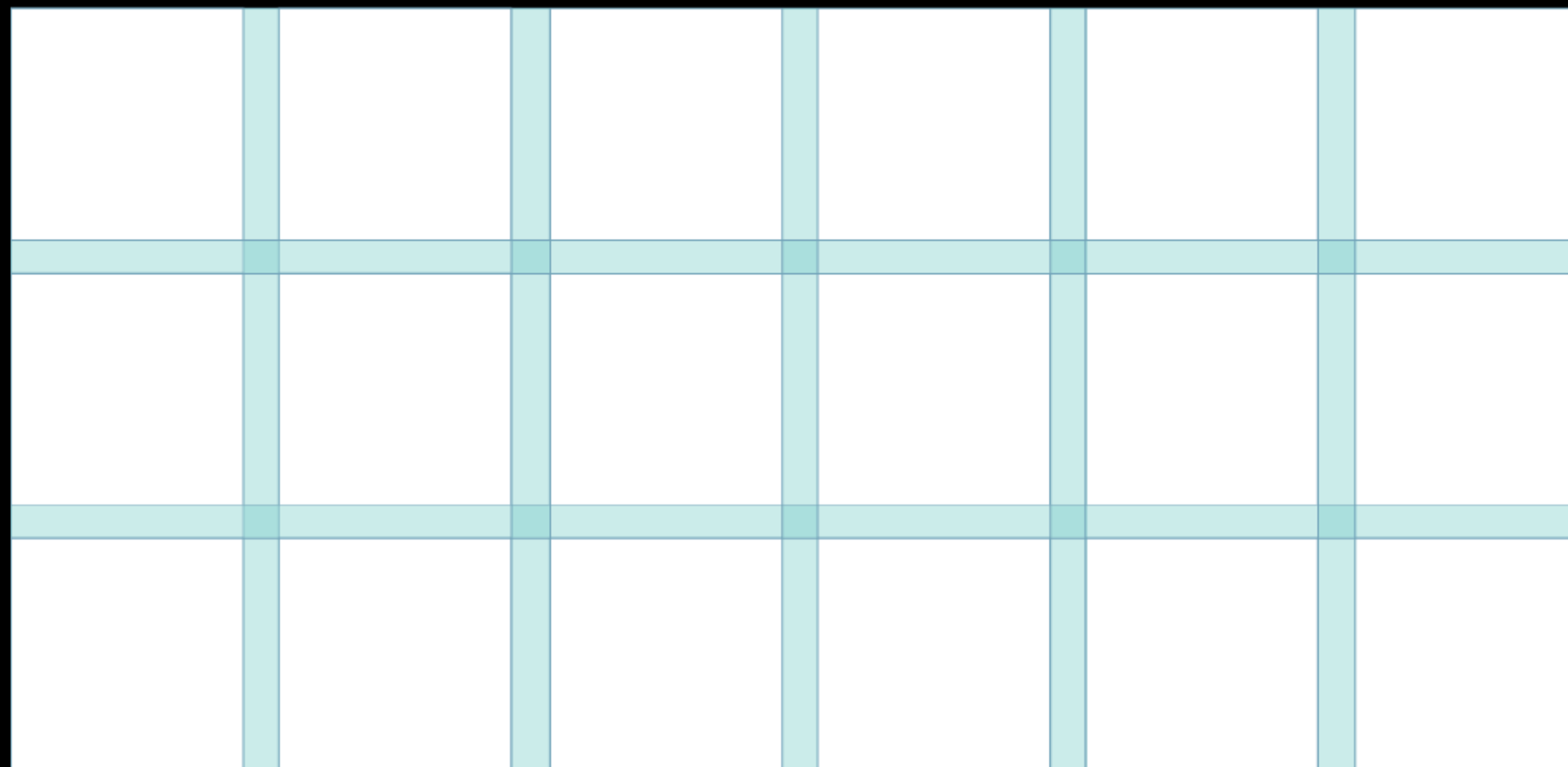
grid-row

Grid Columns

grid-template-columns

grid-column

Grid Gap



grid-gap

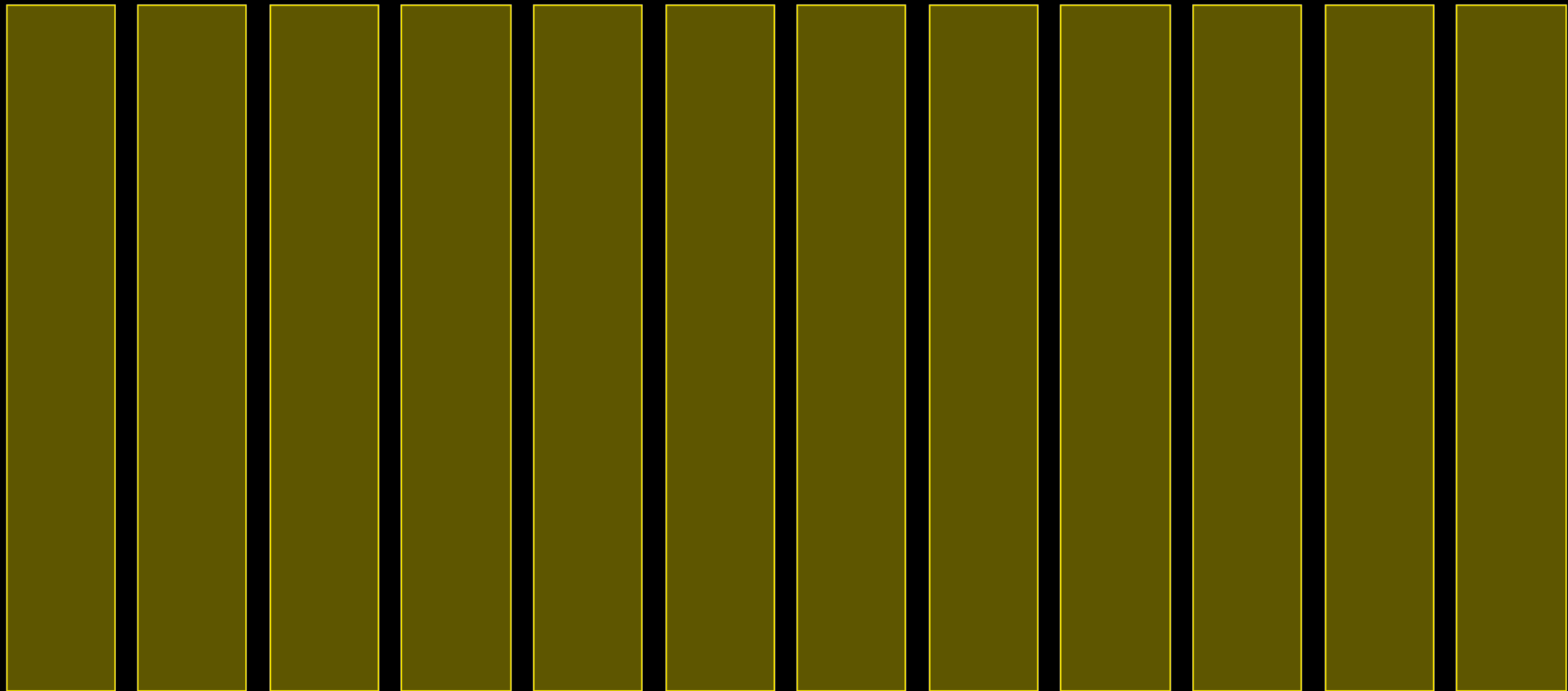
Grid Area

[illegible]

grid-template-areas

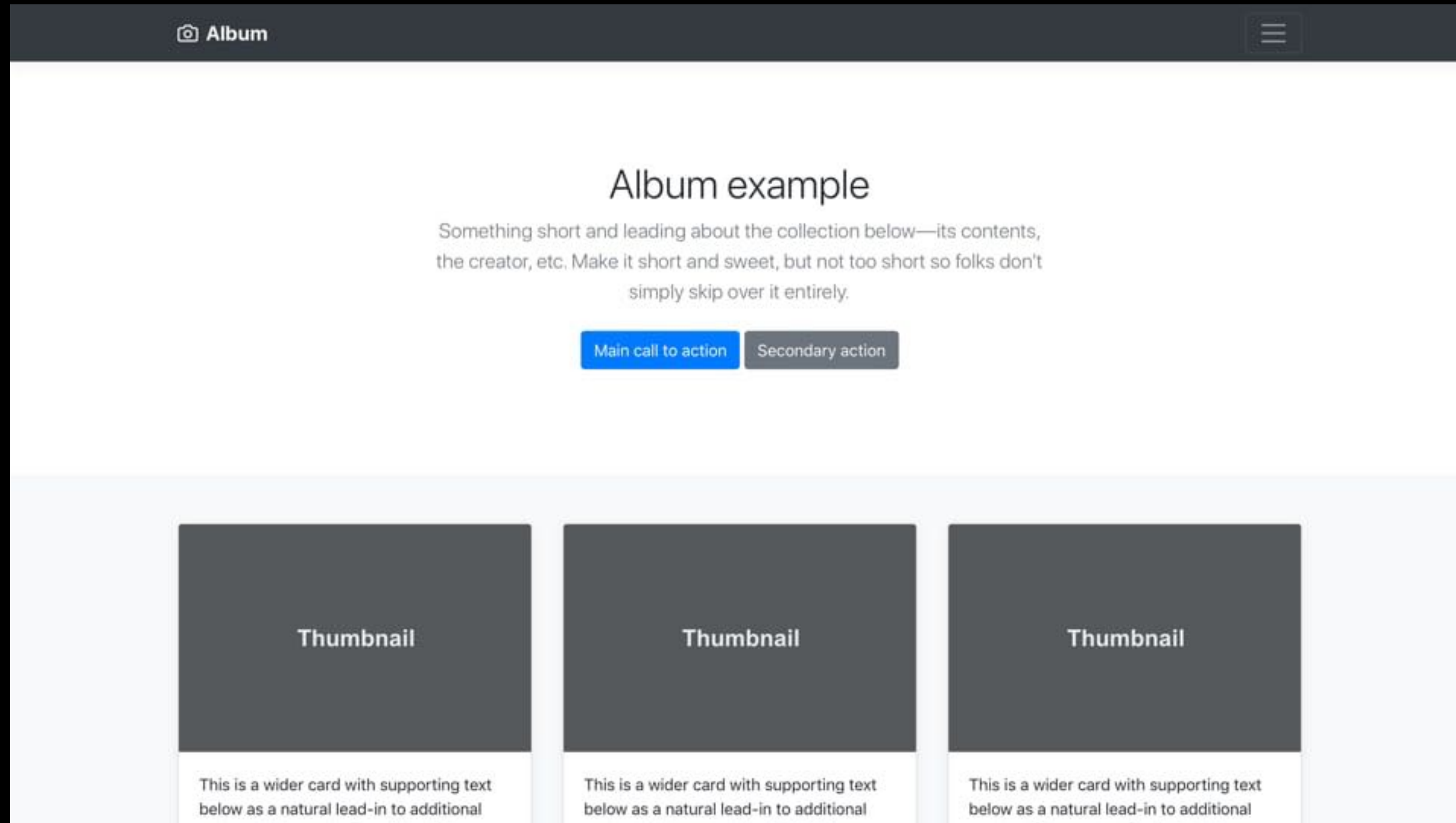
grid-area

“Design a grid based on your contents constraints, not design your content based on a grid's constraints.”

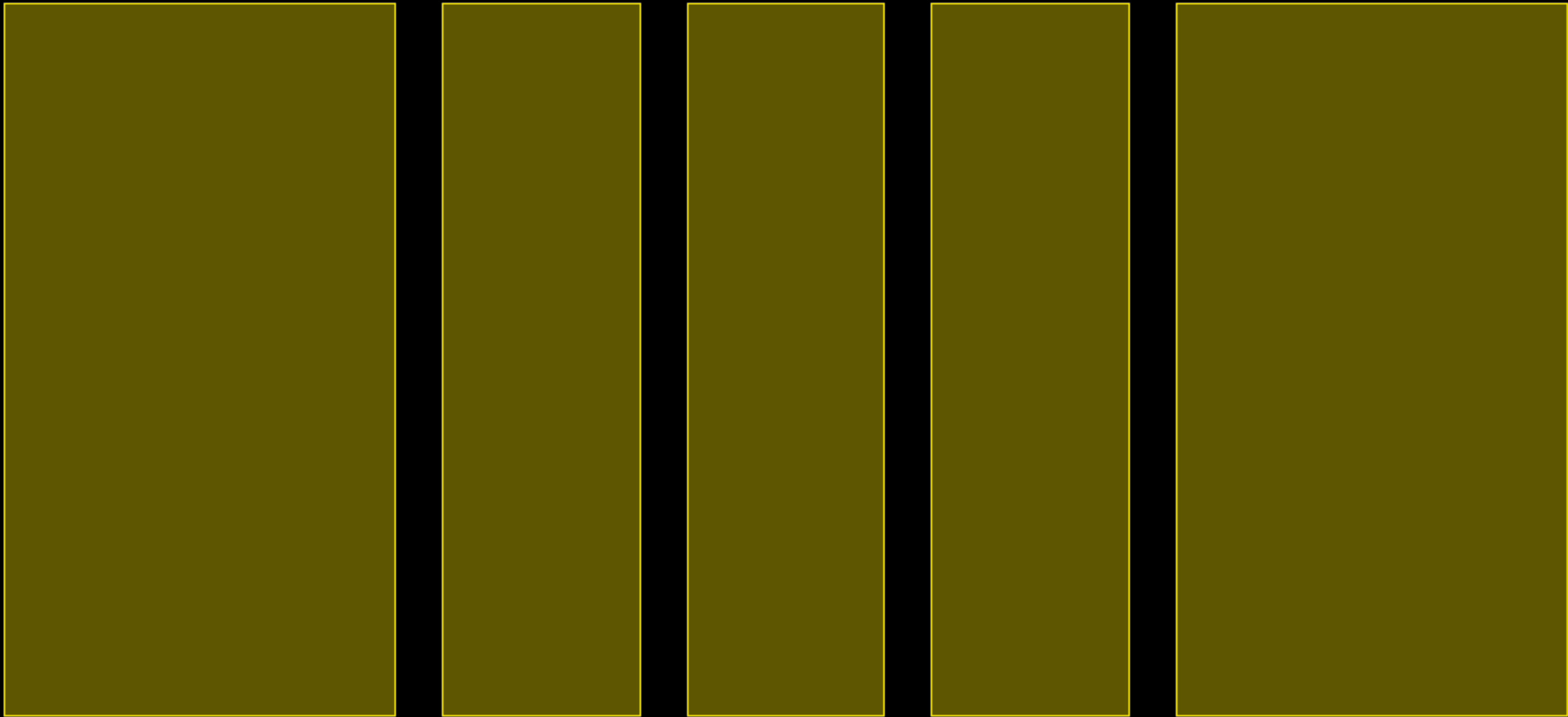


ansarada (5) - 12 · 1024px width · 12 columns · 1.5% gutter

Bootstrap 12 column grid

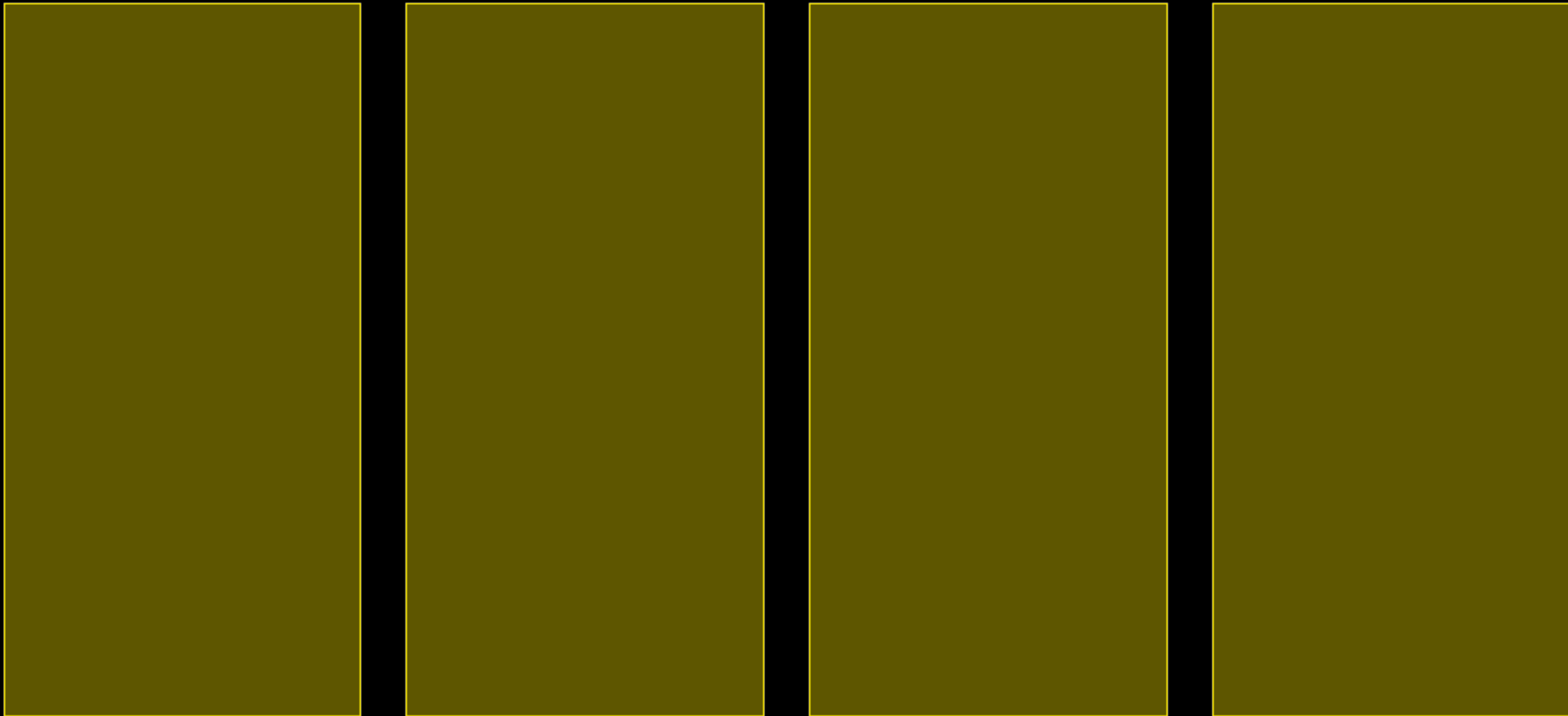


Bootstrap 12 column grid



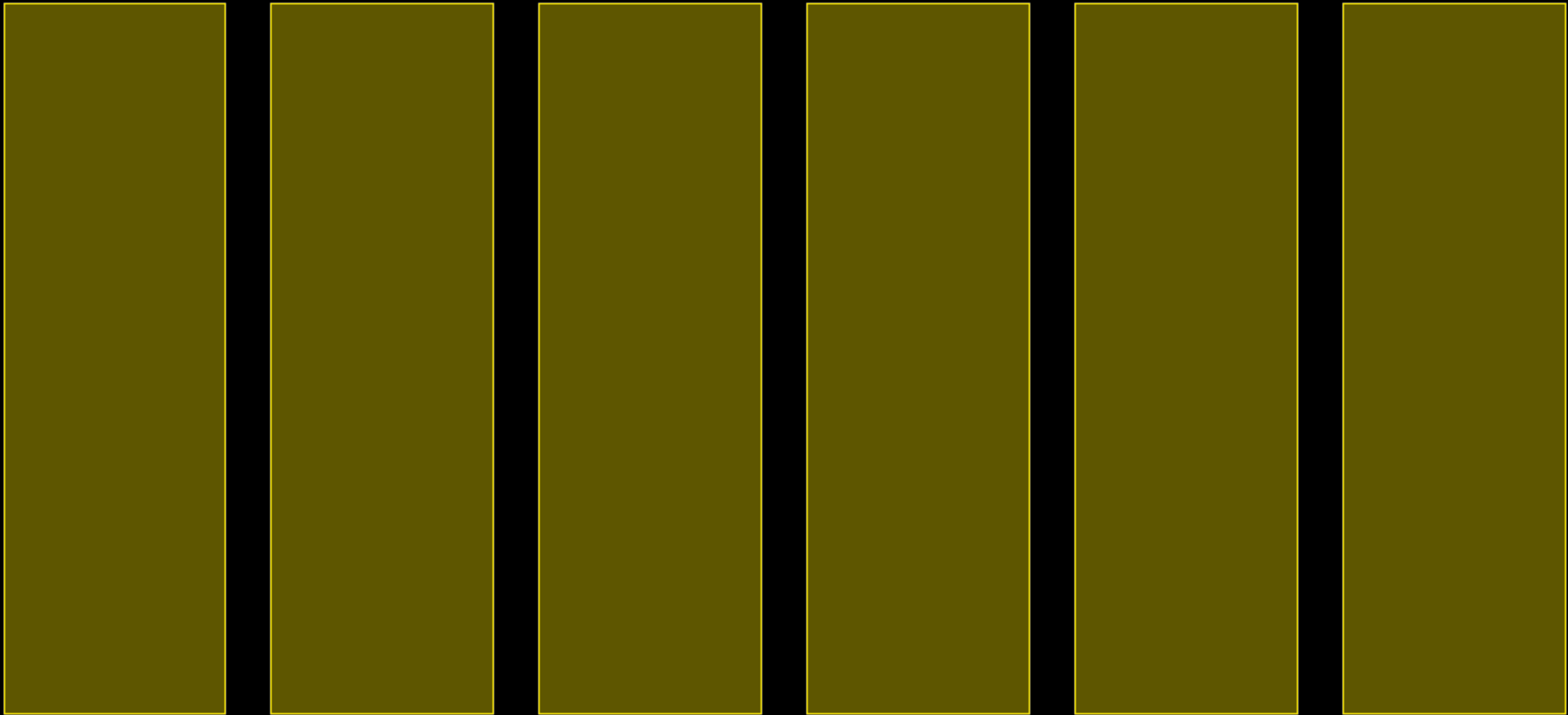
F - Desktop · 990px width · 5 columns · 3.0303% gutter

"The Fonmon"



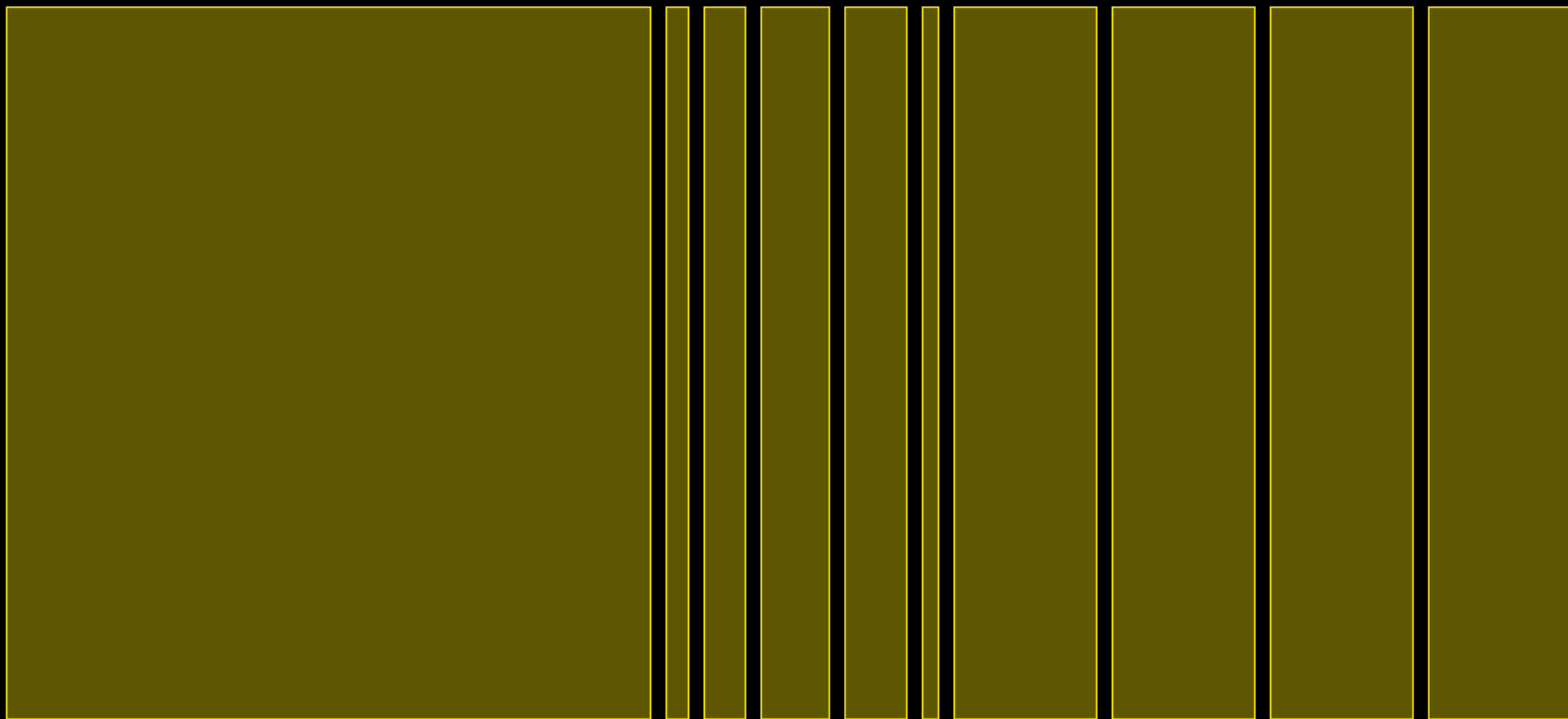
C - Desktop B · 990px width · 4 columns · 3.0303% gutter

"The Gertsner"



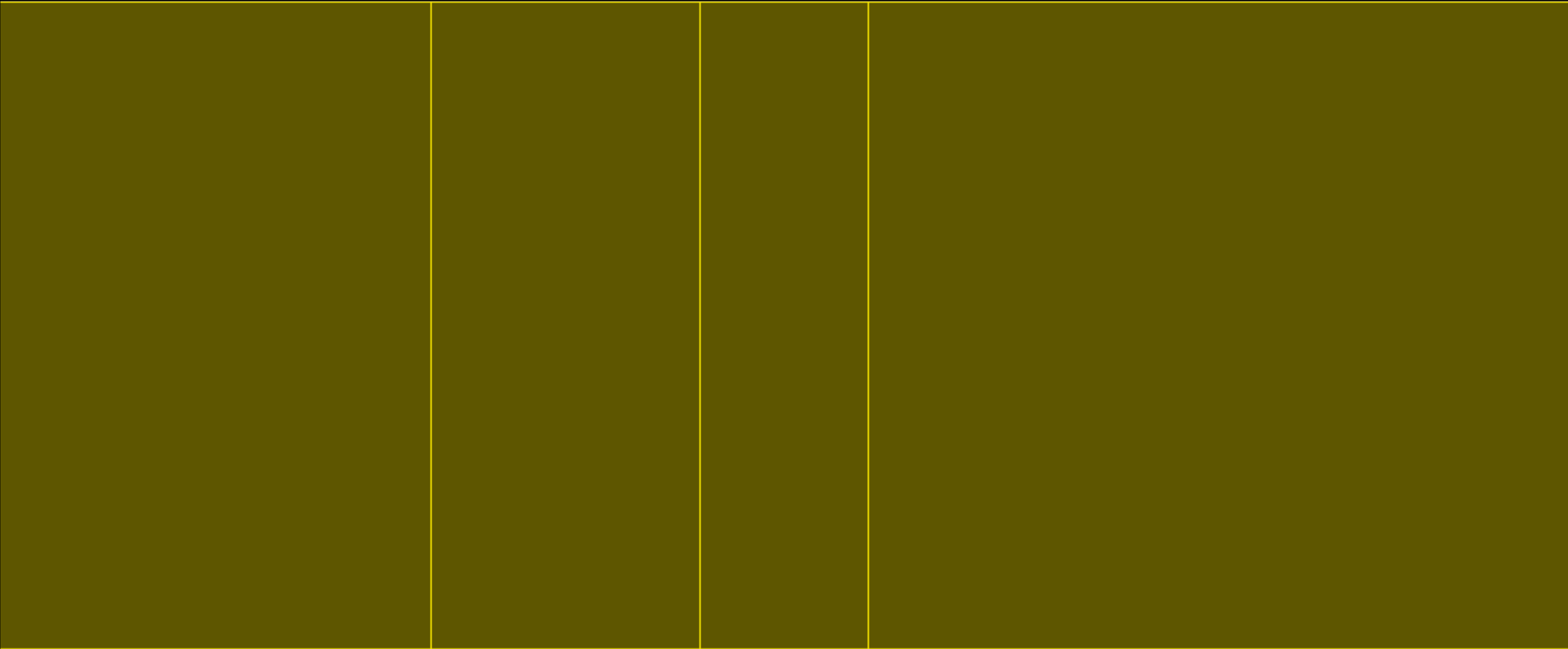
C - Desktop A · 990px width · 6 columns · 3.0303% gutter

"The Gertsner"



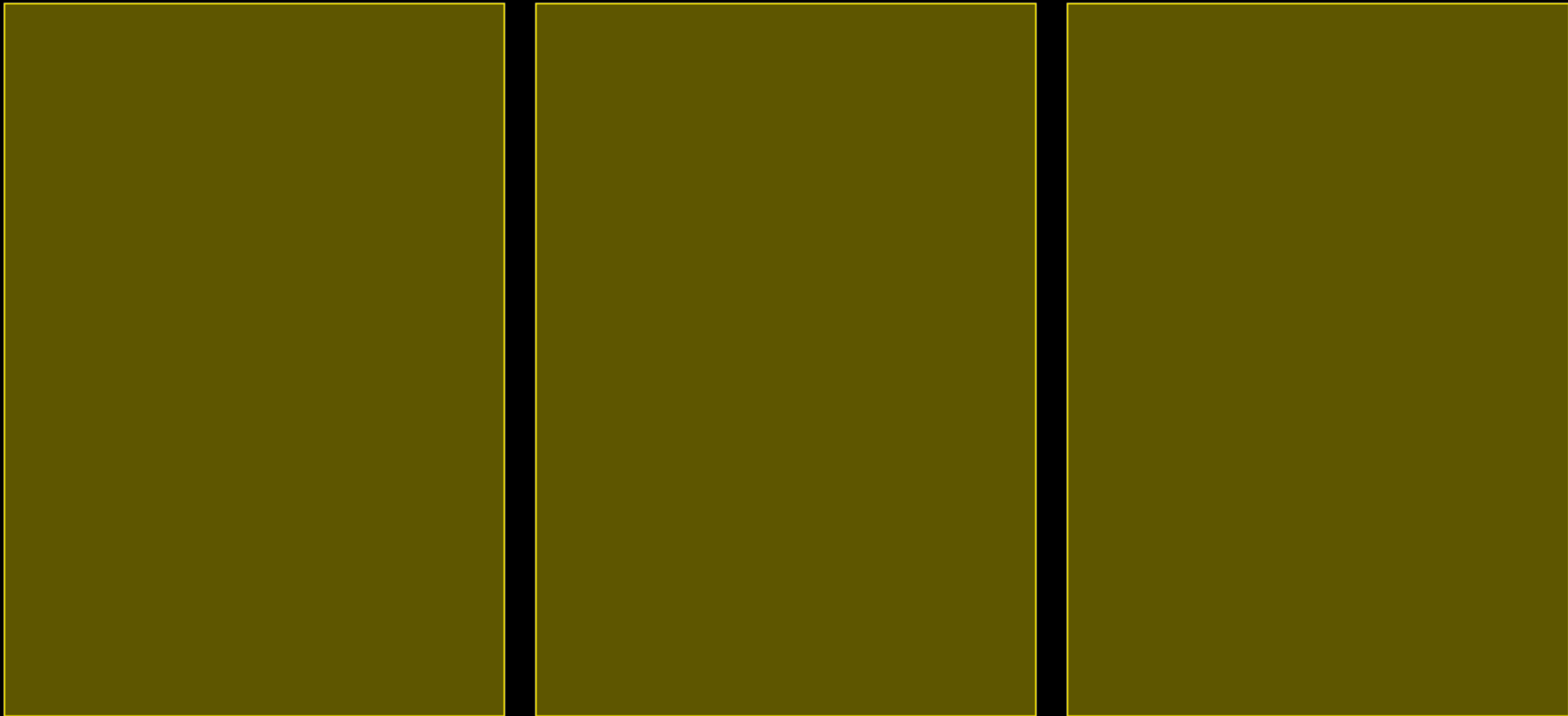
D - Desktop · 990px width · 10 columns · 1.0101% gutter

"The Carson"



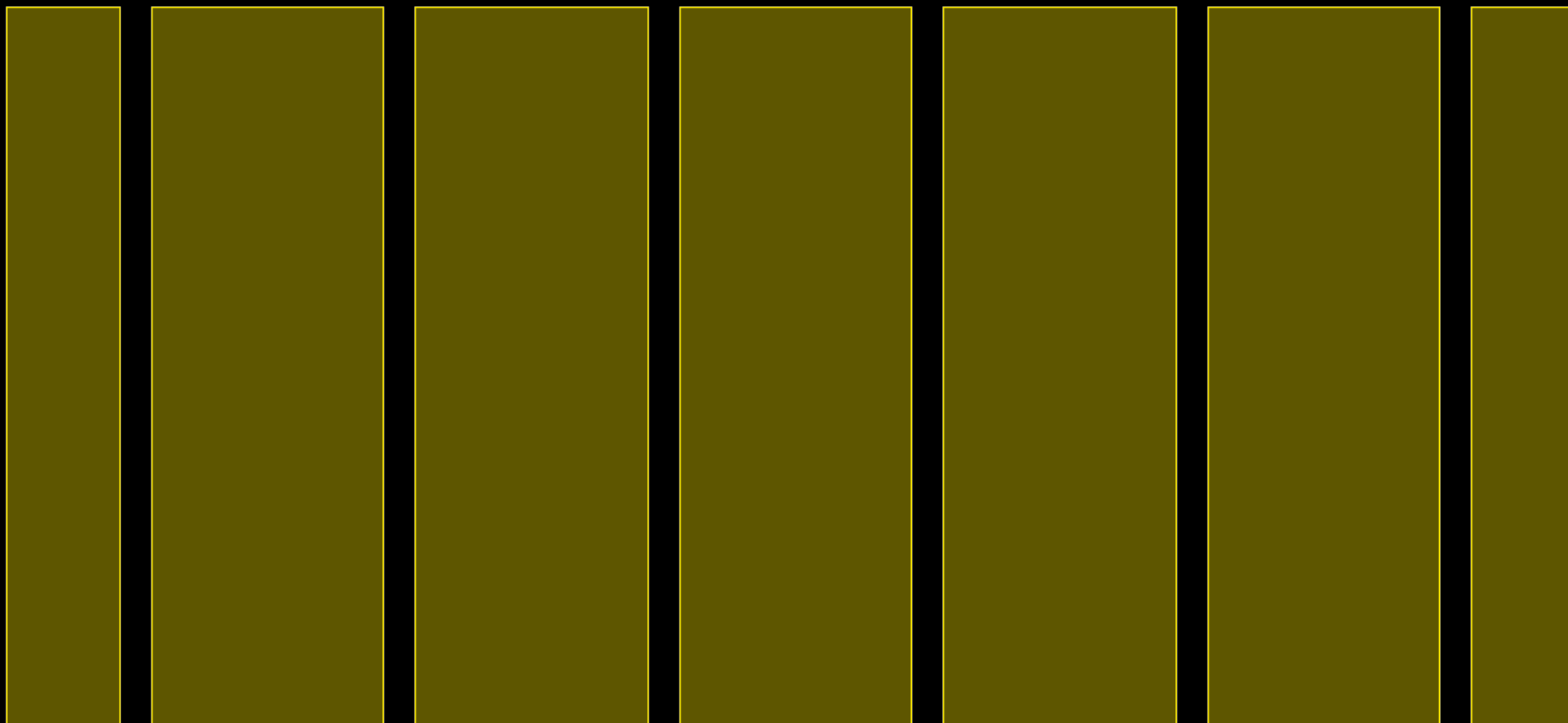
E - Desktop · 1100px width · 4 columns · 0% gutter

"The Marber"



A - Desktop · 990px width · 3 columns · 2.0202% gutter

"The Minimalist"



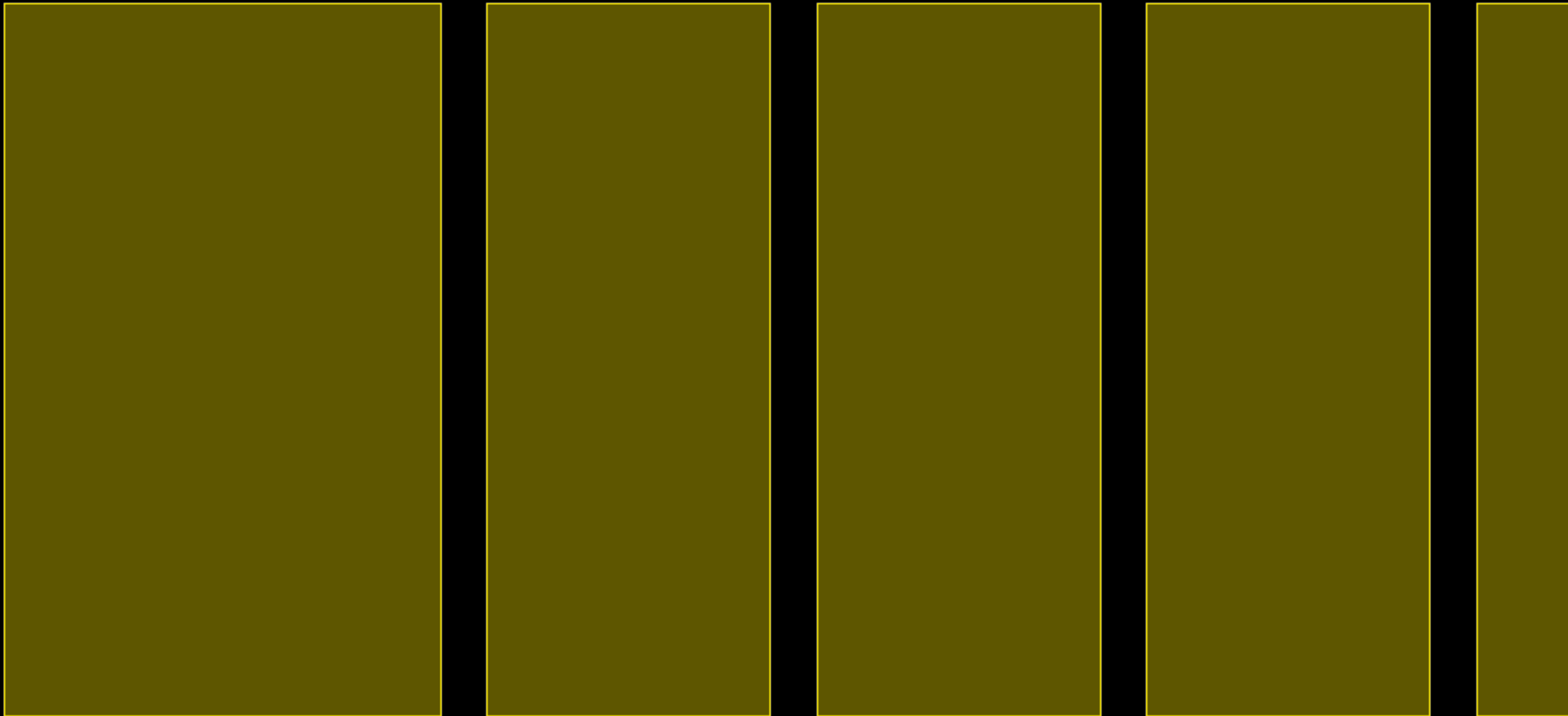
B - Seven · 990px width · 7 columns · 2.0202% gutter

"Typotron 11, Seven columns"



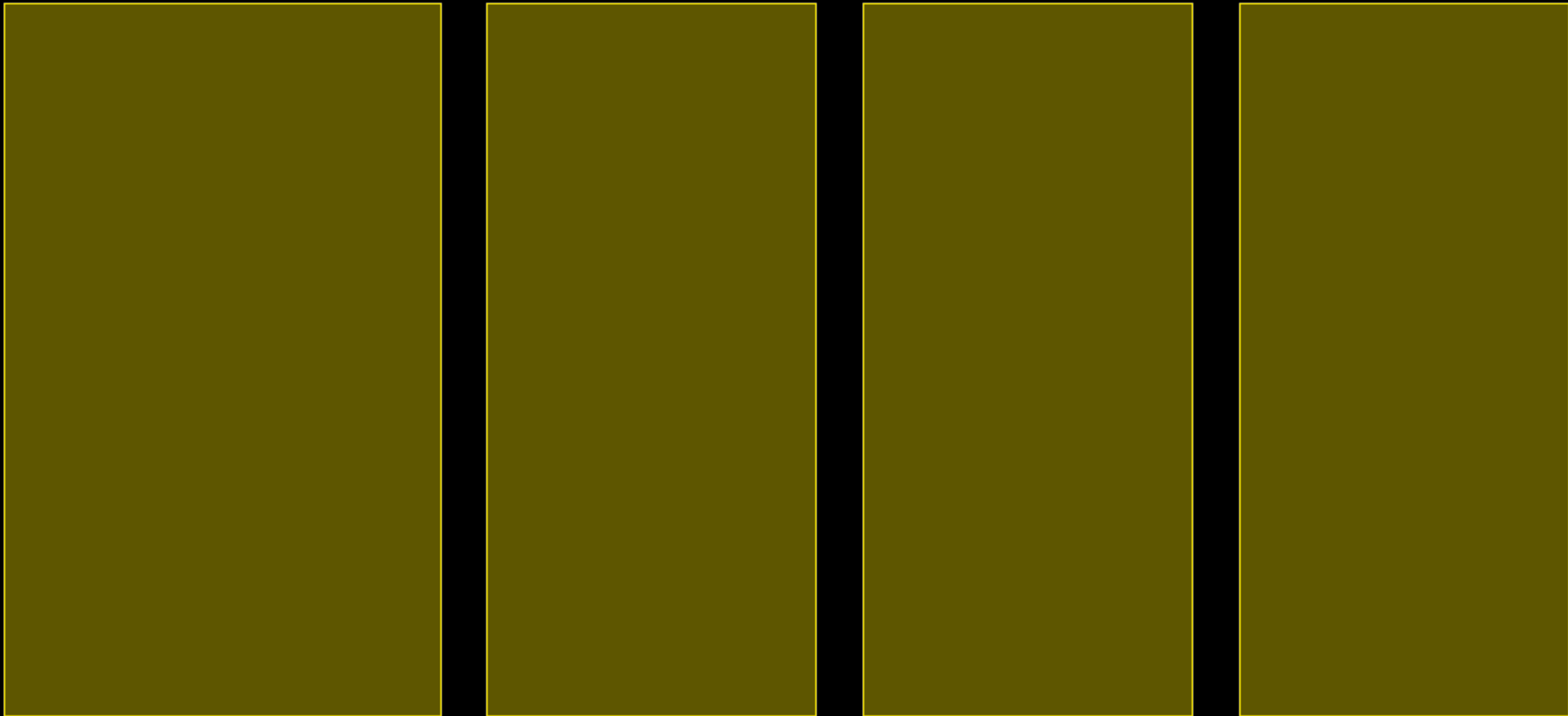
B - Six · 990px width · 6 columns · 2.0202% gutter

"Typotron 11, Six columns"



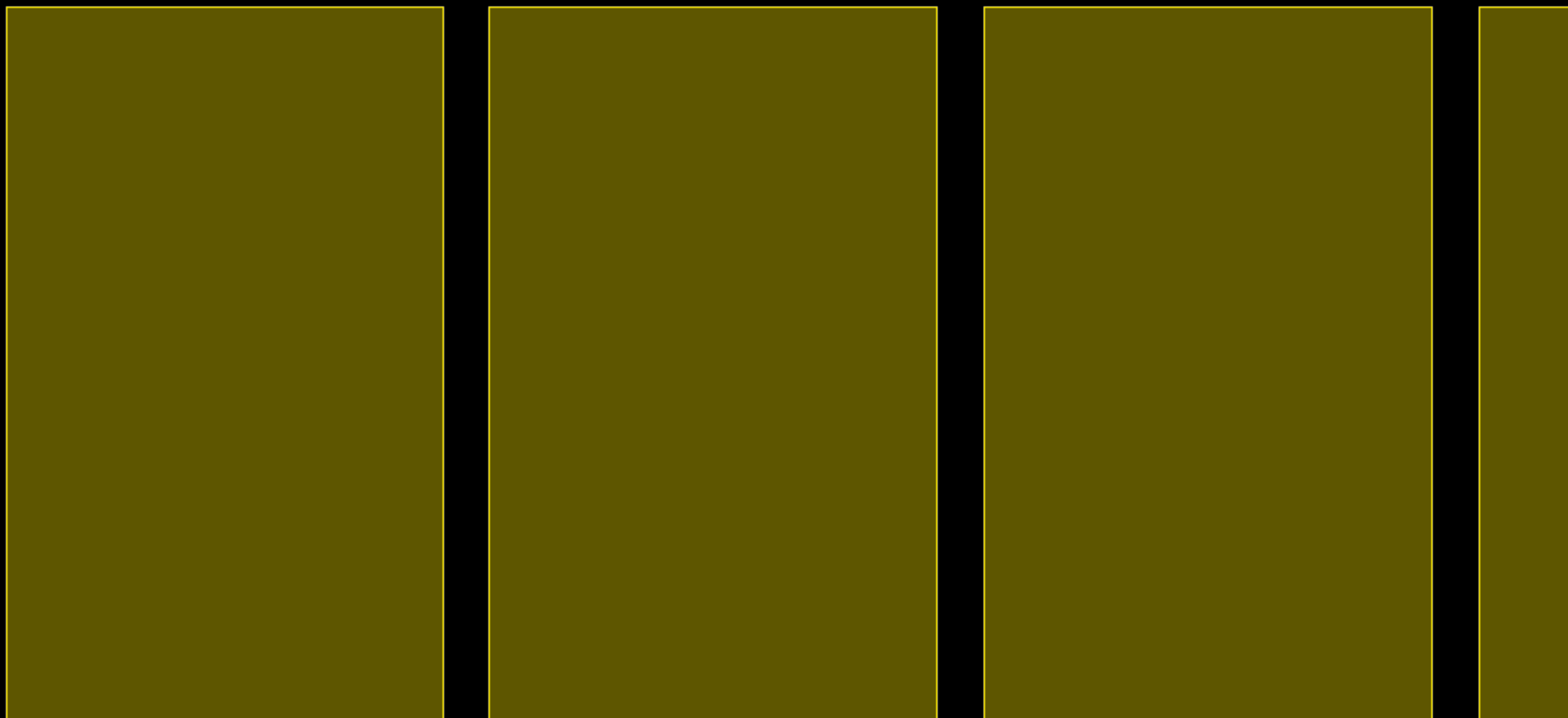
West Wales Holiday Cottages - desktop 3 · 990px width · 5 columns · 3% gutter

"West Wales Holiday Cottage"



West Wales Holiday Cottages - desktop · 990px width · 4 columns · 3% gutter

"West Wales Holiday Cottage 1"



West Wales Holiday Cottages - desktop 4 · 990px width · 4 columns · 3% gutter

"West Wales Holiday Cottage 3"

**“Grids can help you create
professional-looking designs”**

“Don’t just choose a grid. Design it!”

*–Nathan Ford
founder of Gridset*



ADOPT A MOUNTAIN GORILLA

Help us equip rangers to protect mountain gorillas in the wild. Your money pays for equipment, training and studying gorilla populations

880
IN THE WILD
CRITICALLY ENDANGERED

Share 98% of our DNA
Our closest relatives
Laugh and cry like us

- HELP US PROTECT vital gorilla habitat £3
- STOP GORILLAS catching our diseases £5
- TRAIN RANGERS to fight poaching £10
- CHOOSE AMOUNT £

ADOPT NOW

or make a single payment

PROTECT THESE INCREDIBLE ANIMALS AND RECEIVE



CUDDLY TOY
A soft toy to love forever



MAGAZINES
Two magazines, three times a year



FACT PACK
Packed with facts, bookmarks and stickers

MOST ENDANGERED

BIG CATS

GREAT APES

ALL SPECIES



AMUR LEOPARD
70
IN THE WILD



MOUNTAIN GORILLA
880
IN THE WILD



GIANT PANDA
1,864
IN THE WILD



BENGAL TIGER
3,200
IN THE WILD



BLACK RHINO
5,000
IN THE WILD

HELP BY DONATING

Donate by phone

0844 736 0036

7 days 8am-10pm

£10
COULD BUY

MOST POPULAR
£25
COULD BUY

£100
PAYS FOR A

£200
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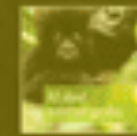
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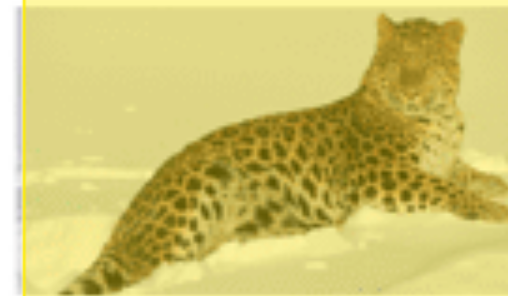
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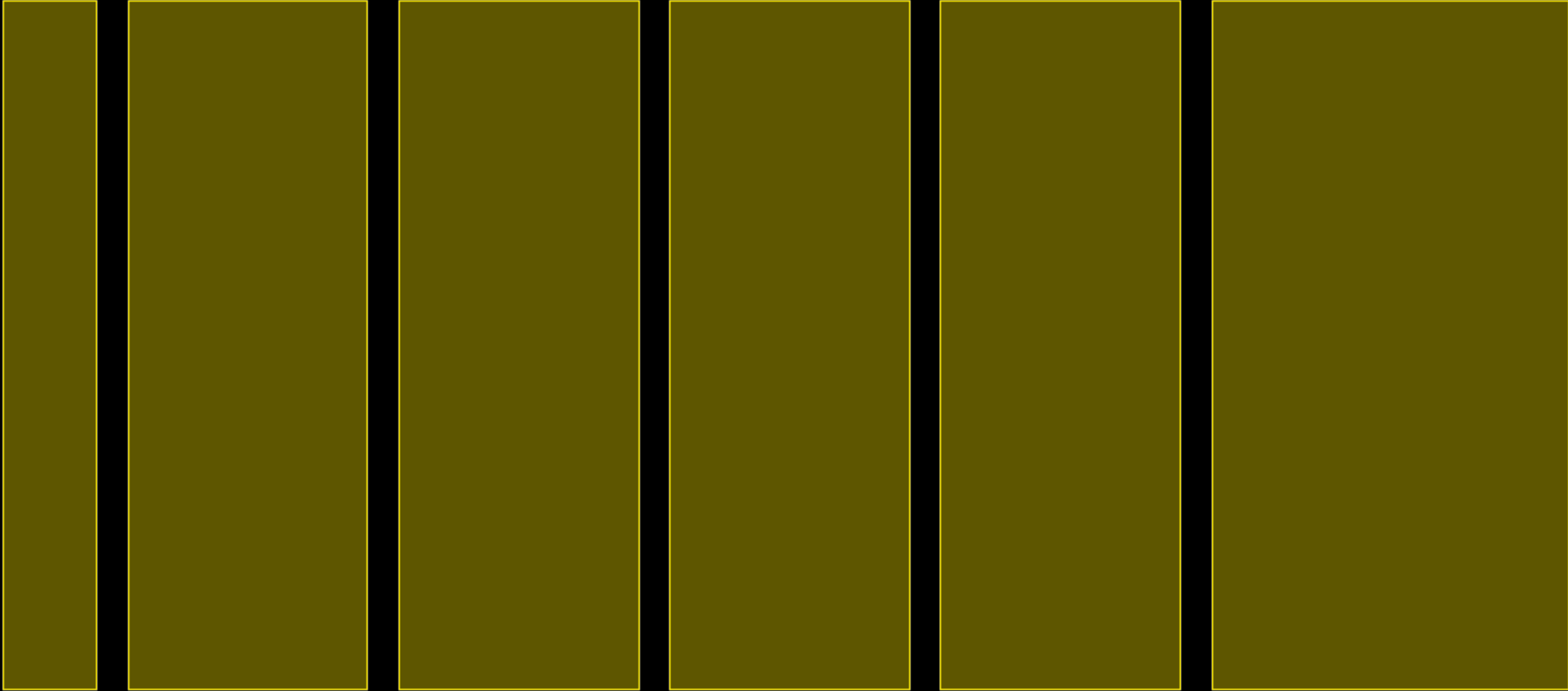
7 days 8am-10pm

£10
COULD BUY

MOST POPULAR
£25
COULD BUY

£100
PAYS FOR A

£200
COULD PAY FOR



WWF - large · 1024px width · 6 columns · 2% gutter

“WWF”



Design for successful digital products and websites

My name's [Andy Clarke](#). I'm a well-known website designer, consultant, speaker, and writer on art direction and design for products and websites.

For 20 years, I've helped companies big and small to improve their website and product designs by providing consulting and design expertise.

My work is distinctive and original and I deliver engaging customer experiences and world-class designs.



I'm based in beautiful North Wales and work with businesses, charities, companies, and NGOs all over the world. I regularly work alongside designers, developers, and leadership teams to create designs, processes, and systems which deliver results.

I consult with companies on art direction for the web, design systems, and style guides, [speak](#) at conferences world-wide, and write books about art direction and web design.

Website design

From my studio in [North Wales](#) I design creative and effective websites and engaging customer experiences for big businesses, [SVEs](#), [charities](#), and NGOs all over the world. I offer peace of mind that work will be carried out on time and on budget. ...

Consulting

I consult with agencies and media companies on delivering art direction and creative design for the web. I work with product companies to deliver consistent brand experiences across marketing and products. ...

Mentoring

Through creative training sessions and 1-1 coaching, I offer advice on how to develop your skills as a designer and build your business or career. I'll help you work through creative approaches to discover solutions that work for you. ...

I was driving on sidewalks,

down alleys. I ducked into one alley,

and then we saw the cops go by...

It was intense. It was very intense.

I got in pretty deep.



Getaway
Driver

ALL TRUCKS MUST BE WITHIN ARMY CLANE



I was driving on sidewalks, down alleys. I ducked into one alley, and then we saw the cops go by... It was intense. It was very intense. I got in pretty deep.

GEORGIA DURANTE'S LIFE has taken some unexpected turns. She was a photographic model for Kodak a "Kodak Girl"—who went on to work as a stunt driver. She was the stunt double for Cindy Crawford in a commercial for Pepsi. Going from modelling to television isn't unusual, but what Hollywood film crews didn't know was that in between, Durante's driving skills were honed during a career as a getaway driver.

In her late teens legendary mobsters such as Carlos Gambino, and Sammy Giancana, took Durante under their wing. Durante's driving story began in New York City at a mafia-run club called Sundowners. She says she never knew exactly what went down at the after-hours club, but the intrigue drew her into the underworld. She said:

"I'm there and 5 feet away from me, this guy pulls out a gun and shoots the guy. Everybody scattered, the guy fell to the floor!"

Suddenly, the owner of Sundowners threw Durante a set of car keys. They put the man in the back of the car and Durante found herself in the driver's seat. They dropped the injured man off in front of the hospital, and Durante sped away.

That incident earned her a reputation. She started off picking up and delivering packages to locations around the city. Then they moved her up to what were called "pickups." But when a mob war broke out, Durante knew she had to leave that lifestyle. She wanted to take her daughter away from their abusive household, but she could never escape her husband. Then one day, she grabbed her daughter, got in the car and started driving. They ended up in Los Angeles; Durante arrived with only \$7 in her wallet. She and her daughter lived out of their car and stole food from convenience stores.

Then it hit her: Every time she turned on the TV she would see a car commercial. For someone on the run, it was perfect. At first, everyone ignored her. But Durante kept showing up.

"Finally, they said, 'All right, we'll see what you can do.' And that was my big break," she says. "Before I knew it, I was turning down work. I was only one person I couldn't do it all."

"If I would've taken no for an answer, who knows where I'd be now." ♦



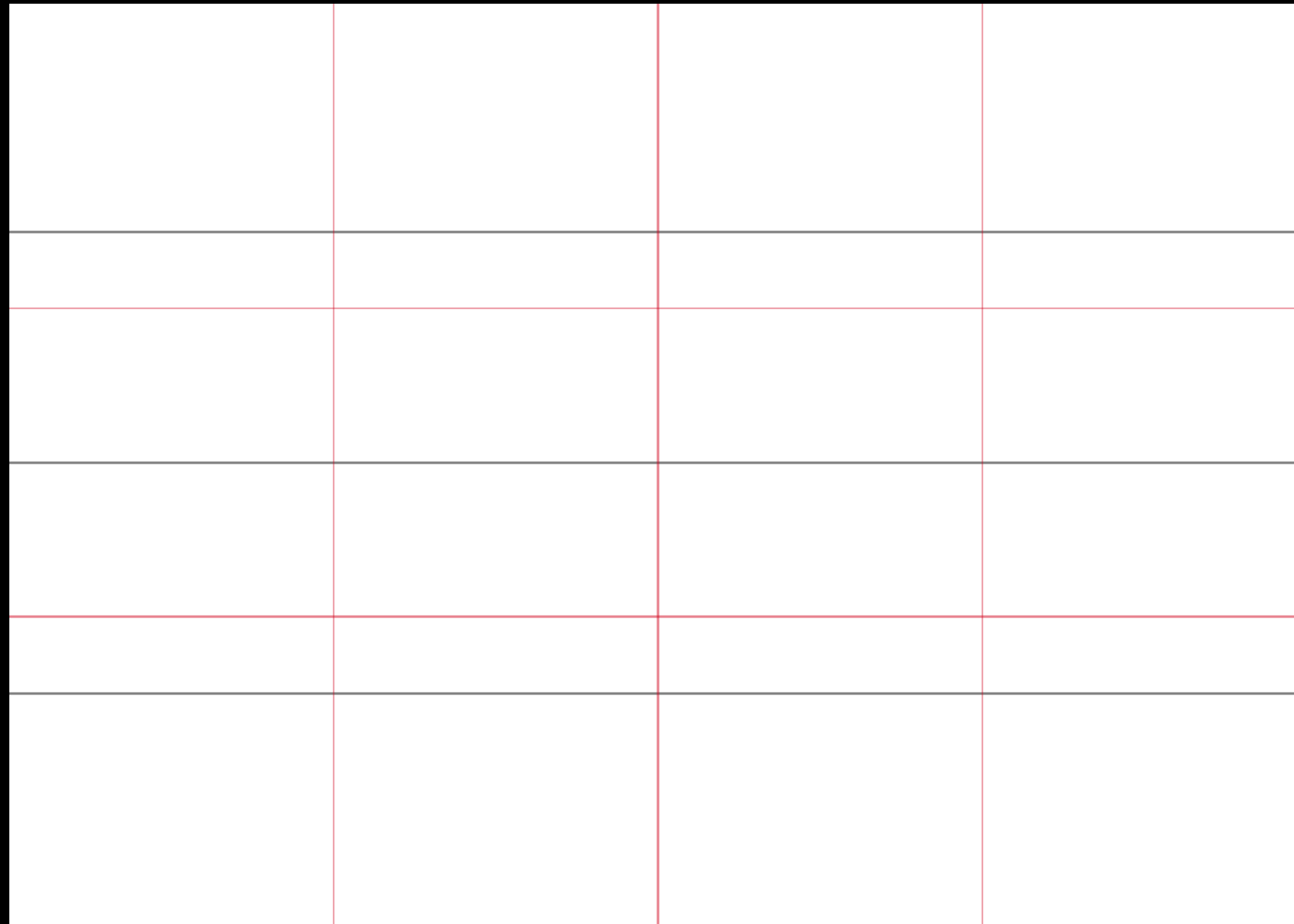
ART: THECROWD/STYLING: KUTIRRA/AMV CLARE



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sidewalks, down
alleys. I ducked into
one alley, and then we
saw the cops go by...
It was intense. It was
very intense. I got in
pretty deep

ALL THE CHUCKLES WERE MY OWN, CLARE





Compound grid of $\frac{1}{4}$ and $\frac{1}{3}$ lines



LAX

**Los Angeles
International Airport**



Brown Pelican

An unmistakable bird of coastal waters. Groups of Brown Pelicans fly low over the waves in single file, flapping and gliding in unison.

Their feeding behavior is spectacular, as they plunge headlong into the water in pursuit of fish. The current abundance of this species in the United States represents a success story for conservationists, who succeeded in halting the use of DDT and other persistent pesticides here; as recently as the early 1970s, the Brown Pelican was seriously endangered.



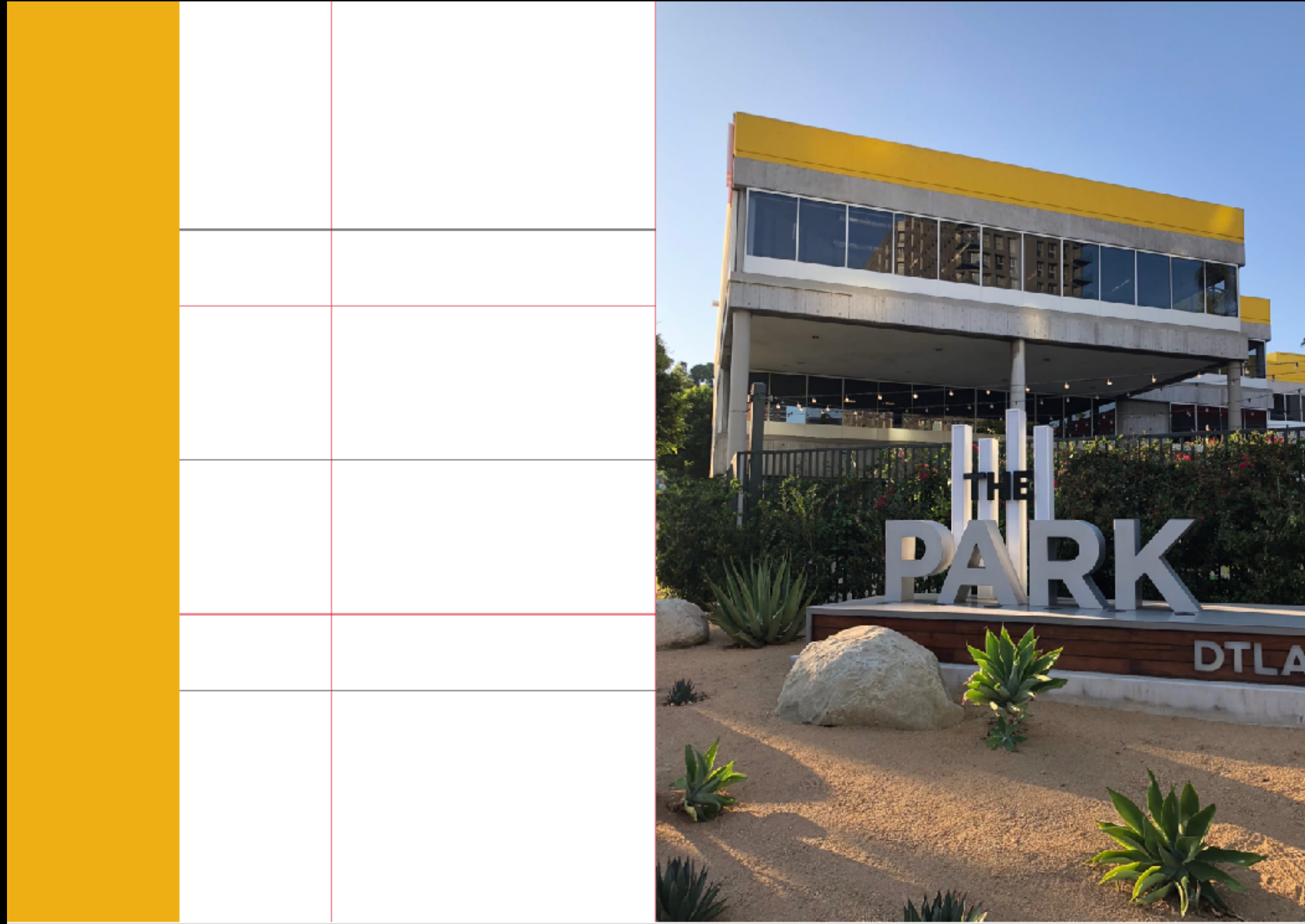


The Theme Building is an iconic Space Age structure at the Los Angeles International Airport.

The distinctive white building resembles a flying saucer that has landed on its four legs. The initial design was created by James Langenheim, of Pereira & Luckman in 1959.

The appearance of the building's signature crossed arches as homogeneous structures is a design illusion, created by topping four steel-reinforced concrete legs extending approximately 15 feet above the ground with hollow stucco-covered steel trusses. To counteract earthquake movements, the Theme Building was retrofitted in 2010 with a tuned mass damper without changing its outward appearance.







The image shows the front cover of the book 'The New CSS Layout' by Rachel Andrew. The cover is a solid blue color. The title 'THE NEW CSS LAYOUT' is printed in large, white, sans-serif capital letters. Above the title, the author's name 'Rachel Andrew' is printed in a smaller, white, sans-serif font. Below the title, it says 'FOREWORD BY JEN SIMMONS' in a smaller, white, sans-serif font. The book is shown at an angle, with its spine visible on the left. A small black circular sticker with the number '25' is on the top left corner of the cover. A semi-transparent dark grey rectangle is overlaid on the right side of the cover, containing white text.

Rachel Andrew

THE NEW CSS LAYOUT

FOREWORD BY JEN SIMMONS

Take advantage of this pivotal moment in the evolution of layout.



Rachel Andrew

Rachel Andrew is a British web developer, author and speaker known for her expertise in HTML, CSS, JavaScript and PHP. Photo by Drew McLellan

**“If I can leave you with any advice, it is to
make room for time to play with new things.”**

–Rachel Andrew

Thank you.

<https://speaking.scottgruber.me>