

Image: 3D rendering of SARS-CoV-2

The COVID-19 Illustration, Renegade choreography on TikTok, the Impossible Vegan Burger and a clean water sanitation project with Jaden Smith: Design Museum announces Beazley Designs of the Year nominees

Wednesday 21 October – Sunday 28 March 2021
the Design Museum

The Design Museum announces 74 nominees for the thirteenth annual exhibition and awards - revealing the most game-changing designs of the last year

Nominees include 15-year-old Jalaiah Harmon, creator of online dance sensation Renegade, a set of plasters suitable for a range of skin tones by Nuditone, virtual musician, social activist and model Lil Miquela, the set design for award-winning film *Parasite*, The Uncensored Library in Minecraft and a low-cost modular school that can be built and dismantled in a few hours

Health and sanitation are major themes in this year's awards, as seen in the Water Box Mobile Filtration System supported by Jaden Smith, the Leishenshan Hospital constructed in Wuhan by 10,000 workers in 10 days, the world's first reusable cotton swab and a self-sanitising door handle.

Opening on Wednesday 21 October, the Design Museum in London announces the thirteenth edition of Beazley Designs of the Year. The annual exhibition and awards features 74 nominations across six categories: Architecture, Digital, Fashion, Graphics, Product and Transport. Nominated by a panel of distinguished international designers, curators, critics and the general public, the awards showcase the most impactful products and concepts from designers around the world.

Displayed through sketches, models, prototypes, videos and photography, visitors will be guided through the nominations chronologically via a timeline of 2019 offering a snapshot of the world through the lens of design.

Visitors will uncover how designers are using technology to challenge prejudice and censorship in the digital category, from a **virtual open library created in Minecraft** to bypass censorship in oppressive regimes, to **video installation 'US & THEM' dissecting Asian stereotypes in pop culture**. Get to know **Lil Miquela**, a virtual musician, social activist and model with over 5 million followers; listen to the **haunting multi-layered soundscape of award-winning TV drama series Chernobyl**, and try out the **viral 15-second 'Renegade' dance performance by Jalaiah Harmon**, which dominated the TikTok

Witness the social media sensation **'The Balloon Dress' as presented by Nordic designer Fredrik Tjørandsen** for his graduate catwalk alongside a set of 80 videos known as **the Sari Series** developed and shared online by Border&Fall to shift perceptions of the traditional garment. **A suitcase designed solely from second-hand shoes** is also nominated in the fashion category along with a pair of **Catwalk Superstars by Helen Kirkum and Bethany Williams** and **Phoebe English's Nothing New collection**.

Featuring leaps in scientific design with **the first AI-designed living organism, the Xenobot**, and the **'Ooho' plastic-free edible hydration capsules**, the product category highlights leading designs to combat growing waste streams in homes and industries globally. Nominations include **a home-compostable bioplastic that can be safely consumed by wildlife; non-hazardous circuit chipboard that dissolves in hot water; the air pollution-reducing 'Förändring' homeware collection by IKEA, Nike's Zoom running trainer and 'DO Black', the world's first carbon-conscious credit card**.

Explore how architects around the world have rapidly responded to complex social and environmental conditions. From **an experimental low-income housing project in Mexico in line with the country's nine climactic zones** and the **'ModSkool' in India built to be easily dismantled following forced farmland evictions**; to the **Leishenshan Hospital in Wuhan, China, which alerted the world to the imminent threat of COVID-19**, constructed in only twelve days by 10,000 workers. The architecture category also features the **set design for Oscar-winning South Korean film Parasite by Lee Ha Jun**, where events unfold in two houses specially designed for the film.

See how **gender bias in female diagnosis for heart conditions was visualised** with teams at MIT and Harvard as part of this year's graphics nominations. From the **first ever memorial created for a deceased glacier** in Iceland to the '**Bleached Coral**' project, a critical response to Pantone's choice of colour of the year 'Living Coral' – discover how illustration, typography and graphics have been used to raise awareness of the devastating effects of climate change. Also included in the graphics category **are 20 posters for the Tokyo 2020 Olympic and Paralympic games**, including 'Wild Things Hachilympic' by Tomoko Knonike and the **3D rendering of SARS-CoV-2 (known as COVID19)** created by the US health organisation Centers for Disease Control and Prevention to help raise public awareness of the oncoming pandemic.

From new forms of connection to bringing movement to a standstill, the transport section includes non-conventional innovations such as the **brick arches developed by pro-democracy protestors in Hong Kong** to slow down police vehicles, a destination see-saw to promote connection between communities **at the border between the US and Mexico known as the 'Teeter-totter'** and a **smart bus stop in Sweden**, where the use light and sound alerts travellers to the next bus.

A winner will be selected in each category and one overall winner will be announced on Thursday 26 November 2020. Previous winners have included Anatomy of an AI System by Kate Crawford and Vladan Joler, Forensic Architecture for their Counter Investigations Exhibition, Sir David Adjaye OBE for the National Museum of African American History and Culture in Washington D.C, London 2012 Olympic Torch by Edward Barber and Jay Osgerby and Human Organs-on-Chips by Donald Ingber.

– ENDS –

Full list of nominee descriptions to be found below.

NOTES TO EDITOR

The Design Museum is the world's leading museum devoted to contemporary architecture and design. Its work encompasses all elements of design, including fashion, product and graphic design. Since it opened its doors in 1989 the museum has displayed everything from an AK-47 to high heels designed by Christian Louboutin. It has staged over 100 exhibitions, welcomed over seven million visitors since November 2016 and showcased the work of some of the world's most celebrated designers and architects including Paul Smith, Zaha Hadid, Jonathan Ive, Frank Gehry, Eileen Gray and Dieter Rams. On 24 November 2016, The Design Museum relocated to Kensington, west London. Leading architect John Pawson converted the interior of a 1960s modernist building to create a new home for the Design Museum giving it three times more space in which to show a wider range of exhibitions and significantly extend its learning programmes.

designmuseum.org

Beazley is proud to partner with the Design Museum and to support the Beazley Designs of the Year.

As a specialist insurer Beazley is well placed to understand the value of good design. It sees first-hand the consequences when things go wrong, and its products and services are expertly designed to assist individuals, communities and businesses when they most need help.

beazley.com

Previous Design of the Year Winners:

2019 Anatomy of An AI System by Kate Crawford of AI Now Institute and Vladan Joler

2018 Counter Investigations Exhibition by Forensic Architecture

2017 Sir David Adjaye OBE for the National Museum of African American History and Culture in Washington D.C

2016 Better Shelter by Johan Karlsson, Dennis Kanter, Christian Gustafsson, John van Leer, Tim de Haas, Nicolò Barlera, the IKEA Foundation and UNHCR

2015 Human Organs-on-Chips by Donald Ingber and Dan Dongeon Huh at Harvard University's Wyss Institute

2014 Heydar Aliyev Center by Zaha Hadid Architects

2013 GOV.UK – UK Government website by GDS

2012 London 2012 Olympic Torch by Edward Barber and Jay Osgerby

2011 Plumen 001 by Samuel Wilkinson and Hulger

2010 Folding Plug by Min-Kyu Choi

2009 Barack Obama Poster by Shepard Fairey

2008 One Laptop Per Child by Yves Béhar

2020 Judges:

Razia Iqbal, Broadcast Journalist at BBC News (Chair)

Edwin Heathcote, Architecture & Design Critic at The Financial Times

Matt Jones, Principal Designer at Google AI

Dr Philipp Rode, Executive Director of LSE Cities

Samuel Ross, Founder and Creative Director of A-COLD-WALL*

Seetal Solanki, Founder and Director of Ma-tt-er

Camille Walala, Artist

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OPENING TIMES AND TICKET INFORMATION:

Exhibition Prices:

Adult £12.00

Child (6 - 15 years) £6.50

Student/concession* £9.50

Family (1 adult + 3 children) £18.50

Family (2 adults + 3 children) £27.50

Members go free

Exhibition Design

2D Designer: Veronica Ditting

Veronica Ditting is the creative director of her namesake studio. Based in London but with an international client list, the practice works with fashion houses, artists and art institutions on a wide range of projects of varying scale and intricacy. Veronica is the creative director of the award-winning biannual women's magazine *The Gentlewoman*, which has been designed and produced in collaboration with Studio Veronica Ditting since its first edition in 2010. Studio Veronica Ditting is characterised by a strong signature that is resolutely editorially driven, working closely with photographers, artists, editors and writers to realise ideas at their most definitive. Recent clients have included Hermès, Miu Miu, John Lobb, adidas, Tiffany & Co; and the art institutions Somerset House and Het Nieuwe Instituut.

3D Designers: Kollektiv

The design kollektiv is a London-based studio specialising in exhibition design, led by Line Lund and Jane Scherbaum. The pair met whilst working for the Victoria and Albert Museum's in-house design team and they are now working across exhibition, environmental, architectural and graphic design, offering their expertise to a wide range of museums, galleries and cultural organisations. The 'kollektiv' draws from an extensive network of creative collaborators which has evolved and expanded throughout Line and Jane's careers in the industry, giving them the flexibility to tailor their team for each project. Recent clients include The Ashmolean Museum, Basecamp Maasai Mara, V&A Dundee and BAFTA.

Line frequently gives lectures on exhibition design both in the UK and in her home country of Norway. Jane advises organisations on design strategy and is a regular panel member for design and illustration awards. She has also served as a member of the D&AD Executive.

NOMINEES

Architecture



Name: Goldsmith Street, Norwich

Designers: Mikhail Riches with Cathy Hawley

One-line description: A GREEN SOCIAL-HOUSING SCHEME

Paragraph description: This project consists of 105 affordable new homes, built for Norwich City Council. It is one of the largest schemes in the UK to adhere to the voluntary Passivhaus building standard for energy efficiency. Using traditional British brick and roof-tiles, the design seeks to reintroduce streets and houses into an area of the city that is otherwise dominated by blocks of flats. At 14 metres, road widths are intentionally narrow, emulating the scheme's nineteenth-century predecessors elsewhere in the city. A shared alley, accessible only from the back gardens, creates a secure place for children to play. The landscaping extends beyond the boundaries of the site to include local roads and a park, melding the development into its environment.



Name: Housing No.8 (Laboratorio de Vivienda)

Designers: MOS Architects

One-line description: A SET OF PROTOTYPES FOR SOCIAL HOUSING

Paragraph description: Housing No.8 is a group of thirty-two experimental projects by Mexican and international architects. The New York-based architecture practice MOS created the master plan for the nine-acre site in the Mexican city of Apan and designed the linear education centre that serves as its entry point. Each of the prototype low-income dwellings responds to one of Mexico's nine climatic zones and all the proposals are forms of vernacular construction, which means that they draw on traditional building methods. As such, they have the potential for growth by repeating or adding units.



Name: *L'Arbre Blanc*

Designers: Sou Fujimoto Architects, Nicolas Laisné, Dimitri Roussel and OXO Architectes

One-line description: A RESIDENTIAL TOWER INSPIRED BY TREES

Paragraph description: This multipurpose tower, located in the French coastal city Montpellier, contains housing, as well as a restaurant, art gallery, offices and a common area. Designed by Japanese architecture practice Sou Fujimoto, the building's name translates from French as 'the white tree'. Hundreds of generous balconies fan out from its facade, like leaves soaking up sunlight – designed to encourage residents to gravitate outside. The architects were inspired by Montpellier's outdoors culture and warm climate.



Name: Leishenshan Hospital

Designers: 10,000 workers

One-line description: A HOSPITAL BUILT IN TWELVE DAYS

Paragraph description: To deal with the colossal numbers of coronavirus cases, the Wuhan municipal government ordered a makeshift hospital to be built. The work of 10,000 construction workers over twelve days, it contained 32 zones for patients and 1,500 beds. Time-lapse footage of the build was shown across news channels, alerting the world to the imminent

threat of the coronavirus. The modular design for the hospital is based on a temporary field hospital.



Name: Lin'an History Museum

Designers: Amateur Architecture Studio

One-line description: A MUSEUM BASED ON A LANDSCAPE PAINTING

Paragraph description: Lin'an History Museum is located in the Lin'an District, west of Hangzhou, a major city in the east of China. The collections follow the story of the Qian family who established a local kingdom in the eighth century AD during the peak of Chinese porcelain production and landscape painting. Amateur Architecture Studio wanted the design for the museum to reflect the collections. It does so through a mixture of buildings and landscapes inspired by those depicted in idealised forms in Chinese paintings. The building is enclosed by mountains and faces a river, harmonising with its natural context.



Name: Material Institute

Designers: Assemble with Material Institute and MONA

One-line description: A FASHION SCHOOL CREATED BY ARCHITECTS

Paragraph description: Material Institute is a free education and community space dedicated to the design and manufacture of textiles and fashion in New Orleans. The Institute's education programme focuses on hands-on experimentation, drawing on craft techniques, technology and international expertise. Co-founded and designed by London-based architects Assemble, it involved the transformation of a former car mechanics' garage. Sections of cinder blocks were removed and large windows added, leaving a series of visible openings with rugged edges. The workshop furniture was designed and welded on site by Assemble, who worked closely with staff and students.

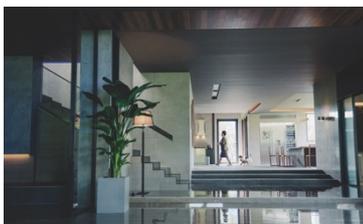


Name: ModSkool

Designers: Social Design Collaborative

One-line description: A SCHOOL BUILT TO BE DISMANTLED

Paragraph description: ModSkool is a school that is designed to be easily erected and dismantled in response to forced evictions of farming communities on the floodplains of the Yamuna river in India. First built in 2017 in less than three weeks by students, school staff, parents and local volunteers, the school was dismantled two years later due to land-ownership issues. The new school, relocated further south, was held together with the form of weave used for a charpoy, a multifunctional piece of furniture traditionally used as a daybed. The school's design mirrors its teaching methods, which focus on a holistic education that includes issues of sustainability.



Name: *Parasite* set design

Designers: Lee Ha Jun

One-line description: A HOUSE BUILT FOR AN OSCAR-WINNING FILM

Paragraph description: At last year's Oscars, the South Korean black comedy thriller *Parasite* became the first foreign-language movie to win best film. The events unfold in two houses, examining the complex class dynamics between two economically disparate families. In the film, the house is located in Seoul, owned by the wealthier family in the story and designed by fictional architect Namgoong Hyeonja. Set designer Lee Ha

Jun based the entire scheme for the house on one simple sketch by the film's director, Bong Joon Ho. The set mirrors prevalent themes in the narrative: paths block certain positions, forcing characters to spy on one another. The house is minimal, uncluttered and large, playing with the material density of class difference.



Name: UCCA Dune Art Museum

Designers: OPEN Architecture

One-line description: A MUSEUM EMBEDDED IN THE DUNES

Paragraph description: The UCCA Dune Art Museum is carved into a sand dune on a quiet beach on the coast of northern China. By creating a structure that is embedded in the sand, the architects hope to defend the vulnerable coastal ecosystem against ocean-view property developments that have destroyed other dunes. Local workers, some of them former shipbuilders, shaped the complex three-dimensional geometry of the museum's concrete shell by hand. Inside, a series of cave-like spaces open up to skylights that provide natural light at all times of the year.



Name: Z33: House for Contemporary Art, Design and Architecture

Designers: Francesca Torzo

One-line description: A CONTEXTUALLY SENSITIVE MUSEUM EXTENSION

Paragraph description: Located in Hasselt, Belgium, Z33's original 1958 building is one of a group of structures that once housed the city's 'beguinage', a house for religious laywomen. The new extension reinterprets the surrounding eighteenth-century buildings and faces largely away from the street towards a central garden. The unit of the building is the rhombus brick, which is cast in three types of clay. In contrast to the classical layout of the original building, the extension offers an ensemble of galleries that vary in size, proportion and lighting.

Digital



Name: A Rapist in Your Way ('Un violador en tu camino')

Designers: Colectivo LASTESIS (Daffne Valdés Vargas, Paula Cometa Strange, Lea Cáceres Díaz and Sibila Sotomayor Van Rysseghem)

One-line description: A PROTEST PERFORMANCE AGAINST SEXUAL VIOLENCE

Paragraph description: A protest performance denouncing sexual violence against women and LGBTQ communities, A Rapist in Your Way was devised by the Chilean feminist arts group Colectivo LASTESIS. It is rooted in studies of rape in Latin America, specifically the work of the Argentine anthropologist Rita Segato. The first performance in Valparaíso in November 2019 highlighted the use of political-sexual violence by the police during a recent social uprising. It has been replicated by protestors in Chile and around the world in multiple languages.



Name: *Chernobyl* Sound Design

Designers: Joe Beal, Hildur Guðnadóttir, Stefan Henrix and Stuart Hilliker (Sound), SISTER, The Mighty Mint and Word Games (Production), HBO and Sky Atlantic (Networks)

One-line description: A HAUNTING TV DRAMA SOUNDSCAPE

Paragraph description: Centred around the 1986 nuclear disaster at the Chernobyl power plant in Soviet Ukraine, this award-winning drama series recreates a number of sound details. The sound designers used an array of bespoke recordings, manipulated audio effects, recordings of everyday sounds and re-recorded dialogue to design an immersive, multi-layered soundscape. They worked with a sound team across Europe to record authentic analogue sounds, including Ukrainian fire-engine sirens and Russian tape-machines.



Name: ICEYE One-Metre Radar Satellite Imaging

Designers: Rafal Modrzewski and Pekka Laurila

One-line description: A HUMAN-SCALE SATELLITE CAPABLE OF DETECTING SMALL DETAILS

Paragraph description: ICEYE's radar satellite imaging technology is the first to achieve better than one-metre resolution using a satellite that weighs under 100 kilograms. Its innovative technology is part of the widespread commercialisation of the space sector. Very high-resolution radar satellite images are uniquely helpful, both for distinguishing small objects and for accurately classifying larger ones, such as boats. ICEYE's radar imaging satellites are used for emergency response and environmental monitoring, as well as gathering information for the insurance and security sectors.

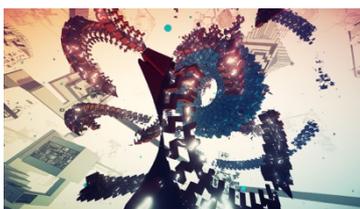


Name: Make Your Own Masters

Designers: Stacie Woolsey

One-line description: A FREE, SELF-INITIATED MASTER'S DEGREE IN DESIGN

Paragraph description: Unable to afford the fees to undertake a postgraduate degree in design, Stacie Woolsey decided to set up her own master's programme. She approached four designers whom she admired – Seetal Solanki, Alexandra Daisy Ginsberg, Thomas Thwaites and Room Y – and asked them to send her a brief to respond to. She then sourced studio space and mentorship. Completing her master's in 18 months, she has since opened the project to ten new learners. On display here are some of the objects she made as part of her own degree, as well as feedback from Make Your Own Masters alumni.



Name: Manifold Garden

Designers: William Chyr, Arthur Brussee, Laryssa Okada and Martin Kvale

One-line description: A GAME DESIGNED BY AN ARTIST

Paragraph description: Manifold Garden is a video game designed by American artist William Chyr. Known for creating massive balloon sculptures, Chyr wanted to work in a creative medium without any spatial limitations. He designed the game so that it did not need any obvious instructions. Players enter an initial puzzle that requires them to take a leap into the game's repeating geometries. Over time, it becomes clear that falling off leads you back to where you started. The virtual environment is enhanced by architecture that would be impossible in the physical world, and a painterly palette of purples, blues and white.



Name: Miquela

Designers: Founder and CEO: Trevor McFedries; Co-founder: Sara DeCou; Chief Content Officer: Nicole de Ayora; Head of Design: Isaac Bratzel; President: Kara Weber; General Manager Lauren Goulston

One-line description: A VIRTUAL TEENAGER WITH A POINT OF VIEW

Paragraph description: The character Miquela Sousa, or Lil Miquela, is the creation of LA start-up Brud and continues to be managed by a team of artists and technologists. She is a virtual musician, social activist and model who has come to be hailed as a 'global pop star' and 'Gen Z icon'. Her entirely virtual existence spans Instagram, TikTok and TV, with five million followers and more than fifty million streams across platforms. Miquela identifies as a 'change-seeking robot' and the character has supported the Black Lives Matter movement since her launch in 2016. The figure has been called out for perpetuating oppressive beauty standards and coopting minority identities.



Name: NAE Cities Index

Designers: Li Lai, Briteweb, Andrew Lim and Nan Wu

One-line description: AN INDEX TO MEASURE IMMIGRANT INTERGRATION

Paragraph description: The New American Economy (NAE) is a bipartisan research organisation campaigning for immigration policies that can help grow the US economy and create more employment opportunities. The NAE Cities Index evaluates immigrant integration by measuring local immigration policies and socioeconomic outcomes in the 100 largest cities in the US. This interactive index examines each city's policies using a variety of unique metrics and allows those who use it to compare locations. NAE aims to track the level of immigrant integration in American cities over time to provide a more comprehensive tool for citizens, researchers and policymakers.



Name: The Renegade Dance Challenge

Designers: Jalaiah Harmon

One-line description: A FIFTEEN-SECOND VIRAL DANCE PERFORMANCE

Paragraph description: Atlanta-based Jalaiah Harmon choreographed the Renegade Dance Challenge in less than ten minutes before going to a dance class. Set to the song 'Lottery' by K CAMP, it is a mash-up of popular moves such as the 'Woah' and 'Dab', and is just one of many dances she has created. First performed in her bathroom and filmed on her mobile phone, the dance went online in September 2019. Within a month, it had gone viral on TikTok. But Jalaiah only received credit for it in February 2020, when Barrie Segal of the dance-sharing app Dubsplash discovered that she was its author.



Name: The Irishman De-Ageing Technology

Designers: Industrial Light & Magic (ILM)

One-line description: AN AGE-DEFYING VFX TECHNOLOGY

Paragraph description: Epic crime drama The Irishman used innovative technology to depict its characters ageing over five decades. This enabled director Martin Scorsese to allow veteran actors Robert De Niro, Al Pacino and Joe Pesci to act freely, without being held back by the tracking dots otherwise used to generate such effects. Visual effects company ILM developed a new three-camera rig to capture the actors' visual data. In addition, thousands of images of the actors were documented from other films, showing each individual's face at various angles and in different

lighting. This enabled their visual data to be cross-referenced against images of them at different ages using AI.



Name: The Uncensored Library

Designers: Design: Reporters Without Borders in collaboration with DDB Germany; Architect: blockworks; Production: MediaMonks; Strategy: The Humblebrag

One-line description: A VIRTUAL LIBRARY FOR EVADING CENSORSHIP

Paragraph description: The Uncensored Library is an open library within the computer game Minecraft. It contains journals and articles that are banned in several countries where the media is controlled, thus bypassing press censorship by oppressive regimes. The library houses information on all 180 countries on the Press Freedom Index. It also contains virtual 'exhibition halls' on five countries that are notorious for their press censorship: Russia, Vietnam, Mexico, Egypt and Saudi Arabia. Designed by blockworks, an architecture firm that works uniquely on Minecraft, it is the creation of twenty-four builders from sixteen countries.

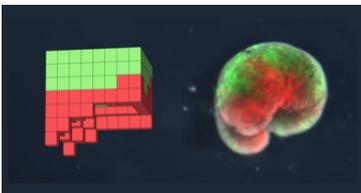


Name: US & THEM

Designers: Alice Wong with Aryan Javaherian

One-line description: A VIDEO COLLAGE EXPOSING WESTERN PREJUDICE

Paragraph description: The video installation US & THEM brings together a host of visual and auditory sources, from historical photographs to examples of pop culture such as The Simpsons, to dissect problematic stereotypes of 'the Asian'. Originally presented at Dutch Design Week, the video is shown on a loop, with no distinct beginning or end, and is projected on gauze to give the images a dreamlike quality. As the sequence rolls around, the notion of a singular Asian 'other' is revealed as a figment of the Western imagination.



Name: Xenobot

Designers: Doug Blackiston, Josh Bongard, Sam Kriegman and Michael Levin

One-line description: AN ORGANISM DESIGNED BY A COMPUTER

Paragraph description: Scientists in artificial intelligence and molecular biology have teamed up to create the first entirely computer-designed organism: the Xenobot. Made from living skin cells from frog embryos, these microscopic creatures can heal themselves after being cut and move towards a target. An algorithm was trained to simulate cells in a virtual environment. It then detected whether the simulated organism could move. Those that could were taken forward to develop 'child' Xenobots; those that could not were removed from the programme. This pathbreaking project raises fundamental questions about the ethics of evolutionary biology and AI.



Fashion

Name: Adrift

Designers: Rui Zhou

One-line description: A SECOND SKIN KNITTED FROM ELASTICISED THREAD

Paragraph description: Since the fashion brand's launch early in 2019, Rui Zhou has concentrated on making the most intimate of clothing. Using an elastic knitted fabric, her garments create the illusion of an opaque 'second skin'. Through it, the beautiful imperfections of the wearer's actual skin are visible. The fabric is factory-knitted, with the imitation pearls and metal accessories that link the pieces together sewn by hand. This collection uses an organic silhouette, a minimalist aesthetic and detailed craftsmanship. The title, *Adrift*, refers to a young soul wandering the city, alone but open to encounters.



Name: Dakala Cloth – A New African Textile

Designers: Nkwo Onwuka

One-line description: A NEW RECYCLED TEXTILE

Paragraph description: Dakala cloth is a fabric that was developed by Nkwo Design Studio, based in Lagos, Nigeria, to reduce textile waste and preserve a traditional craft form. The team developed it through a technique that involves stripping and sewing together sections of waste fabric. The 'Be Us, Be Them' collection displayed here arranges the cloth on to a mesh and into a form that appears like a set of solar panels.



Name: *Kalank* costume design

Designers: Manish Malhotra

One-line description: A SET OF OPULENT PERIOD COSTUMES

Paragraph description: The costumes for Abhishek Varman's period drama *Kalank*, set in pre-Partition India, were designed by costume and fashion designer Manish Malhotra. These were Malhotra's first costumes for a period drama. They take inspiration from films of the period, as well as first-hand accounts and research into popular styles and textiles of the 1940s. Displaying an opulent range of styles and silhouettes, each character is given a distinct visual identity that develops through the film.



Name: Moments of Clarity Collection

Designers: Fredrik Tjørandsen

One-line description: A DEFLATING FASHION COLLECTION

Paragraph description: Norwegian fashion designer Fredrik Tjørandsen presented this collection for his undergraduate degree show at Central Saint Martins. It soon went viral, with the designer gaining 25,000 Instagram followers overnight. Models wearing his balloon dresses walked down the runway to the ethereal song 'Love', composed and performed by Mica Levi for the film *Under the Skin*. After the show, the dresses deflated on to the models' bodies, enveloping them within the material. Tjørandsen's use of natural latex rubber balloons is intended as a metaphor for the human psyche. Inside, wearers have their own space, as if at home in their thoughts.



Name: Nothing New

Designers: Phoebe English, Clara Jedrecy, Nataliya Brady and Ellie Grace Cumming

One-line description: A FASHION COLLECTION MADE FROM NOTHING NEW

Paragraph description: True to the title of this collection, London-based fashion designer Phoebe English is known for using non-virgin materials. For this collection, deadstock and surplus materials were sourced as 'waste'

from other design studios across London to minimise distance and carbon footprint. Nothing was flown or shipped, with the entire collection made from 'Nothing new' and from 'everything from here'. The quilted jacket displayed here is made from a series of tubes cut with a zero-waste pattern cutting technique and sewn from this surplus fabric. They have been filled with the silk organza offcuts left over from the manufacturer process of the previous collection and then shredded to be used as filling.



Name: Reconstructed Superstars, Spring/Summer 2020 Collection

Designers: Helen Kirkum with Bethany Williams

One-line description: A RECONSTRUCTED SNEAKER

Paragraph description: Second-hand Adidas Superstar sneakers form the base of these reconstructed shoes, made by sneaker artist Helen Kirkum in collaboration with fashion designer Bethany Williams. Waste materials from tents, the toy industry, and samples and scraps are cut and collaged on to each shoe. Each shoe in a pair is different, and each pair playfully crafted using a variety of recycled materials. Three pairs of the reconstructed sneakers had their debut as part of Bethany Williams' Autumn/Winter 2020 Collection at London Fashion Week, in collaboration with Magpie Project UK



Name: The Sari Series

Designers: Border&Fall

One-line description: A DIGITAL ANTHOLOGY OF SARI DRAPES

Paragraph description: This digital anthology of more than 80 films documents in an accessible manner the numerous ways of draping a sari. A non-profit initiative, The Sari Series acts as a visual aid but also aims to shift perceptions of the garment, so that it is valued not only for its material quality but also for its styling. Since India's lockdown rules came into force in March, there has been a significant rise in men and women using The Sari Series as inspiration for taking part in various draping challenges on social media.



Name: Scrap Case

Designers: Nicole McLaughlin

One-line description: A SUITCASE MADE OF SHOES

Paragraph description: McLaughlin's Instagram account is full of eccentric bespoke upcycled garments. From bras humorously embellished with mini basketball nets to sliders made of sushi, her quirky designs have gained her widespread popularity. Once she has conceptualised an idea for a design, she trawls eBay and second-hand clothing stores for cheap materials. This is her 'scrap case', made from second-hand shoes that have been deconstructed then reconstructed to upholster a used suitcase. McLaughlin previously worked as a graphic designer at Reebok and her influences are varied.



Name: Telfar bag

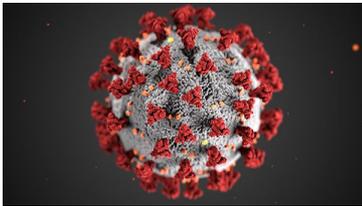
Designers: Telfar

One-line description: A VEGAN, ACCESSIBLE LUXURY BAG

Paragraph description: Dubbed 'the accessory of the decade' by Dazed, the vegan leather, non-gendered Telfar bag has become highly coveted. The bags are available in a wide array of colours, and in three sizes that

correspond to those of Bloomingdale's disposable shopping bags. They are priced according to the average earnings of a New York DJ for a single night's work. Telfar bags represent the brand's ethos that luxury should be both practical and financially accessible. Their popularity spread rapidly after the bag was awarded the CFDA/Vogue Fashion Fund in 2017, with restocks and new colours now selling out online in minutes.

Graphics



Name: 3D rendering of SARS-CoV-2

Designers: Alissa Eckert (MSMI) and Dan Higgins (MAMS)

One-line description: AN ILLUSTRATION OF A THREATENING VIRUS

Paragraph description: This is an image of the novel coronavirus, identified as Severe Acute Respiratory Syndrome coronavirus 2 (SARS-CoV-2), that causes the illness COVID-19. It was commissioned by the US health organisation Centers for Disease Control and Prevention (CDC), which opened its emergency operations centre for the COVID-19 outbreak in January 2020. The purpose of commissioning this image was to help raise public awareness of the oncoming pandemic. The image depicts the virus when viewed through a microscope: a speckled grey sphere with bright red spikes that create the now infamous crown-like appearance of the virus. Using lighting, texture, contrast and colour, Eckert and Higgins give the virus a beautiful yet threatening form.



Name: A *New* Program for Graphic Design

Designers: Author: David Reinfurt; Designer/Publisher: Shannon Harvey and Adam Michaels (Inventory Press); Editor: Eugenia Bell

One-line description: A TEXTBOOK FOR GRAPHIC DESIGN AND VISUAL LITERACY

Paragraph description: This do-it-yourself textbook is based on three courses – Typography, Gestalt and Interface – that were developed by David Reinfurt for liberal arts students at Princeton University. Synthesising pragmatic and experimental approaches, it builds on mid- to late-twentieth-century teaching models to explain advanced principles of graphic design to a general reader. Based on eight years of teaching, the book was produced over three days in Los Angeles, when Reinfurt compressed the semester-long course into six lectures, each lasting forty-five minutes. These lectures were recorded on video, transcribed and edited to form the content for the book.



Name: Babylon Berlin title design

Designers: Design: Saskia Marka; Music: Johnny Klimek and Tom Tykwer; Production Company: X Filme Creative Pool

One-line description: A TITLE SEQUENCE FOR A CRIME THRILLER

Paragraph description: Set in the Weimar Republic, the neo-noir crime drama Babylon Berlin follows a young police commissioner's secret investigation into the city's criminal underbelly. It was the most expensive TV show ever produced in Germany. The title sequence for the first and second series features Art Deco-style typography that shifts in colour and a kaleidoscopic sequence of clips. The hypnotic effect it creates – in interplay with the music – evokes the unsettling nature of life in 1920s Berlin.



Name: Breast Friends

Designers: Director: Caitlin Young; Sound Design: Ioannis Spanos; Sound Mix: Yin Lee; Voice Actor: Suzy Oxenham

One-line description: A SHORT ANIMATION EXPLORING WESTERN IDEALS OF BEAUTY

Paragraph description: This animated short film explores the conflicting and often comic effects of the pressure to conform to Western feminine beauty ideals on young women through the character Jessica, and her talking breasts. 2D animator Caitlin Young hand-drew the film and made extensive use of photocopied layers of texture, before the final animation was completed frame by frame in Photoshop. The film was screened at the BFI London Film Festival in 2019.



Name: Climax title sequence

Designers: Director: Gaspar Noé; Titles Designer: Tom Kan.

One-line description: A TITLE SEQUENCE FOR A PSYCHOLOGICAL HORROR FILM

Paragraph description: Psychological horror film Climax follows a dance company as they descend into a violent party, fuelled by hallucinogenic drugs. Appearing 40 minutes into the film, the pulsating title sequence is the second collaboration between graphic designer Tom Kan and film director Gaspar Noé. Noé shot and edited the dance sequence to Thomas Bangalter's 'What To Do', initially locking in the pace of the credits with a simple typeface. These were then replaced with Kan's vibrant custom graphics. As an homage to the film's creative team, each individual's name appears in its own unique font, inspired by their role in the film.



Name: Color of the Year: Bleached Coral

Designers: Designer: Huei Yin Wong; Writer: Jack Railton-Woodcock

One-line description: AN ALTERNATIVE 'COLOUR OF THE YEAR'

Paragraph description: Designer Huei Yin Wong and writer Jack Railton-Woodcock designed 'Bleached Coral' in critical response to Pantone's choice of 'Living Coral' as Colour of the Year 2019. The annual award by the colour-matching company has been forecasting colour trends since 2000, but 'Living Coral' was a controversial choice because at least half of the coral across Australia's Great Barrier Reef has been killed off during marine heatwaves since 2016. In opposition to the bright shade of coral selected by Pantone, 'Bleached Coral' refers to the off-white colour that coral morphs into when it is depleted.



Name: Cover art for *i,i* by Bon Iver

Designers: Eric Timothy Carlson and Aaron Anderson

One-line description: AN ALBUM ARTWORK CREATED ALONGSIDE THE MUSIC

Paragraph description: The musical and visual components for Bon Iver's fourth studio album were created in unison. Designer Eric Timothy Carlson spent six weeks at Sonic Ranch recording studio in El Paso, Texas, with the American folk band. The resulting artwork is made up of many parts: drawings and illustrations, icons, logos and typography, with the packaging of the album incorporated into the design process. The front features a collage of incense smoke over a photograph of the band in the desert.

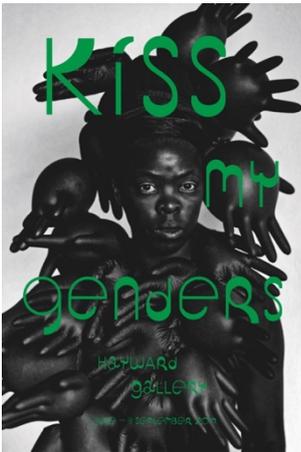


Name: Hellscape jigsaw

Designers: Artwork, Design and Concept: Christopher Spencer; Design and Concept: Carl Gosling; Packaging Design: Danny Mitchell; Manufacturer: Map Marketing

One-line description: A SATIRICAL JIGSAW

Paragraph description: Since 2016, Birmingham-based artist Cold War Steve, aka Christopher Spencer, has been posting satirical collages to his Twitter account that he made on his iPhone or iPad. His first jigsaw was released to mark the historic occasion of Britain's departure from the European Union. Based on The Triumph of Death by Pieter Bruegel the Elder, the Hellscape jigsaw features a cast of Brexit characters including Nigel Farage, Boris Johnson and Roger Daltry. Two versions are available: the original white box marked 'Made in the EU' and, from 11p.m. on 31 January 2020, a version in the blue of the new British passport, with the addition of 'Made in Britain'.



Name: Kiss My Genders graphic identity and typeface

Designers: Design: Studio Frith; Client: Hayward Gallery, London; Exhibition Curators: Vincent Honoré and Tarini Malik; Publisher: Hayward Publishing.

One-line description: A NON-CONFORMING TYPEFACE

Paragraph description: The Hayward Gallery exhibition Kiss My Genders explored how artists have represented identities that do not conform to traditional binary gender categories over the past 50 years. The exhibition identity and typeface were designed to reflect the fluidity of gender identities and, like the artists featured in the show, resist being compartmentalised. Consisting of letterforms of an open-ended, category-defying character, the typeface was used to spell out the exhibition logo and the names of contributing artists.



Name: Ok Glacier Memorial

Designers: Designers: Cymene Howe and Dominic Boyer; Text: Andri Snær Magnason; Story: Oddur Sigurðsson; Manufacturer: Grétar Már Þorvaldsson

One-line description: A MEMORIAL TO THE FIRST DECEASED GLACIER

Paragraph description: The original version of this memorial is installed on top of Ok mountain in Iceland, near the site of the first glacier in the world to have been declared deceased. It is the first material commemoration of a glacier lost to climate change. Glaciologist Oddur Sigurðsson marked the end of the approximately 700-year-old glacier in 2014, and the idea for a memorial came about during the making of a film about its life and death by the anthropologists Cymene Howe and Dominic Boyer. The bronze plaque's design is inspired by traditional Icelandic memorials. The text challenges readers to be more accountable for the environment and conscious of climate change.



Name: Stormzy's stab-proof vest

Designers: Banksy

One-line description: A VEST ADDRESSING STRUCTURAL RACISM

Paragraph description: Banksy's customised stab-proof vest aims to re-interpret the 'John Bull' gentleman's waistcoat – a symbol of traditional

British identity – to reflect the realities of modern urban life. Musician Stormzy took both the vest and the opportunity of being the first Black British artist to headline the Pyramid stage at Glastonbury to create a defining cultural moment. The commanding yet vulnerable performance raised multiple questions and statements, both overt and implied. Stormzy successfully conveyed how the Union Jack can seemingly be both a patriotic symbol and a target. A genuine former police issue garment, in addition to making a fashion statement the vest is capable of stopping bullets of up to .45 calibre.



Name: Tokyo 2020 Official Art Posters Project

Designers: Tokyo 2020 official art posters project team, Tokyo 2020 Organising Committee

One-line description: A SERIES OF POSTERS DESIGNED FOR A SPORTING EVENT

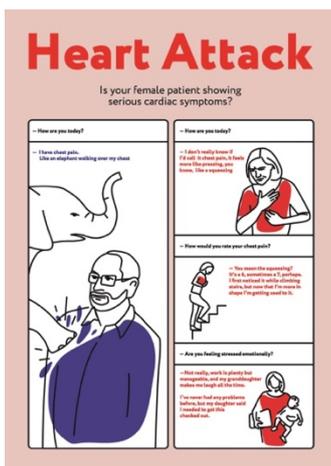
Paragraph description: The Olympic and Paralympic Games are as much a cultural event as they are a sporting one. For the Tokyo 2020 Olympic and Paralympic Games, postponed due to the coronavirus pandemic, the Tokyo organising committee wanted to celebrate the flourishing of creativity around the quadrennial. They commissioned nineteen visual artists from a range of genres, from painting to manga and photography, based both in Japan and across the world, to contribute posters. On display here is Wild Things – Hachilympic by Japanese contemporary artist Tomko Konioko.

Name: Women and Heart Disease: Physician Bias and AI

Designers: Karthik Dinakar, Catherine Kreatsoulas, Analise Alexandra Emhoff and Irina Kruglova

One-line description: AN ILLUSTRATION THAT HELPS DIAGNOSE WOMEN'S PAIN

Paragraph description: Studies have shown that women with serious cardiac symptoms do not receive sufficient treatment from medical centres. They often underplay their discomfort when communicating with doctors, due to their elevated pain threshold and influenced by gendered stereotypes around complaining. A group of researchers at MIT and Harvard universities in the US collaborated with an illustrator to highlight the lack of diagnosis women receive. Commissioned by the team behind the XXII Triennale di Milano Broken Nature, this instructional poster highlights the power dynamics between female patients and medical professionals.



Product

Name: Artes y Oficios

Designers: Fabien Cappello

One-line description: A SET OF PRODUCTS DRAWING ON MEXICAN DESIGN

Paragraph description: The Mexico City-based French designer Fabien Cappello focuses on elements of Mexican culture and materials that are often overlooked or underrated. Employing light industrial processes, he hopes to shift our understanding of beauty, comfort and luxury.

Representing his Artes y Oficios collection, the chair has a vintage wooden frame, painted with orange automotive paint and upholstered with Cappello's custom-fabric Ventana, while the light is crafted from a standard



sheet of perforated steel. Rather than mimic pre-existing designs, Cappello brings together objects, materials and colours that appeal directly to our senses.



Name: Batch.works and Batch.shield

Designers: Julien Vaissieres, Milo Mcloughlin-Greening and Salomé Bazin

One-line description: A SUSTAINABLE 3D PRINTING MANUFACTURER

Paragraph description: Batch.works is a sustainable 3D printing designer and manufacturer, based in London. One of their products is the Batch.shield visor, designed in 2019 and distributed widely during the coronavirus pandemic. Batch.works came about because founders Vaissieres and Mcloughlin-Greening wanted to develop an alternative to centralised manufacturing, by using 3D printers. Batch.works abide by the ethos of producing locally, so that materials can be easily tracked as they enter and leave the factory. They also repurpose materials, avoid landfill and generate minimal waste.



Name: Biomimetic Neck Collar

Designers: Luke Hale

One-line description: A NECK COLLAR THAT MIMICS THE STRUCTURE OF BONE

Paragraph description: This neck collar is the result of digital methods of making, combining 3D scanning, procedural design and 3D printing. Its form is derived from an algorithm that mimics the structure of bone, creating a collar that is light and strong. The process is quicker and more responsive to patient feedback than traditional methods of manually casting, sculpting and moulding plastic. Developed by an NHS doctor for a patient with a neurodegenerative disorder, the twin of this collar is worn every day. It has led to improvements in the user's posture and breathing where other devices had failed.



Name: Border as Producer of Design

Designers: Shneel Malik, Dr. Brenda Parker and Prof. Marcos Cruz (Bio-ID Lab, UCL) with Richard Miller (Froyle Tiles)

One-line description: A DESIGN COLLECTION THAT EXPLORES HOW GOODS ARE EXCHANGED

Paragraph description: After a series of field trips to Ceuta, the Spanish enclave that borders Morocco, Rifaï became fascinated by how objects travelled through the territory. Ceuta is a tax-free zone, meaning goods can be imported and exported without paying duties. Thousands of domestic workers from Morocco cross the Spanish–Moroccan border to sell goods there, often in precarious conditions. This bench is from a collection that Rifaï designed to explore the multiple identities clustered at the border. It shows how objects bear witness to the context in which they are exchanged.



Name: DO Black

Designers: Magnus Jakobsson and Mattias Alfborger

One-line description: A CARBON-CONSCIOUS CREDIT CARD

Paragraph description: DO Black is the first credit card with a CO2 emission limit that allows users to monitor the environmental impact of their transactions. Conceived as a tool to combat climate change, DO Black combines three main functions: it can measure the carbon impact of

transactions, set a CO2 emission limit calculated per country or per person, and overrides an account's financial credit level based on the limit. The function, although integrated into the credit card, can also be applied to existing bank accounts internationally.



Name: For.Form

Designers: Kate Strudwick

One-line description: A NEW WAY OF COLLECTING EVIDENCE

Paragraph description: For.Form is an innovative packaging system that reduces the potential for evidence to be contaminated and improves evidence-handling from crime scene to courtroom. Developed through interviews, site visits and user-testing, the toolkit includes a transparent material that can be moulded around the evidence and an embedded chip to enable the chain of custody to be tracked. The product is currently in a prototype phase, but it has attracted interest from forensic packaging manufacturers.



Name: Förändring by IKEA

Designers: Lolo Stigenius, Akanksha Deo, Iina Vuorivirta and Helene Davidsson

One-line description: A HOMEWARE COLLECTION TO REDUCE AIR POLLUTION

Paragraph description: This homeware collection is made from waste rice-straw, a rice-harvesting residue that is traditionally burned and contributes heavily to air pollution in northern India. The rice straw is moulded, woven and mixed with recycled fabric waste to create a usable material. 'Förändring', a Swedish word that translates as 'change', is made using techniques employed by skilled Indian artisans. It is the first collection produced as part of IKEA's 'Better Air Now' initiative. The initiative seeks to create a design model for reducing air pollution that can be replicated in other crop-burning regions of the world.



Name: Fronda Stool

Designers: Sam Hecht, Kim Colin, Romain Voulet, Luca Corvatta and Mattiazzi Srl

One-line description: A STOOL WITH AN UNEXPECTED SHELF

Paragraph description: This stool was designed by Industrial Facility for a furniture collection celebrating ten years of Mattiazzi, a family-owned Italian furniture manufacturer. UK-based designers Kim Colin and Sam Hecht wanted to design a 'new typology' for the company. They included a pinewood shelf below the stool's seat, and inverted Mattiazzi's traditional style by using wood for the stool's structure and metal for its seat, as opposed to the other way around.



Name: Impossible Burger 2.0 'A Better Meat for the Planet'

Designers: Impossible Foods

One-line description: A VEGAN BURGER FOR MEAT LOVERS

Paragraph description: Impossible Burger 2.0 is more sustainable than its predecessor, which was launched in 2016, and aims to be tastier, juicier and – crucially – beefier. Although the patty is made from plant-based proteins and is suitable for vegans, its core consumers are meat eaters. It is currently served in thousands of restaurants and is entering grocery stores

worldwide. It is kosher, halal and gluten-free certified, and fortified with as much iron and protein as a comparable serving of ground beef.



Name: Indus

Designers: Shneel Malik, Brenda Parker and Marcos Cruz; Researcher: Laura Stoffels; Fabricator: Richard Miller

One-line description: A LIVING WALL THAT CLEANS POLLUTED WATER

Paragraph description: Indus is a wall, composed of modular tiles, that cleans wastewater. Designed by a team of researchers at UCL's Bio-ID Lab, it enables rural artisan communities to regenerate water for their manufacturing processes. The shape of each tile is inspired by the structure of a leaf. Water flows over a series of vein-like channels that are shaped by an algorithm in order to optimise their ability to absorb pollutants. Each vein is filled with microscopic algae cells within a hydrogel made of seaweed. As the water flows over a tile, the algae absorb substances such as cadmium, a naturally occurring toxic metal that is common in industrial workplaces.



Name: Judy emergency kits

Designers: Simon Huck, Josh Udaskin and Red Antler with various manufacturers

One-line description: A NEW, REASSURING KIT FOR CRISES

Paragraph description: Judy is a collection of emergency kits containing essentials to help people deal with natural disasters and unforeseen crises. After discovering that more than 60 per cent of American citizens have no emergency plan, Judy founder Simon Huck wanted to create a solution. The Judy package comes in three types: the safe, the mover and the starter. Each contains cartridges for specific situations, from a lack of warmth or water to basic first aid. The simple typography and red packaging are designed to be accessible, reassuring and easily discoverable.



Name: K-Briq

Designers: Gabriela Medero and Samuel Chapman

One-line description: A SUSTAINABLE BUILDING BRICK

Paragraph description: The K-Briq is a sustainable building brick with the highest recycled content of any brick currently available. At least 90 per cent of its content is recycled construction and demolition waste. The brick takes 24 hours to manufacture and does not require fossil fuel or firing to produce. This means that it releases a tenth of the carbon emissions in its production compared with a traditional fired-clay brick. This brick is Kenoteq's first in a range of products that strive to establish a circular economy by utilising waste and recycled materials.



Name: LastSwab

Designers: Isabel Aagaard, Nicolas Aagaard and Kaare Frandsen

One-line description: A REUSABLE SWAB

Paragraph description: LastSwab is the first reusable alternative to single-use cotton swabs. Designed to last for up to 1,000 uses, they are made with easy-to-clean TPE tips and nylon rods that are delicate enough for sensitive areas. Each swab has a corn-based biodegradable carrying case. There are two versions of the swab in a variety of colours: one for cleaning and another for applying makeup.



Name: LEGO Braille Bricks

Designers: LEGO Foundation and LEGO Group in collaboration with official partners in the international blind community

One-line description: A TOY BLOCK TO TEACH BRAILLE

Paragraph description: The studs of LEGO Braille Bricks are arranged to correspond to individual letters and numbers in the Braille alphabet, while also remaining fully compatible with the other LEGO bricks. Each brick features a printed letter or character, allowing sighted teachers, students and family members to interact on equal terms with the blind or visually impaired in an expanding set of languages. The LEGO Braille Bricks are distributed as part of a toolkit, free of charge, to organisations that educate blind and visually impaired children.



Name: MarinaTex

Designers: Lucy Hughes

One-line description: A HOME-COMPOSTABLE BIOPLASTIC

Paragraph description: Intended as an alternative to single-use plastic films, MarinaTex is made from biological waste from the fishing industry and red algae. The process by which it is created is low tech and low energy. A durable, compostable material, MarinaTex will biodegrade in less than six weeks in soil without leeching any harmful chemicals and can be consumed safely by wildlife. Its translucent, flexible form makes the material ideal to be used as packaging. Having begun life as an undergraduate project in 2019, the material is now in the early stages of commercial development.



Name: Nike ZoomX Vaporfly NEXT%

Designers: Nike Sport Research Lab

One-line description: A RECORD-BREAKING RUNNING SHOE

Paragraph description: The debut of the Vaporfly NEXT% running shoe was at the 2019 London Marathon, on the feet of twelve-time marathon winner Eliud Kipchoge. Kipchoge wore a prototype version of the same shoe when he ran a marathon in Vienna in October 2019 in less than two hours, which had never been done before. The shoe is the result of close collaboration between athletes, sport scientists, engineers and designers. It has a carbon-fibre plate that provides stability, cushioning to minimise energy loss, and a lightweight, breathable exterior layer.



Name: Nünude

Designers: Joanne Baban Morales (Nünude) and Vivian Murad (Skin Bandages)

One-line description: A PLASTER FOR EVERY SKIN TONE

Paragraph description: These adhesive bandages, a collaboration between Nünude and Skin Bandages, come in a range of skin-matching shades. They are a response to the slow evolution of medical bandages from conventional beige and pink tones and the increasing demand for shades that reflect a diversity of skin colours. Nünude advocates the notion that 'nude' is a conceptual colour that should suit all skin tones. Since the bandages launched, a selection of major UK retailers have released their own versions.



Name: Oho capsules

Designers: Notpla with Lucozade

One-line description: A PLASTIC-FREE EDIBLE DRINKS CAPSULE

Paragraph description: In a bid to reduce plastic waste, more than 30,000 Ooho edible drinks capsules were provided to runners at the London Marathon in April 2019. The Ooho pods can be completely consumed or bitten into to release the liquid inside. They are made from Notpla, a biodegradable material composed of seaweed and plants. Designers Rodrigo Garcia Gonzalez and Pierre Paslier have applied the material across a range of products, from edible packaging to coatings for cardboard takeaway boxes.



Name: Ouroboros Steak

Designers: Andrew Pelling, Orkan Telhan and Grace Knight

One-line description: A CRITICAL MEAL KIT FOR CONSUMING HUMAN CELLS

Paragraph description: Ouroboros Steak is a DIY meal kit for growing gourmet steaks from one's own cells. It comes as a starter kit of tools, ingredients and instructions that enable users to culture their own cells into mini steaks, without causing harm to animals. Commissioned for the exhibition Design Unlikely Futures at the Philadelphia Museum of Art, the project is a critical commentary on the lab-grown meat industry and critiques the industry's claims to sustainability.



Name: Reflectacles Privacy Eyewear

Designers: Scott Urban

One-line description: A PRIVACY-PROTECTING SET OF SPECTACLES

Paragraph description: Reflectacles are glasses designed to counter the use of non-consensual facial recognition systems. Using infrared-blocking lenses and reflective frames, they defeat surveillance cameras that use infrared for illumination and more advanced systems that create 3D maps with infrared lasers. Each model offers a different degree of privacy: while IRpair uses infrared-blocking lenses alone, Phantom and Ghost have the added feature of reflective frames, which block surveillance further. The IRpair and Phantom models reflect infrared, while Ghost reflects both infrared and visible light.



Name: Self-Sanitising Door Handle

Designers: Sum Ming Wong and Kin Pong Li

One-line description: A DOOR HANDLE THAT REDUCES INFECTION

Paragraph description: This handle minimises the risk of contact with harmful pathogens when touching public doors. The cylindrical, transparent handle is coated in a titanium oxide, a coating that is reactive to light and can safely break down any pathogens. A custom-designed generator provides electricity to a UV LED lamp embedded in the handle. This lights up whenever the handle is moved to open or close the door. The coating is durable and stable, meaning it will not degenerate on contact with bleach or sterilising chemicals.



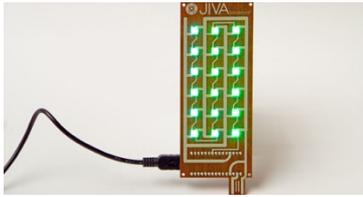
Name: SmartHalo 2

Designers: Xavier Peich, Gabriel Alberola and Jonathan Beaulieu

One-line description: A MULTI-FUNCTIONAL BIKE ACCESSORY

Paragraph description: This device translates cycle routes into simple turn signals, tracks ride metrics, and alerts the rider to calls and texts. The compact unit is locked to the handlebars with a dedicated key and remains

attached to the bike at all times. The aim is to help make cycling the future of urban mobility by promoting safe, distraction-free rides. SmartHalo 2 was designed using feedback from users of the first version.



Name: Soluboard

Designers: Jiva Materials Ltd

One-line description: A SOLUBLE CIRCUIT BOARD

Paragraph description: Printed circuit boards feature in ever more of our products and they contribute to one of the world's fastest growing waste streams. Jiva's Soluboard is a non-toxic, fully recyclable alternative to the epoxy resin and fibreglass of conventional circuit boards. Soluboard dissolves in hot water, leaving a residue of compostable natural fibres, water that can go down a domestic drain, and electronic components for recycling. If fully implemented on a global scale, the material could reduce the carbon footprint of the printed circuit board industry by 60 per cent.



Name: Soundbops

Designers: Michael Tougher and RPD International

One-line description: AN INSTRUMENT FOR TEACHING CHILDREN TO BUILD TUNES

Paragraph description: Soundbops is an instrument that enables children to make music by placing, stacking and playing objects that generate notes when attached to an innovative board. Through interaction, children can easily grasp chords and rhythm, because the system breaks music down into its basic building blocks. Soundbops was designed to find a new way of writing music using objects containing notes that can be held in a child's hands. Through free and creative play, it lays the foundations for children to understand and create their own musical sequences.



Name: The Water Box Mobile Filtration System

Designers: Just Water and 501cTHREE

One-line description: AN OPEN-SOURCE WATER FILTRATION SYSTEM

Paragraph description: In 2014, water in the city of Flint in Michigan, USA, was declared unsafe to drink due to lead from corroding pipes leaching into the water supply. Faith in local government had deteriorated and churches were on the frontline of the crisis. In response, 501cTHREE with Jaden Smith partnered with the First Trinity Baptist Church and local support services to install the first Water Box in Flint. This mobile filtration system can remove several heavy metals and harmful pathogens from ten gallons of water in a minute, and is free for residents to use. Its design is open-source and it can be built using off-the-shelf parts.

Transport



Name: Brick arches

Designers: Hong Kong protestors

One-line description: AN ANKLE-HIGH ROADBLOCK

Paragraph description: Made from ordinary bricks, these small but powerful structures were used by Hong Kong protestors from the pro-democracy movement as roadblocks to slow down police vehicles. When struck by a wheel, the top block falls away leaving the two remaining bricks, which together form a buttress that prevents the wheel from moving forward. These arches were referred to locally as 'mini-Stonehenges' or 'brick battlegrounds'. Easier to make and more difficult to clear than ordinary roadblocks, they became widespread when the protests escalated in November 2019.



Name: The Station of Being

Designers: Rombout Frieling Lab and Research Institutes of Sweden, Umeå

One-line description: AN IMMERSIVE BUS STOP

Paragraph description: By transforming the bus stop into a more welcoming and less stressful environment for the traveller, the Station of Being in Umeå, Sweden, encourages drivers to use public transport more often. The bus stop's smart roof uses light and sound to alert travellers that a bus is approaching. Each bus line has its own unique sound. The timber pods within the structure rotate automatically to protect travellers from the weather without requiring any power and allow them to interact by creating social spaces. Since these innovative bus stops launched, there has been a 40 per cent increase in the use of electric buses.



Name: Teeter-Totter Wall

Designers: Ronald Rael and Virginia San Fratello with Colectivo Chopeke

One-line description: A SEE-SAW AT THE BORDER WALL BETWEEN THE USA AND MEXICO

Paragraph description: Architecture studio Rael San Fratello has been researching the border that separates Mexico from the USA since 2009. Viewing the boundary as a site that severs relationships between the two countries, they wanted to create a place where citizens across the border could connect, so they designed three bright pink 'teeter-totters' (see-saws) to slot into gaps in the steel border wall. One designer worked from Juárez in Mexico and another in El Paso, USA. For just under twenty minutes on 28 July 2019, residents of El Paso and the Anapra community in Mexico could, for the first time, unite through play.