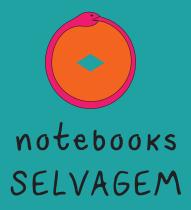
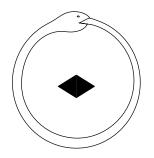
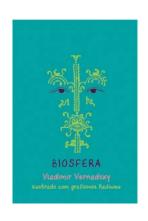


# THE SUN AND THE FLOWER Arrow 2





# THE SUN AND THE FLOWER arrow 2



. . . .



Drawing by Davi Kopenawa, in the book The falling sky

The second WILD ARROW is a radiant narrative about *The Sun and the Flower*. A great propeller to the Arrow is the book *The biosphere*, by Vladimir Vernadsky (Copernicus, 1998), which speaks about the Earth as a sphere of life in continuous and uninterrupted activity. A beautiful narrative that involves cosmic rays, stardust, and beings that transform solar energy and green matter. *The biosphere* was first released in Russia in 1926 and it is the first scientific essay about Earth as a large organism where everything interacts.

In the Arrow, when we talk about energy transformers, we quote Davi Kopenawa in his book, co-written with Bruce Albert, *The falling sky* (Harvard University Press, 2013). Davi tells us that: *Omama created the earth and the forest, the wind that stirs its leaves and the rivers whose water we drink.* He was the one who gave us life and made us many. In the beginning the sky was still young and fragile. The forest was a newcomer to existence and everything in it easily returned to chaos. To prevent it from falling, he planted immense pieces of metal in its depths, with which he also affixed the sky's bases. Hutukara is the forest and it is also the ancient celestial level.

The association between plants, water and solar radiation is also in the book *The life of plants*, by Emanuele Coccia (Polity Press, 2018), which is a big reference for this second Arrow.

The inspiration for the title came from conversations with Carlos Papá and from the book *Le grand parler – Mythes et chants sacrés des indiens Guarani*, by Pierre Clastres (Seuil, 1974). In the Guarani myth, the Sun unfolds from the original night, and this unfolding branches into a flower. The flower and its blossoming have wider meanings, which encompass our existence. To know more about these concepts, we suggest watching the *Wild Conversation between Carlos Papá and Ailton Krenak*.

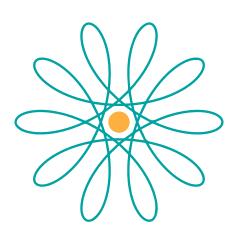


It's Marcelo Gleiser who explains that "each atom in your body, each iron atom in your blood, each calcium atom in your bones, each carbon atom in every molecule came from the stars" (this passage is an excerpt from the <u>Wild Conversation between Marcelo Gleiser and Ailton Krenak</u>). We thank him for his consultancy and proofreading of this script.

We also thank Carlos Papá for his consultancy, inspiration and Guarani narration; and Jaime Diakara, Cristine Takuá, Denilson Baniwa, Edilene Yaka Huni Kuin, Wewito Piyãko, Jaider Esbell and Ailton Krenak, who brought us the Sun in several languages.

To know more about the project, we suggest reading the Notebook *The Serpent and the Canoe* and visiting the *Selvagem* website.

Shall we board?



Egyptian hieroglyph Petroglyphs from Vigirima. LEONARDO PÁEZ, Fundación Editorial El Perro y La Rana, 2010 Rock painting Morro do Chapéu M. BELTRÃO, 1991 Tukano People REICHEL-DOLMATOFF Rock painting Morro do Chapéu M. BELTRÃO, 1991 Drawing by the Sami people Petroglyphs from Vigirima. LEONARDO PÁEZ, Fundación Editorial El Perro y La Rana, 2010

Kuaray (Guarani, by Carlos Papá)

Abe (Desana, by Jaime Diakara)

Mãyõn (Maxakali, by Cristine Takuá)

Kamoi (Baniwa, by Denilson Baniwa)

Sol (Portuguese, by Denilson Baniwa)

Bari (Huni Kuin, by Edilene Yaka)

Pawa (Ashaninka by Wewito Pyiãko)

Wei (Macuxi, by Jaider Esbell)



PRISCILLA TELMON & VINCENT MOON,

<u>Mehinako People. Hybrids, the Spirits of Brazil</u>, 2014-2018.

Petites Planètes, Feever Filmes





HADEAN BIOSCIENCE

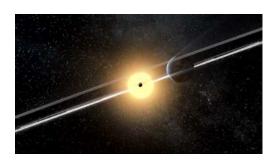
The Whole History of the Earth and Life

A luminous star that spins on its imaginary axis

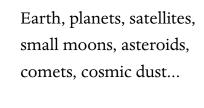


<u>Planet Orbit Stars Solar System Moon Space Earth</u>
Pixabay

and makes everything spin around it.



How Is Radiation in Space Different
From Radiation on Earth?
NASA





OLAFUR ELIASSON

<u>Sometimes the river is the bridge</u>, 2020

The Sun spins emitting luminous radiation that makes our planet visible.



Everywhere, uninterrupted, ever-changing, crossing solar waves of various frequencies...

DAIARA TUKANO

Hori,2018. 60 cm x 60 cm. Acrylic on canvas

Hori, 2018. 70 cm x 70 cm. Acrylic on canvas

Bo'reaκa [Étoile du matin], 2019. 100 cm x 100 cm. Acrylic on canvas

Hori, 2018. 70 cm x 70 cm. Acrylic on canvas

Ñοκδά tero ρο'ero [Flood of the stone necklace, Pleiades constellation],

2018. 100 cm x 100 cm. Acrylic on canvas

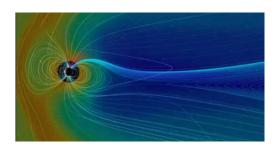


MICHAEL STAROBIN

Why does the Sun Matter for Earth's

Energy Budget?

NASA's Goddard Space Flight



Effects of the Solar Wind NASA

.... and lengths.

The infrared rays come from the Sun in weak long waves.

They are less visible than the red we can see.



Ultraviolet rays come in short and intense waves.

Everything humans see is within the rainbow's color range.

ABRAHAM PALATNIK

W - 253, 2008

Acrylic paint on wood. 104 cm x 125 cm

W - 161, 2007

Acrylic paint on wood. 104 cm x 133,2 cm

W - 148, 2007

Acrylic paint on wood 102 cm x 133,5 cm

W - 222, 2008

Acrylic paint on wood. 109,5 cm x 124 x 3 cm

Banco Itaú Collection.

Photographers: Iara Venanzi and Álvaro

Bortoletto

W - 280, 2009

Acrylic paint on wood. 75,5 cm x 97,3 cm

W - 413, 2012

Acrylic paint on wood. 113 cm x 167,5 cm

W - 357, 2011

Acrylic paint on wood. 108,5 cm x 172,5 cm Private collection © Abraham Palatnik



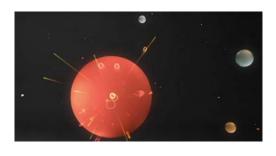
ABRAHAM PALATNIK

Kinechromatic device, 1969. Engine, gears
and lamps.112 cm x 70 x 20 cm.

Private collection.

© Abraham Palatnik

Outside of this spectrum, everything is invisible to human eyes.



<u>How To Track The Solar Cycle</u> NASA 'S GODDARD SPACE FLIGHT CENTER

These rays transport energy as electromagnetic waves – visible and invisible light.



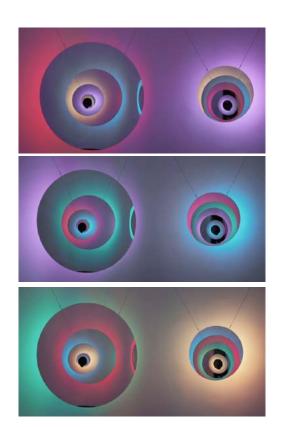
OLAFUR ELIASSON Your ocular relief, 2021

They also transport the heat that affects Earth's movements.



WASSILY KANDINSKY Several Circles, 1926

This energy makes the biosphere active and possible.



OLAFUR ELIASSON

Testing a mirror tunnel for "Sometimes the river
is the bridge" at MOT, 2020

The biosphere is the supraorganism in which we live, where everything interacts and forms this fine radiant layer.



ERNESTO NETO

GaiaMotherTree at Zurich main station, 2018

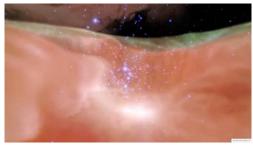
Fondation Beyeler, © Ernesto Neto.

Video courtesy

Fondation Beyeler and Vernissage TV

It is also called Gaia, Yvy in Guarani, or Onilé in Yoruba.





Flight Through Orion Nebula in Visible and
Infrared Light
Space Telescope Science Institute
NASA



DREW BERRY

<u>Synthesis of ATP, Molecular Animation</u>

WEHI.TV

The Sun, the Earth, and all of the planets were a nebula, a cloud made of cosmic dust and gas.

The Earth's body is made of the same elements of celestial bodies.

The Earth and "each atom in your body, each iron atom in your blood, each calcium atom in your bones, each carbon atom in all of the molecules came from the stars. Stars that lived billions and billions of years ago. Before the Earth and Sun existed, these stars were transforming hydrogen into all of the chemical atoms, and when they exploded, they scattered their entrails throughout the universe. In this process, they donate what they have to interstellar space, and at the same time feed the formation of new stars. Hence, our sun was born. All of these atoms, these little pieces that make us who we are, are literally stardust."

This passage is by Marcelo Gleiser, a brazilian physician, astronomist, teacher, writer and screenwriter. It is in the <u>Wild Conversation</u> with Ailton Krenak, which occurred on April 17th, 2020.



JIM DENEVAN

<u>A Spiral Walk</u>, 2019

The Earth is not a rock where there is life. The Earth is alive, and everything here is a manifestation of the Sun.



PRISCILLA TELMON & VINCENT MOON,

Mehinako People. Hybrids, the Spirits of Brazil
2014-2018.

Petites Planètes, Feever Filmes

Guarani comes from Kuaray ra'y, and it means "children of the Sun".



CÉSAR OITICICA FILHO <u>Hélio Oiticica</u>, 2012

We are daughters and sons of the Sun.



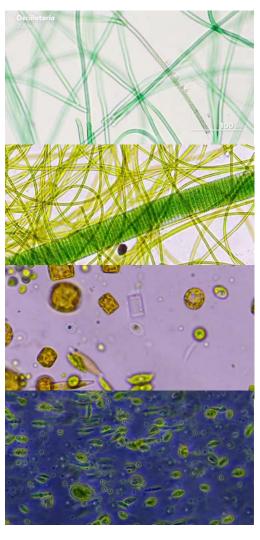
KUNUMI MC <u>Xondaro Ka'aguy Reguá</u>, 2020 ANGRY films

It is the transformers that convert energy.



BIANCA LEE VASQUEZ Intervención Fusion, 2016 Courtesy of the artist

The transformers are plants and some bacteria that convert sunlight into life.



JAMES WEISS

<u>Oscillatoria, Cyanobacteria, Green Algae</u>

<u>and Diatoms</u>

Millions of years ago, cyanobacteria made one of the greatest revolutions on the planet by finding in the water their hydrogen source to create food.



SCI-INSPI,

<u>Photosynthesis Under the Microscope</u>

GABRIELA MACHADO

Boipeba, 2017. Acrylic on canvas. 14 cm x 18 cm
(three canvas: 0049, 0051 e 0055)

Não conheces a história?, 2018.
Oil on canvas. 100 cm x 100 cm

Photosynthesis is the synthesis of light and its transformation into organic matter.

These incredible beings turned water and carbon gas into food, releasing oxygen back into the atmosphere.

Plants brought a marine environment to dry land.

Trees lifted the atmosphere...



HILMA AF KLINT

HaK 137.

Series W, The Tree of Knowledge.

Moderna Museet-Stockholm

©By courtesy of the Hilma af Klint Foundation. Photo: Moderna Museet-Stockholm

and thus the sky doesn't fall over us.



















For the Yanomami people, Hutukara is the forest and also the ancient celestial level.

There is an indissoluble bond in the biosphere between solar radiation and the green world.

Plants make the world.

It is from them that life originates daily.

CLAUDIA ANDUJAR & GEORGE LOVE

Amazônia, 1978.

Copyright: Claudia Andujar e George Love. Digital reproduction of the book Amazônia: Instituto Moreira Salles



Symbiotic Earth: How Lynn Margulis Rocked the Boat and Started a Scientific Revolution

A film by JOHN FELDMAN.

Produced by Hummingbird Films, New York



Whale Shark <u>@silversharkadventures</u>



STEPHEN AXFORD,

<u>Planet Fungi</u>, 2020.









UNKNOWN AUTHOR, Whale, turtle, leafcutter, lizard



MUNDO DIGITAL,
<u>Beija-flor</u> (slow motion)



SERGIO LUTZ BARBOSA, Onças-pardas (Suçuaranas)

The mechanism, the magic, the rapture that makes everything alive is hidden from us in a diversity of colors, shapes, and movements that we ourselves are part of.

The breathing, the heartbeat, the lung functioning relate to the functioning of the biosphere.



BIA MONTEIRO

<u>Re-medindo a Terra firme</u>, 2018



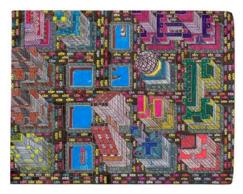
FLÁVIA ARANHA <u>Bordados Linha Nove</u>, 2017



Kente Cloth Patterns

And everything that we humans do or transform is always nature.

Humanity has expanded, occupying all continents,



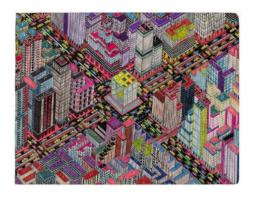


consuming enough for everyone to spread, to inhabit, to eat, to live, to make their projects.









MAMADOU CISSÉ

Untitled, 2011, marker and pencil on paper, 24 cm x 32 cm.

Untitled, 2012, marker and ink on paper, 120 cm x 150 cm.

Photographer credit © André Morin

Untitled, 2007, marker and ink on paper, 30 cm x 40 cm.

Photographer credit © André Morin

Untitled, 2007, marker and ink on paper, 30 cm x 40 cm.

Photographer credit © André Morin

Untitled, 2007, marker on paper, 30 cm x 40 cm.

Untitled, 2010, marker on paper, 24 cm x 32 cm.

Crédit artiste © Mamadou Cissé Collection of the Fondation Cartier pour l'Art Contemporain, Paris



Symbiotic Earth: How Lynn Margulis Rocked the Boat and Started a Scientific Revolution A film by JOHN FELDMAN.







SÉRGIO BERNARDES, Tamboro, 2009.

Lumina Produções. Urca Filmes Sérgio Bernardes Collection / Mana Bernardes - manager and holder of the collection's property rights along with Pedro Wladimir Bernardes, Lola Maria Bernardes, João Wladimir Bernardes, José Wladimir Bernardes and Rosa Bernardes. Drika de Oliveira - manager and audiovisual preserver of the collection / Beatriz Nunes - manager and audiovisual preserver of the collection.

That was up until the moment when nature's consumable resources tab entered the "red zone."

We are suffocating our lives and other being's lives, beings that indeed make this planet a living place.

Green matter creates and recreates the environment, the air, the atmosphere.

Every breath is a way of sharing this environment.



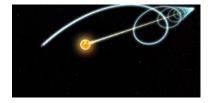
MAN&WAH

Botanical Cosmos Mackay, 2018

Celeston 1, 2020

Domes & Flower Thief, 2016

Patterns of Nature, 2019



Video found at VSAUCE

<u>How earth moves</u>



CASSIOPEIA PROJECT

<u>Earth's Motion Around the Sun</u>

"Nhamandu made its own body rise on the original night. It appears and dilates, unfolding like a flower that opens to sunlight. But Nhamandu is its own sun, at the same time sun and flower."

This passage is from the book "Le grand parler - Mythes et chants sacrés des indiens Guarani" [i.e." The sacred speech: Guarani myths and sacred chants"], by Pierre Clastres (Seuil, 1974).

It's accompanied, in the Arrow, by the voice of Carlos Papá, who says: Opó mbyte rankã poty mbyte gui ombo jerá ráka'e Nhamandu ruete, Nhamandu Xyete. Nhamandu ombo jerá araka'e. In English: In the midst of the branches, the hands, the flowers made them blossom: Father Sun, Mother Sun, thus the Sun came up.

In this flower, we live, crossed by the energy of the Sun.

The Earth and the Sun travel by the cosmos, drawing a flower.

It is a spiraling galaxy. We blossom each day.



# Dessin de LÍVIA SERRI FRANCOIO

We live in a region of continuous transformation.

The atoms that once were stars and are in us have also formed other beings in an endless metamorphosis.

Life crosses all.

Life is wild.

Life is the Sun and the Flower.

**BIOS**:

#### AILTON KRENAK (1953)

Thinker, environmentalist and one of the main voices of indigenous knowledge. Ailton has created, along with Dantes Editora, the Selvagem, cycle of studies about life. He lives in the Krenak village, by the margins of rio Doce, in Minas Gerais, and is the author of *Ideas to postpone the end of the world* (House of Anansi Press, 2020) and *A vida não é útil* (Companhia das Letras, 2020).

# CARLOS PAPÁ (1970)

Carlos Papá is an indigenous leader and filmmaker of the Guarani Mbya people. He has worked for more than 20 years with audiovisual productions, with the aim of strengthening and valuing the guaranii mbya culture by producing documentaries, films and cultural workshops for young people. He also is a spiritual leader in his community. He lives in the village of Rio Silveira, where he takes part in collective decisions and helps his community to find ways to live better. He is a counselor at the Instituto Maracá and a representative by the north coast of the state of São Paulo in the Guarani Yvy rupa commission (CGY).

## Marcelo Gleiser (1959)

Physicist, astronomer and writer, Marcelo is also a professor and researcher at Dartmouth's College since 1991. With dozens of published articles and twice Jabuti award winner, his specialization is the cosmology of particles, which combines the physics of the smaller components of the universe with the physics of the universe as a whole. His studies seek to explore issues related to the "three origins": life, cosmos and mind, thus seeking to grant a meaning to the world and our existence.

#### **A**NNA **D**ANTES (1968)

Her work extends the editing/publishing experience to other formats in addition to books. For ten years, Anna has been carrying out, along with the Huni Kuĩ people, in Acre, the project Una Shubu Hiwea, Living School Book (Livro Escola Viva). In 2018, she created *Selvagem*.

#### Petites Planètes: Priscilla Telmon (1975) & Vincent Moon (1979)

Priscilla Telmon & Vincent Moon are a duo of French multidisciplinary artists, working mainly as independent filmmakers and sound exploiters. Together, they produce films and experimental ethnographic musical recordings, creative direction and curating, based on the materials collected in their countless travels around the world.

https://petitesplanetes.earth

#### **O**LAFUR ELIASSON (1967)

Danish-Icelandic artist known for sculptures and installations on a large scale. He employs elementary materials, like light, water and air temperature, to enhance the experience of the spectator. Since 1995, Studio Olafur Eliasson, in Berlin, has been a spatial research laboratory.

https://www.olafureliasson.net

#### Daiara Tukano (1982)

Daiara is a visual artist, teacher and activist for indigenous rights. She is also communicator and coordinator of Rádio Yandê, the first indigenous online radio station in Brazil. Daiara is the daughter of Álvaro Tukano.

https://www.daiaratukano.com/

#### **ABRAHAM PALATNIK** (1928-2020)

Kinetic artist, painter, designer. Son of Russian parents and born in Natal, Brazil, Palatnik spent his childhood in Tel-Aviv (then Palestine) and returned to Brazil at age 20. When he met the Psychiatric Hospital Dom Pedro II, coordinated by Dr. Nise da Silveira, he changed his way of seeing, making and understanding art. He was one of the pioneers in kinetic art in Brazil, a movement that explores visual effects through physical motions and optical illusions. He was consecrated as a reference in this area throughout his career.

https://en.wikipedia.org/wiki/Abraham Palatnik

#### **W**ASSILY **K**ANDINSKY (1866-1944)

A Russian painter, considered a pioneer in the abstract movement. Besides being an artist, Kandinsky was also a theoretical and professor of arts, bringing important contributions about the theory of colors, non-figurative compositions and synesthetic relations between music and plastic arts.

https://en.wikipedia.org/wiki/Wassily Kandinsky

#### Ernesto Neto (1964)

With an artistic production situated between sculpture and installation, his trajectory is marked, at the beginning, by the works of artists José Resende and Tunga, in exploring the formal and symbolic articulation among various materials. Later, he starts using, predominantly, polyamide socks and other more flexible and ordinary materials. Ernesto's installations allude to the human body, with fabrics that resemble the epidermis and sinuous shapes that settle themselves in space.

https://en.wikipedia.org/wiki/Ernesto Neto

#### JIM DENEVAN (1961)

As he looked to the sand while surfing, Jim could see blank screens. This North American land-art artist uses natural materials to create huge drawings in the sand. With the hours counted until the tide comes, erasing his creations, Jim explores the concept of temporary art.

https://en.wikipedia.org/wiki/Jim Denevan

# HÉLIO OITICICA (1937-1980)

Plastic and performance artist, painter and sculptor. He was one of the great names of concrete art in Brazil. Oiticica stands out for transgressing current art patterns, making use of varied spaces and objects, in addition to dealing with themes such as anarchism, samba and marginality. His artwork is composed of a diversity of essays and poems, in which he makes reflections and theoretical considerations about his career professional paths.

https://en.wikipedia.org/wiki/H%C3%A9lio\_Oiticica

#### **KUNUMI MC** (2001)

A Guarani writer and MC, he lives in the Krukutu village, located in the region of Parelheiros, in the extreme-south of the city of São Paulo. He raps for the defense of his relatives and land demarcation. He addresses issues related to his daily life in one of the largest metropolis in the world and to the history of the indigenous peoples throughout Brazil.

https://www.youtube.com/watch?v=cT7ZXxAMetY

#### BIANCA LEE VASQUEZ (1983)

Performance artist who uses photography, video and installation to document her Earthbody work in nature. Bianca uses her body as a means to express the deep connection between the human being and nature, drawing inspiration from old Mesoamerican and Inca rituals. Of Cuban-Ecuadorian origin, she currently lives in Paris.

http://www.biancaleevasquez.com

https://artelaguna.world/artist/vasquez-bianca-lee/

# Gabriela Machado (1960)

Designer, painter and carver. Maria Gabriela de Mello Machado da Silva is an architect. She attended courses of painting, drawing, engraving, metal engraving and lithogravure at the Parque Lage Visual Arts School - EAV/Parque Lage, in Rio de Janeiro. In the words of Matilde Campilho, "Gabriela Machado's work is a pure way to speak of the romance between people and nature".

http://www.gabrielamachado.com.br

#### HILMA AF KLINT (1862-1944)

Swedish artist considered a pioneer of abstractionism, Hilma created abstract works and series way before some of the most famous artists associated with the movement did, such as Wassily Kandinsky and Piet Mondrian. Hilma af Klint's work was not pure color and form abstraction by itself, but a portrait of the non-visible.

https://en.wikipedia.org/wiki/Hilma af Klint

#### CLAUDIA ANDUJAR (1931)

Photographer and Swiss activist, naturalized Brazilian. Since the 1970s, a great part of her work and life has been dedicated to the Yanomami people. She has engaged herself through art and militancy on a long campaign of land demarcation, always warning of the dangers of contact with white people. Fruit of a trusting relationship created with the Yanomami, her work portrays the indigenous peoples with a humanity and intimacy hitherto unheard of in photography, breaking away from the merely documentary bias.

https://en.wikipedia.org/wiki/Claudia\_Andujar

# George Love (1937-1995),

North American photographer with experimental photography studies. He arrived in Brazil invited by Claudia Andujar, with whom he married and published the book entitled Amazônia. George initially worked as a photojournalist at Editora Abril, then developing his own projects, focused on the Amazon and in the city of São Paulo.

https://findingaids.uncc.edu/repositories/4/resources/219

#### BIA MONTEIRO (1976)

Born in Rio de Janeiro, Bia Monteiro's studies crossed cinema, photography and philosophy. Currently, she lives in New York, where she integrates the StudioDuo, a collective that performs exhibitions and publications in alternative spaces. Always linked to the issues of her country, the artist invites to reflect on historical aspects of Brazil's formation through artworks marked by the presence of nature.

https://www.biamonteiro.com

#### FLAVIA ARANHA (1984)

Stylist, Flavia uses natural fibers and pigments extracted from plants in her articles of clothing fabric pieces. The passion for natural colors was the basis of all the development of her work. She traveled throughout Brazil and the world, seeking to improve and learn new techniques with master dyers of different cultures and regions.

https://www.flaviaaranha.com

#### Mamadou Cissé (1960)

Born in Senegal, he arrived in France in 1978. Self-taught, he began to draw during his long journeys as a night watchman. Today, his works integrate the Fondation Cartier collection. Fascinated by cities, Cissé creates kaleidoscopic urban views by the eye of a bird. A futuristic, who dreams of colorful cities where there is housing for everyone.

https://www.fondationcartier.com/en/collection/artworks/artists/mamadou-cisse

#### JOHN FELDMAN (1954)

Acclaimed American filmmaker, John Feldman's professional path unfolds for more than 40 years, encompassing a varied spectrum of genres: from independent dramas to documentaries, passing through experimental, educational and corporate productions. His movies have already received various nominations and international awards.

https://hummingbirdfilms.com/johnfeldman/ https://hummingbirdfilms.com/symbioticearth/

#### Sérgio Bernardes Filho (1944 - 2007)

Son of the architect Sérgio Bernardes and grandson of the journalist Wladimir Bernardes, Sérgio Bernardes Filho was a Brazilian filmmaker. His first feature, *Desesperato* (1968), has unanimously received the best movie award at the Belo Horizonte Festival and, shortly thereafter, he was censored by the dictatorship. After years of exile in France, when he returned to Brazil, Sérgio went on several expeditions through the Amazon and the interior of the country.

http://tamboro.blogspot.com/

The editorial production work of the *Selvagem* Notebooks is carried out collectively with the *Selvagem* community.

More information at selvagemciclo.com.br.

This Notebook features the special participation of Estúdio Magú, who collaborated in editing. We thank Daniel Grimoni, Gabriel Paixão, Maurício Boff and Ana Cristina L.A. Jurema for translation and proofreading.

#### Translation:

#### Daniel Grimoni

An artist, Portuguese grad student and Language teacher at a communitary pre-university course in Rio de Janeiro. He has published poems and short stories in literary magazines and anthologies, and is the author of "*Todo (o) corpo agora*" (2019), a poetry book. He also studies matters related to geography, ecology, anthropology, art and education.

#### GABRIEL PAIXÃO

Interpreter, translator, and multimedia artist. Master of Film Narratives and Bachelor of Cinema and Audiovisual, he has written, directed, and acted in several short films, besides dwelling in music, poetry, drawing, and painting. Through words and images, his work is driven by an ever-present desire for evocation and dialogue.

#### Mauricio Boff

A communication and advocacy consultant for sustainable development initiatives in South America, and also a writer. He lives in Brasilia.

#### **PROOFREADING:**

#### ANA CRISTINA L.A. JUREMA

Educator, she has developed and participated in several projects in Brazil and other countries – but she has always been a teacher, mainly focused on teacher's capacity building. She did a doctorate, does research, has academic, technical and didactic publications, is a consultant and an everlasting learner.

#### **CREDITS**

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#### SPECIAL THANKS

Sérgio Bernardes Collection – Mana Bernardes and Drika de Oliveira

Alay Ribas and Mauro Ribas

Aldeia Rizoma – Zazi Aranha Correa da Costa, Thereza Brajovic Paes de Carvalho,

Marko Brajovic, Zoe Brajovic and Zion Brajovic

Aliny Pires

Álvaro Bortoletto and Iara Venanzi

André Morin

Art Unlimited - Sonia Leme

Beny Palatnik

Bia Monteiro

Bianca Lee Vazquez

Bino e Nina

**BPBES** 

Café 8 – Thais Pimenta

Carlos Papá

César Oiticica Filho

Claudia Andujar

Selvagem Community

Conservation International (CI) - Brazil

Cristine Takuá

Daiara Tukano

Denilson Baniwa

Dorion Sagan

Domitille Camus

Drew Berry

Edilene Yaka Huni Kuin

Ernesto Neto

Fabio Scarano

Flavia Aranha

Fondation Beyeler – Jan Sollberger

Fondation Cartier pour l'Art Contemporain – Clémentine Dumont and Cécile Provost Gabriela Machado

#### Galeria Nara Roesler – Pedro Sampaio

Galeria Vermelho - Jan Fjeld

Idjahure Kadiwel

Institut Français / Ambassade de France au Brésil

Institute for Climate and Society (iCS)

Instituto Moreira Salles - Thyago Nogueira, Ana Luiza de Abreu Claudio, Angelo Manjabosco

and Thaiane do Nascimento Koppe

Serrapilheira Institute

Ipê / Lira

Itaú Cultural - Naiade Margonar Gasparini

Jaider Esbell

Jaime Diakara

James Weiss

Jim Denevan

John Feldman

Kunumi MC

LABVERDE – Art Immersion Program In The Amazon

Ludivine Camus

Luiz Gleiser

Luiz Zerbini

Museum of Modern Art (MAM) of Rio de Janeiro - Fabio Szwarcwald and Cátia Louredo

Mamadou Cissé

Man & Wah

Maria Alejandra Rosales Vera

Paula Berbert

Pinacoteca – Jochen Volz

Planet Fungi – Catherine Marciniak

Sergio Cohn

Sergio Lutz Barbosa

Stella Manes

Studio Olafur Eliasson

Tatiana Dager

The Roddick Foundation

Vernissage TV

VERT

Vincent Moon

WEHI.TV – Drew Berry

Wewito Piyãko

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AILTON KRENAK : Tepó, in the krenak language, Sun.

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