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AQUA JOURNAL
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An Iwagumi with Cardinal Tetra

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"MIRAI"

ADA Review

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MAKE & KEEP

SOL STAND G and NEO GLASS AIR

Mizukusa FOCUS / Plant Art Studio

Amano's view 'Mr.Fujinami's Garden'

NATURE IN THE GLASS

“An Iwagumi with Cardinal Tetra”

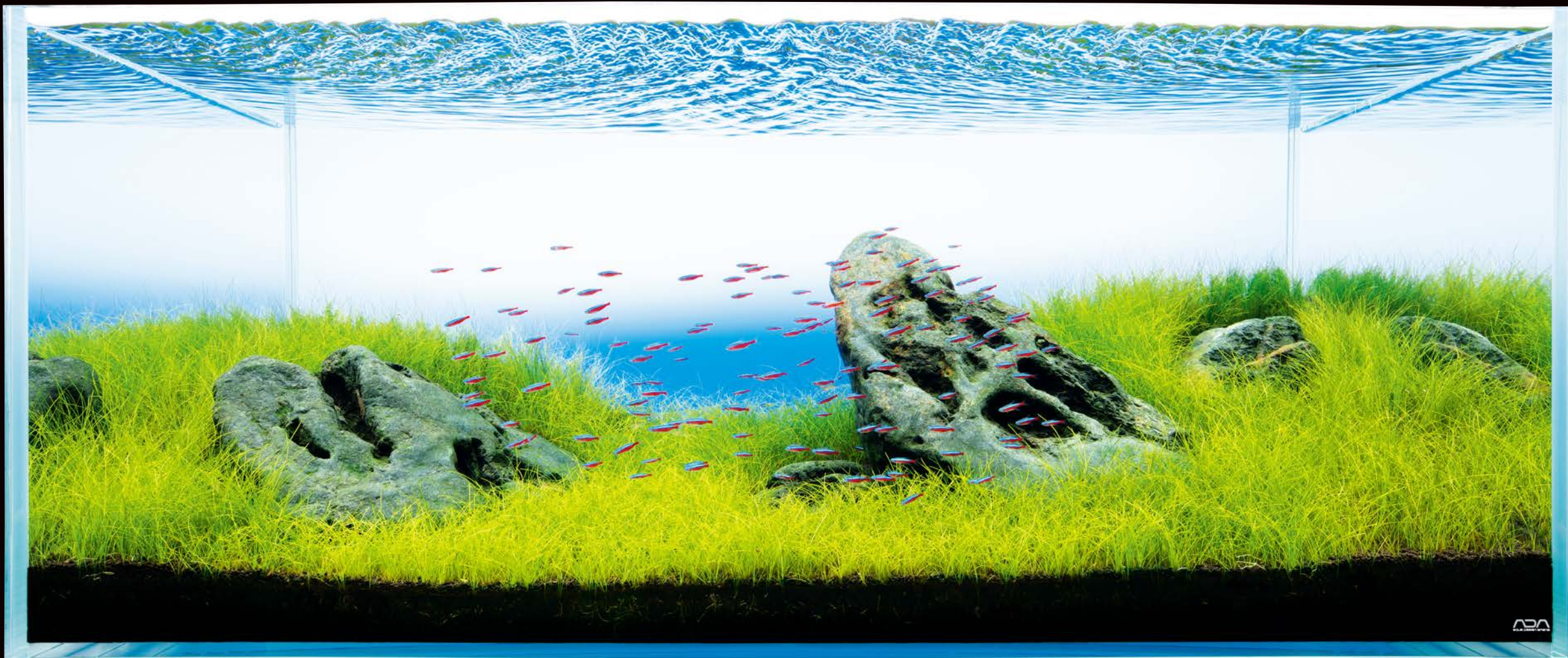
Yusuke Homma

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Cardinal tetras schooling in a Hakkaï Stone Iwagumi aquascape. It is a regular combination developed by Takashi Amano, but we never get tired of looking at it no matter how many times we see it.



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NATURE IN THE GLASS

A Hakkai Stone Iwagumi layout, showcasing a group of schooling Cardinal tetras in Eleocharis acicularis grassland.

Takashi Amano, the founder of Nature Aquarium, has taught us various layout styles. However, Iwagumi using river stones is considered as the foundation and ultimate layout style. The Iwagumi layout here was created in accordance with "Amano Style Iwagumi" method by using only five pieces of Hakkai Stones,

which have characteristic dimples called "Mushi-kui" (literally meaning bug-eaten holes). Since Hakkai Stones with large mushi-kui have a strong impact, we planted only *Eleocharis acicularis* to soften the stone's intense impression. The visual flow in the aquascape was created by Hakkai

Stone's arrangement and inclination based on the principles of "Sanzon Iwagumi", and it is representing the atmosphere of refreshing wind of early summer in grassland. Schooling Cardinal Tetras go well with this type of Iwagumi aquascape. (Yusuke Homma)

DATA

Shooting date	June 5th, 2018 (ADA)
Creator	Yusuke Homma
Aquarium	Cube Garden W120 x D50 x H50 (cm)
Lighting	Solar RGB × 2, turned on for 10 hours per day
Filter	Super Jet Filter ES-1200 (Bio Rio M)
Substrate	Aqua Soil-Amazonia, Power Sand Advance M, Bacter 100, Clear Super, Tourmaline BC
CO ₂	Pollen Glass Beetle 400, 3 bubbles per second via CO ₂ Beetle Counter (using Tower)
Aeration	14 hours after the light is turned off using Lily Pipe P-6
Additives	Brighty K, Green Brighty Mineral
Water change	1/3 once a week
Water quality	Temperature: 24°C; pH: 6.8; TH: 30 mg/L

Aquatic Plants Fish & Invertebrates

Eleocharis acicularis
Paracheirodon axelrodi
Crossocheilus oblongus
Otocinclus sp.
Caridina multidentata

**A Hakkai Stone Iwagumi layout containing only a single species of plant and fish —
Creating a basic Iwagumi layout in a newly released panoramic aquarium tank.**

I created this Iwagumi layout in a newly released Cube Garden W120xD50×H50 (cm). The new 120cm aquarium tank has more depth than the conventional W120×D45×H45 (cm) tank, and makes it easier for users to arrange layout materials and planting. Moreover, the panoramic view of the tank is suitable for an Iwagumi layout that expresses a horizontal image of vast grass-land. Here, I will give you a glimpse of the production process of this Iwagumi layout and its features. (Yusuke Homma)



A “Soeishi (accompanying stone)” was placed to support the “Oyaishi (primary stone)” and adjust its inclination. The Oyaishi and its inclination angle play the most important role in the flow of the Iwagumi aquascape.

Planting



For planting, we chose only a single species, *Eleocharis acicularis*, based on Iwagumi principles. The "single-plant & single-fish species" concept goes well with Hakka Stone Iwagumi layouts.



Eleocharis acicularis was divided into small quantities to make it easier to plant them in a bundle. The planting was carefully laid out by using Pro-Pinsettes L.

A group of stones on the left side is consisting of two stones. A smaller “Suteishi(sacrificial stone)” is hiding behind the bigger “Fukuishi(secondary stone).” The Suteishi was placed there to create a natural resonance.



The Oyaishi with a lot of mushi-kui makes its strong presence. Hakka Stone’s powerful presence is toned down with the soft impression of *Eleocharis acicularis*.



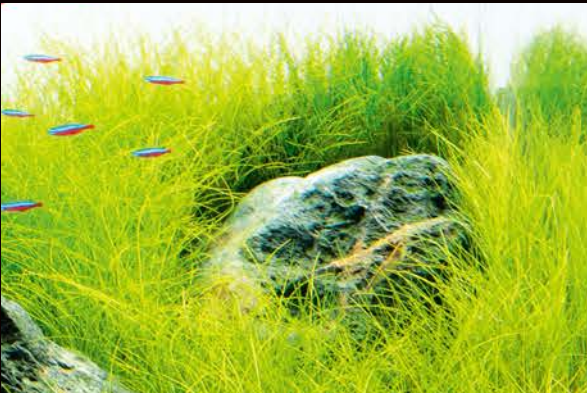
Aquascape Completion



©AQUA DESIGN AMANO



A single species of Cardinal Tetra looks very nice in the single-plant Iwagumi layout. Schooling Cardinal Tetras swim in the same direction. And with their movement, we can feel the flow of water.



Another Fukuishi was placed on a mound of soil located on the right rear side of the Oyaishi. By making mounds on the substrate like this, you can further define the water flow, depicted by the Oyaishi’s inclination.

A family is living in a small house in an obscure corner of a certain city —
in that house lives the family's spoiled four-year-old boy Kun-chan. When Kun-chan gets a little sister named Mirai,
he feels that his new sister has stolen his parents' love from him,
and is overwhelmed by many experiences he undergoes for the first time in his life. In the midst of it all,
he encounters an older version of Mirai, who has journeyed from the future to find him.
With the guidance of Mirai, Kun-chan starts traveling through time, looking back his family history.
This is the beginning of a big adventure of a little boy.

Through his travel, Kun-chan experiences worlds of fantasy; he encounters a mysterious man,
who claims to be once a prince, his mother in her childhood, and a young man, who bears a resemblance to his father.
Kun-chan learns there are different forms of “family love” for the first time, and he finds out about the place where he finally arrives
and the real reason Mirai has traveled back in time to meet him.

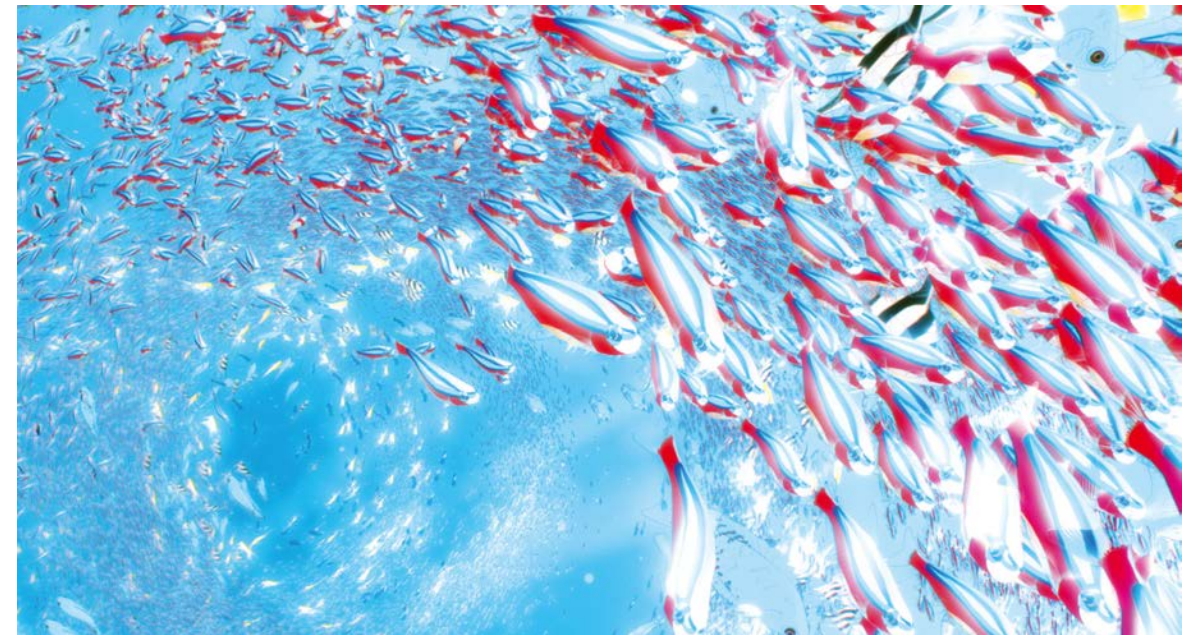
Director Mamoru Hosoda “The Girl Who Leapt Through Time” “Summer Wars”
“Wolf Children” “The Boy and the Beast”

MIRAI

Opens In Theaters Nationwide 20 JULY



©2018 Studio Chizu



Swarming Cardinal Tetra, taking them to a never-seen-before World.

“MIRAI” is this summer’s must-see animation film!

Director Mamoru Hosoda’s latest movie, “MIRAI” (Studio Chizu Production) will be released on 20 July nationwide in Japan. The film will follow the story of a 4-year old boy, Kun-chan, and his experiences traveling through time. In the movie, there is a memorable scene where the underwater world of planted aquarium overwraps with his family garden. Not only that, there are some scenes related to the aquarium hobby; the planted aquarium tank in the house of Kun-chan, and a swarming of Cardinal Tetra. ADA has taken part of this film project by supervising the description of those scenes, and examining the historical accuracy of aquarium systems for the movie. Prior to the production of the movie, Mr. Hosoda visited ADA Nature Aquarium Gallery to study actual planted aquariums, and created their sample

images. In our talks, he showed strong obsession even with smallest details. He paid careful attention to aquarium equipment and types of aquatic plants shown in the movie and verified if they are authentically accurate. So please visit a theater near you, and check by yourself how those images of aquariums play a role in the movie, and watch the adventure of Kun-chan with his sister Mirai from the future. We feel very delighted to make a small contribution to Mr. Hosoda’s latest film work. A movie event will open in the Sumida Aquarium in Tokyo Skytree Town, where you can experience a 7-meter-wide aquarium with swarming of 2,000 Cardinal Tetra. Another exhibition showcasing Mamoru Hosoda’s art works will be held at Gallery Aamo in Tokyo Dome City. Please don’t miss it!

[EVENT INFORMATION]

■MIRAI × Sumida Aquarium

A story of great life in a small world

July 13 – September 17, 2018

Venue : Sumida Aquarium

URL : <http://www.sumida-aquarium.com>

■Exhibition: MIRAI no mirai – the world of Mamoru Hosoda

July 25, 2018–September 17, 2018

Venue : Gallery Aamo, Tokyo Dome City

URL : <http://mirai-ten.jp/>





DOOA, an inspiring brand, helps you enjoy aquatic plants more freely. Minimal and easy, and designed as a platform allowing everyone to nurture plants indoors. Feel closer to nature, and bring beauty into your life.

A Wabi-Kusa layout that provides a “soothing effect of aquatic plants” to the viewers

This layout in a System Aqua 30 was produced primarily with stem-plant Wabi-Kusas and without using more assertive layout materials, such as stones and driftwood. It is often said that aquatic plants can provide a soothing effect and relaxation to viewers. The layout was created by placing more importance on this unique feature of aquatic plants rather than artistic expression as aquascape. System Aqua 30 is an integrated aquarium with a built-in filter that can be set up anywhere. Such a layout based on the concept of “the soothing effect of aquatic plants” may be good for a living room or a bedroom. Incorporating the relaxing effect of aquatic plants into our daily lives is one of the objectives of DOOA.



DOOA SOL STAND G
DOOA SOL STAND G Mounting piece
DOOA SYSTEM AQUA 30
DOOA MISTFLOW
DOOA BASE STAND 35
CO₂ Forest Bottle
CO₂ System 74-YA/Ver.2
Clear Stand for CO₂ System 74
DOOA COUNT DIFFUSER
NA Control Timer II
DOOA TROPICAL RIVER SAND
DOOA SUIKEI LIQUID

[Plants]

Wabi-Kusa Karen

Wabi-Kusa *Rotala rotundifolia* 'Green'

Wabi-Kusa *Myriophyllum mattogrossense*

Wabi-Kusa *Hemianthus micranthemoides* (Pearl Grass)

Taxiphyllum barbieri (Willow Moss)

[Fish]

Paracheirodon innesi

Shooting date: April 17th, 2018 (ADA)

Creation & Text by: Daisuke Inoue

©AQUA DESIGN AMANO



Neon Tetra was selected for this layout. The movement of the fish among the beautiful bushes of aquatic plants enhances the soothing effect.

©AQUA DESIGN AMANO

Enjoy DOOA | Daisuke Inoue



DOOA, an inspiring brand, helps you enjoy aquatic plants more freely. Minimal and easy, and designed as a platform allowing everyone to nurture plants indoors. Feel closer to nature, and bring beauty into your life.



An attractive thicket of stem plants is the primary attraction of this layout. A layout can be created easily by arranging a Wabi-Kusa of stem plants in an aquarium instead of planting plants using tweezers.



Koke Stones, to which Willow Moss was attached, are the only layout material in this layout. Minimizing the number of layout materials accentuated the aquatic plants and produced a tranquil atmosphere.



While adding a mixture of community fishes can produce a colorful and lively impression, only Neon Tetra was added to this layout to produce a relaxing and tranquil atmosphere.

An easy layout produced with Wabi-Kusa and Koke Stones without using tweezers

This layout was put together simply by using Wabi-Kusas and Koke Stones to match the concept of System Aqua 30, which can be set up anywhere with ease. A thin layer of cosmetic sand was placed as the substrate, and then Wabi-Kusas and Koke Stones wrapped with Willow Moss were arranged. Arranging Willow Moss, Pearl Grass, and other stem plants in increasing order of height from front to back produced an attractive thicket and hid the lower part of the stem plants. A larger number of red, stem plant Wabi-Kusas were used intentionally by assuming that they can be obscured by adjacent aquatic plants.



NEO GLASS TERRA H23

The stream of a countryside forest in Neo Glass Terra H23

A Neo Glass Terra H23 can be enjoyed by itself as a long aquarium, although it can be set up with a Wabi-Kusa Wall 60 using a specialized stand. A realistic, early-summer waterfront environment was recreated in this aquarium.

Early-summer waterfront in a long aquarium created with Wabi-Kusas and driftwood

DOOA CO₂ injection system and filter pipes are compatible with Neo Glass Terra H23. A waterfront environment can be recreated by equipping the tank with various ADA Nature Aquarium products. This layout depicts a waterfront scenery at a Japanese countryside forest in early summer by simply arranging a Wabi-Kusa Mizube(waterfront) MIX and three driftwood branches in the tank. Is it because I feel nostalgic about a countryside scenery that the mere sight of tiny fish that goes in and out of the aquatic plants makes me feel excited?



Neo Glass Terra H23

Neo Glass Terra H23 is a longer, stylish aquarium that can be enjoyed in various ways through free and creative thinking. It is well suited for recreating a waterfront environment.



CO2 Count Diffuser

A glass CO₂ diffuser with an integrated bubble counter. It can be installed easily, even in a low profile aquarium, since the upward facing glass CO₂ inflow tube allows a silicone tube to be connected without bending.



P-1

Stream Pipe P Arc

Stream Pipe P Arc is a glass outflow pipe that can be connected to a Super Jet Filter. It creates a slightly downward water current in an aquarium.



P-1

Stream Pipe P Orb

Stream Pipe P Orb is a glass outflow pipe that creates a gentle, upwelling water flow.



V-1

Stream Pipe V

Stream Pipe V is a glass inflow pipe perfect for a Neo Glass Terra H23. It can be installed without using a noticeable suction cup.



Wabi-Kusa Mizube MIX

A new Wabi-Kusa product available for a limited time. It contains wetland plants, such as *Sagittaria sagittifolia*, *Scirpus triangulatus* Roxb., and *Polygonum*.

- Solar RGB
- DOOA NEO GLASS TERRA H23cm
W60xD30xH18/23 (cm)
- Wood Cabinet (Off-White)
W60xD30xH70 (cm)
- DOOA CO₂ COUNT DIFFUSER
- Super Jet Filter ES-150
- DOOA STREAM PIPE ARC P-1
- DOOA STREAM PIPE V-1
- NA Control Timer II
- DOOA TROPICAL RIVER SOIL
- DOOA WABI-KUSA MIST

[Plants]

Wabi-Kusa Mizube MIX
(*Sagittaria trifolia*, *Scirpus triangulatus* Roxb.,
Polygonum sp., *Eleocharis acicularis*,
Hydrocotyle, *Taxiphyllum barbieri*)
Wabi-Kusa *Ludwigia glandulosa*
Wabi-Kusa *Eleocharis parvula*
Oenanthe javanica
Heteranthera zosterifolia
[Fish]
Oryzias sakaizumii
Acheilognathus melanogaster
Cobitis biwae
Crossocheilus siamensis
Otocinclus sp.
Caridina multidentata

Shooting date: May 23rd, 2018 (ADA)
Creator: Yusuke Homma
©AQUA DESIGN AMANO

MAKE & KEEP

SOL STAND G & NEO GLASS AIR

Easy-to-install, high performance lighting set and glass tank for growing various types of plants.

DOOA SOL STAND G

SOL STAND G

A flexible and effective lighting for aquatic plants

SOL Stand G's slim lighting unit is easily movable up and down according to aquarium sizes and types of aquatic plants. The lighting system efficiently grow aquatic plants under both submersed and emerged conditions. In the aquarium shown below, a CO₂ system is installed and the lighting unit is set close to the tank. Here, we can see the sun-loving *Riccia* is actively undergoing photosynthesis and producing plenty of oxygen in the tank.

DATA ■DOOA NEO GLASS AIR W20×D20×H20 (cm)
 ■DOOA Neo Glass Cover 20×20 (cm) / ■DOOA SOL STAND G /
 ■CO₂ System 74-YA/Ver.2 / ■CO₂ Metal Stand / ■CO₂ Forest Bottle /
 ■DOOA CO₂ MINI COUNTER / ■DOOA CO₂ MINI DIFFUSER Ø10 /
 ■DOOA TROPICAL RIVER SAND / ■DOOA SUIKEI LIQUID /
 ■Mini Internal Filter (Prototype)
 [Aquatic plants] *Riccia fluitans* / *Eleocharis acicularis*
 [Fish] *Aplocheilichthys macrophthalmus*



MAKE & KEEP

Each aquatic plant has its preferred growth conditions. Whether emerged or submersed, plants require appropriate lighting for their healthy growth. Emerged leaves of aquatic plants can grow under natural sunlight spilling into the room, but when growing the plants in a room without natural light, or cultivating them underwater, sufficient lighting is necessary. In this issue, we present many styles of keeping aquatic plants in DOOA NEO GLASS AIR with DOOA SOL STAND G.

NEO GLASS AIR
 W15×D15×H30 (cm)
 For tall size Neo Glass AIR, slide up the lighting unit to light it from above. Two 15-cm-wide tanks can sit next to each other under one lighting unit.



Touch control sensor switch



SOL STAND G can be controlled by Touch-sensor switch located on the lower side of the lighting unit. Please do not turn on or off the light by connecting or pulling off the magnet connector. It may cause product failure.



NEO GLASS AIR
 W15×D15×H25 (cm)
 When cultivating *Cryptocoryne* in emerged condition, you can control the lighting intensity by adjusting the height of Lighting Unit, and the humidity by placing Neo Glass Air Cover over the tank.

NEO GLASS AIR
 W30×D18×H12 (cm)
 Aqua-Terrarium designed in a long Neo Glass AIR. Keeping the lighting unit away from the tank, you can freely arrange layout materials.



Stem plants are grown densely in a Wabi-Kusa. Approximately 70 different types of aquatic plants are selected and combined to produce Wabi-Kusa. Although some of the plants may look identical at a glance, their characteristics and growing conditions will vary. Let's look at some aquatic plants that look similar to each other.

The Collection of Similar Aquatic Plants

Wabi-Kusa showcases the beauty of emerged-grown leaves growing in clusters. When you look at them closely, you may notice some similar plants that you might not differentiate at an initial glance among them. Even if they appear similar to each other, their growing conditions and characteristics are often different from each other. Their individual characteristics are explained below, along with their photographs. These aquatic plants are mixed with primary plants, such as *Rotala* and *Ludwigia*, in such a manner that they will emerge as an accent

plant among the primary plants. Their characteristic appearances can be distinguished from a distance as they grow. They can also influence the overall atmosphere of a Stem Plant MIX. Although some are not the type of plants that are frequently used in planted layouts, they have their own personalities and may delight you with something unexpected while you grow them for a period of time. While Wabi-Kusa, as a group of aquatic plants, is attractive, we should turn our attention sometimes to individual plants as well.

Myriophyllum mattogrossense

It is an easy to use stem plant in a layout. Its green color is somewhat darker submersed in water than emerged above water.

Limnophila sessiliflora

Since it has relatively sturdy stems, it grows well and can hold its own among tall plants, such as *Rotala*.

Hottonia palustris

This plant extends its leaves out widely as it grows larger. It grows well in relatively low temperature as well.

Bacopa myriophylloides

It is a small plant with an upright growth habit. It looks attractive when combined with short aquatic plants.

Rotala wallichii

Rotala with whorls of fine leaves. Its leaves and stems are finer than those of *R. Nanjenshan*. Its stems tend to be slightly reddish.

Myriophyllum 'Guyana'

The plant has a cute appearance. Its submersed leaves, emerged leaves, and stems are both delicate in appearance. It tends to grow sideways, developing roots one after another from its nodes.



Plant Art Studio



Aponogeton madagascariensis

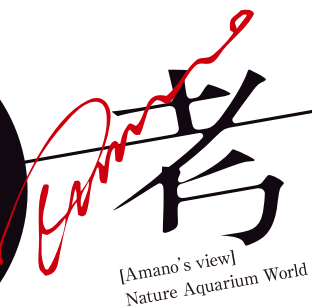
09

A delicate, fragile leaf swayed underwater and pleased me with its cool appearance. With movement of water, I captured its energetic, refreshing vibe with one shot.

Photo / Yusuke Homma



This is the essay Takashi Amano wrote for his planted aquarium collection book *Glass no Naka no Daishizen* (*Nature Aquarium World*) published in 1992. It gives the opportunity to understand Amano's unique views of nature and his experience.



Mr. Fujinami's Garden
Photo&Text/ Takashi Amano



Long ago, the name Muramatsu inspired fear and respect in the land of Echigo (present day Niigata) where that clan ruled. Now the name is more pleasantly associated with Muramatsu Park, which stands on the site of the castle that once overlooked the prosperous surrounding town. The park is famous for the hundreds of large cherry trees that blossom in unison every spring, attracting huge flower-viewing crowds.

A narrow mountain road cuts across a section of the park and leads to a few lovely branches of the Semmi and Hayade Rivers. The clear waters reflect the colors of the seasons, be they the new green buds of spring or the red and yellow leaves of autumn. The Semmi is the more placid of the two rivers, so it is better for children to swim in. Where this river hits level ground and loses its rapids, there is a wide dry river bed that is perfect for camping and barbecues. Near this river bed is a rest cabin called the Fujisuke Cabin, which is managed by my brother's father-in-law, Harumoto Watanabe. We often meet there and head off to explore the cabin's environs.

He has shown me a lot of wonderful things. For example, when he first introduced me to the beautiful, blackish rocks known as Semmikawa rocks, which I often use in my aquaria, I couldn't believe how perfect they were. Most of

the really fine specimens have been snatched up by bonsai and gardening enthusiasts, but many that are good enough for aquarium layouts are still to be found lying about.

There are some deserted villages near the Semmi River. In fact, my sister-in-law was born in a village very deep in the surrounding mountains, and I was surprised how many abandoned homes there were, and how many people used to live in such a remote area. Farthest of all into the mountains is the home of Mr. Fujinami. It is a spacious home made by a skilled carpenter. The original owner was the local landlord. Whoever it was had excellent taste in gardens.

I have seen a lot of famous gardens, and I could go on about this or that technical aspect or school of thought, but this simple garden is perfection. It consists only of some trees, moss, and bamboo grass. And one important element the original builder probably didn't have in mind: time. Time took over and added some wildness to the human construction. I have never seen a garden so perfectly assimilated into the surrounding nature.

The result of the aged garden combined with the mountains in the background and the old home with the thatched roof is pure wabi-sabi. I have visited it many times since that first delightful encounter, and I am always grateful for the warm reception of my gracious host.

Nature Aquarium World (TFH, 1992)

INFORMATION

THE INTERNATIONAL AQUATIC PLANTS LAYOUT CONTEST 2018

The World's Largest
Planted Aquarium Layout
Competition

Launched in 2001,
The International Aquatic Plants
Layout Contest celebrates its 18th
anniversary this year.

A total of 1,977 entries were sub-
mitted from 68 countries and areas
around the world.

Thank you for your entries!

Total Entries
1,977

Countries
& Areas
68

 **Japan**
573

 **China**
391

 **India**
117

 **Indonesia**
79

 **Spain**
77

 **Taiwan**
64

 **Malaysia**
44

 **Vietnam**
44

 **Italy**
36

 **Korea**
35

Singapore 32 / Brazil 31 / Poland 31 / Mexico 28 / United States 25 / Germany 23 / Romania 23
France 22 / Thailand 22 / Hong Kong 20 / Philippines 18 / Hungary 17 / Czech Republic 16
Netherlands 16 / Russia 14 / Bangladesh 12 / Iran 12 / Canada 11 / Morocco 11 / Portugal 11
United Kingdom 11 / Austria 8 / Ukraine 8 / Chile 6 / Mongolia 6 / Qatar 5 / Sweden 5 / Australia 4
Denmark 4 / Greece 4 / Israel 4 / Lithuania 4 / Sri Lanka 4 / Turkey 4 / Belarus 3 / Belgium 3
Macau 3 / Mauritius 3 / Reunion 3 / Slovakia 3 / Argentina 2 / Croatia 2 / Egypt 2 / Guatemala 2
Ireland 2 / Latvia 2 / Serbia 2 / South Africa 2 / United Arab Emirates 2 / Andorra 1 / Cambodia 1
Colombia 1 / Jordan 1 / Kazakhstan 1 / Macedonia 1 / New Zealand 1 / Norway 1 / Scotland 1

NATURE AQUARIUM PARTY 2018
YOUR GREEN, OUR WORLD
2018.10.13.SAT-14.SUN

Venue: ANA Crown Plaza Niigata
ADA HQ

You can register online. → iaplc.com

NEXT AQUA JOURNAL ENGLISH version

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AQUA SOIL

AMAZONIA II

ADA NATURE AQUARIUM

To know Mother Nature is to love her smallest creations.
We recreate the natural eco-system in our aquarium, which leads to
a better understanding of the global environment.

Launch of AQUA SOIL - AMAZONIA II

Features

- Made of 100% fine natural black soil. (Material is different from AQUA SOIL - AMAZONIA)
- Hardly causes cloudy water during the initial set-up period.
- Combined with Power Sand Basic or Advance, AMAZONIA II enables aquatic plants to grow healthier.