Why My Dad Should Get an Aquascape Pond and Not a "Proper Koi Pond"





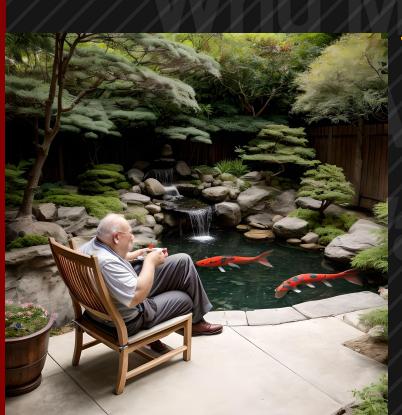
A Gentle Comparison

- Biggest Differences
- Parallels
- Exclusive Benefits









Biggest Differences

Ecosystem Pond Failure is Limited to The **Pump**.

Proper Koi Ponds have SIX Achilles Heels.

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Proper Koi Ponds "Achilles Heels":

Aerator – Pump – UV – Bottom Drain – External Filter

A failure of any of the above parts can kill the fish or drain the pond



Biggest Differences Ecosystem-Pond Fish Live When A System Component Fails.



Biggest Differences

Ecosystem Ponds Don't Need Daily Checking, or a User's Manual, When You Go Out of Town.

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Biggest Differences

Ecosystem Ponds Use Gravel as The Filter. Proper Koi Ponds Have Elaborate External Filtration.



Biggest Differences

Ecosystem Ponds have nitrate control. Proper Koi Ponds do NOT and require water changes.

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Biggest Differences

Proper Koi Ponds are un-necessarily deep. Ecosystem ponds are as deep as they need to be, based on owner expectations.



Biggest Differences

Proper Koi Ponds are bottomdrained. Ecosystem ponds don't need a bottom drain to work.

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Parallels

ALL Filtration Systems Keep **Poop** in The Water Column



Parallels

ALL Filtration Systems Must Cope With Algae / Green Water

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Parallels ALL Filtration Systems Fail If They Are Abused / Neglected



All Koi Ponds may have Alkalinity issues or require activated carbon.

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Benefits: Aquascape Pond

- Once a Year Maintenance
- Natural Background for Fish
- Natural Forage
- Less "Stuff" to Go Wrong
- Total System Failure Doesn't Kill All Your Fish.

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nefits: Aquascape Pon

- Simple Upkeep
- **Spawning Success & Survival**
- Minimal chemical cost







<u> Benefits: Aquascape Pond</u>

- Can Look Completely Natural
- Filter Has No "Footprint"
- Can Host Birds & Amphibians
- Extremely Low System Failure

Rate



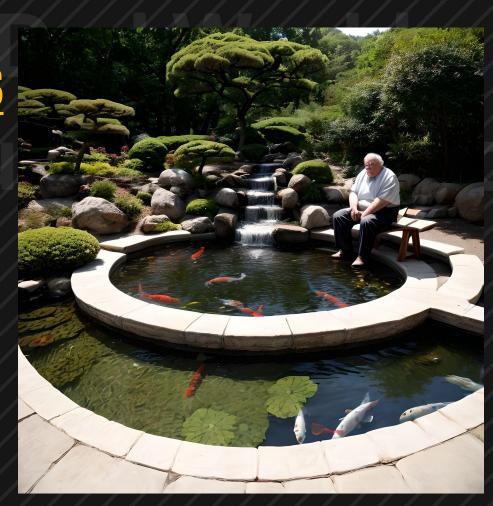
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<u>Aquascape Ponds</u>

Can Look Any Way You Want. Gravel, Filter on Waterfall, Architectural Design.

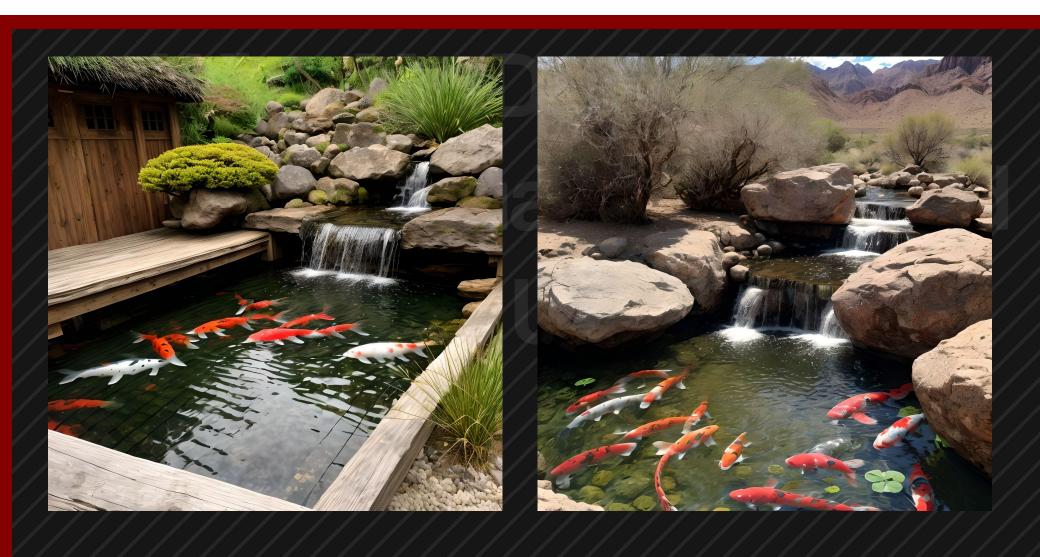


<u> Benefits: Aquascape Pond</u>

- Quiet Filtration
- Does Not Require Anything To Be Successful Other Than a Pump.







BUT: Aquascape Pond

 Dad Would NOT Have One Without A Blower on a Separate Circuit.

Dad Would Have <u>Constant Water</u>
 <u>Replacement.</u> (Trickle System)



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Notes: Aquascape Pond
There are "System Crutches"
to Address Impatience, Overfeedin
Underfoliage, Lack of Water
Changes, Deficient Alkalinity,
Skipped Cleanouts.

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Drawbacks: Aquascape Pond

Spring Greenwater Sometimes

Labor Intensive Cleanout

Expensive Cleanout

 Poor Installations Damage The Whole Genre



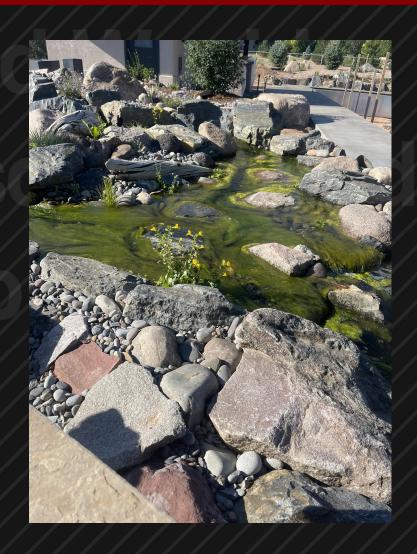
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Drawbacks: Aquascape Pond

- String Algae in Waterfall Inaccessible to Plecostomus
- This would be a problem in a "proper" koi pond if it had a waterfall too.



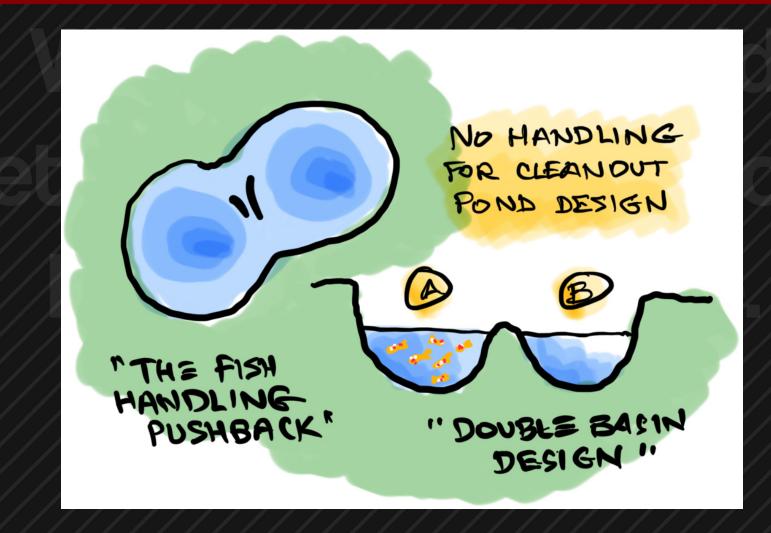
<u> Benefits: Proper Koi Pond</u>

• Easy, "Valve-Turn Maintenance"

- Black Background for Fish
- Zero Springtime Green Water
- No "Teardown" Cleanout
- (No Fish Handling)
- Herons Can't Wade In.

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Defects: Proper Koi Pond

- No Natural Forage
- No Mixoflagellates
- No Viruses
- No Plant Agglutinins
- Nitrate Immune Suppression



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Defects: Proper Koi Pond

- Koi Boredom
- Less Breeding Inclination
- & Success
- Much More Expensive
- Much Less Natural Looking



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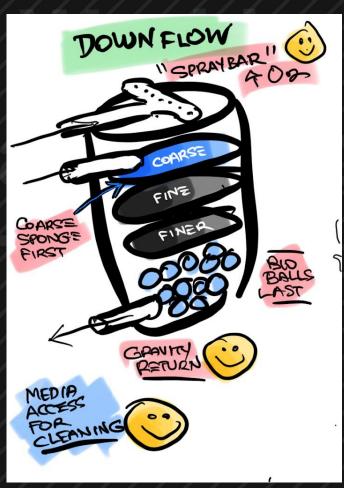


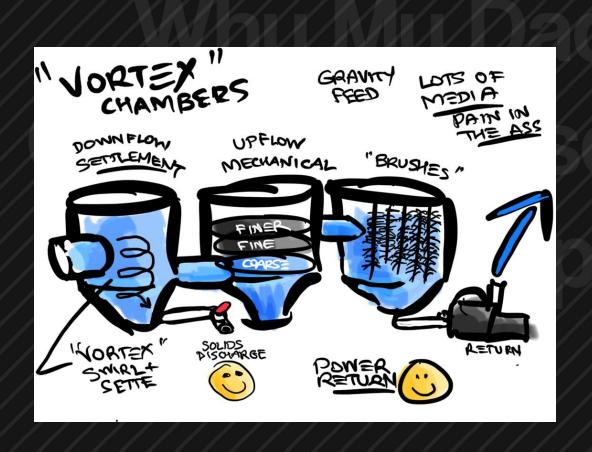


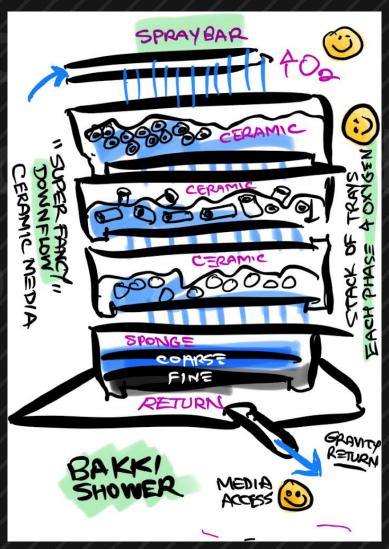
FILTRATION PROS +CONS

Upflow
downflow
Bakki
Nexus
Vortex
Bead I + 2
Bead II (aquodyne)
"BRUSHES"
Sponge filters

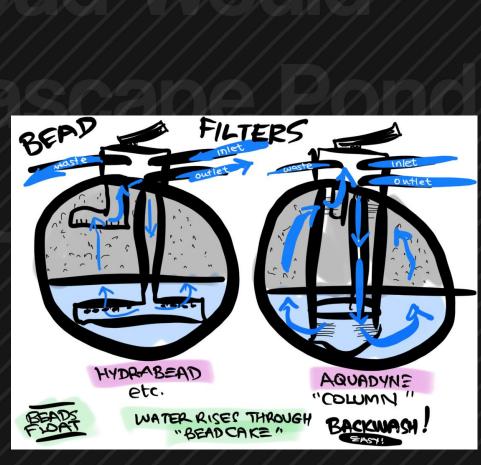


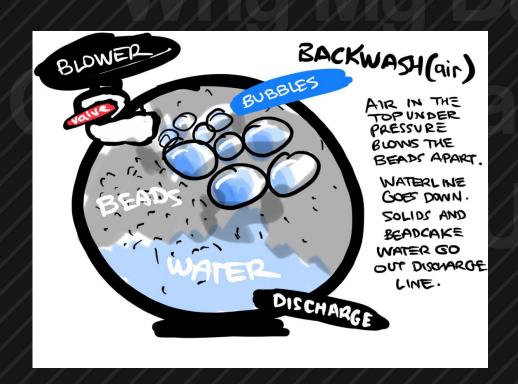




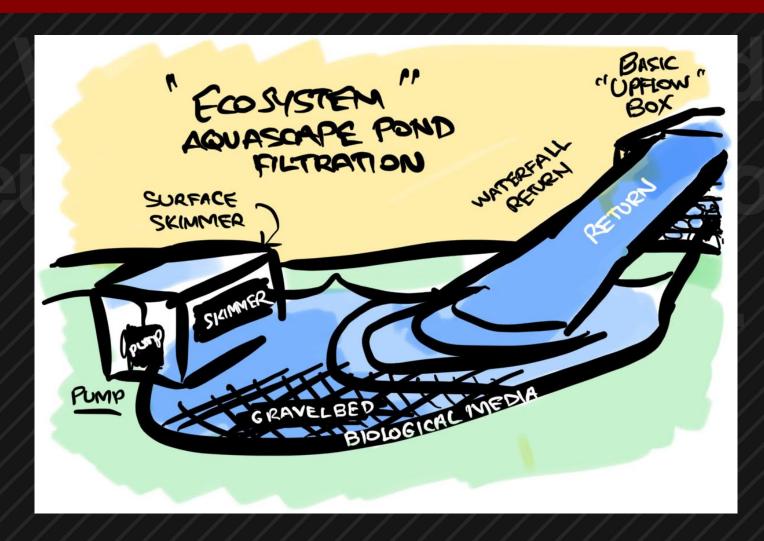












Green Water: Choose UV ...Or Plants Bacteria: Choose UV ...Or Mixoflagellates, Ambiphrya, Bacteriophages Water Clarity: Choose Chemicals & UV ...OR Plant Agglutinins, Ambiphrya, Filter feeders, Bacteriophages

SERVICE OR CONDITION	Aquascape Pond	Proper Koi Pond
Green Water	Time and Live Plants	Ultraviolet Sterilizer & / or Chemicals
Bacterial Overgrowth In Water	Biofilm in Gravel, Mixoflagellates, Bacteriophages, Plant Agglutinins	Ultraviolet Sterilizer & / or Chemicals
Nitrate Accumulation	Plants, Algae	Water Changes
Ammonia/Nitrite Reduction	Gravelbed, biofilm.	Filter Media
Solids Trapping	Gravelbed, Filter Media	Filter Media
Aeration	The Water Fall	An Aerator
Filter Cleaning	Annually	Daily to Monthly
PH Alkalinity Stablization	Rocks and Gravel	Chemicals or Oyster Shell
Brown Stained Water	Carbon & Water Changes	Carbon & Water Changes
Hazy Water	Plant Agglutinins, Filter Feeders, Biofilm, Algaebeds	Final phase polishing Filter with ultra fine media like DE or similar.

CONSIDERATIONS	AQUASCAPE GRAVEL POND	"PROPER" KOI POND	
Needs deep cleaning once a year.	YES	NO	
Needs attention daily	NO	YES	
Natural Food Grows In Pond	YES	NO	
Has Live Plants & Nitrate Control	YES	NO	
UV Is Usually Required	NO	YES	
Has Bacteriophages Mixoflagellates	YES	NO	
Needs a Bottom Drain	NO	YES	
Filtration is \$\$ and Complicated	NO	YES	
Cleanout Is Expensive	YES	n/a	
Filter is Quiet With No Footprint	YES	NO	
Koi Can Grow HUGE	YES	YES	
Koi Can Be VERY Healthy	YES	YES	
Has Good Looking Waterfall	YES	NO	
Has Gravel on the Bottom	YES	NO	



Aquascape ponds aren't the same as they used to be. **Designers are stepping up** their game, and their tech. Ponds built with gravel, upflow solids removal and waterfall returns have been making people happy for decades. They work well, and are easy peasy <mark>364</mark> Days a year.



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