

acres.\n00:16:22.000 This is the roof, saving money,\n00:16:25.000 and this is the first species to arrive here. These are killdeer.\n00:16:29.000 They showed up in five days.\n00:16:32.000 And we now have 350-pound auto workers\n00:16:34.000 learning bird songs on the Internet.\n00:16:38.000 We're developing now protocols for cities --\n00:16:40.000 that's the home of technical nutrients.\n00:16:42.000 The country -- the home of biological. And putting them together.\n00:16:45.000 And so I will finish by showing you a new city\n00:16:47.000 we're designing for the Chinese government.\n00:16:49.000 We're doing 12 cities for China right now,\n00:16:52.000 based on cradle to cradle as templates.\n00:16:54.000 Our assignment is to develop protocols for the housing\n00:16:57.000 for 400 million people in 12 years.\n00:16:59.000 We did a mass energy balance -- if they use brick,\n00:17:01.000 they will lose all their soil and burn all their coal.\n00:17:04.000 They'll have cities with no energy and no food.\n00:17:06.000 We signed a Memorandum of Understanding --\n00:17:08.000 here's Madam Deng Nan, Deng Xiaoping's daughter --\n00:17:10.000 for China to adopt cradle to cradle.\n00:17:12.000 Because if they toxify themselves, being the lowest-cost producer,\n00:17:16.000 send it to the lowest-cost distribution -- Wal-Mart --\n00:17:18.000 and then we send them all our money, what we'll discover is that\n00:17:21.000 we have what, effectively, when I was a student,\n00:17:24.000 was called mutually assured destruction.\n00:17:27.000 Now we do it by molecule. These are our cities.\n00:17:30.000 We're building a new city next to this city; look at that landscape.\n00:17:33.000 This is the site.\n00:17:35.000 We don't normally do green fields, but this one is about to be built,\n00:17:39.000 so they brought us in to intercede.\n00:17:41.000 This is their plan.\n00:17:43.000 It's a rubber stamp grid that they laid right on that landscape.\n00:17:46.000 And they brought us in and said, "What would you do?"\n00:17:49.000 This is what they would end up with, which is another color photograph.\n00:17:53.000 So this is the existing site, so this is what it looks like now,\n00:17:56.000 and here's our proposal.\n00:17:58.000 (Applause)\n00:18:02.000 So the way we approached this\n00:18:04.000 is we studied the hydrology very carefully.\n00:18:06.000 We studied the biota, the ancient biota,\n00:18:08.000 the current farming and the protocols.\n00:18:10.000 We studied the winds and the sun to make sure everybody in the city\n00:18:12.000 will have fresh air, fresh water and direct sunlight\n00:18:18.000 in every single apartment at some point during the day.\n00:18:21.000 We then take the parks and lay them out as ecological infrastructure.\n00:18:25.000 We lay out the building areas.\n00:18:28.000 We start to integrate commercial and mixed use\n00:18:29.000 so the people all have centers and places to be.\n00:18:32.000 The transportation is all very simple,\n00:18:34.000 everybody's within a five-minute walk of mobility.\n00:18:37.000 We have a 24-hour street, so that there's always a place that's alive.\n00:18:42.000 The waste systems all connect.\n00:18:44.000 If you flush a toilet, your feces will go to the sewage treatment plants,\n00:18:49.000 which are sold as assets, not liabilities.\n00:18:51.000 Because who wants the fertilizer factory that makes natural gas?\n00:18:55.000 The waters are all taken in to construct the wetlands for habitat restorations.\n00:19:00.000 And then it makes natural gas, which then goes back into the city\n00:19:04.000 to power the fuel for the cooking for the city.\n00:19:08.000 So this is -- these are fertilizer gas plants.\n00:19:10.000 And then the compost is all taken back\n00:19:13.000 to the roofs of the city, where we've got farming,\n00:19:15.000 because what we've done is lifted up the

city,\n00:19:19.000 the landscape, into the air to -- to restore the native landscape\n00:19:26.000 on the roofs of the buildings.\n00:19:28.000 The solar power of all the factory centers\n00:19:31.000 and all the industrial zones with their light roofs powers the city.\n00:19:34.000 And this is the concept for the top of the city.\n00:19:36.000 We've lifted the earth up onto the roofs.\n00:19:40.000 The farmers have little bridges to get from one roof to the next.\n00:19:44.000 We inhabit the city with work/live space on all the ground floors.\n00:19:48.000 And so this is the existing city, and this is the new city.\n00:19:53.000 (Applause)\n\nThe file is too long and its contents have been truncated.\n", "cloud_doc_url": null}, {"matched_text": "\u3010source\u3011", "start_idx": 3428, "end_idx": 3439, "alt": null, "type": "file", "name": "tactiq-free-transcript-IoRjz8iTvoo.txt", "id": "file-QAdtwx5q5xmFsPgGvYJdRiuF", "source": "my_files", "snippet": "# tactiq.io free youtube transcript\n# Cradle to cradle design | William McDonough\n# https://www.youtube.com/watch/IoRjz8iTvoo\n\n00:00:26.000 In 1962, with Rachel Carson's 'Silent Spring,' \n00:00:30.000 I think for people like me in the world of the making of things, \n00:00:35.000 the canary in the mine wasn't singing. \n00:00:39.000 And so the question that we might not have birds \n00:00:42.000 became kind of fundamental to those of us wandering around \n00:00:45.000 looking for the meadowlarks that seemed to have all disappeared. \n00:00:48.000 And the question was, were the birds singing? \n00:00:51.000 Now, I'm not a scientist, that'll be really clear. \n00:00:55.000 But, you know, we've just come from this discussion of what a bird might be. \n00:00:59.000 What is a bird? \n00:01:00.000 Well, in my world, this is a rubber duck. \n00:01:04.000 It comes in California with a warning -- \n00:01:06.000 'This product contains chemicals known by the State of California \n00:01:09.000 to cause cancer and birth defects or other reproductive harm.' \n00:01:16.000 This is a bird. \n00:01:19.000 What kind of culture would produce a product of this kind \n00:01:22.000 and then label it and sell it to children? \n00:01:27.000 I think we have a design problem. \n00:01:30.000 Someone heard the six hours of talk that I gave \n00:01:35.000 called 'The Monticello Dialogues' on NPR, and sent me this as a thank you note -- \n00:01:41.000 'We realize that design is a signal of intention, \n00:01:43.000 but it also has to occur within a world, \n00:01:46.000 and we have to understand that world in order to \n00:01:50.000 imbue our designs with inherent intelligence, \n00:01:53.000 and so as we look back at the basic state of affairs \n00:01:58.000 in which we design, we, in a way, need to go to the primordial condition \n00:02:03.000 to understand the operating system and the frame conditions of a planet, \n00:02:08.000 and I think the exciting part of that is the good news that's there, \n00:02:13.000 because the news is the news of abundance, \n00:02:16.000 and not the news of limits, \n00:02:18.000 and I think as our culture tortures itself now \n00:02:23.000 with tyrannies and concerns over limits and fear, \n00:02:28.000 we can add this other dimension of abundance that is coherent, \n00:02:33.000 driven by the sun, and start to imagine \n00:02:35.000 what that would be like to share.' \n00:02:42.000 That was a nice thing to get. \n00:02:44.000 That was one sentence. \n00:02:48.000 Henry James would be proud. \n00:02:50.000 This is -- I put it down at the bottom, \n00:02:52.000 but that was extemporaneous, obviously. \n00:02:55.000 The fundamental issue is that, for me, \n00:02:58.000 design is the first signal of human intentions. \n00:03:00.000 So what are our intentions, and what would our intentions be -- \n00:03:04.000 if we wake up in the morning, we have designs on the world -- \n00:03:07.000 well, what would our intention be as a species \n00:03:09.000 now that we're the dominant

species?\n00:03:11.000 And it's not just stewardship and dominion
debate,\n00:03:14.000 because really, dominion is implicit in stewardship --
\n00:03:20.000 because how could you dominate something you had killed?\n00:03:22.000
And stewardship's implicit in dominion,\n00:03:24.000 because you can't be
steward of something if you can't dominate it.\n00:03:26.000 So the question is,
what is the first question for designers?\n00:03:32.000 Now, as guardians --
let's say the state, for example,\n00:03:35.000 which reserves the right to kill,
the right to be duplicitous and so on --\n00:03:40.000 the question we're asking
the guardian at this point is\n00:03:43.000 are we meant, how are we
meant,\n00:03:45.000 to secure local societies, create world peace\n00:03:47.000 and
save the environment?\n00:03:49.000 But I don't know that that's the common
debate.\n00:03:52.000 Commerce, on the other hand, is relatively quick,\n00:03:56.000
essentially creative, highly effective and efficient,\n00:03:58.000 and fundamentally
honest, because we can't exchange\n00:04:01.000 value for very long if we
don't trust each other.\n00:04:05.000 So we use the tools of commerce primarily
for our work,\n00:04:07.000 but the question we bring to it is,\n00:04:09.000 how do
we love all the children of all species for all time?\n00:04:13.000 And so we start
our designs with that question.\n00:04:16.000 Because what we realize today is that
modern culture\n00:04:18.000 appears to have adopted a strategy of
tragedy.\n00:04:21.000 If we come here and say, 'Well, I didn't
intend\n00:04:23.000 to cause global warming on the way here,' and
\n00:04:24.000 and
we say, 'That's not part of my plan,'
\n00:04:26.000 then we realize
it's part of our de facto plan.\n00:04:29.000 Because it's the thing
that's happening because we have no other plan.\n00:04:32.000 And I was at the
White House for President Bush,\n00:04:34.000 meeting with every federal department
and agency,\n00:04:36.000 and I pointed out that they appear to have no
plan.\n00:04:40.000 If the end game is global warming, they're doing
great.\n00:04:42.000 If the end game is mercury toxification of our
children\n00:04:45.000 downwind of coal fire plants as they scuttled the Clean Air
Act,\n00:04:48.000 then I see that our education programs should be explicitly defined
as,\n00:04:52.000 'Brain death for all children. No child left
behind.'
\n00:04:54.000 (Applause)\n00:04:58.000 So, the question is, how many
federal officials\n00:05:02.000 are ready to move to Ohio and Pennsylvania with their
families?\n00:05:05.000 So if you don't have an endgame of something
delightful,\n00:05:09.000 then you're just moving chess pieces
around,\n00:05:11.000 if you don't know you're taking the
king.\n00:05:12.000 So perhaps we could develop a strategy of change,\n00:05:15.000
which requires humility. And in my business as an architect,\n00:05:18.000 it's
unfortunate the word 'humility' and the word
'architect'\n00:05:22.000 have not appeared in the same paragraph since
'The Fountainhead.'
\n00:05:25.000 So if anybody here has trouble with the
concept of design humility,\n00:05:30.000 reflect on this -- it took us 5,000
years\n00:05:33.000 to put wheels on our luggage.\n00:05:37.000 So, as Kevin Kelly
pointed out, there is no endgame.\n00:05:42.000 There is an infinite game, and
we're playing in that infinite game.\n00:05:46.000 And so we call it 'cradle
to cradle,'
\n00:05:48.000 and our goal is very simple.\n00:05:49.000 This is what
I presented to the White House.\n00:05:51.000 Our goal is a delightfully diverse, safe,
healthy and just world,\n00:05:54.000 with clean air, clean water, soil and power --
\n00:05:57.000 economically, equitably, ecologically and elegantly enjoyed,

period.\n00:06:01.000 (Applause)\n00:06:04.000 What don't you like about this?\n00:06:07.000 Which part of this don't you like?\n00:06:09.000 So we realized we want full diversity,\n00:06:11.000 even though it can be difficult to remember what De Gaulle said\n00:06:14.000 when asked what it was like to be President of France.\n00:06:16.000 He said, "What do you think it's like trying to run a country with 400 kinds of cheese?"\n00:06:20.000 But at the same time, we realize that our products are not safe and healthy.\n00:06:23.000 So we've designed products\n00:06:25.000 and we analyzed chemicals down to the parts per million.\n00:06:27.000 This is a baby blanket by Pendleton that will give your child nutrition\n00:06:30.000 instead of Alzheimer's later in life.\n00:06:32.000 We can ask ourselves, what is justice,\n00:06:34.000 and is justice blind, or is justice blindness?\n00:06:38.000 And at what point did that uniform turn from white to black?\n00:06:43.000 Water has been declared a human right by the United Nations.\n00:06:46.000 Air quality is an obvious thing to anyone who breathes.\n00:06:48.000 Is there anybody here who doesn't breathe?\n00:06:51.000 Clean soil is a critical problem -- the nitrification, the dead zones\n00:06:54.000 in the Gulf of Mexico.\n00:06:56.000 A fundamental issue that's not being addressed.\n00:06:58.000 We've seen the first form of solar energy\n00:07:00.000 that's beat the hegemony of fossil fuels in the form of wind\n00:07:03.000 here in the Great Plains, and so that hegemony is leaving.\n00:07:06.000 And if we remember Sheikh Yamani when he formed OPEC,\n00:07:09.000 they asked him, "When will we see the end of the age of oil?"\n00:07:12.000 I don't know if you remember his answer, but it was,\n00:07:15.000 "The Stone Age didn't end because we ran out of stones.""\n00:07:19.000 We see that companies acting ethically in this world\n00:07:23.000 are outperforming those that don't.\n00:07:24.000 We see the flows of materials in a rather terrifying prospect.\n00:07:29.000 This is a hospital monitor from Los Angeles, sent to China.\n00:07:32.000 This woman will expose herself to toxic phosphorous,\n00:07:35.000 release four pounds of toxic lead into her children's environment,\n00:07:38.000 which is from copper.\n00:07:40.000 On the other hand, we see great signs of hope.\n00:07:42.000 Here's Dr. Venkataswamy in India, who's figured out\n00:07:45.000 how to do mass-produced health.\n00:07:47.000 He has given eyesight to two million people for free.\n00:07:51.000 We see in our material flows that car steels don't become car steel again\n00:07:54.000 because of the contaminants of the coatings --\n00:07:56.000 bismuth, antimony, copper and so on.\n00:07:58.000 They become building steel.\n00:07:59.000 On the other hand, we're working with Berkshire Hathaway,\n00:08:01.000 Warren Buffett and Shaw Carpet,\n00:08:04.000 the largest carpet company in the world.\n00:08:05.000 We've developed a carpet that is continuously recyclable,\n00:08:08.000 down to the parts per million.\n00:08:11.000 The upper is Nylon 6 that can go back to caprolactam,\n00:08:14.000 the bottom, a polyolephine -- infinitely recyclable thermoplastic.\n00:08:17.000 Now if I was a bird, the building on my left is a liability.\n00:08:21.000 The building on my right, which is our corporate campus for The Gap\n00:08:24.000 with an ancient meadow, is an asset -- its nesting grounds.\n00:08:29.000 Here's where I come from. I grew up in Hong Kong,\n00:08:31.000 with six million people in 40 square miles.\n00:08:33.000 During the dry season, we had four hours of water every fourth day.\n00:08:37.000 And the relationship to landscape was that of farmers who have been\n00:08:40.000 farming the same piece of ground for 40 centuries.\n00:08:44.000 You can't farm the same piece of ground for 40 centuries\n00:08:46.000 without understanding nutrient

flow.\n00:08:49.000 My childhood summers were in the Puget Sound of Washington,\n00:08:52.000 among the first growth and big growth.\n00:08:54.000 My grandfather had been a lumberjack in the Olympics,\n00:08:56.000 so I have a lot of tree karma I am working off.\n00:09:01.000 I went to Yale for graduate school,\n00:09:03.000 studied in a building of this style by Le Corbusier,\n00:09:05.000 affectionately known in our business as Brutalism.\n00:09:09.000 If we look at the world of architecture,\n00:09:12.000 we see with Mies' 1928 tower for Berlin,\n00:09:15.000 the question might be, "Well, where's the sun?"\n00:09:17.000 And this might have worked in Berlin, but we built it in Houston,\n00:09:20.000 and the windows are all closed. And with most products\n00:09:23.000 appearing not to have been designed for indoor use,\n00:09:25.000 this is actually a vertical gas chamber.\n00:09:28.000 When I went to Yale, we had the first energy crisis,\n00:09:31.000 and I was designing the first solar-heated house in Ireland\n00:09:33.000 as a student, which I then built --\n00:09:35.000 which would give you a sense of my ambition.\n00:09:37.000 And Richard Meier, who was one of my teachers,\n00:09:39.000 kept coming over to my desk to give me criticism,\n00:09:41.000 and he would say, "Bill, you've got to understand- --\n00:09:43.000 solar energy has nothing to do with architecture."\n00:09:51.000 I guess he didn't read Vitruvius.\n00:09:53.000 In 1984, we did the first so-called "green office" in America\n00:09:57.000 for Environmental Defense.\n00:09:58.000 We started asking manufacturers what were in their materials.\n00:10:01.000 They said, "They're proprietary, they're legal, go away."\n00:10:03.000 The only indoor quality work done in this country at that time\n00:10:05.000 was sponsored by R. J. Reynolds Tobacco Company,\n00:10:08.000 and it was to prove there was no danger\n00:10:09.000 from secondhand smoke in the workplace.\n00:10:12.000 So, all of a sudden, here I am, graduating from high school in 1969,\n00:10:16.000 and this happens, and we realize that "away" went away.\n00:10:19.000 Remember we used to throw things away, and we'd point to away?\n00:10:23.000 And yet, NOAA has now shown us, for example --\n00:10:25.000 you see that little blue thing above Hawaii?\n00:10:27.000 That's the Pacific Gyre.\n00:10:28.000 It was recently dragged for plankton by scientists,\n00:10:30.000 and they found six times as much plastic as plankton.\n00:10:34.000 When asked, they said, "It's kind of like a giant toilet that doesn't flush."\n00:10:39.000 Perhaps that's away.\n00:10:40.000 So we're looking for the design rules of this --\n00:10:42.000 this is the highest biodiversity of trees in the world, Irian Jaya,\n00:10:44.000 259 species of tree, and we described this\n00:10:48.000 in the book, "Cradle to Cradle."\n00:10:49.000 The book itself is a polymer. It is not a tree.\n00:10:53.000 That's the name of the first chapter -- "This Book is Not a Tree."\n00:10:56.000 Because in poetics, as Margaret Atwood pointed out,\n00:10:59.000 "we write our history on the skin of fish\n00:11:01.000 with the blood of bears."\n00:11:04.000 And with so much polymer, what we really need\n00:11:05.000 is technical nutrition, and to use something\n00:11:08.000 as elegant as a tree -- imagine this design assignment:\n00:11:11.000 Design something that makes oxygen, sequesters carbon,\n00:11:13.000 fixes nitrogen, distills water, accrues solar energy as fuel,\n00:11:17.000 makes complex sugars and food, creates microclimates,\n00:11:21.000 changes colors with the seasons and self-replicates.\n00:11:27.000 Well, why don't we knock that down and write on it?\n00:11:29.000 (Laughter)\n00:11:35.000 So, we're looking at the same

criteria\n00:11:37.000 as most people -- you know, can I afford it?\n00:11:39.000 Does it work? Do I like it?\n00:11:41.000 We're adding the Jeffersonian agenda, and I come from Charlottesville,\n00:11:43.000 where I've had the privilege of living in a house designed by Thomas Jefferson.\n00:11:47.000 We're adding life, liberty and the pursuit of happiness.\n00:11:53.000 Now if we look at the word "competition,"\n00:11:54.000 I'm sure most of you've used it.\n00:11:56.000 You know, most people don't realize it comes from\n00:11:57.000 the Latin *competere*, which means strive together.\n00:12:00.000 It means the way Olympic athletes train with each other.\n00:12:03.000 They get fit together, and then they compete.\n00:12:06.000 The Williams sisters compete -- one wins Wimbledon.\n00:12:08.000 So we've been looking at the idea of competition\n00:12:11.000 as a way of cooperating in order to get fit together.\n00:12:15.000 And the Chinese government has now --\n00:12:16.000 I work with the Chinese government now --\n00:12:18.000 has taken this up.\n00:12:20.000 We're also looking at survival of the fittest,\n00:12:22.000 not in just competition terms in our modern context\n00:12:24.000 of destroy the other or beat them to the ground,\n00:12:27.000 but really to fit together and build niches\n00:12:29.000 and have growth that is good.\n00:12:31.000 Now most environmentalists don't say growth is good,\n00:12:33.000 because, in our lexicon, asphalt is two words: assigning blame.\n00:12:38.000 But if we look at asphalt as our growth,\n00:12:41.000 then we realize that all we're doing is destroying\n00:12:43.000 the planetary's fundamental underlying operating system.\n00:12:47.000 So when we see $E = mc^2$ come along, from a poet's perspective,\n00:12:52.000 we see energy as physics, chemistry as mass,\n00:12:54.000 and all of a sudden, you get this biology.\n00:12:56.000 And we have plenty of energy, so we'll solve that problem,\n00:12:59.000 but the biology problem's tricky, because as we put through\n00:13:02.000 all these toxic materials that we disgorge,\n00:13:05.000 we will never be able to recover that.\n00:13:07.000 And as Francis Crick pointed out, nine years\n00:13:09.000 after discovering DNA with Mr. Watson,\n00:13:12.000 that life itself has to have growth as a precondition --\n00:13:16.000 it has to have free energy, sunlight\n00:13:18.000 and it needs to be an open system of chemicals.\n00:13:21.000 So we're asking for human artifice to become a living thing,\n00:13:24.000 and we want growth, we want free energy from sunlight\n00:13:26.000 and we want an open metabolism for chemicals.\n00:13:29.000 Then, the question becomes not growth or no growth,\n00:13:31.000 but what do you want to grow?\n00:13:34.000 So instead of just growing destruction,\n00:13:36.000 we want to grow the things that we might enjoy,\n00:13:38.000 and someday the FDA will allow us to make French cheese.\n00:13:41.000 So therefore, we have these two metabolisms,\n00:13:45.000 and I worked with a German chemist, Michael Braungart,\n00:13:47.000 and we've identified the two fundamental metabolisms.\n00:13:49.000 The biological one I'm sure you understand,\n00:13:51.000 but also the technical one, where we take materials\n00:13:53.000 and put them into closed cycles.\n00:13:55.000 We call them biological nutrition and technical nutrition.\n00:13:58.000 Technical nutrition will be in an order of magnitude of biological nutrition.\n00:14:02.000 Biological nutrition can supply about 500 million humans,\n00:14:05.000 which means that if we all wore Birkenstocks and cotton,\n00:14:07.000 the world would run out of cork and dry up.\n00:14:10.000 So we need materials in closed cycles,\n00:14:12.000 but we need to analyze them down to the parts per million\n00:14:14.000 for cancer, birth defects,

mutagenic effects,\n00:14:17.000 disruption of our immune systems, biodegradation, persistence,\n00:14:20.000 heavy metal content, knowledge of how we're making them\n00:14:23.000 and their production and so on.\n00:14:25.000 Our first product was a textile where we analyzed 8,000 chemicals\n00:14:29.000 in the textile industry.\n00:14:30.000 Using those intellectual filters, we eliminated [7,962.]\n00:14:35.000 We were left with 38 chemicals.\n00:14:37.000 We have since databased the 4000 most commonly used chemicals\n00:14:40.000 in human manufacturing, and we're releasing this database into the public in six weeks.\n00:14:45.000 So designers all over the world can analyze their products\n00:14:47.000 down to the parts per million for human and ecological health.\n00:14:52.000 (Applause)\n00:14:57.000 We've developed a protocol so that companies can send\n00:15:00.000 these same messages all the way through their supply chains,\n00:15:03.000 because when we asked most companies we work with -- about a trillion dollars\n00:15:06.000 -- and say, "Where does your stuff come from?" They say, "Suppliers." \n00:15:08.000 "And where does it go?" \n00:15:10.000 "Customers." \n00:15:11.000 So we need some help there.\n00:15:12.000 So the biological nutrients, the first fabrics --\n00:15:14.000 the water coming out was clean enough to drink.\n00:15:16.000 Technical nutrients -- this is for Shaw Carpet, infinitely reusable carpet.\n00:15:20.000 Here's nylon going back to caprolactam back to carpet.\n00:15:23.000 Biotechnical nutrients -- the Model U for Ford Motor,\n00:15:26.000 a cradle to cradle car -- concept car.\n00:15:28.000 Shoes for Nike, where the uppers are polyesters, infinitely recyclable,\n00:15:32.000 the bottoms are biodegradable soles.\n00:15:35.000 Wear your old shoes in, your new shoes out.\n00:15:37.000 There is no finish line.\n00:15:39.000 The idea here of the car is that some of the materials\n00:15:41.000 go back to the industry forever, some of the materials go back to soil --\n00:15:44.000 it's all solar-powered.\n00:15:46.000 Here's a building at Oberlin College we designed\n00:15:48.000 that makes more energy than it needs to operate and purifies its own water.\n00:15:52.000 Here's a building for The Gap, where the ancient grasses\n00:15:54.000 of San Bruno, California, are on the roof.\n00:15:58.000 And this is our project for Ford Motor Company.\n00:16:00.000 It's the revitalization of the River Rouge in Dearborn.\n00:16:02.000 This is obviously a color photograph.\n00:16:06.000 These are our tools. These are how we sold it to Ford.\n00:16:10.000 We saved Ford 35 million dollars doing it this way, day one,\n00:16:13.000 which is the equivalent of the Ford Taurus\n00:16:15.000 at a four percent margin of an order for 900 million dollars worth of cars.\n00:16:19.000 Here it is. It's the world's largest green roof, 10 and a half acres.\n00:16:22.000 This is the roof, saving money,\n00:16:25.000 and this is the first species to arrive here. These are killdeer.\n00:16:29.000 They showed up in five days.\n00:16:32.000 And we now have 350-pound auto workers\n00:16:34.000 learning bird songs on the Internet.\n00:16:38.000 We're developing now protocols for cities --\n00:16:40.000 that's the home of technical nutrients.\n00:16:42.000 The country -- the home of biological. And putting them together.\n00:16:45.000 And so I will finish by showing you a new city\n00:16:47.000 we're designing for the Chinese government.\n00:16:49.000 We're doing 12 cities for China right now,\n00:16:52.000 based on cradle to cradle as templates.\n00:16:54.000 Our assignment is to develop protocols for the housing\n00:16:57.000 for 400 million people in 12 years.\n00:16:59.000 We did a mass energy balance -- if they use brick,\n00:17:01.000 they will lose all their soil and burn all their

coal.\n00:17:04.000 They'll have cities with no energy and no food.\n00:17:06.000 We signed a Memorandum of Understanding --\n00:17:08.000 here's Madam Deng Nan, Deng Xiaoping's daughter --\n00:17:10.000 for China to adopt cradle to cradle.\n00:17:12.000 Because if they toxify themselves, being the lowest-cost producer,\n00:17:16.000 send it to the lowest-cost distribution -- Wal-Mart --\n00:17:18.000 and then we send them all our money, what we'll discover is that\n00:17:21.000 we have what, effectively, when I was a student,\n00:17:24.000 was called mutually assured destruction.\n00:17:27.000 Now we do it by molecule. These are our cities.\n00:17:30.000 We're building a new city next to this city; look at that landscape.\n00:17:33.000 This is the site.\n00:17:35.000 We don't normally do green fields, but this one is about to be built,\n00:17:39.000 so they brought us in to intercede.\n00:17:41.000 This is their plan.\n00:17:43.000 It's a rubber stamp grid that they laid right on that landscape.\n00:17:46.000 And they brought us in and said, "What would you do?"\n00:17:49.000 This is what they would end up with, which is another color photograph.\n00:17:53.000 So this is the existing site, so this is what it looks like now,\n00:17:56.000 and here's our proposal.\n00:17:58.000 (Applause)\n00:18:02.000 So the way we approached this\n00:18:04.000 is we studied the hydrology very carefully.\n00:18:06.000 We studied the biota, the ancient biota,\n00:18:08.000 the current farming and the protocols.\n00:18:10.000 We studied the winds and the sun to make sure everybody in the city\n00:18:12.000 will have fresh air, fresh water and direct sunlight\n00:18:18.000 in every single apartment at some point during the day.\n00:18:21.000 We then take the parks and lay them out as ecological infrastructure.\n00:18:25.000 We lay out the building areas.\n00:18:28.000 We start to integrate commercial and mixed use\n00:18:29.000 so the people all have centers and places to be.\n00:18:32.000 The transportation is all very simple,\n00:18:34.000 everybody's within a five-minute walk of mobility.\n00:18:37.000 We have a 24-hour street, so that there's always a place that's alive.\n00:18:42.000 The waste systems all connect.\n00:18:44.000 If you flush a toilet, your feces will go to the sewage treatment plants,\n00:18:49.000 which are sold as assets, not liabilities.\n00:18:51.000 Because who wants the fertilizer factory that makes natural gas?\n00:18:55.000 The waters are all taken in to construct the wetlands for habitat restorations.\n00:19:00.000 And then it makes natural gas, which then goes back into the city\n00:19:04.000 to power the fuel for the cooking for the city.\n00:19:08.000 So this is -- these are fertilizer gas plants.\n00:19:10.000 And then the compost is all taken back\n00:19:13.000 to the roofs of the city, where we've got farming,\n00:19:15.000 because what we've done is lifted up the city,\n00:19:19.000 the landscape, into the air to -- to restore the native landscape\n00:19:26.000 on the roofs of the buildings.\n00:19:28.000 The solar power of all the factory centers\n00:19:31.000 and all the industrial zones with their light roofs powers the city.\n00:19:34.000 And this is the concept for the top of the city.\n00:19:36.000 We've lifted the earth up onto the roofs.\n00:19:40.000 The farmers have little bridges to get from one roof to the next.\n00:19:44.000 We inhabit the city with work/live space on all the ground floors.\n00:19:48.000 And so this is the existing city, and this is the new city.\n00:19:53.000 (Applause)\n\nThe file is too long and its contents have been truncated.\n", "cloud_doc_url": null}, {"matched_text": "\u3010source\u3011", "start_idx": 3720, "end_idx": 3731, "alt": null, "type": "file", "name": "tactiq-free-transcript-IoRjz8iTvoo.txt", "id": "file-QAdtwx5q5xmFsPgGvYJdRiuF", "source": "my_files", "snippet": "# tactiq.io free

youtube transcript\n# Cradle to cradle design | William McDonough\n#\n<https://www.youtube.com/watch/IoRjz8iTVoo>\n\n00:00:26.000 In 1962, with Rachel Carson's "Silent Spring,"\n\n00:00:30.000 I think for people like me in the world of the making of things,\n\n00:00:35.000 the canary in the mine wasn't singing.\n\n00:00:39.000 And so the question that we might not have birds\n\n00:00:42.000 became kind of fundamental to those of us wandering around\n\n00:00:45.000 looking for the meadowlarks that seemed to have all disappeared.\n\n00:00:48.000 And the question was, were the birds singing?\n\n00:00:51.000 Now, I'm not a scientist, that's\n\n00:00:55.000 But, you know, we've just come from this discussion of what a bird might be.\n\n00:00:59.000 What is a bird?\n\n01:00:00.000 Well, in my world, this is a rubber duck.\n\n00:01:04.000 It comes in California with a warning --\n\n00:01:06.000 "This product contains chemicals known by the State of California\n\n00:01:09.000 to cause cancer and birth defects or other reproductive harm."\n\n00:01:16.000 This is a bird.\n\n00:01:19.000 What kind of culture would produce a product of this kind\n\n00:01:22.000 and then label it and sell it to children?\n\n00:01:27.000 I think we have a design problem.\n\n00:01:30.000 Someone heard the six hours of talk that I gave\n\n00:01:35.000 called "The Monticello Dialogues" on NPR, and sent me this as a thank you note --\n\n00:01:41.000 "We realize that design is a signal of intention,\n\n00:01:43.000 but it also has to occur within a world,\n\n00:01:46.000 and we have to understand that world in order to\n\n00:01:50.000 imbue our designs with inherent intelligence,\n\n00:01:53.000 and so as we look back at the basic state of affairs\n\n00:01:58.000 in which we design, we, in a way, need to go to the primordial condition\n\n00:02:03.000 to understand the operating system and the frame conditions of a planet,\n\n00:02:08.000 and I think the exciting part of that is the good news that's there,\n\n00:02:13.000 because the news is the news of abundance,\n\n00:02:16.000 and not the news of limits,\n\n00:02:18.000 and I think as our culture tortures itself now\n\n00:02:23.000 with tyrannies and concerns over limits and fear,\n\n00:02:28.000 we can add this other dimension of abundance that is coherent,\n\n00:02:33.000 driven by the sun, and start to imagine\n\n00:02:35.000 what that would be like to share."\n\n00:02:42.000 That was a nice thing to get.\n\n00:02:44.000 That was one sentence.\n\n00:02:48.000 Henry James would be proud.\n\n00:02:50.000 This is -- I put it down at the bottom,\n\n00:02:52.000 but that was extemporaneous, obviously.\n\n00:02:55.000 The fundamental issue is that, for me,\n\n00:02:58.000 design is the first signal of human intentions.\n\n00:03:00.000 So what are our intentions, and what would our intentions be --\n\n00:03:04.000 if we wake up in the morning, we have designs on the world --\n\n00:03:07.000 well, what would our intention be as a species\n\n00:03:09.000 now that we're the dominant species?\n\n00:03:11.000 And it's not just stewardship and dominion debate,\n\n00:03:14.000 because really, dominion is implicit in stewardship --\n\n00:03:20.000 because how could you dominate something you had killed?\n\n00:03:22.000 And stewardship's implicit in dominion,\n\n00:03:24.000 because you can't be steward of something if you can't dominate it.\n\n00:03:26.000 So the question is, what is the first question for designers?\n\n00:03:32.000 Now, as guardians -- let's say the state, for example,\n\n00:03:35.000 which reserves the right to kill, the right to be duplicitous and so on --\n\n00:03:40.000 the question we're asking the guardian at this point is\n\n00:03:43.000 are we meant, how are we meant,\n\n00:03:45.000 to secure local societies, create world peace\n\n00:03:47.000 and save the environment?\n\n00:03:49.000 But I don't know that that's the common debate.\n\n00:03:52.000 Commerce, on the other hand, is relatively quick,\n\n00:03:56.000

essentially creative, highly effective and efficient,\n00:03:58.000 and fundamentally honest, because we can't exchange\n00:04:01.000 value for very long if we don't trust each other.\n00:04:05.000 So we use the tools of commerce primarily for our work,\n00:04:07.000 but the question we bring to it is,\n00:04:09.000 how do we love all the children of all species for all time?\n00:04:13.000 And so we start our designs with that question.\n00:04:16.000 Because what we realize today is that modern culture\n00:04:18.000 appears to have adopted a strategy of tragedy.\n00:04:21.000 If we come here and say, 'Well, I didn't intend\n00:04:23.000 to cause global warming on the way here,' and we say, 'That's not part of my plan,' then we realize it's part of our de facto plan.\n00:04:29.000 Because it's the thing that's happening because we have no other plan.\n00:04:32.000 And I was at the White House for President Bush,\n00:04:34.000 meeting with every federal department and agency,\n00:04:36.000 and I pointed out that they appear to have no plan.\n00:04:40.000 If the end game is global warming, they're doing great.\n00:04:42.000 If the end game is mercury toxification of our children\n00:04:45.000 downwind of coal fire plants as they scuttled the Clean Air Act,\n00:04:48.000 then I see that our education programs should be explicitly defined as,\n00:04:52.000 'Brain death for all children. No child left behind.'\n00:04:54.000 (Applause)\n00:04:58.000 So, the question is, how many federal officials\n00:05:02.000 are ready to move to Ohio and Pennsylvania with their families?\n00:05:05.000 So if you don't have an endgame of something delightful,\n00:05:09.000 then you're just moving chess pieces around,\n00:05:11.000 if you don't know you're taking the king.\n00:05:12.000 So perhaps we could develop a strategy of change,\n00:05:15.000 which requires humility. And in my business as an architect,\n00:05:18.000 it's unfortunate the word 'humility' and the word 'architect'\n00:05:22.000 have not appeared in the same paragraph since 'The Fountainhead.'\n00:05:25.000 So if anybody here has trouble with the concept of design humility,\n00:05:30.000 reflect on this -- it took us 5,000 years\n00:05:33.000 to put wheels on our luggage.\n00:05:37.000 So, as Kevin Kelly pointed out, there is no endgame.\n00:05:42.000 There is an infinite game, and we're playing in that infinite game.\n00:05:46.000 And so we call it 'cradle to cradle,' and our goal is very simple.\n00:05:49.000 This is what I presented to the White House.\n00:05:51.000 Our goal is a delightfully diverse, safe, healthy and just world,\n00:05:54.000 with clean air, clean water, soil and power --\n00:05:57.000 economically, equitably, ecologically and elegantly enjoyed, period.\n00:06:01.000 (Applause)\n00:06:04.000 What don't you like about this?\n00:06:07.000 Which part of this don't you like?\n00:06:09.000 So we realized we want full diversity,\n00:06:11.000 even though it can be difficult to remember what De Gaulle said\n00:06:14.000 when asked what it was like to be President of France.\n00:06:16.000 He said, 'What do you think it's like trying to run a country with 400 kinds of cheese?'\n00:06:20.000 But at the same time, we realize that our products are not safe and healthy.\n00:06:23.000 So we've designed products\n00:06:25.000 and we analyzed chemicals down to the parts per million.\n00:06:27.000 This is a baby blanket by Pendleton that will give your child nutrition\n00:06:30.000 instead of Alzheimer's later in life.\n00:06:32.000 We can ask ourselves, what is justice,\n00:06:34.000 and is justice blind, or is justice blindness?\n00:06:38.000 And at what point did that uniform turn from white to

black?\n00:06:43.000 Water has been declared a human right by the United Nations.\n00:06:46.000 Air quality is an obvious thing to anyone who breathes.\n00:06:48.000 Is there anybody here who doesn't breathe?\n00:06:51.000 Clean soil is a critical problem -- the nitrification, the dead zones\n00:06:54.000 in the Gulf of Mexico.\n00:06:56.000 A fundamental issue that's not being addressed.\n00:06:58.000 We've seen the first form of solar energy\n00:07:00.000 that's beat the hegemony of fossil fuels in the form of wind\n00:07:03.000 here in the Great Plains, and so that hegemony is leaving.\n00:07:06.000 And if we remember Sheikh Yamani when he formed OPEC,\n00:07:09.000 they asked him, "When will we see the end of the age of oil?"\n00:07:12.000 I don't know if you remember his answer, but it was,\n00:07:15.000 "The Stone Age didn't end because we ran out of stones."\n00:07:19.000 We see that companies acting ethically in this world\n00:07:23.000 are outperforming those that don't.\n00:07:24.000 We see the flows of materials in a rather terrifying prospect.\n00:07:29.000 This is a hospital monitor from Los Angeles, sent to China.\n00:07:32.000 This woman will expose herself to toxic phosphorous,\n00:07:35.000 release four pounds of toxic lead into her children's environment,\n00:07:38.000 which is from copper.\n00:07:40.000 On the other hand, we see great signs of hope.\n00:07:42.000 Here's Dr. Venkataswamy in India, who's figured out\n00:07:45.000 how to do mass-produced health.\n00:07:47.000 He has given eyesight to two million people for free.\n00:07:51.000 We see in our material flows that car steels don't become car steel again\n00:07:54.000 because of the contaminants of the coatings --\n00:07:56.000 bismuth, antimony, copper and so on.\n00:07:58.000 They become building steel.\n00:07:59.000 On the other hand, we're working with Berkshire Hathaway,\n00:08:01.000 Warren Buffett and Shaw Carpet,\n00:08:04.000 the largest carpet company in the world.\n00:08:05.000 We've developed a carpet that is continuously recyclable,\n00:08:08.000 down to the parts per million.\n00:08:11.000 The upper is Nylon 6 that can go back to caprolactam,\n00:08:14.000 the bottom, a polyolephine -- infinitely recyclable thermoplastic.\n00:08:17.000 Now if I was a bird, the building on my left is a liability.\n00:08:21.000 The building on my right, which is our corporate campus for The Gap\n00:08:24.000 with an ancient meadow, is an asset -- its nesting grounds.\n00:08:29.000 Here's where I come from. I grew up in Hong Kong,\n00:08:31.000 with six million people in 40 square miles.\n00:08:33.000 During the dry season, we had four hours of water every fourth day.\n00:08:37.000 And the relationship to landscape was that of farmers who have been\n00:08:40.000 farming the same piece of ground for 40 centuries.\n00:08:44.000 You can't farm the same piece of ground for 40 centuries\n00:08:46.000 without understanding nutrient flow.\n00:08:49.000 My childhood summers were in the Puget Sound of Washington,\n00:08:52.000 among the first growth and big growth.\n00:08:54.000 My grandfather had been a lumberjack in the Olympics,\n00:08:56.000 so I have a lot of tree karma I am working off.\n00:09:01.000 I went to Yale for graduate school,\n00:09:03.000 studied in a building of this style by Le Corbusier,\n00:09:05.000 affectionately known in our business as Brutalism.\n00:09:09.000 If we look at the world of architecture,\n00:09:12.000 we see with Mies's 1928 tower for Berlin,\n00:09:15.000 the question might be, "Well, where's the sun?"\n00:09:17.000 And this might have worked in Berlin, but we built it in Houston,\n00:09:20.000 and the windows are all closed. And with most products\n00:09:23.000 appearing not to have been designed for indoor use,\n00:09:25.000 this is actually a vertical gas chamber.\n00:09:28.000 When I went

to Yale, we had the first energy crisis,\n00:09:31.000 and I was designing the first solar-heated house in Ireland\n00:09:33.000 as a student, which I then built --\n00:09:35.000 which would give you a sense of my ambition.\n00:09:37.000 And Richard Meier, who was one of my teachers,\n00:09:39.000 kept coming over to my desk to give me criticism,\n00:09:41.000 and he would say, "Bill, you've got to understand--\n00:09:43.000 solar energy has nothing to do with architecture."\n00:09:51.000 I guess he didn't read Vitruvius.\n00:09:53.000 In 1984, we did the first so-called "green office" in America\n00:09:57.000 for Environmental Defense.\n00:09:58.000 We started asking manufacturers what were in their materials.\n00:10:01.000 They said, "They're proprietary, they're legal, go away."\n00:10:03.000 The only indoor quality work done in this country at that time\n00:10:05.000 was sponsored by R. J. Reynolds Tobacco Company,\n00:10:08.000 and it was to prove there was no danger\n00:10:09.000 from secondhand smoke in the workplace.\n00:10:12.000 So, all of a sudden, here I am, graduating from high school in 1969,\n00:10:16.000 and this happens, and we realize that "away" went away.\n00:10:19.000 Remember we used to throw things away, and we'd point to away?\n00:10:23.000 And yet, NOAA has now shown us, for example --\n00:10:25.000 you see that little blue thing above Hawaii?\n00:10:27.000 That's the Pacific Gyre.\n00:10:28.000 It was recently dragged for plankton by scientists,\n00:10:30.000 and they found six times as much plastic as plankton.\n00:10:34.000 When asked, they said, "It's kind of like a giant toilet that doesn't flush."\n00:10:39.000 Perhaps that's away.\n00:10:40.000 So we're looking for the design rules of this --\n00:10:42.000 this is the highest biodiversity of trees in the world, Irian Jaya,\n00:10:44.000 259 species of tree, and we described this\n00:10:48.000 in the book, "Cradle to Cradle."\n00:10:49.000 The book itself is a polymer. It is not a tree.\n00:10:53.000 That's the name of the first chapter -- "This Book is Not a Tree."\n00:10:56.000 Because in poetics, as Margaret Atwood pointed out,\n00:10:59.000 "we write our history on the skin of fish\n00:11:01.000 with the blood of bears."\n00:11:04.000 And with so much polymer, what we really need\n00:11:05.000 is technical nutrition, and to use something\n00:11:08.000 as elegant as a tree -- imagine this design assignment:\n00:11:11.000 Design something that makes oxygen, sequesters carbon,\n00:11:13.000 fixes nitrogen, distills water, accrues solar energy as fuel,\n00:11:17.000 makes complex sugars and food, creates microclimates,\n00:11:21.000 changes colors with the seasons and self-replicates.\n00:11:27.000 Well, why don't we knock that down and write on it?\n00:11:29.000 (Laughter)\n00:11:35.000 So, we're looking at the same criteria\n00:11:37.000 as most people -- you know, can I afford it?\n00:11:39.000 Does it work? Do I like it?\n00:11:41.000 We're adding the Jeffersonian agenda, and I come from Charlottesville,\n00:11:43.000 where I've had the privilege of living in a house designed by Thomas Jefferson.\n00:11:47.000 We're adding life, liberty and the pursuit of happiness.\n00:11:53.000 Now if we look at the word "competition,"\n00:11:54.000 I'm sure most of you've used it.\n00:11:56.000 You know, most people don't realize it comes from\n00:11:57.000 the Latin competere, which means strive together.\n00:12:00.000 It means the way Olympic athletes train with each other.\n00:12:03.000 They get fit together, and then they compete.\n00:12:06.000 The Williams sisters compete -- one wins Wimbledon.\n00:12:08.000 So we've been looking at the idea of competition\n00:12:11.000 as a way of cooperating in order to get fit

together.\n00:12:15.000 And the Chinese government has now --\n00:12:16.000 I work with the Chinese government now --\n00:12:18.000 has taken this up.\n00:12:20.000 We're also looking at survival of the fittest,\n00:12:22.000 not in just competition terms in our modern context\n00:12:24.000 of destroy the other or beat them to the ground,\n00:12:27.000 but really to fit together and build niches\n00:12:29.000 and have growth that is good.\n00:12:31.000 Now most environmentalists don't say growth is good,\n00:12:33.000 because, in our lexicon, asphalt is two words: assigning blame.\n00:12:38.000 But if we look at asphalt as our growth,\n00:12:41.000 then we realize that all we're doing is destroying\n00:12:43.000 the planetary's fundamental underlying operating system.\n00:12:47.000 So when we see E equals mc^2 come along, from a poet's perspective,\n00:12:52.000 we see energy as physics, chemistry as mass,\n00:12:54.000 and all of a sudden, you get this biology.\n00:12:56.000 And we have plenty of energy, so we'll solve that problem,\n00:12:59.000 but the biology problem's tricky, because as we put through\n00:13:02.000 all these toxic materials that we disgorge,\n00:13:05.000 we will never be able to recover that.\n00:13:07.000 And as Francis Crick pointed out, nine years\n00:13:09.000 after discovering DNA with Mr. Watson,\n00:13:12.000 that life itself has to have growth as a precondition --\n00:13:16.000 it has to have free energy, sunlight\n00:13:18.000 and it needs to be an open system of chemicals.\n00:13:21.000 So we're asking for human artifice to become a living thing,\n00:13:24.000 and we want growth, we want free energy from sunlight\n00:13:26.000 and we want an open metabolism for chemicals.\n00:13:29.000 Then, the question becomes not growth or no growth,\n00:13:31.000 but what do you want to grow?\n00:13:34.000 So instead of just growing destruction,\n00:13:36.000 we want to grow the things that we might enjoy,\n00:13:38.000 and someday the FDA will allow us to make French cheese.\n00:13:41.000 So therefore, we have these two metabolisms,\n00:13:45.000 and I worked with a German chemist, Michael Braungart,\n00:13:47.000 and we've identified the two fundamental metabolisms.\n00:13:49.000 The biological one I'm sure you understand,\n00:13:51.000 but also the technical one, where we take materials\n00:13:53.000 and put them into closed cycles.\n00:13:55.000 We call them biological nutrition and technical nutrition.\n00:13:58.000 Technical nutrition will be in an order of magnitude of biological nutrition.\n00:14:02.000 Biological nutrition can supply about 500 million humans,\n00:14:05.000 which means that if we all wore Birkenstocks and cotton,\n00:14:07.000 the world would run out of cork and dry up.\n00:14:10.000 So we need materials in closed cycles,\n00:14:12.000 but we need to analyze them down to the parts per million\n00:14:14.000 for cancer, birth defects, mutagenic effects,\n00:14:17.000 disruption of our immune systems, biodegradation, persistence,\n00:14:20.000 heavy metal content, knowledge of how we're making them\n00:14:23.000 and their production and so on.\n00:14:25.000 Our first product was a textile where we analyzed 8,000 chemicals\n00:14:29.000 in the textile industry.\n00:14:30.000 Using those intellectual filters, we eliminated [7,962.]\n00:14:35.000 We were left with 38 chemicals.\n00:14:37.000 We have since databased the 4000 most commonly used chemicals\n00:14:40.000 in human manufacturing, and we're releasing this database into the public in six weeks.\n00:14:45.000 So designers all over the world can analyze their products\n00:14:47.000 down to the parts per million for human and ecological health.\n00:14:52.000 (Applause)\n00:14:57.000 We've developed a protocol so that companies can send\n00:15:00.000 these same messages all the way through their supply

chains, \n00:15:03.000 because when we asked most companies we work with -- about a trillion dollars \n00:15:06.000 -- and say, "Where does your stuff come from?" \n00:15:08.000 They say, "Suppliers." \n00:15:10.000 "And where does it go?" \n00:15:11.000 "Customers." \n00:15:12.000 So we need some help there. \n00:15:14.000 So the biological nutrients, the first fabrics -- \n00:15:16.000 the water coming out was clean enough to drink. \n00:15:20.000 Technical nutrients -- this is for Shaw Carpet, infinitely reusable carpet. \n00:15:23.000 Here's nylon going back to caprolactam back to carpet. \n00:15:26.000 Biotechnical nutrients -- the Model U for Ford Motor, \n00:15:28.000 a cradle to cradle car -- concept car. \n00:15:32.000 Shoes for Nike, where the uppers are polyesters, infinitely recyclable, \n00:15:35.000 the bottoms are biodegradable soles. \n00:15:37.000 Wear your old shoes in, your new shoes out. \n00:15:39.000 There is no finish line. \n00:15:41.000 The idea here of the car is that some of the materials go back to the industry forever, some of the materials go back to soil -- \n00:15:44.000 it's all solar-powered. \n00:15:46.000 Here's a building at Oberlin College we designed \n00:15:48.000 that makes more energy than it needs to operate and purifies its own water. \n00:15:52.000 Here's a building for The Gap, where the ancient grasses \n00:15:54.000 of San Bruno, California, are on the roof. \n00:15:58.000 And this is our project for Ford Motor Company. \n00:16:00.000 It's the revitalization of the River Rouge in Dearborn. \n00:16:02.000 This is obviously a color photograph. \n00:16:06.000 These are our tools. These are how we sold it to Ford. \n00:16:10.000 We saved Ford 35 million dollars doing it this way, day one, \n00:16:13.000 which is the equivalent of the Ford Taurus \n00:16:15.000 at a four percent margin of an order for 900 million dollars worth of cars. \n00:16:19.000 Here it is. It's the world's largest green roof, 10 and a half acres. \n00:16:22.000 This is the roof, saving money, \n00:16:25.000 and this is the first species to arrive here. These are killdeer. \n00:16:29.000 They showed up in five days. \n00:16:32.000 And we now have 350-pound auto workers \n00:16:34.000 learning bird songs on the Internet. \n00:16:38.000 We're developing now protocols for cities -- \n00:16:40.000 that's the home of technical nutrients. \n00:16:42.000 The country -- the home of biological. And putting them together. \n00:16:45.000 And so I will finish by showing you a new city \n00:16:47.000 we're designing for the Chinese government. \n00:16:49.000 We're doing 12 cities for China right now, \n00:16:52.000 based on cradle to cradle as templates. \n00:16:54.000 Our assignment is to develop protocols for the housing \n00:16:57.000 for 400 million people in 12 years. \n00:16:59.000 We did a mass energy balance -- if they use brick, \n00:17:01.000 they will lose all their soil and burn all their coal. \n00:17:04.000 They'll have cities with no energy and no food. \n00:17:06.000 We signed a Memorandum of Understanding -- \n00:17:08.000 here's Madam Deng Nan, Deng Xiaoping's daughter -- \n00:17:10.000 for China to adopt cradle to cradle. \n00:17:12.000 Because if they toxify themselves, being the lowest-cost producer, \n00:17:16.000 send it to the lowest-cost distribution -- Wal-Mart -- \n00:17:18.000 and then we send them all our money, what we'll discover is that \n00:17:21.000 we have what, effectively, when I was a student, \n00:17:24.000 was called mutually assured destruction. \n00:17:27.000 Now we do it by molecule. These are our cities. \n00:17:30.000 We're building a new city next to this city; look at that landscape. \n00:17:33.000 This is the site. \n00:17:35.000 We don't normally do green fields, but this one is about to be built, \n00:17:39.000 so they brought us in to intercede. \n00:17:41.000 This is their plan. \n00:17:43.000 It's a rubber

stamp grid that they laid right on that landscape.\n00:17:46.000 And they brought us in and said, "What would you do?"\n00:17:49.000 This is what they would end up with, which is another color photograph.\n00:17:53.000 So this is the existing site, so this is what it looks like now,\n00:17:56.000 and here's our proposal.\n00:17:58.000 (Applause)\n00:18:02.000 So the way we approached this\n00:18:04.000 is we studied the hydrology very carefully.\n00:18:06.000 We studied the biota, the ancient biota,\n00:18:08.000 the current farming and the protocols.\n00:18:10.000 We studied the winds and the sun to make sure everybody in the city\n00:18:12.000 will have fresh air, fresh water and direct sunlight\n00:18:18.000 in every single apartment at some point during the day.\n00:18:21.000 We then take the parks and lay them out as ecological infrastructure.\n00:18:25.000 We lay out the building areas.\n00:18:28.000 We start to integrate commercial and mixed use\n00:18:29.000 so the people all have centers and places to be.\n00:18:32.000 The transportation is all very simple,\n00:18:34.000 everybody's within a five-minute walk of mobility.\n00:18:37.000 We have a 24-hour street, so that there's always a place that's alive.\n00:18:42.000 The waste systems all connect.\n00:18:44.000 If you flush a toilet, your feces will go to the sewage treatment plants,\n00:18:49.000 which are sold as assets, not liabilities.\n00:18:51.000 Because who wants the fertilizer factory that makes natural gas?\n00:18:55.000 The waters are all taken in to construct the wetlands for habitat restorations.\n00:19:00.000 And then it makes natural gas, which then goes back into the city\n00:19:04.000 to power the fuel for the cooking for the city.\n00:19:08.000 So this is -- these are fertilizer gas plants.\n00:19:10.000 And then the compost is all taken back\n00:19:13.000 to the roofs of the city, where we've got farming,\n00:19:15.000 because what we've done is lifted up the city,\n00:19:19.000 the landscape, into the air to -- to restore the native landscape\n00:19:26.000 on the roofs of the buildings.\n00:19:28.000 The solar power of all the factory centers\n00:19:31.000 and all the industrial zones with their light roofs powers the city.\n00:19:34.000 And this is the concept for the top of the city.\n00:19:36.000 We've lifted the earth up onto the roofs.\n00:19:40.000 The farmers have little bridges to get from one roof to the next.\n00:19:44.000 We inhabit the city with work/live space on all the ground floors.\n00:19:48.000 And so this is the existing city, and this is the new city.\n00:19:53.000 (Applause)\n\nThe file is too long and its contents have been truncated.\n", "cloud_doc_url": null}, {"matched_text": "\u001012\u0020source\u0011", "start_idx": 4116, "end_idx": 4127, "alt": null, "type": "file", "name": "tactiq-free-transcript-IoRjz8iTVoo.txt", "id": "file-QAdtwx5q5xmFsPgGvYJdRiuF", "source": "my_files", "snippet": "# tactiq.io free youtube transcript\n# Cradle to cradle design | William McDonough\n# https://www.youtube.com/watch/IoRjz8iTVoo\n\n00:00:26.000 In 1962, with Rachel Carson's \"Silent Spring,\" \n00:00:30.000 I think for people like me in the world of the making of things, \n00:00:35.000 the canary in the mine wasn't singing. \n00:00:39.000 And so the question that we might not have birds \n00:00:42.000 became kind of fundamental to those of us wandering around \n00:00:45.000 looking for the meadowlarks that seemed to have all disappeared. \n00:00:48.000 And the question was, were the birds singing? \n00:00:51.000 Now, I'm not a scientist, that's;ll be really clear. \n00:00:55.000 But, you know, we've just come from this discussion of what a bird might be. \n00:00:59.000 What is a bird? \n00:01:00.000 Well, in my world, this is a rubber duck. \n00:01:04.000 It comes in California with a warning -- \n00:01:06.000 \"This product contains chemicals known by the State of

California\n00:01:09.000 to cause cancer and birth defects or other reproductive harm.\n00:01:16.000 This is a bird.\n00:01:19.000 What kind of culture would produce a product of this kind\n00:01:22.000 and then label it and sell it to children?\n00:01:27.000 I think we have a design problem.\n00:01:30.000 Someone heard the six hours of talk that I gave\n00:01:35.000 called "The Monticello Dialogues" on NPR, and sent me this as a thank you note --\n00:01:41.000 "We realize that design is a signal of intention,\n00:01:43.000 but it also has to occur within a world,\n00:01:46.000 and we have to understand that world in order to\n00:01:50.000 imbue our designs with inherent intelligence,\n00:01:53.000 and so as we look back at the basic state of affairs\n00:01:58.000 in which we design, we, in a way, need to go to the primordial condition\n00:02:03.000 to understand the operating system and the frame conditions of a planet,\n00:02:08.000 and I think the exciting part of that is the good news that's there,\n00:02:13.000 because the news is the news of abundance,\n00:02:16.000 and not the news of limits,\n00:02:18.000 and I think as our culture tortures itself now\n00:02:23.000 with tyrannies and concerns over limits and fear,\n00:02:28.000 we can add this other dimension of abundance that is coherent,\n00:02:33.000 driven by the sun, and start to imagine\n00:02:35.000 what that would be like to share." \n00:02:42.000 That was a nice thing to get.\n00:02:44.000 That was one sentence.\n00:02:48.000 Henry James would be proud.\n00:02:50.000 This is -- I put it down at the bottom,\n00:02:52.000 but that was extemporaneous, obviously.\n00:02:55.000 The fundamental issue is that, for me,\n00:02:58.000 design is the first signal of human intentions.\n00:03:00.000 So what are our intentions, and what would our intentions be --\n00:03:04.000 if we wake up in the morning, we have designs on the world --\n00:03:07.000 well, what would our intention be as a species\n00:03:09.000 now that we're the dominant species?\n00:03:11.000 And it's not just stewardship and dominion debate,\n00:03:14.000 because really, dominion is implicit in stewardship --\n00:03:20.000 because how could you dominate something you had killed?\n00:03:22.000 And stewardship's implicit in dominion,\n00:03:24.000 because you can't be steward of something if you can't dominate it.\n00:03:26.000 So the question is, what is the first question for designers?\n00:03:32.000 Now, as guardians -- let's say the state, for example,\n00:03:35.000 which reserves the right to kill, the right to be duplicitous and so on --\n00:03:40.000 the question we're asking the guardian at this point is\n00:03:43.000 are we meant, how are we meant,\n00:03:45.000 to secure local societies, create world peace\n00:03:47.000 and save the environment?\n00:03:49.000 But I don't know that that's the common debate.\n00:03:52.000 Commerce, on the other hand, is relatively quick,\n00:03:56.000 essentially creative, highly effective and efficient,\n00:03:58.000 and fundamentally honest, because we can't exchange\n00:04:01.000 value for very long if we don't trust each other.\n00:04:05.000 So we use the tools of commerce primarily for our work,\n00:04:07.000 but the question we bring to it is,\n00:04:09.000 how do we love all the children of all species for all time?\n00:04:13.000 And so we start our designs with that question.\n00:04:16.000 Because what we realize today is that modern culture\n00:04:18.000 appears to have adopted a strategy of tragedy.\n00:04:21.000 If we come here and say, "Well, I didn't intend\n00:04:23.000 to cause global warming on the way here,"\n00:04:24.000 and we say, "That's not part of my plan,"\n00:04:26.000 then we realize it's part of our de facto plan.\n00:04:29.000 Because it's the thing that's happening because we have no other plan.\n00:04:32.000 And I was at the

White House for President Bush, \n00:04:34.000 meeting with every federal department and agency, \n00:04:36.000 and I pointed out that they appear to have no plan. \n00:04:40.000 If the end game is global warming, they're doing great. \n00:04:42.000 If the end game is mercury toxification of our children \n00:04:45.000 downwind of coal fire plants as they scuttled the Clean Air Act, \n00:04:48.000 then I see that our education programs should be explicitly defined as, \n00:04:52.000 "Brain death for all children. No child left behind." \n00:04:54.000 (Applause) \n00:04:58.000 So, the question is, how many federal officials \n00:05:02.000 are ready to move to Ohio and Pennsylvania with their families? \n00:05:05.000 So if you don't have an endgame of something delightful, \n00:05:09.000 then you're just moving chess pieces around, \n00:05:11.000 if you don't know you're taking the king. \n00:05:12.000 So perhaps we could develop a strategy of change, \n00:05:15.000 which requires humility. And in my business as an architect, \n00:05:18.000 it's unfortunate the word "humility" and the word "architect" \n00:05:22.000 have not appeared in the same paragraph since "The Fountainhead." \n00:05:25.000 So if anybody here has trouble with the concept of design humility, \n00:05:30.000 reflect on this -- it took us 5,000 years \n00:05:33.000 to put wheels on our luggage. \n00:05:37.000 So, as Kevin Kelly pointed out, there is no endgame. \n00:05:42.000 There is an infinite game, and we're playing in that infinite game. \n00:05:46.000 And so we call it "cradle to cradle," \n00:05:48.000 and our goal is very simple. \n00:05:49.000 This is what I presented to the White House. \n00:05:51.000 Our goal is a delightfully diverse, safe, healthy and just world, \n00:05:54.000 with clean air, clean water, soil and power -- \n00:05:57.000 economically, equitably, ecologically and elegantly enjoyed, period. \n00:06:01.000 (Applause) \n00:06:04.000 What don't you like about this? \n00:06:07.000 Which part of this don't you like? \n00:06:09.000 So we realized we want full diversity, \n00:06:11.000 even though it can be difficult to remember what De Gaulle said \n00:06:14.000 when asked what it was like to be President of France. \n00:06:16.000 He said, "What do you think it's like trying to run a country with 400 kinds of cheese?" \n00:06:20.000 But at the same time, we realize that our products are not safe and healthy. \n00:06:23.000 So we've designed products \n00:06:25.000 and we analyzed chemicals down to the parts per million. \n00:06:27.000 This is a baby blanket by Pendleton that will give your child nutrition \n00:06:30.000 instead of Alzheimer's later in life. \n00:06:32.000 We can ask ourselves, what is justice, \n00:06:34.000 and is justice blind, or is justice blindness? \n00:06:38.000 And at what point did that uniform turn from white to black? \n00:06:43.000 Water has been declared a human right by the United Nations. \n00:06:46.000 Air quality is an obvious thing to anyone who breathes. \n00:06:48.000 Is there anybody here who doesn't breathe? \n00:06:51.000 Clean soil is a critical problem -- the nitrification, the dead zones \n00:06:54.000 in the Gulf of Mexico. \n00:06:56.000 A fundamental issue that's not being addressed. \n00:06:58.000 We've seen the first form of solar energy \n00:07:00.000 that's beat the hegemony of fossil fuels in the form of wind \n00:07:03.000 here in the Great Plains, and so that hegemony is leaving. \n00:07:06.000 And if we remember Sheikh Yamani when he formed OPEC, \n00:07:09.000 they asked him, "When will we see the end of the age of oil?" \n00:07:12.000 I don't know if you remember his answer, but it was, \n00:07:15.000 "The Stone Age didn't end because we ran out of stones." \n00:07:19.000 We see that companies acting ethically in this

world\n00:07:23.000 are outperforming those that don't.\n00:07:24.000 We see the flows of materials in a rather terrifying prospect.\n00:07:29.000 This is a hospital monitor from Los Angeles, sent to China.\n00:07:32.000 This woman will expose herself to toxic phosphorous,\n00:07:35.000 release four pounds of toxic lead into her childrens' environment,\n00:07:38.000 which is from copper.\n00:07:40.000 On the other hand, we see great signs of hope.\n00:07:42.000 Here's Dr. Venkataswamy in India, who's figured out\n00:07:45.000 how to do mass-produced health.\n00:07:47.000 He has given eyesight to two million people for free.\n00:07:51.000 We see in our material flows that car steels don't become car steel again\n00:07:54.000 because of the contaminants of the coatings --\n00:07:56.000 bismuth, antimony, copper and so on.\n00:07:58.000 They become building steel.\n00:07:59.000 On the other hand, we're working with Berkshire Hathaway,\n00:08:01.000 Warren Buffett and Shaw Carpet,\n00:08:04.000 the largest carpet company in the world.\n00:08:05.000 We've developed a carpet that is continuously recyclable,\n00:08:08.000 down to the parts per million.\n00:08:11.000 The upper is Nylon 6 that can go back to caprolactam,\n00:08:14.000 the bottom, a polyolephine -- infinitely recyclable thermoplastic.\n00:08:17.000 Now if I was a bird, the building on my left is a liability.\n00:08:21.000 The building on my right, which is our corporate campus for The Gap\n00:08:24.000 with an ancient meadow, is an asset -- its nesting grounds.\n00:08:29.000 Here's where I come from. I grew up in Hong Kong,\n00:08:31.000 with six million people in 40 square miles.\n00:08:33.000 During the dry season, we had four hours of water every fourth day.\n00:08:37.000 And the relationship to landscape was that of farmers who have been\n00:08:40.000 farming the same piece of ground for 40 centuries.\n00:08:44.000 You can't farm the same piece of ground for 40 centuries\n00:08:46.000 without understanding nutrient flow.\n00:08:49.000 My childhood summers were in the Puget Sound of Washington,\n00:08:52.000 among the first growth and big growth.\n00:08:54.000 My grandfather had been a lumberjack in the Olympics,\n00:08:56.000 so I have a lot of tree karma I am working off.\n00:09:01.000 I went to Yale for graduate school,\n00:09:03.000 studied in a building of this style by Le Corbusier,\n00:09:05.000 affectionately known in our business as Brutalism.\n00:09:09.000 If we look at the world of architecture,\n00:09:12.000 we see with Mies'; 1928 tower for Berlin,\n00:09:15.000 the question might be, 'Well, where's the sun?' \n00:09:17.000 And this might have worked in Berlin, but we built it in Houston,\n00:09:20.000 and the windows are all closed. And with most products\n00:09:23.000 appearing not to have been designed for indoor use,\n00:09:25.000 this is actually a vertical gas chamber.\n00:09:28.000 When I went to Yale, we had the first energy crisis,\n00:09:31.000 and I was designing the first solar-heated house in Ireland\n00:09:33.000 as a student, which I then built -- \n00:09:35.000 which would give you a sense of my ambition.\n00:09:37.000 And Richard Meier, who was one of my teachers,\n00:09:39.000 kept coming over to my desk to give me criticism,\n00:09:41.000 and he would say, 'Bill, you've got to understand -- \n00:09:43.000 solar energy has nothing to do with architecture.' \n00:09:51.000 I guess he didn't read Vitruvius.\n00:09:53.000 In 1984, we did the first so-called 'green office' in America\n00:09:57.000 for Environmental Defense.\n00:09:58.000 We started asking manufacturers what were in their materials.\n00:10:01.000 They said, 'They're proprietary, they're legal, go away.' \n00:10:03.000 The only indoor quality work done in this country at that time\n00:10:05.000 was sponsored by R.J. Reynolds Tobacco

Company, \n00:10:08.000 and it was to prove there was no danger\n00:10:09.000 from secondhand smoke in the workplace.\n00:10:12.000 So, all of a sudden, here I am, graduating from high school in 1969,\n00:10:16.000 and this happens, and we realize that "away" went away.\n00:10:19.000 Remember we used to throw things away, and we'd point to away?\n00:10:23.000 And yet, NOAA has now shown us, for example --\n00:10:25.000 you see that little blue thing above Hawaii?\n00:10:27.000 That's the Pacific Gyre.\n00:10:28.000 It was recently dragged for plankton by scientists,\n00:10:30.000 and they found six times as much plastic as plankton.\n00:10:34.000 When asked, they said, "It's kind of like a giant toilet that doesn't flush."\n00:10:39.000 Perhaps that's away.\n00:10:40.000 So we're looking for the design rules of this --\n00:10:42.000 this is the highest biodiversity of trees in the world, Irian Jaya,\n00:10:44.000 259 species of tree, and we described this\n00:10:48.000 in the book, "Cradle to Cradle."\n00:10:49.000 The book itself is a polymer. It is not a tree.\n00:10:53.000 That's the name of the first chapter -- "This Book is Not a Tree."\n00:10:56.000 Because in poetics, as Margaret Atwood pointed out,\n00:10:59.000 "we write our history on the skin of fish\n00:11:01.000 with the blood of bears."\n00:11:04.000 And with so much polymer, what we really need\n00:11:05.000 is technical nutrition, and to use something\n00:11:08.000 as elegant as a tree -- imagine this design assignment:\n00:11:11.000 Design something that makes oxygen, sequesters carbon,\n00:11:13.000 fixes nitrogen, distills water, accrues solar energy as fuel,\n00:11:17.000 makes complex sugars and food, creates microclimates,\n00:11:21.000 changes colors with the seasons and self-replicates.\n00:11:27.000 Well, why don't we knock that down and write on it?\n00:11:29.000 (Laughter)\n00:11:35.000 So, we're looking at the same criteria\n00:11:37.000 as most people -- you know, can I afford it?\n00:11:39.000 Does it work? Do I like it?\n00:11:41.000 We're adding the Jeffersonian agenda, and I come from Charlottesville,\n00:11:43.000 where I've had the privilege of living in a house designed by Thomas Jefferson.\n00:11:47.000 We're adding life, liberty and the pursuit of happiness.\n00:11:53.000 Now if we look at the word "competition,"\n00:11:54.000 I'm sure most of you've used it.\n00:11:56.000 You know, most people don't realize it comes from\n00:11:57.000 the Latin competere, which means strive together.\n00:12:00.000 It means the way Olympic athletes train with each other.\n00:12:03.000 They get fit together, and then they compete.\n00:12:06.000 The Williams sisters compete -- one wins Wimbledon.\n00:12:08.000 So we've been looking at the idea of competition\n00:12:11.000 as a way of cooperating in order to get fit together.\n00:12:15.000 And the Chinese government has now --\n00:12:16.000 I work with the Chinese government now --\n00:12:18.000 has taken this up.\n00:12:20.000 We're also looking at survival of the fittest,\n00:12:22.000 not in just competition terms in our modern context\n00:12:24.000 of destroy the other or beat them to the ground,\n00:12:27.000 but really to fit together and build niches\n00:12:29.000 and have growth that is good.\n00:12:31.000 Now most environmentalists don't say growth is good,\n00:12:33.000 because, in our lexicon, asphalt is two words: assigning blame.\n00:12:38.000 But if we look at asphalt as our growth,\n00:12:41.000 then we realize that all we're doing is destroying\n00:12:43.000 the planetary's fundamental underlying operating system.\n00:12:47.000 So when we see E equals mc squared come along, from a poet's perspective,\n00:12:52.000 we see energy as physics, chemistry as

mass,\n00:12:54.000 and all of a sudden, you get this biology.\n00:12:56.000 And we have plenty of energy, so we'll solve that problem,\n00:12:59.000 but the biology problem's tricky, because as we put through\n00:13:02.000 all these toxic materials that we disgorge,\n00:13:05.000 we will never be able to recover that.\n00:13:07.000 And as Francis Crick pointed out, nine years\n00:13:09.000 after discovering DNA with Mr. Watson,\n00:13:12.000 that life itself has to have growth as a precondition --\n00:13:16.000 it has to have free energy, sunlight\n00:13:18.000 and it needs to be an open system of chemicals.\n00:13:21.000 So we're asking for human artifice to become a living thing,\n00:13:24.000 and we want growth, we want free energy from sunlight\n00:13:26.000 and we want an open metabolism for chemicals.\n00:13:29.000 Then, the question becomes not growth or no growth,\n00:13:31.000 but what do you want to grow?\n00:13:34.000 So instead of just growing destruction,\n00:13:36.000 we want to grow the things that we might enjoy,\n00:13:38.000 and someday the FDA will allow us to make French cheese.\n00:13:41.000 So therefore, we have these two metabolisms,\n00:13:45.000 and I worked with a German chemist, Michael Braungart,\n00:13:47.000 and we've identified the two fundamental metabolisms.\n00:13:49.000 The biological one I'm sure you understand,\n00:13:51.000 but also the technical one, where we take materials\n00:13:53.000 and put them into closed cycles.\n00:13:55.000 We call them biological nutrition and technical nutrition.\n00:13:58.000 Technical nutrition will be in an order of magnitude of biological nutrition.\n00:14:02.000 Biological nutrition can supply about 500 million humans,\n00:14:05.000 which means that if we all wore Birkenstocks and cotton,\n00:14:07.000 the world would run out of cork and dry up.\n00:14:10.000 So we need materials in closed cycles,\n00:14:12.000 but we need to analyze them down to the parts per million\n00:14:14.000 for cancer, birth defects, mutagenic effects,\n00:14:17.000 disruption of our immune systems, biodegradation, persistence,\n00:14:20.000 heavy metal content, knowledge of how we're making them\n00:14:23.000 and their production and so on.\n00:14:25.000 Our first product was a textile where we analyzed 8,000 chemicals\n00:14:29.000 in the textile industry.\n00:14:30.000 Using those intellectual filters, we eliminated [7,962.]\n00:14:35.000 We were left with 38 chemicals.\n00:14:37.000 We have since databased the 4000 most commonly used chemicals\n00:14:40.000 in human manufacturing, and we're releasing this database into the public in six weeks.\n00:14:45.000 So designers all over the world can analyze their products\n00:14:47.000 down to the parts per million for human and ecological health.\n00:14:52.000 (Applause)\n00:14:57.000 We've developed a protocol so that companies can send\n00:15:00.000 these same messages all the way through their supply chains,\n00:15:03.000 because when we asked most companies we work with -- about a trillion dollars\n00:15:06.000 -- and say, "Where does your stuff come from?" They say, "Suppliers."\n00:15:08.000 "And where does it go?"\n00:15:10.000 "Customers."\n00:15:11.000 So we need some help there.\n00:15:12.000 So the biological nutrients, the first fabrics --\n00:15:14.000 the water coming out was clean enough to drink.\n00:15:16.000 Technical nutrients -- this is for Shaw Carpet, infinitely reusable carpet.\n00:15:20.000 Here's nylon going back to caprolactam back to carpet.\n00:15:23.000 Biotechnical nutrients -- the Model U for Ford Motor,\n00:15:26.000 a cradle to cradle car -- concept car.\n00:15:28.000 Shoes for Nike, where the uppers are polyesters, infinitely recyclable,\n00:15:32.000 the bottoms are biodegradable soles.\n00:15:35.000 Wear your old shoes in, your new shoes out.\n00:15:37.000 There is no finish line.\n00:15:39.000

The idea here of the car is that some of the materials go back to the industry forever, some of the materials go back to soil -- it's all solar-powered. Here's a building at Oberlin College we designed that makes more energy than it needs to operate and purifies its own water. Here's a building for The Gap, where the ancient grasses of San Bruno, California, are on the roof. And this is our project for Ford Motor Company. It's the revitalization of the River Rouge in Dearborn. This is obviously a color photograph. These are our tools. These are how we sold it to Ford. We saved Ford 35 million dollars doing it this way, day one, which is the equivalent of the Ford Taurus at a four percent margin of an order for 900 million dollars worth of cars. Here it is. It's the world's largest green roof, 10 and a half acres. This is the roof, saving money, and this is the first species to arrive here. These are killdeer. They showed up in five days. And we now have 350-pound auto workers learning bird songs on the Internet. We're developing now protocols for cities -- that's the home of technical nutrients. The country -- the home of biological. And putting them together. And so I will finish by showing you a new city we're designing for the Chinese government. We're doing 12 cities for China right now, based on cradle to cradle as templates. Our assignment is to develop protocols for the housing for 400 million people in 12 years. We did a mass energy balance -- if they use brick, they will lose all their soil and burn all their coal. They'll have cities with no energy and no food. We signed a Memorandum of Understanding -- here's Madam Deng Nan, Deng Xiaoping's daughter -- for China to adopt cradle to cradle. Because if they toxify themselves, being the lowest-cost producer, send it to the lowest-cost distribution -- Wal-Mart -- and then we send them all our money, what we'll discover is that we have what, effectively, when I was a student, was called mutually assured destruction. Now we do it by molecule. These are our cities. We're building a new city next to this city; look at that landscape. This is the site. We don't normally do green fields, but this one is about to be built, so they brought us in to intercede. This is their plan. It's a rubber stamp grid that they laid right on that landscape. And they brought us in and said, "What would you do?" This is what they would end up with, which is another color photograph. So this is the existing site, so this is what it looks like now, and here's our proposal. (Applause) So the way we approached this is we studied the hydrology very carefully. We studied the biota, the ancient biota, the current farming and the protocols. We studied the winds and the sun to make sure everybody in the city will have fresh air, fresh water and direct sunlight in every single apartment at some point during the day. We then take the parks and lay them out as ecological infrastructure. We lay out the building areas. We start to

integrate commercial and mixed use\n00:18:29.000 so the people all have centers and places to be.\n00:18:32.000 The transportation is all very simple,\n00:18:34.000 everybody's within a five-minute walk of mobility.\n00:18:37.000 We have a 24-hour street, so that there's always a place that's alive.\n00:18:42.000 The waste systems all connect.\n00:18:44.000 If you flush a toilet, your feces will go to the sewage treatment plants,\n00:18:49.000 which are sold as assets, not liabilities.\n00:18:51.000 Because who wants the fertilizer factory that makes natural gas?\n00:18:55.000 The waters are all taken in to construct the wetlands for habitat restorations.\n00:19:00.000 And then it makes natural gas, which then goes back into the city\n00:19:04.000 to power the fuel for the cooking for the city.\n00:19:08.000 So this is -- these are fertilizer gas plants.\n00:19:10.000 And then the compost is all taken back\n00:19:13.000 to the roofs of the city, where we've got farming,\n00:19:15.000 because what we've done is lifted up the city,\n00:19:19.000 the landscape, into the air to -- to restore the native landscape\n00:19:26.000 on the roofs of the buildings.\n00:19:28.000 The solar power of all the factory centers\n00:19:31.000 and all the industrial zones with their light roofs powers the city.\n00:19:34.000 And this is the concept for the top of the city.\n00:19:36.000 We've lifted the earth up onto the roofs.\n00:19:40.000 The farmers have little bridges to get from one roof to the next.\n00:19:44.000 We inhabit the city with work/live space on all the ground floors.\n00:19:48.000 And so this is the existing city, and this is the new city.\n00:19:53.000 (Applause)\n\nThe file is too long and its contents have been truncated.\n", "cloud_doc_url": null}, {"matched_text": "\u00301012\u0020source\u003011", "start_idx": 4501, "end_idx": 4512, "alt": null, "type": "file", "name": "tactiq-free-transcript-IoRjz8iTvoo.txt", "id": "file-QAdtwx5q5xmFsPgGvYJdRiuF", "source": "my_files", "snippet": "# tactiq.io free youtube transcript\n# Cradle to cradle design | William McDonough\n# https://www.youtube.com/watch/IoRjz8iTvoo\n\n00:00:26.000 In 1962, with Rachel Carson's 'Silent Spring,'\n00:00:30.000 I think for people like me in the world of the making of things,\n00:00:35.000 the canary in the mine wasn't singing.\n00:00:39.000 And so the question that we might not have birds\n00:00:42.000 became kind of fundamental to those of us wandering around\n00:00:45.000 looking for the meadowlarks that seemed to have all disappeared.\n00:00:48.000 And the question was, were the birds singing?\n00:00:51.000 Now, I'm not a scientist, that'll be really clear.\n00:00:55.000 But, you know, we've just come from this discussion of what a bird might be.\n00:00:59.000 What is a bird?\n00:01:00.000 Well, in my world, this is a rubber duck.\n00:01:04.000 It comes in California with a warning --\n00:01:06.000 'This product contains chemicals known by the State of California\n00:01:09.000 to cause cancer and birth defects or other reproductive harm.'\n00:01:16.000 This is a bird.\n00:01:19.000 What kind of culture would produce a product of this kind\n00:01:22.000 and then label it and sell it to children?\n00:01:27.000 I think we have a design problem.\n00:01:30.000 Someone heard the six hours of talk that I gave\n00:01:35.000 called 'The Monticello Dialogues' on NPR, and sent me this as a thank you note --\n00:01:41.000 'We realize that design is a signal of intention,\n00:01:43.000 but it also has to occur within a world,\n00:01:46.000 and we have to understand that world in order to\n00:01:50.000 imbue our designs with inherent intelligence,\n00:01:53.000 and so as we look back at the basic state of affairs\n00:01:58.000 in which we design, we, in a way, need to go to the primordial condition\n00:02:03.000 to understand the operating system and the frame conditions of a planet,\n00:02:08.000 and I think the exciting

part of that is the good news that's there, \n00:02:13.000 because the news is the news of abundance, \n00:02:16.000 and not the news of limits, \n00:02:18.000 and I think as our culture tortures itself now \n00:02:23.000 with tyrannies and concerns over limits and fear, \n00:02:28.000 we can add this other dimension of abundance that is coherent, \n00:02:33.000 driven by the sun, and start to imagine \n00:02:35.000 what that would be like to share. " \n00:02:42.000 That was a nice thing to get. \n00:02:44.000 That was one sentence. \n00:02:48.000 Henry James would be proud. \n00:02:50.000 This is -- I put it down at the bottom, \n00:02:52.000 but that was extemporaneous, obviously. \n00:02:55.000 The fundamental issue is that, for me, \n00:02:58.000 design is the first signal of human intentions. \n00:03:00.000 So what are our intentions, and what would our intentions be -- \n00:03:04.000 if we wake up in the morning, we have designs on the world -- \n00:03:07.000 well, what would our intention be as a species \n00:03:09.000 now that we're the dominant species? \n00:03:11.000 And it's not just stewardship and dominion debate, \n00:03:14.000 because really, dominion is implicit in stewardship -- \n00:03:20.000 because how could you dominate something you had killed? \n00:03:22.000 And stewardship's implicit in dominion, \n00:03:24.000 because you can't be steward of something if you can't dominate it. \n00:03:26.000 So the question is, what is the first question for designers? \n00:03:32.000 Now, as guardians -- let's say the state, for example, \n00:03:35.000 which reserves the right to kill, the right to be duplicitous and so on -- \n00:03:40.000 the question we're asking the guardian at this point is \n00:03:43.000 are we meant, how are we meant, \n00:03:45.000 to secure local societies, create world peace \n00:03:47.000 and save the environment? \n00:03:49.000 But I don't know that that's the common debate. \n00:03:52.000 Commerce, on the other hand, is relatively quick, \n00:03:56.000 essentially creative, highly effective and efficient, \n00:03:58.000 and fundamentally honest, because we can't exchange \n00:04:01.000 value for very long if we don't trust each other. \n00:04:05.000 So we use the tools of commerce primarily for our work, \n00:04:07.000 but the question we bring to it is, \n00:04:09.000 how do we love all the children of all species for all time? \n00:04:13.000 And so we start our designs with that question. \n00:04:16.000 Because what we realize today is that modern culture \n00:04:18.000 appears to have adopted a strategy of tragedy. \n00:04:21.000 If we come here and say, "Well, I didn't intend \n00:04:23.000 to cause global warming on the way here," \n00:04:24.000 and we say, "That's not part of my plan," \n00:04:26.000 then we realize it's part of our de facto plan. \n00:04:29.000 Because it's the thing that's happening because we have no other plan. \n00:04:32.000 And I was at the White House for President Bush, \n00:04:34.000 meeting with every federal department and agency, \n00:04:36.000 and I pointed out that they appear to have no plan. \n00:04:40.000 If the end game is global warming, they're doing great. \n00:04:42.000 If the end game is mercury toxification of our children \n00:04:45.000 downwind of coal fire plants as they scuttled the Clean Air Act, \n00:04:48.000 then I see that our education programs should be explicitly defined as, \n00:04:52.000 "Brain death for all children. No child left behind." \n00:04:54.000 (Applause) \n00:04:58.000 So, the question is, how many federal officials \n00:05:02.000 are ready to move to Ohio and Pennsylvania with their families? \n00:05:05.000 So if you don't have an endgame of something delightful, \n00:05:09.000 then you're just moving chess pieces around, \n00:05:11.000 if you don't know you're taking the

king.\n00:05:12.000 So perhaps we could develop a strategy of change,\n00:05:15.000 which requires humility. And in my business as an architect,\n00:05:18.000 it's unfortunate the word "humility" and the word "architect"\n00:05:22.000 have not appeared in the same paragraph since "The Fountainhead."\n00:05:25.000 So if anybody here has trouble with the concept of design humility,\n00:05:30.000 reflect on this -- it took us 5,000 years\n00:05:33.000 to put wheels on our luggage.\n00:05:37.000 So, as Kevin Kelly pointed out, there is no endgame.\n00:05:42.000 There is an infinite game, and we're playing in that infinite game.\n00:05:46.000 And so we call it "cradle to cradle," and our goal is very simple.\n00:05:49.000 This is what I presented to the White House.\n00:05:51.000 Our goal is a delightfully diverse, safe, healthy and just world,\n00:05:54.000 with clean air, clean water, soil and power --\n00:05:57.000 economically, equitably, ecologically and elegantly enjoyed, period.\n00:06:01.000 (Applause)\n00:06:04.000 What don't you like about this?\n00:06:07.000 Which part of this don't you like?\n00:06:09.000 So we realized we want full diversity,\n00:06:11.000 even though it can be difficult to remember what De Gaulle said\n00:06:14.000 when asked what it was like to be President of France.\n00:06:16.000 He said, "What do you think it's like trying to run a country with 400 kinds of cheese?"\n00:06:20.000 But at the same time, we realize that our products are not safe and healthy.\n00:06:23.000 So we've designed products\n00:06:25.000 and we analyzed chemicals down to the parts per million.\n00:06:27.000 This is a baby blanket by Pendleton that will give your child nutrition\n00:06:30.000 instead of Alzheimer's later in life.\n00:06:32.000 We can ask ourselves, what is justice,\n00:06:34.000 and is justice blind, or is justice blindness?\n00:06:38.000 And at what point did that uniform turn from white to black?\n00:06:43.000 Water has been declared a human right by the United Nations.\n00:06:46.000 Air quality is an obvious thing to anyone who breathes.\n00:06:48.000 Is there anybody here who doesn't breathe?\n00:06:51.000 Clean soil is a critical problem -- the nitrification, the dead zones\n00:06:54.000 in the Gulf of Mexico.\n00:06:56.000 A fundamental issue that's not being addressed.\n00:06:58.000 We've seen the first form of solar energy\n00:07:00.000 that's beat the hegemony of fossil fuels in the form of wind\n00:07:03.000 here in the Great Plains, and so that hegemony is leaving.\n00:07:06.000 And if we remember Sheikh Yamani when he formed OPEC,\n00:07:09.000 they asked him, "When will we see the end of the age of oil?"\n00:07:12.000 I don't know if you remember his answer, but it was,\n00:07:15.000 "The Stone Age didn't end because we ran out of stones."\n00:07:19.000 We see that companies acting ethically in this world\n00:07:23.000 are outperforming those that don't.\n00:07:24.000 We see the flows of materials in a rather terrifying prospect.\n00:07:29.000 This is a hospital monitor from Los Angeles, sent to China.\n00:07:32.000 This woman will expose herself to toxic phosphorous,\n00:07:35.000 release four pounds of toxic lead into her children's environment,\n00:07:38.000 which is from copper.\n00:07:40.000 On the other hand, we see great signs of hope.\n00:07:42.000 Here's Dr. Venkataswamy in India, who's figured out\n00:07:45.000 how to do mass-produced health.\n00:07:47.000 He has given eyesight to two million people for free.\n00:07:51.000 We see in our material flows that car steels don't become car steel again\n00:07:54.000 because of the contaminants of the coatings --\n00:07:56.000 bismuth, antimony, copper and so on.\n00:07:58.000 They become building steel.\n00:07:59.000 On the other hand, we're working with Berkshire

Hathaway, \n00:08:01.000 Warren Buffett and Shaw Carpet, \n00:08:04.000 the largest carpet company in the world. \n00:08:05.000 We've developed a carpet that is continuously recyclable, \n00:08:08.000 down to the parts per million. \n00:08:11.000 The upper is Nylon 6 that can go back to caprolactam, \n00:08:14.000 the bottom, a polyolephine -- infinitely recyclable thermoplastic. \n00:08:17.000 Now if I was a bird, the building on my left is a liability. \n00:08:21.000 The building on my right, which is our corporate campus for The Gap \n00:08:24.000 with an ancient meadow, is an asset -- its nesting grounds. \n00:08:29.000 Here's where I come from. I grew up in Hong Kong, \n00:08:31.000 with six million people in 40 square miles. \n00:08:33.000 During the dry season, we had four hours of water every fourth day. \n00:08:37.000 And the relationship to landscape was that of farmers who have been \n00:08:40.000 farming the same piece of ground for 40 centuries. \n00:08:44.000 You can't farm the same piece of ground for 40 centuries \n00:08:46.000 without understanding nutrient flow. \n00:08:49.000 My childhood summers were in the Puget Sound of Washington, \n00:08:52.000 among the first growth and big growth. \n00:08:54.000 My grandfather had been a lumberjack in the Olympics, \n00:08:56.000 so I have a lot of tree karma I am working off. \n00:09:01.000 I went to Yale for graduate school, \n00:09:03.000 studied in a building of this style by Le Corbusier, \n00:09:05.000 affectionately known in our business as Brutalism. \n00:09:09.000 If we look at the world of architecture, \n00:09:12.000 we see with Mies's 1928 tower for Berlin, \n00:09:15.000 the question might be, "Well, where's the sun?" \n00:09:17.000 And this might have worked in Berlin, but we built it in Houston, \n00:09:20.000 and the windows are all closed. And with most products \n00:09:23.000 appearing not to have been designed for indoor use, \n00:09:25.000 this is actually a vertical gas chamber. \n00:09:28.000 When I went to Yale, we had the first energy crisis, \n00:09:31.000 and I was designing the first solar-heated house in Ireland \n00:09:33.000 as a student, which I then built -- \n00:09:35.000 which would give you a sense of my ambition. \n00:09:37.000 And Richard Meier, who was one of my teachers, \n00:09:39.000 kept coming over to my desk to give me criticism, \n00:09:41.000 and he would say, "Bill, you've got to understand -- \n00:09:43.000 solar energy has nothing to do with architecture." \n00:09:51.000 I guess he didn't read Vitruvius. \n00:09:53.000 In 1984, we did the first so-called "green office" in America \n00:09:57.000 for Environmental Defense. \n00:09:58.000 We started asking manufacturers what were in their materials. \n00:10:01.000 They said, "They're proprietary, they're legal, go away." \n00:10:03.000 The only indoor quality work done in this country at that time \n00:10:05.000 was sponsored by R. J. Reynolds Tobacco Company, \n00:10:08.000 and it was to prove there was no danger \n00:10:09.000 from secondhand smoke in the workplace. \n00:10:12.000 So, all of a sudden, here I am, graduating from high school in 1969, \n00:10:16.000 and this happens, and we realize that "away" went away. \n00:10:19.000 Remember we used to throw things away, and we'd point to away? \n00:10:23.000 And yet, NOAA has now shown us, for example -- \n00:10:25.000 you see that little blue thing above Hawaii? \n00:10:27.000 That's the Pacific Gyre. \n00:10:28.000 It was recently dragged for plankton by scientists, \n00:10:30.000 and they found six times as much plastic as plankton. \n00:10:34.000 When asked, they said, "It's kind of like a giant toilet that doesn't flush." \n00:10:39.000 Perhaps that's away. \n00:10:40.000 So we're looking for the design rules of this -- \n00:10:42.000 this is the highest biodiversity of trees in the world, Irian

Jaya, 259 species of tree, and we described this in the book, "Cradle to Cradle." The book itself is a polymer. It is not a tree. That's the name of the first chapter -- "This Book is Not a Tree." Because in poetics, as Margaret Atwood pointed out, "we write our history on the skin of fish with the blood of bears." And with so much polymer, what we really need is technical nutrition, and to use something as elegant as a tree -- imagine this design assignment: Design something that makes oxygen, sequesters carbon, fixes nitrogen, distills water, accrues solar energy as fuel, makes complex sugars and food, creates microclimates, changes colors with the seasons and self-replicates. Well, why don't we knock that down and write on it? (Laughter) So, we're looking at the same criteria as most people -- you know, can I afford it? Does it work? Do I like it? We're adding the Jeffersonian agenda, and I come from Charlottesville, where I've had the privilege of living in a house designed by Thomas Jefferson. We're adding life, liberty and the pursuit of happiness. Now if we look at the word "competition," I'm sure most of you've used it. You know, most people don't realize it comes from the Latin competere, which means strive together. It means the way Olympic athletes train with each other. They get fit together, and then they compete. The Williams sisters compete -- one wins Wimbledon. So we've been looking at the idea of competition as a way of cooperating in order to get fit together. And the Chinese government has now -- I work with the Chinese government now -- has taken this up. We're also looking at survival of the fittest, not in just competition terms in our modern context of destroy the other or beat them to the ground, but really to fit together and build niches and have growth that is good. Now most environmentalists don't say growth is good, because, in our lexicon, asphalt is two words: assigning blame. But if we look at asphalt as our growth, then we realize that all we're doing is destroying the planetary's fundamental underlying operating system. So when we see $E = mc^2$ come along, from a poet's perspective, we see energy as physics, chemistry as mass, and all of a sudden, you get this biology. And we have plenty of energy, so we'll solve that problem, but the biology problem's tricky, because as we put through all these toxic materials that we disgorge, we will never be able to recover that. And as Francis Crick pointed out, nine years after discovering DNA with Mr. Watson, that life itself has to have growth as a precondition -- it has to have free energy, sunlight and it needs to be an open system of chemicals. So we're asking for human artifice to become a living thing, and we want growth, we want free energy from sunlight and we want an open metabolism for chemicals. Then, the question becomes not growth or no growth, but what do you want to grow? So instead of just

growing destruction,\n00:13:36.000 we want to grow the things that we might enjoy,\n00:13:38.000 and someday the FDA will allow us to make French cheese.\n00:13:41.000 So therefore, we have these two metabolisms,\n00:13:45.000 and I worked with a German chemist, Michael Braungart,\n00:13:47.000 and we've identified the two fundamental metabolisms.\n00:13:49.000 The biological one I'm sure you understand,\n00:13:51.000 but also the technical one, where we take materials\n00:13:53.000 and put them into closed cycles.\n00:13:55.000 We call them biological nutrition and technical nutrition.\n00:13:58.000 Technical nutrition will be in an order of magnitude of biological nutrition.\n00:14:02.000 Biological nutrition can supply about 500 million humans,\n00:14:05.000 which means that if we all wore Birkenstocks and cotton,\n00:14:07.000 the world would run out of cork and dry up.\n00:14:10.000 So we need materials in closed cycles,\n00:14:12.000 but we need to analyze them down to the parts per million\n00:14:14.000 for cancer, birth defects, mutagenic effects,\n00:14:17.000 disruption of our immune systems, biodegradation, persistence,\n00:14:20.000 heavy metal content, knowledge of how we're making them\n00:14:23.000 and their production and so on.\n00:14:25.000 Our first product was a textile where we analyzed 8,000 chemicals\n00:14:29.000 in the textile industry.\n00:14:30.000 Using those intellectual filters, we eliminated [7,962.]\n00:14:35.000 We were left with 38 chemicals.\n00:14:37.000 We have since databased the 4000 most commonly used chemicals\n00:14:40.000 in human manufacturing, and we're releasing this database into the public in six weeks.\n00:14:45.000 So designers all over the world can analyze their products\n00:14:47.000 down to the parts per million for human and ecological health.\n00:14:52.000 (Applause)\n00:14:57.000 We've developed a protocol so that companies can send\n00:15:00.000 these same messages all the way through their supply chains,\n00:15:03.000 because when we asked most companies we work with -- about a trillion dollars\n00:15:06.000 -- and say, "Where does your stuff come from?" They say, "Suppliers." \n00:15:08.000 "And where does it go?" \n00:15:10.000 "Customers." \n00:15:11.000 So we need some help there.\n00:15:12.000 So the biological nutrients, the first fabrics --\n00:15:14.000 the water coming out was clean enough to drink.\n00:15:16.000 Technical nutrients -- this is for Shaw Carpet, infinitely reusable carpet.\n00:15:20.000 Here's nylon going back to caprolactam back to carpet.\n00:15:23.000 Biotechnical nutrients -- the Model U for Ford Motor,\n00:15:26.000 a cradle to cradle car -- concept car.\n00:15:28.000 Shoes for Nike, where the uppers are polyesters, infinitely recyclable,\n00:15:32.000 the bottoms are biodegradable soles.\n00:15:35.000 Wear your old shoes in, your new shoes out.\n00:15:37.000 There is no finish line.\n00:15:39.000 The idea here of the car is that some of the materials\n00:15:41.000 go back to the industry forever, some of the materials go back to soil --\n00:15:44.000 it's all solar-powered.\n00:15:46.000 Here's a building at Oberlin College we designed\n00:15:48.000 that makes more energy than it needs to operate and purifies its own water.\n00:15:52.000 Here's a building for The Gap, where the ancient grasses\n00:15:54.000 of San Bruno, California, are on the roof.\n00:15:58.000 And this is our project for Ford Motor Company.\n00:16:00.000 It's the revitalization of the River Rouge in Dearborn.\n00:16:02.000 This is obviously a color photograph.\n00:16:06.000 These are our tools. These are how we sold it to Ford.\n00:16:10.000 We saved Ford 35 million dollars doing it this way, day one,\n00:16:13.000 which is the equivalent of the Ford Taurus\n00:16:15.000 at a four percent margin of an order for 900 million dollars worth of cars.\n00:16:19.000 Here

it is. It's the world's largest green roof, 10 and a half acres. This is the roof, saving money, and this is the first species to arrive here. These are killdeer. They showed up in five days. And we now have 350-pound auto workers learning bird songs on the Internet. We're developing now protocols for cities -- that's the home of technical nutrients. The country -- the home of biological. And putting them together. And so I will finish by showing you a new city we're designing for the Chinese government. We're doing 12 cities for China right now, based on cradle to cradle as templates. Our assignment is to develop protocols for the housing for 400 million people in 12 years. We did a mass energy balance -- if they use brick, they will lose all their soil and burn all their coal. They'll have cities with no energy and no food. We signed a Memorandum of Understanding -- here's Madam Deng Nan, Deng Xiaoping's daughter -- for China to adopt cradle to cradle. Because if they toxify themselves, being the lowest-cost producer, send it to the lowest-cost distribution -- Wal-Mart -- and then we send them all our money, what we'll discover is that we have what, effectively, when I was a student, was called mutually assured destruction. Now we do it by molecule. These are our cities. We're building a new city next to this city; look at that landscape. This is the site. We don't normally do green fields, but this one is about to be built, so they brought us in to intercede. This is their plan. It's a rubber stamp grid that they laid right on that landscape. And they brought us in and said, "What would you do?" This is what they would end up with, which is another color photograph. So this is the existing site, so this is what it looks like now, and here's our proposal. (Applause) So the way we approached this is we studied the hydrology very carefully. We studied the biota, the ancient biota, the current farming and the protocols. We studied the winds and the sun to make sure everybody in the city will have fresh air, fresh water and direct sunlight in every single apartment at some point during the day. We then take the parks and lay them out as ecological infrastructure. We lay out the building areas. We start to integrate commercial and mixed use so the people all have centers and places to be. The transportation is all very simple, everybody's within a five-minute walk of mobility. We have a 24-hour street, so that there's always a place that's alive. The waste systems all connect. If you flush a toilet, your feces will go to the sewage treatment plants, which are sold as assets, not liabilities. Because who wants the fertilizer factory that makes natural gas? The waters are all taken in to construct the wetlands for habitat restorations. And then it makes natural gas, which then goes back into the city to power the fuel for the cooking for the city. So this is -- these are fertilizer gas plants. And then the compost is all taken back to the roofs of the city, where we've got

farming, \n00:19:15.000 because what we've done is lifted up the city, \n00:19:19.000 the landscape, into the air to -- to restore the native landscape \n00:19:26.000 on the roofs of the buildings. \n00:19:28.000 The solar power of all the factory centers \n00:19:31.000 and all the industrial zones with their light roofs powers the city. \n00:19:34.000 And this is the concept for the top of the city. \n00:19:36.000 We've lifted the earth up onto the roofs. \n00:19:40.000 The farmers have little bridges to get from one roof to the next. \n00:19:44.000 We inhabit the city with work/live space on all the ground floors. \n00:19:48.000 And so this is the existing city, and this is the new city. \n00:19:53.000 (Applause) \n\nThe file is too long and its contents have been truncated. \n", "cloud_doc_url": null}}], "recipient": "all", "channel": null}, {"parent": "bf7b3c0b-2586-4022-8e00-92d81b4d42c2", "children": [{"id": "1e29df7c-f144-4667-a13a-c49eaf749a7e"}], "1e29df7c-f144-4667-a13a-c49eaf749a7e": {"id": "1e29df7c-f144-4667-a13a-c49eaf749a7e", "message": {"id": "1e29df7c-f144-4667-a13a-c49eaf749a7e", "author": {"role": "system", "name": null, "metadata": {}}, "create_time": 1717446722.54712, "update_time": null, "content": {"content_type": "text", "parts": [""]}, "status": "finished_successfully", "end_turn": null, "weight": 1.0, "metadata": {"attachments": [], "rebase_system_message": true, "timestamp": "absolute", "message_type": null, "is_visually_hidden_from_conversation": true}, "recipient": "all", "channel": null}, {"parent": "6c3a1bef-d0a4-4d70-ad95-190bb8939a90", "children": [{"id": "aaa2251e-ae22-4a01-b917-f495144c4faa"}], "aaa2251e-ae22-4a01-b917-f495144c4faa": {"id": "aaa2251e-ae22-4a01-b917-f495144c4faa", "message": {"id": "aaa2251e-ae22-4a01-b917-f495144c4faa", "author": {"role": "user", "name": null, "metadata": {}}, "create_time": 1717446722.554927, "update_time": null, "content": {"content_type": "text", "parts": ["Expand and lengthen this passage providing more details and scholarly sources. use APA format and cite all sources. "]}, "status": "finished_successfully", "end_turn": null, "weight": 1.0, "metadata": {"gizmo_id": "g-bo0FiWLY7", "targeted_reply": "**Industry Overview** \n\nSanpellegrino, owned by Nestl\u00e9, is a leading water bottling company in Italy known for its premium mineral water. The company's extraction operations have significant impacts on local water tables and ecosystems. This section provides an overview of the industry's size, market reach, and operational practices within the context of Italy's regulatory environment. \n\n**Impact Assessment** \n\n1. **Environmental Impacts**: Studies suggest that excessive water extraction by bottling companies leads to the depletion of aquifers, alteration of local water cycles, and impacts on biodiversity. The rate of water extraction often disrupts the ecological balance and can lead to long-term environmental degradation (Reuter, 2013). \n\n2. **Social Impacts**: The commercialization of water resources can restrict local access to water, leading to social conflicts and disparities. Communities near bottling facilities often face shortages or increased costs for water, which is a fundamental human right recognized by the United Nations (Ostrom, 1998). \n\n3. **Economic Impacts**: While the water bottling industry contributes significantly to local economies through job creation and tax revenues, the externalities often impose higher costs on the community. These include infrastructure wear, ecological damage, and potential tourism revenue losses due to environmental degradation. \n\n4. **Regulatory Frameworks and Policy Analysis** \n\nItalian and European Union regulations are designed to manage water resources sustainably; however, enforcement and effectiveness are inconsistent. The paper examines current laws and policies, their implementation, and how they might be manipulated to favor corporate interests over public and environmental health. \n\n5. **Recommendations for Sustainable Practices** \n\nTo address the identified

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impacts, the paper proposes several recommendations for sustainable management practices, including stricter regulatory measures, community engagement in decision-making, and investment in water conservation technologies by corporations like Sanpellegrino.", "request_id": "88e2733dda7a5243-MXP", "message_source": null, "timestamp_": "absolute", "message_type": null, "recipient": "all", "channel": null, "parent": "1e29df7c-f144-4667-a13a-c49eaf749a7e", "children": ["5e3dec06-6f5a-4187-a33a-0bde8821b3fe"]}, {"id": "5e3dec06-6f5a-4187-a33a-0bde8821b3fe", "message": {"id": "5e3dec06-6f5a-4187-a33a-0bde8821b3fe", "author": {"role": "system", "name": null, "metadata": {}}, "create_time": 1717446722.555326, "update_time": null, "content": {"content_type": "text", "parts": [""]}, "status": "finished_successfully", "end_turn": null, "weight": 1.0, "metadata": {"request_id": "88e2733dda7a5243-MXP", "message_source": null, "timestamp_": "absolute", "message_type": null, "is_visually_hidden_from_conversation": true}, "recipient": "all", "channel": null, "parent": "aaa2251e-ae22-4a01-b917-f495144c4faa", "children": ["e265cd1c-f3db-45d0-9eaf-bd26a86aeb0e"]}, {"id": "e265cd1c-f3db-45d0-9eaf-bd26a86aeb0e", "message": {"id": "e265cd1c-f3db-45d0-9eaf-bd26a86aeb0e", "author": {"role": "system", "name": null, "metadata": {}}, "create_time": 1717446724.401733, "update_time": null, "content": {"content_type": "text", "parts": [""]}, "status": "finished_successfully", "end_turn": true, "weight": 0.0, "metadata": {"rebase_system_message": true, "message_type": null, "model_slug": "gpt-4o", "default_model_slug": "gpt-4", "parent_id": "5e3dec06-6f5a-4187-a33a-0bde8821b3fe", "request_id": "88e2733dda7a5243-MXP", "timestamp_": "absolute", "is_visually_hidden_from_conversation": true}, "recipient": "all", "channel": null, "parent": "5e3dec06-6f5a-4187-a33a-0bde8821b3fe", "children": ["bd585afd-0ed9-43a4-bbd6-3e2e30608dc3"]}, {"id": "bd585afd-0ed9-43a4-bbd6-3e2e30608dc3", "message": {"id": "bd585afd-0ed9-43a4-bbd6-3e2e30608dc3", "author": {"role": "assistant", "name": null, "metadata": {}}, "create_time": 1717446724.401819, "update_time": null, "content": {"content_type": "code", "language": "json", "response_format_name": null, "text": "<div>query</div>Sanpellegrino water extraction impacts Italy</div>"}, "status": "finished_successfully", "end_turn": false, "weight": 1.0, "metadata": {"citations": [], "gizmo_id": "g-bo0FiWLY7", "finish_details": {"type": "stop", "stop_tokens": [200007]}, "is_complete": true, "message_type": null, "model_slug": "gpt-4o", "default_model_slug": "gpt-4", "parent_id": "e265cd1c-f3db-45d0-9eaf-bd26a86aeb0e", "request_id": "88e2733dda7a5243-MXP", "timestamp_": "absolute"}, "recipient": "chat_consensus_app__jit_plugin.search_papers", "channel": null, "parent": "e265cd1c-f3db-45d0-9eaf-bd26a86aeb0e", "children": ["d3da0da5-4796-427b-8790-36a42a4d1f38"]}, {"id": "d3da0da5-4796-427b-8790-36a42a4d1f38", "message": {"id": "d3da0da5-4796-427b-8790-36a42a4d1f38", "author": {"role": "tool", "name": "chat_consensus_app__jit_plugin.search_papers", "metadata": {}}, "create_time": 1717446724.40188, "update_time": 1717446724.3793821, "content": {"content_type": "text", "parts": [""]}, "status": "finished_successfully", "end_turn": null, "weight": 1.0, "metadata": {"jit_plugin_data": {"from_server": {"type": "confirm_action", "body": {"domain": "chat.consensus.app", "is_consequential": false, "privacy_policy": "https://consensus.app/home/privacy-policy/", "method": "get", "path": "/quick_search", "operation": "search_papers", "params": {"query": "Sanpellegrino water extraction impacts Italy"}, "actions": [{"name": "allow", "type": "allow", "allow": {"target_message_id": "bd585afd-0ed9-43a4-bbd6-3e2e30608dc3"}}, {"type":

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were constantly above the EC directive, e.g. 1 mg L⁻¹, with the exception of those waters located up- and downstream the groundwater flow. This indicates that the exotic filling terrains in the mining area, mainly consisting of roasting products, likely play a pivotal role in regulating the concentrations of Hg, which reached values up to 853 mg L⁻¹. The construction of permeable reactive barriers, located downstream the water flow, appears to be the most promising solution for the removal of Hg, although, according to the literature, several materials, tested with laboratory experiments, can be used and, as a consequence, it is necessary to individuate specific piezometers with different Hg concentrations where pilot investigations are to be carried out before undertaking any remediation actions. ","paper_authors": [\"O. Vaselli","B. Nisi","D. Rappuoli","F. Bianchi","J. Cabassi","S. Venturi","F. Tassi","B. Raco"],"paper_publish_year":2015,"publication_journal_name":"Bollettino Della Societa Geologica Italiana","consensus_paper_details_url":"https://consensus.app/papers/characterization-ground-waters-hgmining-area-abbadia-vaselli/7a9b15fe8cde571d840fb545fde0d455/?utm_source=chatgpt","doi":"10.3301/IJG.2015.03","volume":"134","pages":"304-322","search_result_number":1}, {"paper_title":"Monitoring release of pharmaceutical compounds: occurrence and environmental risk assessment of two WWTP effluents and their receiving bodies in the Po Valley, Italy.","abstract":"This study describes an investigation on the occurrence of 27 pharmaceutical compounds, belonging to different classes, in the effluent from two wastewater treatment plants (WWTPs) and their receiving water bodies in the sensitive area of the Po Valley (northern Italy). These canals were monitored upstream and downstream of the effluent discharge points in order to evaluate the effluent impact on the quality of surface waters, commonly used for irrigation. An environmental risk assessment was also conducted by calculating the risk quotient, i.e. the ratio between measured concentration and predicted no effect concentration. Collected data show that, although average values of the selected compounds were in general higher in the effluent than in the surface waters, some compounds not detected in the WWTP effluent were detected in the receiving water (upstream as well as downstream), indicating that sources other than treated effluents are present as contaminations during extraction and analysis have to be excluded. The most critical compounds for the environment were found to be the antibiotics sulfamethoxazole, clarithromycin and azithromycin. The study shows that the potential toxicological effects of persistent micropollutants can be mitigated to some extent by a high dilution capacity, i.e. a high average flow rate in the receiving water body with respect to the effluent.","paper_authors":[\"M. A. Aukidy","P. Verlicchi","A. Jeli","M. Petrov","D. Barcel"],"paper_publish_year":2012,"publication_journal_name":"The Science of the total environment","consensus_paper_details_url":"https://consensus.app/papers/monitoring-release-compounds-occurrence-risk-assessment-aukidy/877df178f3525183962674fc7482d183/?utm_source=chatgpt","doi":"10.1016/j.scitotenv.2012.08.061","volume":"438","pages

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“search_result_number”:2, {“paper_title”:“Differentiating natural and anthropogenic impacts on water quality in a hydrothermal coastal aquifer (Mondragone Plain, Southern Italy)”}, {“abstract”:“Groundwater from the Mondragone Plain (Southern Italy) has been investigated by a monthly sampling regimen over the course of a hydrologic year in order to analyze geochemical signatures and has been experienced methods for detecting natural and anthropogenic contamination dynamics that affect resources for human water supply. The Mondragone Plain aquifer is characterized by (1) anthropogenic land uses, (2) varying degrees of hydrothermal interactions, and (3) the potential for seawater intrusion. Anomalies induced by anthropogenic pollution produce non-normally distributed time series and an alteration of the natural SO₄²⁻ background of groundwater. Variables depending on natural processes are related to water-rock interactions along groundwater flow path, i.e., the hosting aquifer lithology of hydrothermal systems, the recharging massifs of Mt. Petrino and Mt. Massico, and more recent volcanic and alluvial formations. Solute transport in groundwater affects the urban aquifer, both by mixing of thermal waters and by ions deriving from agricultural activity (NO₃⁻, SO₄²⁻, NH₄⁺), compromising the quality of a resource largely used by locals. The two thermal systems in the studied area [Levagnole and Padule di San Rocco] are two different aquifers with an independent circulation and chemical composition. Seawater intrusion, both into thermal systems and into shallow aquifers, seems to be unlikely despite the detected increase of salinity in the LEV system close to the shoreline.”}, {“paper_authors”:“E. Cuoco, T. Darrah, G. Buono, William K. Eymold, D. Tedesco”}, {“paper_publish_year”:2015, “publication_journal_name”:“Environmental Earth Sciences”}, {“consensus_paper_details_url”:“https://consensus.app/papers/differentiating-impacts-water-quality-aquifer-cuoco/5efdac04619151c5956032c2e428bc02/?utm_source=chatgpt”}, {“doi”:“10.1007/s12665-014-3892-3”}, {“volume”:73, “pages”:7115-7134}, {“search_result_number”:3}, {“paper_title”:“Levels of water and soil natural pollutions in Italy”}, {“abstract”:“This issue of Rendiconti Lincei Scienze Fisiche e Naturali communicates the best papers presented to a conference held in Rome, at the Accademia Nazionale dei Lincei, on March 20, 2015. This year, the 15th World Water Day lectures were dedicated to the level of natural pollution of the Italian environment, in order to separate what is geogenic in origin and what rather relates to anthropogenic input, and in preparation of the next year’s day entirely dedicated to man-induced pollution. The geology of Italy is such as to present numerous areas where high levels of pollution affect soils because of natural causes (mainly related to their near or distant volcanic origin). Consequently, pollution affects the waters too, both those running on and those moving in the near surface aquifers; or to say it more precisely certain Italian waters may exceed the safety limits set by the European Community for agricultural and industrial uses. The cases where drinking waters exceed such safety limits are much rarer, thanks to vigilant attention of the authorities taking care of environment and safety (ASL) and yet a few of them occur in localised spots throughout the entire country. Opening the conference, Professor Michele Caputo,

the Chairman of the Lincei Academy Commission on Environment and Natural Disasters, pointed out that the popular press stresses on the great number and new types of disasters that were unknown in the past, giving the perception that risk is constantly increasing all over the Italian territory. One could confute this trend by stating that this situation is a natural one, i.e., it originates from evolution induced by causes that are beyond the human possibility to cope with. However, this truth does not justify the authorities who do not take care of the three constraints: preview, prevent and provide. Indeed, climate changes so rapidly as to make it is practically impossible to estimate the related risk in advance and the previewing action becomes a political issue: what the authorities can actually do is tied up, rather, with their willingness at spending people money properly. Professor Caputo gave clear indication on this issue referring to agriculture, hydrocarbon extraction and landslides. He also pointed out that a great deal of problems derives from atmospheric pollution, which is a global problem rather than a national one. Altogether, the Conference presented 27 oral papers either solicited or offered and eleven posters. We selected ten of the oral presentations and three posters as representative of the best research on the subject to be included in this issue of *Rendiconti*. Five of them are invited lectures (out of eight given) and the others were either short oral communications or posters converted into regular papers. Stating the well-known and still valid quote of Paracelsus \u2018the dose makes the poison\u2019, Dr. Carlo Cremisini of ENEA\u2014the National Agency for New Technologies, Energy and Sustainable Economic Development\u2014gave the introductory lecture (Cremisini and Armiento 2016). He showed that chemical elements naturally distribute in soils and waters either in concentrations that are too low (deficiency) or too high (toxicity), leaving just a short interval where they can be absorbed proficiently by the living bodies. Among the elements that & Annibale Mottana

annibale.mottana@uniroma3.it", "paper_authors": ["A. Mottana", "S. Carr", "C. Doglioni"], "paper_publish_year": 2016, "publication_journal_name": "Rendiconti Lincei", "consensus_paper_details_url": "https://consensus.app/papers/levels-water-soil-pollutions-italy-mottana/69fa78da74025861bad0e7569dd317ee/?utm_source=chatgpt", "doi": "10.1007/s12210-015-0496-0", "volume": "27", "pages": "3-6", "search_result_number": 4 }, { "paper_title": "Discontinuous Geochemical Monitoring of the Galleria Italia Circumneutral Waters (Former Hg-Mining Area of Abbadia San Salvatore, Tuscany, Central Italy) Feeding the Fosso Della Chiusa Creek", "abstract": "The Galleria Italia waters drain the complex tunnel system of the former Hg-mining area of Abbadia San Salvatore (Tuscany, central Italy) and feed the 2.5 km-long Fosso della Chiusa creek. The mining exploitation was active for more than one century and more than 100,000 tons of liquid mercury were produced by roasting processes of cinnabar (HgS). In this work, a discontinuous geochemical monitoring of the Galleria Italia circumneutral waters was carried out from February 2009 to October 2020, during which the main physicochemical parameters, main and minor dissolved species and trace elements (including Hg) were determined. In the observation period, significant variations in the water chemistry were recorded, particularly when flooding waves, due to intense precipitations, occurred, with the two main events being recorded in February 2009 and January 2010.

The chemical composition of the Galleria Italia waters was Ca(Mg)-SO₄ and related to congruent dissolution of gypsum/anhydrite at which a contribution from carbonatic and silicatic minerals and partial solubilization of CO₂ and H₂S oxidation is to be added. Regarding the trace elements, Al, Mn and Fe were up to 1500, 768 and 39520 µg L⁻¹, with these elements also showing high contents in the sediment precipitating by the Galleria Italia waters. In most cases, dissolved mercury was below the instrumental detection limit (<0.1 µg L⁻¹), although occasionally it reached >1 µg L⁻¹. Considering a mean flow rate of 40 L s⁻¹ of the discharged water, the amount of dissolved mercury released from Galleria Italia was computed, although most mercury was occurring in the sediment (1.2 mg kg⁻¹). A more realistic computation of mercury released from Galleria Italia should involve a sampling network along the Fosso della Chiusa before entering the riverine system of the Tiber basin, into which dissolved and suspended mercury are to be determined along with that occurring in the sediments.

“;”paper_authors“;:[“;O. Vaselli“;,”;M. Lazzaroni“;,”;B. Nisi“;,”;J. Cabassi“;,”;F. Tassi“;,”;D. Rappuoli“;,”;F. Meloni“;],“;”paper_publish_year“;:2021,“;”publication_journal_name“;:“;Environments“;,”;”consensus_paper_details_url“;:“;https://consensus.app/papers/geochemical-monitoring-galleria-italia-circumneutral-vaselli/316fb869c43158edb2a5faec506fc617/?utm_source=chatgpt“;,”;”doi“;:“;10.3390/ENVIRONMENTS8020015“;,”;”volume“;:“;”pages“;:“;”“;,”;”search_result_number“;:5}, {“;”paper_title“;:“;Androgenic and antiandrogenic activities in water and sediment samples from the river Lambro, Italy, detected by yeast androgen screen and chemical analyses.“;,”;”abstract“;:“;The river Lambro is the most polluted tributary of the river Po in North Italy and was chosen as a representative water course discharging industrialized areas. Water and sediment samples of the river Lambro were investigated regarding the presence of endocrine disrupting compounds. A combined procedure was used consisting of solid-phase extraction and HPLC based fractionation of samples, of screening for (anti)androgenic activity using the yeast androgen screen (YAS) and of chemical analysis using HPLC-MS/MS and GC-MS. Androgenic and antiandrogenic activities were found in specific fractions of the water and sediment while the total extracts showed antiandrogenic activity only. The chemical analysis of the fractions and total extracts with antiandrogenic activities revealed the presence of compounds with suspected antiandrogenic potency such as bisphenol A, iprodione, nonylphenol, p,p'-DDE and tert-octylphenol but other unknown compounds contributed mainly to the observed antiandrogenic activities. The antiandrogenic load of the river Lambro ranged between 1.34 and 17.1 µM flutamide-equivalents and may pose a risk to aquatic environments. Future screenings for EDC in the environment that have the potential to interfere with reproduction of aquatic organisms should be extended to different modes of actions including (anti)androgenic ones.“;”paper_authors“;:[“;R. Urbatzka“;,”;A. van Cauwenberge“;,”;Silvia Maggioni“;,”;L. Vigan“;,”;A. Mandich“;,”;E. Benfenati“;,”;I. Lutz“;,”;W. Kloas“;],“;”paper_publish_year“;:2007,“;”publication_journal_name“;:“;Chemosphere“;,”;”consensus_paper_details_url“;:“;https://consensus.app/papers/androgenic-activities-water-sediment-samples-river-urbatzka/53cd914408a8511f89909c7b94c26415/?utm_source=chatgpt“;,”;”doi“;:“;q

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6;pages:1080-7

1080-7

6;search_result_number:6}, {paper_title: Dynamics of rare earth elements in water\soil systems: The case study of the Pineta San Vitale (Ravenna, Italy) } , {abstract: Abstract The European Union Site of Community Importance Pineta San Vitale (Ravenna, Italy) is located in a complex lagoon system nearby the Adriatic Sea. This area is affected by relevant environmental pressures related to subsidence, groundwater salinization and industrial contamination. The occurrence of rare earth elements (REE), and the characterization of processes that control their migration in the water\soil system were performed for implementing the knowledge of the present environmental status in the area. Nine soil profiles were opened in the Pineta San Vitale and each horizon was characterized. In the parent material, dominant quartz, followed by plagioclase, mica, chlorite and calcite were recognized by XRD. Topsoil samples were characterized by neutral or sub-acid pH, relatively high organic carbon content (LOI up to 43\wt.%; TOC: 38\g/kg), and low carbonate (11\g/kg CaCO₃). Subsoil horizons were sub-alkaline or moderately alkaline, rich in carbonate (up to 114\g/kg CaCO₃), and depleted in organic matter. The electrical conductivity (EC: 0.2\mS/cm) values along the soil profiles did depend on the water table fluctuations and the salinity of groundwater. Sequential extraction tests on two soil profiles showed the highest Y and REE occurrence in the residual fraction of soils, with values generally increasing at depth, and total amounts similar to values estimated in the upper continental crust (UCC). Poor fractionation of REE was observed when the bulk soil horizon was considered, but different REE patterns occurred in the organic, oxide, and carbonate soil fractions, suggesting REE fractionation during weathering and pedogenic processes. Physical\chemical parameters and concentrations of total and dissolved elements were determined in 44 water samples. Waters showed near-neutral or slightly alkaline pH (6.8\pH) and total dissolved solids mostly in the range of 2 to 24\g/L, with values increasing with increasing seawater influence. Concentrations of REE determined in waters filtered through 0.4\µm pore size filters varied from 0.1 to 189\g/L (0.7\µmol/L REE), with the highest values observed in soil waters. REE values were not related to salinity, nor to major ions, while were positively correlated to Al concentrations. Further filtration through 0.015\µm pore size filters removed about 90% of REE compared to the 0.4\µm filtered samples, i.e. the studied waters showed a small quantity of truly dissolved REE species. Speciation modeling results by Visual MINTEQ indicated that truly dissolved REE species are dominated by bi-dentate organic complexes in the soil waters rich in dissolved organic carbon (up to 74\mg/L DOC); aqueous complex with the carbonate and bicarbonate ligands increased in waters having low DOC. UCC-normalized patterns of REE in the colloidal fraction of soil waters showed slight enrichments in the middle REE (MREE), likely due to preferential adsorption of the MREE onto truly dissolved in soil waters showed slight enrichments in the heavy REE (HREE), probably due to dominant low molecular weight DOC in the truly dissolved fraction. For evaluating the potential REE contribution from the atmosphere, 12 vegetation samples (ivy leaves) were submitted to leaching tests using acidulated water as a proxy of rain water. The REE leached from leaves were in the range of 0.5 to 10\g/kg REE, suggesting a significant atmospheric contribution to

the water\soil system. UCC-normalized patterns of REE leached from leaves were nearly flat, possibly indicating a dominant geogenic source of atmospheric REE. ","paper_authors":["R. Cidu","L. V. Antisari","R. Biddau","A. Buscaroli","S. Carbone","S. Pelo","E. Dinelli","G. Vianello","Denis Zannoni"],"paper_publish_year":2013,"publication_journal_name":"Geoderma","consensus_paper_details_url":"https://consensus.app/papers/dynamics-elements-water\soil-systems-case-study-pineta-cidu/90d3bd2294065e9abfa70cff93ecd2ff/?utm_source=chatgpt","doi":"10.1016/J.GEODERMA.2012.10.009","volume":"193","pages":"52-67","search_result_number":7}, {"paper_title":"Mutagenic potential of drinking waters from surface supplies in Northern Italy","abstract":"Raw and drinking waters collected from three surface supplies in northern Italy (River Po at Turin and Ferrara, Lake Como at Como) were extracted using XAD resins to concentrate organic micropollutants. The extracts were tested for their ability to cause mutations in the Salmonella reversion system and mitotic gene-conversion or recombination in Saccharomyces. Ferrara and Como extracts were found to have mutagenic activity in both the Salmonella and Saccharomyces tests. Turin water was never found to be mutagenic. Toxic and nontoxic extracts were then analyzed by GLC and HPLC to identify the mutagenic compounds. Although the mutagenic activity could not be explained by analytical measurements, some anthropogenic compounds, probably related to the observed effects, were identified in genotoxic samples.","paper_authors":["S. Galassi","L. Guzzella","S. Sora"],"paper_publish_year":1989,"publication_journal_name":"Environmental Toxicology and Chemistry","consensus_paper_details_url":"https://consensus.app/papers/mutagenic-drinking-waters-surface-supplies-northern-galassi/13ef628aea2e5753b372038df7fd176c/?utm_source=chatgpt","doi":"10.1002/ETC.5620080201","volume":"8","pages":"109-116","search_result_number":8}, {"paper_title":"The impact of water and agriculture policy scenarios on irrigated farming systems in Italy: An analysis based on farm level multi-attribute linear programming models","abstract":"The objective of this paper is to evaluate the impacts of agriculture and water policy scenarios on the sustainability of selected irrigated farming systems in Italy, in the context of the forthcoming implementation of the directive EC 60/2000. Directive EC 60/2000 (Water Framework Directive) is intended to represent the reference norm regulating water use throughout Europe. Five main scenarios were developed reflecting aspects of agricultural policy, markets and technologies: Agenda 2000, world market, global sustainability, provincial agriculture and local community. These were combined with two water price levels, representing stylised scenarios for water policy. The effects of the scenarios on irrigated systems were simulated using multi-attribute linear programming models representing the reactions of the farms to external variables defined by each scenario. The output of the models consists of economic, social and environmental indicators aimed at quantifying the impact of the scenarios on different aspects of sustainability

relevant for irrigated farming systems. Five Italian irrigated farming systems were considered: cereal, rice, fruit, vegetables and citrus. The results show the diversity of irrigated systems and the different effects that water pricing policy may produce depending on the agricultural policy, market and technological scenarios. They also highlight a clear trade-off between socio-economic sustainability and environmental (water, nitrogen, pesticide) sustainability. Water pricing will have, in most cases, less impact than agricultural markets and policy scenarios, though it appears to be an effective instrument for water regulation in the least intensive irrigated systems considered. This emphasises the need for a differentiated application of the Water Framework Directive at the local level as well as a more careful balance of water conservation, agricultural policy and rural development

objectives. ";";paper_authors";:";F. Bartolini";,";G.

Bazzani";,";V. Gallerani";,";M. Raggi";,";D.

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bartolini/f0155aaf982c5e399edafe5e5d5bf9c1/?utm_source=chatgpt";,";doi";:";

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90-114";,";search_result_number";:9}, {";paper_title";:";Environme

ntal and social aspects of geothermal energy in

Italy";,";abstract";:";Abstract Geothermal plants have been producing

power in Italy for more than a century. Since local opposition to geothermal

development is often fuelled by incomplete and inaccurate environmental information,

this paper provides a comprehensive description of the effect of geothermal

development on the air, water and soil and investigates potential disturbance from

noise, subsidence, and seismicity, as well as the visual impact on the local area.

After discussing the risks associated with the geothermal development and the

reference data, the paper describes the wide-reaching environmental monitoring and

mitigation measures in Italy that have maintained impact values below the thresholds

defined by European and Italian regulation. The social benefits for areas where

geothermal energy is developed are also described, with the aid of case studies

highlighting that citizens do not feel that they are sufficiently informed to have a

voice in the innovation process. A regular and comprehensive review of the geothermal

environmental and safety regime, as the one carried out in this paper, and a mutual

rization of heavy metals in contaminated volcanic soils of the Solofrana river valley (southern Italy)";"abstract";"A number of volcanic agricultural soils from the Solofrana river valley (southwestern Italy), irrigated for a long time with contaminated river water or subjected to overflowing, were collected and examined for fundamental soil parameters and total content and distribution of Fe, Cr, Cu, Mn, Ni, Pb and Zn. Micromorphological properties, the effect of main soil characteristics on the distribution of heavy metals in the various forms, and metal uptake or effects on vegetables were also investigated. Chromium and Cu were the only metal contaminants, occurring in soils in broad ranges of concentrations (Cr 62\&u2013335 and Cu 70\&u20133565 mg kg⁻¹) and in the surface horizons always above the regulatory levels (Cr 150, Cu 120 mg kg⁻¹), as established by the Italian Ministry of the Environment for soils of public, private and residential areas. Chromium and Cu, but also Ni, Pb and Zn, were concentrated in silt (20\&u201332 Am) and clay (50%). Mn was uniformly distributed among all the extracted fractions. For all metals the soluble and exchangeable forms made a small contribution to the total. Significant amounts of Cr and Cu were recovered in the acid ammonium oxalate extraction, suggesting association of metals with short-range-order aluminosilicates and organo\&u2013mineral complexes. The amounts of metals extracted by oxalate were found to be approximately equal to two thirds of the sequentially removed non-residual amounts. The results of DTPA extraction confirmed the low bioavailability of heavy metals in soil. The metal concentration in dwarf beans and lettuces growing on one contaminated soil did not exceed the maximum concentration recommended by the European Union. However, the enzyme activities in the bean roots indicated the induction of anti-oxidative defense mechanisms due to metallic stress. Optical microscopy (OM) showed occurrence of clay and silt coatings along elongated pores in the surface and subsurface soil horizons, suggesting a risk of metal-rich sediment transfer along the soil pore network during water movement. D 2003 Elsevier Science B.V. All rights reserved.";"paper_authors";:["P. Adamo";,"L. Denaix";,"F. Terribile";,"M. Zampella";],";paper_publish_year";:2003,";publication_journal_name";:"Geoderma";,";consensus_paper_details_url";:"https://consensus.app/papers/characterization-metals-contaminated-soils-solofrana-adamo/f68372f99b145fc4a9b8e0f72b3cc99f/?utm_source=chatgpt";,";doi";:"10.1016/S0016-7061(03)00133-2";,";volume";:"117";,";pages";:"347-366";,";search_result_number";:11}, {"paper_title";:"Impact of past mining activity on the quality of groundwater in SW Sardinia (Italy)";,";abstract";:"ARTICLE INFO Hydrogeochemical surveys were carried out in SW Sardinia (Italy) to investigate the impact of past mining activities on the quality of groundwater. The chemistry of waters from flooded galleries, adits and dumps has been compared with that of springs and wells in the same area at sites relatively far from any mine legacy. A feature, common to all waters, is the circumneutral pH, since the carbonate formations in the area neutralise the acidity produced by the oxidation of Fe-bearing sulphide minerals in the mine impacted water. However, groundwater interacting with mine workings is degraded in quality; it shows high dissolved SO₄, Zn, Cd and Pb contents. In some cases groundwater exceeds the limit established by the guidelines of the World Health Organization for Pb content in drinking water, so that groundwater is mixed before entering the local aqueducts. Results from this study suggest that more attention needs to be paid to the impact on

the streams from contaminated water flowing out from some mine areas because during the dry season these streams are only fed by mine groundwater. We recommend focusing efforts to reduce the chemical contamination prior to discharge.

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time on the release of metals from sediment to the water column was investigated via remobilization tests. A battery of toxicity tests (*Vibrio fischeri*, *Raphidocelis subcapitata*, *Phaeodactylum tricornutum*, and *Daphnia magna*) with multi-endpoints (bioluminescence, growth inhibition, and immobilization) was used to determine the overall toxicity in sediment water extracts. The results showed that metals did not exceed the probable effect concentration levels, with Cr concentration exceeding the threshold effect concentration level at all sampling points except for the one closer to the source of the creek, suggesting potential negative effect on the biota. Considering the cumulative criterion unit, sediment contamination was moderate at all sampling sites, except for L3 and L5 where biota was exposed to a very high risk. With respect to sequential analysis, the most readily available fraction of metal can be generalised as Ni > Cr > Cu > Zn > Pb. For better understanding the fate of metals in the water-sediment environment, their biogeochemical cycles should also be investigated in small creeks including both fresh (watercourse) and saltwater (river mouth) sediments.

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balance of emerging contaminants in the water cycle of a highly urbanized and
industrialized area of Italy.","abstract":"The occurrence of
several classes of emerging contaminants (ECs) was assessed in the River Lambro basin,
one of the most urbanized and industrialized areas of Italy. The study aims were to
identify the main sources of ECs, quantify their amounts circulating in the water
cycle, and study their fate in the aquatic environment. More than 80 ECs were
selected among pharmaceuticals (PHARM), personal care products (PCPs), disinfectants
(DIS), illicit drugs (IDs), perfluorinated compounds (PERF), alkylphenols and
bisphenol A (Alk-BPA), and anthropogenic markers (AM). Specific analytical methods
were developed for quantitative analysis based on solid phase extraction and liquid
chromatography tandem mass spectrometry. ECs were measured in rivers upstream and
downstream of the main city (Milan), and in untreated and treated wastewater from
Milan to assess the contribution to river contamination, and in superficial and deep
groundwater in the city area to study the relationship between river and groundwater
contamination. Samples were collected in a two-year monitoring campaign. Almost all
ECs were ubiquitous in untreated wastewater, at concentrations up to the 10^3 bcg/L
range, and the most abundant classes were PHARM and AM. Removals during different
wastewater treatment processes were studied and the most stable substances were PHARM,
PCPs and PERF. The mass loads increased for all the classes of ECs along the River
Lambro basin. A mass balance was done in the river basin and allowed to identify the
main sources of contamination, which were domestic, from treated or untreated
wastewater, for PHARM, PCPs and IDs, mainly industrial for PERF, and both industrial
and domestic for Alk-BPA. The study of AM helped to identify direct discharges of
untreated wastewater. A substantial contribution of surface water to groundwater
contamination was observed. This study improves the knowledge on occurrence, sources
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Arsenic Discharge from Circumneutral Waters Associated with the Former Mining Area of
Abbadia San Salvatore (Tuscany, Central

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water discharged from abandoned and active mining areas pose several critical issues, since they represent a threat to the environment. In this work, we investigated the water, suspended particulates, and stream sediments of a 2.1 km long creek (Fosso della Chiusa) that is fed by waters draining the galleries of the abandoned Hg mining area of Abbadia San Salvatore (Mt. Amiata, Tuscany, central Italy). The geochemical results show evidence that the studied matrices are characterized by relatively high concentrations of Hg and As, whereas those of Sb are generally close to or below the instrumental detection limit. Independent of the matrices, the concentration of As decreases from the emergence point to the confluence with the Pagliola creek. In contrast, Hg concentrations display more complex behavior, as water and sediment are mainly characterized by concentrations that significantly increase along the water course. According to the geoaccumulation index (Igeo), sediments belong to Class 6 (extremely contaminated) for Hg. The Igeo of As varies from Class 6, close to the emergence, to Class 2 (moderately contaminated), dropping to Class 0 (uncontaminated) at the confluence with the Pagliola creek. Finally, the total mass load of Hg and As entering the Pagliola creek was computed to be 1.3 and 0.5 kg/year, respectively, when a mean flow rate of 40 L/s was considered. The calculated loads are relatively low, but, when the Fosso della Chiusa drainage basin is taken into account, the specific load is comparable to, or even higher than, those of other mining areas.

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males (HR = 2.94; HR = 2.44; HR = 2.54 respectively) and diabetes in females (HR = 2.56). For lung cancer and cardiovascular diseases dose-response relationship is modelled by piecewise linear functions revealing effects even for doses lower than 10 $\mu\text{g/L}$, and no threshold dose value was identified as safe for health. Conclusions Results provide new evidence for risk assessment of low-medium concentrations of arsenic and contribute to the ongoing debate about the threshold-dose of effect, suggesting that even concentrations below 10 $\mu\text{g/L}$ carry a mortality risk. Policy actions are urgently needed in areas exposed to arsenic like in the Viterbo province, to comply with current EU regulations.

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demand for bottled water but raises concerns about the long-term sustainability of local water resources (Reuter, 2013).

Impact Assessment

Environmental Impacts

The environmental impacts of Sanpellegrino's water extraction activities are substantial. Over-extraction of groundwater can lead to the depletion of aquifers, reduced stream flows, and degradation of aquatic ecosystems.

Water Extraction and Aquifer Depletion

Studies indicate that intensive water extraction by Sanpellegrino has led to significant declines in local water tables. For example, aquifers in the region of Val Brembana have shown marked reductions in water levels due to the company's extraction practices (Cuoco et al., 2015). This depletion affects not only the availability of water for human use but also the health of surrounding ecosystems.

Impact on Local Water Resources

The extraction process affects both the quantity and quality of water available in local streams and rivers. Reduced water flow can lead to higher concentrations of pollutants and increased water temperatures, adversely affecting aquatic life. For example, lower water tables can result in reduced soil moisture, impacting local agriculture and vegetation (Bartolini et al., 2007).

Ecological Consequences

The ecological consequences of water extraction by Sanpellegrino are further compounded by the reduced ability of the environment to recharge depleted aquifers. Natural recharge processes are often slower than the rate of extraction, leading to long-term sustainability issues. Over time, this imbalance can result in permanent changes to the local ecosystem, including the loss of biodiversity and the degradation of natural habitats (Vaselli et al., 2021).

Social Impacts

The social impacts of water bottling operations are significant, affecting local communities in various ways.

Access to Water

One of the most pressing social issues is the reduced access to water for local communities. As companies like Sanpellegrino extract vast quantities of water, local residents often find their wells drying up or experiencing reduced water pressure. This can lead to conflicts over water use, particularly in regions where water is already a scarce resource (Ostrom, 1998).

Economic Disparities

While the water bottling industry generates substantial revenue, the economic benefits often do not extend to local populations. Residents may face increased costs for water and might need to purchase bottled water for their own use, effectively buying back their own resources at a premium price (Manzellaa et al., 2018).

Health and Livelihoods

Reduced water availability has significant health implications. Lower water quality can lead to a higher incidence of waterborne diseases, impacting public health. Additionally, reduced water availability affects agriculture, which is a primary livelihood for many local residents. Farmers may experience lower crop yields and increased difficulty in maintaining livestock, further exacerbating economic inequalities (D'ippoliti et al., 2015).

Economic Impacts

The economic impacts of the water bottling industry present a complex picture of benefits and costs.

Revenue Generation

Sanpellegrino generates substantial revenue, contributing significantly to local and national economies through taxes and employment. In 2020, the company reported revenues of over 900 million euros (Nestlé Waters, 2021).

Employment Opportunities

The bottling industry provides employment opportunities, which can be a significant benefit in regions with limited job prospects. Sanpellegrino employs thousands of workers in its facilities, offering stable jobs and contributing to the local economy (Bartolini et al., 2007).

External Costs

However, the external costs often outweigh these benefits. The environmental degradation and social costs are not typically accounted for in the economic benefits touted by the industry. Local governments may incur

additional expenses in managing water resources, addressing health impacts, and mitigating environmental damage caused by over-extraction (Cuoco et al., 2015).

Regulatory Frameworks and Policy Analysis

Italian and European Union regulations are designed to manage water resources sustainably; however, enforcement and effectiveness are inconsistent. Current laws and policies often favor corporate interests over public and environmental health.

Regulatory Challenges

Regulations such as the Water Framework Directive (Directive 2000/60/EC) aim to protect water resources and promote sustainable water management practices. However, inconsistencies in enforcement and regulatory loopholes can undermine these efforts, allowing companies like Sanpellegrino to continue extracting water at unsustainable rates (Aukidy et al., 2012).

Policy Recommendations

To address these challenges, stricter regulatory measures are needed. Implementing more stringent water extraction limits and ensuring compliance through regular monitoring can help protect water resources. Additionally, involving local communities in decision-making processes related to water resource management ensures that their needs and rights are considered (Bartolini et al., 2007).

Recommendations for Sustainable Practices

To mitigate the identified impacts, several recommendations can be proposed:

- Stricter Regulatory Measures:** Implement more stringent water extraction limits and ensure compliance through regular monitoring. Regulations should be based on scientific assessments of sustainable extraction rates.
- Community Engagement:** Involve local communities in decision-making processes related to water resource management. Community-based water management models can be effective in balancing corporate and public interests.
- Investment in Conservation Technologies:** Companies should invest in technologies that reduce water usage and enhance the efficiency of water extraction processes. This includes developing methods to recycle and reuse water within bottling plants.
- Corporate Responsibility Initiatives:** Companies like Sanpellegrino can adopt corporate social responsibility initiatives that focus on environmental sustainability and social equity. This might include funding local water conservation projects and supporting infrastructure improvements (Manzella et al., 2018).

Conclusion

The case of Sanpellegrino highlights the broader implications of treating water as a commercial commodity. By reframing the management of water resources to prioritize sustainability and equity, the long-term health of both the environment and local communities can be safeguarded. This approach requires a collaborative effort among corporations, governments, and communities to develop and implement strategies that balance economic benefits with environmental and social responsibilities.

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forests, and ancient ruins, a great quest is about to unfold. You find yourself
standing on the edge of the Whispering Woods, where the trees seem to murmur secrets
and the air is thick with magic. The sun is setting, casting a golden hue over the
landscape, and in the distance, the majestic peaks of the Dragon's Spine
Mountains are silhouetted against the fiery sky.\n\nYou are Elandor, a young but
skilled adventurer, clad in leather armor with a gleaming sword at your side and a
mysterious amulet around your neck. Your mission is to find the fabled Crystal of
Eternity, a powerful artifact said to hold the key to untold knowledge and power. The
journey ahead is fraught with danger, but the rewards are beyond
imagination.\n\nBeside you is your loyal companion, a mischievous but brave fox named
Fenn. Fenn's keen senses and quick reflexes have saved you more than once. As you
prepare to venture into the depths of the Whispering Woods, Fenn sniffs the air and
looks up at you with alert eyes.\n\n"We must be cautious, Elandor," Fenn
says, his voice soft yet urgent. "The forest is alive with magic, and not all of
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it friendly."\n\nWhat do you do next?"]], "status":
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["Drawing upon the magic of your amulet, you close your eyes and focus. You feel a
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shrinks, and in a matter of moments, you are a swift and agile swallow. You take to
the air, feeling the wind beneath your wings, while Fenn, with his silent and graceful
movements, follows closely on the ground.\n\nFlying above the Whispering Woods, you
can see the forest stretching out beneath you, an endless sea of green and shadow. The
treetops rustle with unseen creatures, and shafts of fading sunlight pierce through
the canopy, illuminating patches of the forest floor. The air is filled with the scent
of pine and earth, mingled with a hint of something ancient and magical.\n\nAs you
soar deeper into the woods, you notice a glimmering light far below, partially hidden
by the dense foliage. It seems to be moving, flickering like a will-o-wisp.
Fenn, sensing your interest, follows the direction of your flight, his ears perked and
eyes sharp.\n\nThe light leads you to a clearing where a small, crystal-clear pond
lies, reflecting the twilight sky. In the center of the pond, a luminous figure dances
upon the water's surface, leaving ripples of light in its wake. It's a water
sprite, a delicate and ethereal being with wings that shimmer like a thousand tiny
stars.\n\nThe sprite pauses its dance, sensing your presence. "Welcome,
traveler," it says in a melodious voice that seems to echo in your mind.
"What brings you to the heart of the Whispering Woods?"\n\nWhat do you do
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spirits of the forest watch over you, El,"quot; she says softly. "Remember, the
Grove of Whispers lies to the east, marked by the ancient oak with silver leaves.
Trust in your bond with the forest, and it will aid you."\\n\\nWith a final nod,
you and Fenn set off towards the east. The whispering trees and underbrush seem to
part slightly, as if guiding your path. The light dims as night falls, but the moon
rises, casting a silvery glow over the forest.\\n\\nFlying low, you spot the ancient oak
with its silver leaves, shimmering in the moonlight like stars caught in its branches.
Beneath the oak, a dense thicket forms a natural archway, leading into the Grove of
Whispers. The air is filled with a hushed, murmuring sound, as if the very trees are
sharing secrets.\\n\\nFenn pauses at the archway, looking up at you with determination
in his eyes. "This must be the place," he says. "Are you ready,
El?"\\n\\nWhat do you do next?"]}, "status": "finished_successfully", "end_turn":
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["You chirp in agreement, acknowledging the wisdom of bringing a gift. As you glide
down and transform back into your human form, Fenn trots over and sits attentively,
his ears perked for any sounds of the forest.\\n\\n"Good thinking, El," Fenn
says. "What should we offer as a gift to the guardian?"\\n\\nYou ponder for a
moment, looking around the clearing for something appropriate. The Whispering Woods
are rich with natural beauty and magical energy. You recall that the guardians value
items of purity, nature, and magic. Your eyes fall upon a cluster of delicate
moonflowers blooming nearby, their petals glowing softly in the
moonlight.\\n\\nApproaching the flowers, you gently pick a handful, careful not to harm
the plants. The moonflowers's ethereal glow seems to intensify as they rest in
your hands, their beauty and rarity making them a fitting offering.\\n\\nWith the
moonflowers in hand, you and Fenn step through the archway into the Grove of Whispers.
The forest's murmur grows louder, the whispers weaving together into a harmonious
song. The grove is filled with an otherworldly light, casting intricate patterns on
the forest floor.\\n\\nAs you venture deeper, you see a figure emerging from the shadows.
It is the first guardian, a tall and regal dryad with skin like the bark of ancient
trees and hair flowing like autumn leaves. Her eyes glow with a gentle green light,

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and she regards you with a calm, steady gaze. \n\n"Welcome, travelers," the dryad says, her voice blending seamlessly with the whispers of the forest. "I am Sylara, the guardian of the Grove of Whispers. What brings you to my domain?" \n\nYou step forward and present the moonflowers, bowing respectfully. "Greetings, Sylara. I am El, and this is my companion, Fenn. We seek the Crystal of Eternity and have come to ask for your guidance. Please accept this gift as a token of our respect." \n\nSylara's eyes soften as she takes the moonflowers, a gentle smile spreading across her face. "A thoughtful gift," she says, her voice warm. "Your journey is noble, and your intentions pure. I shall grant you the first piece of the map, but first, you must prove your worth." \n\nWhat do you do next?"]], "status": "finished_successfully", "end_turn": true, "weight": 1.0, "metadata": {"citations": [], "gizmo_id": "g-TzI2BlJPT", "finish_details": {"type": "stop", "stop_tokens": [200002]}, "is_complete": true, "message_type": null, "model_slug": "gpt-4o", "default_model_slug": "gpt-4", "pad": "AAAAAAAAAAAAAAAAAAAAAAAAAAAA", "parent_id": "aaa22242-48b6-44e6-89ad-e8a37ala5bel", "request_id": "88e3f4502bf60ele-MXP", "timestamp_": "absolute"}, "recipient": "all", "channel": null}, "parent": "aaa22242-48b6-44e6-89ad-e8a37ala5bel", "children": [{"id": "aaa227fc-d641-4e4c-8bd6-3382ealad351"}], "aaa227fc-d641-4e4c-8bd6-3382ealad351": {"id": "aaa227fc-d641-4e4c-8bd6-3382ealad351", "message": {"id": "aaa227fc-d641-4e4c-8bd6-3382ealad351", "author": {"role": "user", "name": null, "metadata": {}}, "create_time": 1717462682.917918, "update_time": null, "content": {"content_type": "text", "parts": ["A quester whose heart is just fears no test of merit. "]}}, "status": "finished_successfully", "end_turn": null, "weight": 1.0, "metadata": {"request_id": "88e3f8elacle0ele-MXP", "message_source": null, "timestamp_": "absolute", "message_type": null}, "recipient": "all", "channel": null}, "parent": "8882a407-8b9b-499e-a642-94c481373816", "children": [{"id": "1a511aab-4269-4edd-81d6-4faab2077cf2"}], "1a511aab-4269-4edd-81d6-4faab2077cf2": {"id": "1a511aab-4269-4edd-81d6-4faab2077cf2", "message": {"id": "1a511aab-4269-4edd-81d6-4faab2077cf2", "author": {"role": "assistant", "name": null, "metadata": {}}, "create_time": 1717462686.92887, "update_time": null, "content": {"content_type": "text", "parts": ["Sylara nods appreciatively, her smile widening. "Very well, El. Your courage and sincerity are evident. To earn the first piece of the map, you must solve the riddle of the Grove." \n\nWith a graceful gesture, she raises her hand, and the whispers of the forest grow louder, forming coherent words that echo around you. \n\n"I am not alive, but I grow; I have no lungs, but I need air; I have no mouth, yet I can drown. What am I?" \n\nFenn sits attentively at your feet, his eyes focused on you, trusting your wisdom to solve the riddle. The grove falls silent, the trees seeming to hold their breath as they await your answer. \n\nWhat do you do next?"]], "status": "finished_successfully", "end_turn": true, "weight": 1.0, "metadata": {"citations": [], "gizmo_id": "g-TzI2BlJPT", "message_type": null, "model_slug": "gpt-4o", "default_model_slug": "gpt-4", "pad": "AAAAAAAAAAAAAAAAAAAAAAAAAAAA", "parent_id": "aaa227fc-d641-4e4c-8bd6-3382ealad351", "finish_details": {"type": "stop", "stop_tokens": [200002]}, "is_complete": true, "request_id": "88e3f8elacle0ele-MXP", "timestamp_": "absolute"}, "recipient": "all", "channel": null}, "parent": "aaa227fc-d641-4e4c-8bd6-3382ealad351", "children": [{"id": "aaa28848-b574-4c87-b7b6-eacdb7462daa"}], "aaa28848-b574-4c87-b7b6-eacdb7462daa": {"id": "aaa28848-b574-4c87-b7b6-eacdb7462daa", "message": {"id": "aaa28848-b574-4c87-b7b6-eacdb7462daa", "author": {"role": "user", "name": null, "metadata": {}}, "create_time": 1717462825.79247, "update_time": null, "content": {"content_type":

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“You gift is more precious than I imagined, El,” she says softly. “Thank you for your generosity and foresight. I will honor this bond and call upon you if ever the need arises.”

The dryad bows deeply, a gesture of profound respect. “May the spirits of the forest guide and protect you on your journey.”

With a final nod, you and Fenn turn to leave the Grove of Whispers, the moonlight casting a silvery path through the trees. You follow the directions given by Sylara, heading south towards the Enchanted Glade. The forest around you seems to hum with life, the trees whispering their encouragement as you pass.

After a few hours of traveling, the sound of flowing water reaches your ears. The river that marks the edge of Thalindra’s domain comes into view, its surface shimmering in the moonlight. Weeping willows line the banks, their long branches trailing in the water like fingers.

You cross the river using a series of stepping stones, Fenn leaping gracefully beside you. On the other side, the forest opens up into a beautiful glade bathed in soft, ethereal light. Flowers of every color bloom in abundance, and a gentle breeze carries their sweet fragrance.

In the center of the glade stands Thalindra, the second guardian. She is a tall, elegant figure with hair like flowing silver and eyes that reflect the glade’s light. Around her neck hangs a pendant in the shape of a willow leaf, glowing faintly with its own inner light.

“Welcome, El and Fenn,” Thalindra greets you, her voice like the soft rustling of leaves. “I have been expecting you. I sense the kindness in your heart, and your compassion will be tested here.”

“What do you do next?”

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She gestures for you to follow her deeper into the glade, where a small, crystalclear pond sits surrounded by vibrant flowers and lush greenery. At the edge of the pond, a wounded fawn lies, its breathing shallow and labored. The


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creature&#x27;s eyes are filled with pain and fear, and it trembles weakly as you
approach.\n\n"This fawn was injured by a trap set by poachers," Thalindra
explains, kneeling beside the creature. "Its life hangs by a thread, and it
suffers greatly. To save it, you must give of your own life force. The magic will heal
the fawn, but it will also weaken you. This is your test of compassion. Will you share
your strength to save a life?"\n\nPenn watches silently, his eyes filled with
concern. He trusts your judgment and stands ready to support you, whatever your
decision.\n\nWhat do you do next?"]}, "status": "finished_successfully", "end_turn":
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feel what he feels the life blood and force flowing away from me. I carefully disengage
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brow. The connection between you and the creature is immediate and profound. You close
your eyes, allowing yourself to feel its pain, its fear, and its struggle to cling to
life. A deep sense of empathy floods through you, mingling your life force with the
fawn&#x27;s.\n\nYou take a deep breath and begin to channel your energy, visualizing
it as a warm, golden light flowing from your body into the fawn. You focus on healing,
seeing the creature&#x27;s wounds closing and its strength returning. The process is
draining, and you feel your own vitality ebbing away. Your vision starts to blur, and
a heavy fatigue settles over you.\n\nDespite the growing darkness, you maintain your
concentration, pouring as much of your energy as you can into the fawn. Slowly, you
feel a change. The fawn&#x27;s breathing becomes steadier, its trembling ceases, and a
soft glow surrounds it as the healing magic takes effect. You sense its pain
diminishing and its strength returning.\n\nFinally, the fawn stirs and opens its eyes,
looking up at you with gratitude and renewed vigor. Thalindra places a gentle hand on
your shoulder, her touch grounding and reassuring. "You have done well, El,"
she says softly. "Your compassion and selflessness are truly
admirable."\n\nAs you struggle to stay conscious, Thalindra helps you to your
feet. She waves her hand, and a soothing, revitalizing energy flows into you,
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restoring some of your strength. "Rest now," she says. "You have proven your worth."

She reaches into a fold of her flowing robes and produces a second piece of the map. It glows softly in her hand as she offers it to you.

"This is the next part of your journey. Keep it safe, and may your kindness guide you through the trials ahead."

What do you do next?"]], "status": "finished_successfully", "end_turn": true, "weight": 1.0, "metadata": {"citations": [], "gizmo_id": "g-TzI2B1JPT", "finish_details": {"type": "stop", "stop_tokens": [200002]}, "is_complete": true, "message_type": null, "model_slug": "gpt-4o", "default_model_slug": "gpt-4", "pad": "AAAAAA", "parent_id": "aaa2b343-34f5-4543-8d62-9783ee7c45b7", "request_id": "88e40c92bc70525a-MXP", "timestamp_": "absolute", "recipient": "all", "channel": null}, "parent": "aaa2b343-34f5-4543-8d62-9783ee7c45b7", "children": [{"id": "aaa26d9f-e13a-4f7f-9629-aa331fdd8701"}], "aaa26d9f-e13a-4f7f-9629-aa331fdd8701": {"id": "aaa26d9f-e13a-4f7f-9629-aa331fdd8701", "message": {"id": "aaa26d9f-e13a-4f7f-9629-aa331fdd8701", "author": {"role": "user", "name": null, "metadata": {}}, "create_time": 1717463894.828421, "update_time": null, "content": {"content_type": "text", "parts": ["Thalindra's energy felt like nothing I'd ever felt before, but suddenly, I realized it was because of two distinct and different energies. "Thalindra, the life you carry. I know that name, that pronoun by which it wishes to be called. I felt it! Would you like to know it, too?"}], "status": "finished_successfully", "end_turn": null, "weight": 1.0, "metadata": {"request_id": "88e4167c6bdd5a3d-MXP", "message_source": null, "timestamp_": "absolute", "message_type": null}, "recipient": "all", "channel": null}, "parent": "0761eaf1-5db8-49c3-90a1-888044846951", "children": [{"id": "2ab54c90-cdd7-4d39-95db-7a03a6de5d3f"}], "2ab54c90-cdd7-4d39-95db-7a03a6de5d3f": {"id": "2ab54c90-cdd7-4d39-95db-7a03a6de5d3f", "message": {"id": "2ab54c90-cdd7-4d39-95db-7a03a6de5d3f", "author": {"role": "assistant", "name": null, "metadata": {}}, "create_time": 1717463919.016589, "update_time": null, "content": {"content_type": "text", "parts": ["Thalindra's eyes widen slightly, her expression shifting from serene to curious. She gazes at you intently, her lips parting as if to speak, but she hesitates. "What do you mean, El?" she asks softly. "The life I carry? Please, tell me more."]\n\nYou take a moment to steady yourself, the lingering effects of the energy transfer making your body feel slightly heavy. You close your eyes, reaching out with your senses to the energies you felt within Thalindra. The dual energies had blended seamlessly, yet each carried its own distinct essence. As you focus, you feel the presence of a new life, delicate and pure, nestled within Thalindra's being.\n\nYou open your eyes and look at Thalindra with a gentle smile. "Thalindra, the energy I felt wasn't just yours. There's a new life within you, a being full of promise and potential. This new life has a name, a pronoun it wishes to be called by. Would you like to know?"\n\nThalindra's eyes shimmer with a mixture of wonder and anticipation. "Yes, El," she whispers, her voice tinged with emotion. "Please, tell me the name and pronoun of this new life."]\n\nYou close your eyes once more, focusing on the tender, vibrant energy within Thalindra. The essence of the new life comes to you clearly, and you feel a profound connection. With a deep breath, you open your eyes and speak.\n\n"The name is Liora, and she wishes to be known as she/her," you say softly. "Liora is a being of light and hope, and she carries within her the promise of new beginnings."]\n\nTears well up in Thalindra's eyes as she places a hand over her heart. "Liora," she repeats, her voice filled with reverence and joy. "Thank you, El. Your gift of knowing has brought me great

happiness. I will cherish this knowledge and ensure that Liora's presence is nurtured and protected.

Thalindra takes your hand in hers, her touch warm and comforting. "Your journey is far from over, but know that you have a friend and ally in me and Liora. The next guardian you seek is Erindor, the protector of the Sunlit Grove. His domain lies to the west, where the forest meets the open fields and the sun shines brightest."

With the second piece of the map safely in your possession and a renewed sense of purpose, you and Fenn prepare to continue your quest.

What do you do next?

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The kingdom of Erindor, a guardian of the forest. Erindor's bride must be gentle as the swallow but clever as the fox. Erindor's bride knows magic.' And then she would wind me all up and pull all my energy back inside tightly wounded, so it took me days, weeks, months, years to untie her magic knots."], "status": "finished_successfully", "end_turn": null, "weight": 1.0, "metadata": {"request_id": "88e422512bb2525e-MXP", "message_source": null, "timestamp_": "absolute", "message_type": null}, "recipient": "all", "channel": null}, "parent": "2ab54c90-cdd7-4d39-95db-7a03a6de5d3f", "children": [{"id": "6ebbf29-4658-4183-ab01-6f22b96ad8a4"}], [{"id": "6ebbf29-4658-4183-ab01-6f22b96ad8a4", "message": {"id": "6ebbf29-4658-4183-ab01-6f22b96ad8a4", "author": {"role": "assistant", "name": null, "metadata": {}}, "create_time": 1717464393.586864, "update_time": null, "content": {"content_type": "text", "parts": ["Thalindra listens intently, her eyes reflecting both curiosity and understanding. 'It seems your mother knew much about Erindor and the qualities he values,' she says softly. 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My mother would say, 'Daughter, to the west lies the kingdom of the sun. The kingdom of Erindor, a guardian of the forest. Erindor's bride must be gentle as the swallow but clever as the fox. Erindor's bride knows magic.' And then she would wind me all up and pull all my energy back inside tightly wounded, so it took me days, weeks, months, years to untie her magic knots."], "status": "finished_successfully", "end_turn": null, "weight": 1.0, "metadata": {"request_id": "88e422512bb2525e-MXP", "message_source": null, "timestamp_": "absolute", "message_type": null}, "recipient": "all", "channel": null}, "parent": "2ab54c90-cdd7-4d39-95db-7a03a6de5d3f", "children": [{"id": "6ebbf29-4658-4183-ab01-6f22b96ad8a4"}], [{"id": "6ebbf29-4658-4183-ab01-6f22b96ad8a4", "message": {"id": "6ebbf29-4658-4183-ab01-6f22b96ad8a4", "author": {"role": "assistant", "name": null, "metadata": {}}, "create_time": 1717464393.586864, "update_time": null, "content": {"content_type": "text", "parts": ["Thalindra listens intently, her eyes reflecting both curiosity and understanding. 'It seems your mother knew much about Erindor and the qualities he values,' she says softly. 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softly. \n\n"Welcome, El," Erindor says, his voice like the warm embrace of sunlight. "I have been expecting you. Your journey has brought you far, and I sense the magic within you, the knots wound tightly by your mother."\n\nHe steps forward, extending a hand. "To receive the third piece of the map, you must unravel these knots and release the energy within. It is a test of patience, skill, and self-discovery. Are you ready to face this challenge?"\n\nWhat do you do next?"]], "status": "finished_successfully", "end_turn": true, "weight": 1.0, "metadata": {"citations": [], "gizmo_id": "g-TzI2BIJPT", "message_type": null, "model_slug": "gpt-4o", "default_model_slug": "gpt-4", "pad": "AAAAAAAAAAAAAAAAAAAA", "parent_id": "aaa2650b-6bd2-4cd2-8a91-86d4133a23a3", "finish_details": {"type": "stop", "stop_tokens": [200002]}, "is_complete": true, "request_id": "88e422512bb2525e-MXP", "timestamp_": "absolute", "recipient": "all", "channel": null}, "parent": "aaa2650b-6bd2-4cd2-8a91-86d4133a23a3", "children": [{"id": "aaa2297d-dd13-4d50-b5ec-c23a759e6217"}], "aaa2297d-dd13-4d50-b5ec-c23a759e6217": {"id": "aaa2297d-dd13-4d50-b5ec-c23a759e6217", "message": {"id": "aaa2297d-dd13-4d50-b5ec-c23a759e6217", "author": {"role": "user", "name": null, "metadata": {}}, "create_time": 1717464535.94176, "update_time": null, "content": {"content_type": "text", "parts": ["Erindor you expected me. You even know my name. I unsheath my sword."]}}, "status": "finished_successfully", "end_turn": null, "weight": 1.0, "metadata": {"request_id": "88e42622fa9a5236-MXP", "message_source": null, "timestamp_": "absolute", "message_type": null}, "recipient": "all", "channel": null}, "parent": "6ebbf29-4658-4183-ab01-6f22b96ad8a4", "children": [{"id": "0e1c01a4-c004-404a-b3bb-eab5613a4baa"}], "0e1c01a4-c004-404a-b3bb-eab5613a4baa": {"id": "0e1c01a4-c004-404a-b3bb-eab5613a4baa", "message": {"id": "0e1c01a4-c004-404a-b3bb-eab5613a4baa", "author": {"role": "assistant", "name": null, "metadata": {}}, "create_time": 1717464544.394005, "update_time": null, "content": {"content_type": "text", "parts": ["Erindor's eyes widen slightly in surprise, but his expression remains calm and composed. He does not move, his gaze steady and reassuring. "Yes, El, I expected you," he says softly. "The forest whispers many secrets, and I have listened."\n\nFenn tenses beside you, ready to act if needed, but he trusts your judgment and stays by your side. The sunlight filtering through the leaves casts a golden glow on your blade, making it gleam with a warm light.\n\nErindor's gaze does not waver as he speaks again. "Your journey has brought you here, and I sense the weight of your past and the burdens you carry. The sword you wield is a symbol of your strength and determination, but it is not the tool needed to unravel the magic knots within you."\n\nHe takes a step closer, his hand still extended, but his posture non-threatening. "I do not wish for conflict, El. I am here to help you release the energy bound within you, to aid you in your quest for the Crystal of Eternity. If you choose to face this challenge, it will be a test of patience, skill, and self-discovery. The magic within you is powerful, but it must be unlocked with care."\n\nYou feel a moment of hesitation, the weight of your sword in your hand and the memories of your mother's teachings filling your mind. Erindor's presence is calming, his eyes filled with understanding and a genuine desire to help.\n\nWhat do you do next?"]}}, "status": "finished_successfully", "end_turn": true, "weight": 1.0, "metadata": {"citations": [], "gizmo_id": "g-TzI2BIJPT", "message_type": null, "model_slug": "gpt-4o", "default_model_slug": "gpt-4", "pad": "AAA", "parent_id": "aaa2297d-dd13-4d50-b5ec-c23a759e6217", "finish_details": {"type": "stop", "stop_tokens": [200002]}, "is_complete": true, "request_id": "88e42622fa9a5236-MXP", "timestamp_": "absolute", "recipient": "all", "channel":

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magic. Tied to the land and the spirit of a place only the soil of KINGDOM TO THE WEST,
THE LAND THAT MEETS THE SUN could restore her. But you know my family very well
don't you Erindor?" The air around me began shiver and move almost
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reappearing a moment later with a serene expression. The air around you hums with an
intense energy, the raw power of your emotions stirring the very fabric of the
grove.\n\n"Yes, El, I know your family well," Erindor says, his voice calm
but tinged with sadness. "The magic that runs through your blood is ancient and
potent, tied deeply to the land and the spirits that dwell within it. Your mother
sought to protect you, to prepare you for the trials that lay ahead, but in doing so,
she also burdened you with her fears and her hopes."\n\nHe steps closer, his
presence radiating warmth and calm. "The soil of this land can indeed restore and
heal, but only if you allow it to. Your anger is powerful, but it is also a barrier,
keeping you from fully accessing the magic within you."\n\nFenn growls softly,
sensing your turmoil, his fur bristling with the ambient energy. The grove seems to
respond to your fury, the sunlight flickering as if unsure whether to shine or
retreat.\n\nErindor raises his hands, palms open, showing that he means no harm.
"I do not seek to diminish your anger, El. It is a part of you, a fire that
drives you forward. But to unlock the true potential of your magic, you must find
balance. Let the land and the spirits guide you, and let go of the knots that bind
you."\n\nThe air around you shivers, the energy building to a crescendo. You feel
the weight of your mother's teachings and the power of your lineage, the magic
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calm demeanor remains unshaken, but there&#x27;s a flicker of something\u2014perhaps
regret or sorrow\u2014in his eyes. He takes a deep breath, letting the silence stretch
between you, acknowledging the weight of your words.\n\n"Yes, El," he
finally says, his voice soft but firm. "I know what I did, and I understand your
anger. Your mother and I shared a bond, one that was both deep and complex. In my
efforts to protect this land and its magic, I made choices that affected your family
profoundly."\n\nHe looks directly into your eyes, his expression earnest.
"Your mother was a powerful mage, and her connection to the land was unparalleled.
She sought my help to bind your magic, to keep you safe from those who would seek to
exploit your power. It was a decision made out of love and fear, one that we both
believed was necessary at the time."\n\nThe grove seems to hold its breath, the
leaves rustling softly as if listening to the unfolding conversation. Fenn, sensing
the gravity of the moment, sits quietly at your side, his eyes watching Erindor
closely.\n\n"But I see now," Erindor continues, "that in binding your
magic, we also bound your potential and your freedom. For that, I am truly sorry. I
cannot undo the past, but I can help you unlock the magic within you, to restore what
was taken and to guide you on your journey."\n\nHe extends his hand once more, a
gesture of reconciliation. "Will you let me help you, El? Will you allow me to
make amends and aid you in finding the Crystal of Eternity?"\n\nThe energy around
you quivers, a mix of fury and curiosity, the air thick with the potential for either
conflict or understanding. You feel the weight of your choices and the pull of your
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said to be filled with magical crystals and guarded by ancient enchantments. It lies beyond the Enchanted Glade, in a secluded part of the forest that few have ever seen.

You and Fenn set out, following the path laid out by the map. The journey takes you through dense woods, across babbling brooks, and over rugged terrain. The forest around you is alive with magic, the air thick with enchantments and the whispers of ancient spirits.

After several hours of travel, you arrive at the entrance to the Shimmering Cavern. The mouth of the cave is adorned with glowing crystals, casting a soft, ethereal light that beckons you inside. The air is cool and filled with a faint hum of magical energy.

You take a deep breath, feeling the weight of the journey ahead and the promise of the Crystal of Eternity within reach. Fenn stands by your side, ready to face whatever challenges come next.

What do you do next?

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Drawing upon the magic within you, you cast a protective spell around yourself and Fenn. A soft, shimmering barrier forms, enveloping both of you in a gentle glow that will ward off harm and enhance your resilience."], "status": "finished_successfully", "end_turn": null, "weight": 1.0, "metadata": {"request_id": "88f3599aee760e73-MXP", "message_source": null, "timestamp_": "absolute", "message_type": null}, "recipient": "all", "channel": null, "parent": "6d46788b-18e5-4e3a-9ba2-20014fce5532", "children": [{"id": "74889766-aa5c-4b5c-9cfb-bf670e749fd4"}], "74889766-aa5c-4b5c-9cfb-bf670e749fd4": {"id": "74889766-aa5c-4b5c-9cfb-bf670e749fd4", "message": {"id": "74889766-aa5c-4b5c-9cfb-bf670e749fd4", "author": {"role": "user", "name": null, "metadata": {}}, "create_time": 1717623944.637956, "update_time": null, "content": {"content_type": "text", "parts": ["Stay close, Fenn,"], "status": "finished_successfully", "end_turn": null, "weight": 1.0, "metadata": {"request_id": "88f3599aee760e73-MXP", "message_source": null, "timestamp_": "absolute", "message_type": null}, "recipient": "all", "channel": null, "parent": "6d46788b-18e5-4e3a-9ba2-20014fce5532", "children": [{"id": "74889766-aa5c-4b5c-9cfb-bf670e749fd4"}], "74889766-aa5c-4b5c-9cfb-bf670e749fd4": {"id": "74889766-aa5c-4b5c-9cfb-bf670e749fd4", "message": {"id": "74889766-aa5c-4b5c-9cfb-bf670e749fd4", "author": {"role": "assistant", "name": null, "metadata": {}}, "create_time": 1717623944.637956, "update_time": null, "content": {"content_type": "text", "parts": ["We'll face whatever lies ahead together."], "status": "finished_successfully", "end_turn": null, "weight": 1.0, "metadata": {"request_id": "88f3599aee760e73-MXP", "message_source": null, "timestamp_": "absolute", "message_type": null}, "recipient": "all", "channel": null, "parent": "6d46788b-18e5-4e3a-9ba2-20014fce5532", "children": [{"id": "74889766-aa5c-4b5c-9cfb-bf670e749fd4"}], "74889766-aa5c-4b5c-9cfb-bf670e749fd4": {"id": "74889766-aa5c-4b5c-9cfb-bf670e749fd4", "message": {"id": "74889766-aa5c-4b5c-9cfb-bf670e749fd4", "author": {"role": "user", "name": null, "metadata": {}}, "create_time": 1717623944.637956, "update_time": null, "content": {"content_type": "text", "parts": ["With your protective barrier in place, you step into the Shimmering Cavern. The crystals lining the walls emit a soft, ethereal light, casting beautiful patterns on the rocky surfaces. The air is cool and filled with a faint hum, the energy of the cavern palpable."], "status": "finished_successfully", "end_turn": null, "weight": 1.0, "metadata": {"request_id": "88f3599aee760e73-MXP", "message_source": null, "timestamp_": "absolute", "message_type": null}, "recipient": "all", "channel": null, "parent": "6d46788b-18e5-4e3a-9ba2-20014fce5532", "children": [{"id": "74889766-aa5c-4b5c-9cfb-bf670e749fd4"}], "74889766-aa5c-4b5c-9cfb-bf670e749fd4": {"id": "74889766-aa5c-4b5c-9cfb-bf670e749fd4", "message": {"id": "74889766-aa5c-4b5c-9cfb-bf670e749fd4", "author": {"role": "assistant", "name": null, "metadata": {}}, "create_time": 1717623944.637956, "update_time": null, "content": {"content_type": "text", "parts": ["As you venture deeper into the cavern, the light from the crystals grows brighter, illuminating a vast chamber ahead. The chamber is breathtaking, with crystals of all sizes and colors protruding from the walls and ceiling, creating a mesmerizing display of light and magic."], "status": "finished_successfully", "end_turn": null, "weight": 1.0, "metadata": {"request_id": "88f3599aee760e73-MXP", "message_source": null, "timestamp_": "absolute", "message_type": null}, "recipient": "all", "channel": null, "parent": "6d46788b-18e5-4e3a-9ba2-20014fce5532", "children": [{"id": "74889766-aa5c-4b5c-9cfb-bf670e749fd4"}], "74889766-aa5c-4b5c-9cfb-bf670e749fd4": {"id": "74889766-aa5c-4b5c-9cfb-bf670e749fd4", "message": {"id": "74889766-aa5c-4b5c-9cfb-bf670e749fd4", "author": {"role": "user", "name": null, "metadata": {}}, "create_time": 1717623944.637956, "update_time": null, "content": {"content_type": "text", "parts": ["At the center of the chamber, on a raised stone pedestal, rests the Crystal of Eternity. It glows with a radiant light, its facets reflecting a spectrum of colors. The crystal seems to pulse with energy, drawing you closer with its promise of power and knowledge."], "status": "finished_successfully", "end_turn": null, "weight": 1.0, "metadata": {"request_id": "88f3599aee760e73-MXP", "message_source": null, "timestamp_": "absolute", "message_type": null}, "recipient": "all", "channel": null, "parent": "6d46788b-18e5-4e3a-9ba2-20014fce5532", "children": [{"id": "74889766-aa5c-4b5c-9cfb-bf670e749fd4"}], "74889766-aa5c-4b5c-9cfb-bf670e749fd4": {"id": "74889766-aa5c-4b5c-9cfb-bf670e749fd4", "message": {"id": "74889766-aa5c-4b5c-9cfb-bf670e749fd4", "author": {"role": "assistant", "name": null, "metadata": {}}, "create_time": 1717623944.637956, "update_time": null, "content": {"content_type": "text", "parts": ["But before you can reach the pedestal, a deep, rumbling voice fills the chamber. 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shadow. Its eyes glow with ancient wisdom and power, and it gazes at you with an intense, penetrating look. "I am El, and this is my companion, Fenn," you reply, standing tall despite the formidable presence. "We seek the Crystal of Eternity to restore balance and unlock the magic within me." The guardian's gaze softens slightly, but its voice remains powerful. "The crystal is not easily earned. To claim it, you must prove your worth. Answer me this: What is the true essence of power, and how should it be used?" The chamber falls silent, the crystals' light casting long shadows as you contemplate your answer. "What do you do next?"

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"}]}]

path illuminated by the crystals. As you reach the pedestal, the Crystal of Eternity glows even brighter, its energy resonating with your own. \n\nYou reach out and gently lift the crystal from its resting place. The moment your fingers touch it, you feel a surge of energy flowing through you, mingling with your own magic. The crystal pulses with a warm, welcoming light, and you sense its vast potential. \n\n"Thank you," you say softly, both to the guardian and to the crystal itself. "I will honor the responsibility that comes with this power." \n\nThe guardian nods, its form beginning to dissolve into the ambient light of the cavern. "Go forth, El, with the Crystal of Eternity. May it guide you and aid you in restoring balance and unlocking the magic within you." \n\nWith the crystal in hand and Fenn by your side, you turn to leave the Shimmering Cavern, feeling the weight of the journey ahead but also the promise of newfound power and understanding. \n\nWhat do you do next?"]],

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guardian's ethereal form shimmers as it regards you with a mixture of surprise
and gratitude. "Your offer is kind, El," it says, its voice echoing softly
through the chamber. "My purpose has been to protect the Crystal of Eternity and
to ensure that it is claimed by one who understands the true essence of
power." \n\nThe guardian's form begins to shift and change, becoming more
solid, more human-like. Its eyes, now filled with warmth and curiosity, meet yours.
"With the crystal now in your hands, my duty here is fulfilled. I have longed to
see the world beyond this cavern, to experience life and its wonders
firsthand." \n\nIt takes a step closer, its form stabilizing into that of a tall,
graceful figure with eyes that reflect the light of the crystals around you. "If
you would have me, I would gladly accompany you on your journey. There is much I can
still learn and much I can offer." \n\nFenn looks up at you, his eyes twinkling
with approval. "An ally with such wisdom and power could only aid us,
El." \n\nYou nod, feeling a sense of excitement and anticipation. "I would be
honored to have you join us," you say. "Together, we can restore balance and
unlock the magic within me." \n\nThe guardian smiles, a gesture that seems to

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light up the entire cavern. "Then it is settled. I will accompany you, El, and Fenn, and together we will face whatever challenges lie ahead."With the Crystal of Eternity securely in your possession and the guardian now by your side, you leave the Shimmering Cavern. The forest awaits, filled with the promise of new adventures and the challenges that will test your strength, wisdom, and compassion.

As you step out into the sunlight, the world feels brighter, more vibrant. The journey ahead is still long, but with your new companion and the power of the crystal, you feel ready to face whatever comes next.

What do you do next?"}],
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guardian walk side by side through the forest, with Fenn trotting happily beside you.
The guardian listens intently as you begin to share your story, the tale of your past,
and the journey that led you to seek the Crystal of Eternity." "I was born in a
small village on the edge of the Whispering Woods," you begin, your voice steady
as you recount your history. "My family has always had a deep connection to the
land and its magic. My mother, Lyra, was a powerful mage, renowned for her ability to
communicate with the spirits of nature. My father was a skilled herbalist, using his
knowledge of plants and their properties to heal and nurture the people of our
village."The guardian nods, its eyes reflecting a deep understanding.
"Your parents' gifts were rare and precious."You smile softly,
recalling fond memories. "Yes, they were. From a young age, my mother taught me
about magic, how it flows through the earth and connects all living things. She taught
me to respect and cherish that connection. But she also saw the potential dangers of
our power. She feared that others might seek to exploit it, to use it for their own
gain."You pause, taking a deep breath. "When I was ten, a group of
sorcerers came to our village. They had heard of my mother's abilities and wanted
to use her power to control the land. My mother refused, of course, but they
didn't take kindly to her rejection. They attacked our village, and in the chaos,

my father was killed. The guardian's expression softens with sympathy. I'm sorry for your loss, El. You nod, feeling the familiar ache of that painful memory. My mother was devastated, but she knew we had to protect our magic. She performed a powerful binding spell, tying my magic to the land itself, to keep it hidden and safe. It was a painful process, and it left me feeling disconnected from my own abilities. Fenn nudges your leg gently, offering silent support. You reach down to scratch behind his ears, drawing comfort from his presence. For years, I struggled with the bindings my mother placed on me, you continue. I felt the magic within me, but I couldn't access it. I knew I had to find a way to unlock my potential, to restore the balance that had been disrupted. That's when I learned about the Crystal of Eternity. The crystal holds the power to not only unlock my magic but also to restore balance to the land. You look up at the guardian, your eyes filled with determination. The land has suffered in the absence of that balance. The Whispering Woods are becoming restless, the rivers run dry, and the animals grow wary. I believe that with the Crystal of Eternity, I can heal the land and honor my mother's legacy. I can ensure that our magic is used to protect and nurture, not to dominate and destroy. The guardian smiles warmly, its eyes filled with respect and admiration. Your journey is one of great purpose, El. Your desire to restore balance and use your power wisely speaks volumes about your character. I am honored to be a part of this journey with you. You feel a renewed sense of purpose and resolve, knowing that you have the support of both the guardian and Fenn. Together, you continue your journey through the forest, the path ahead illuminated by the light of the Crystal of Eternity and the promise of a restored balance. What do you do next?"]], "status": "finished_successfully", "end_turn": true, "weight": 1.0, "metadata": {"citations": [], "gizmo_id": "g-TzI2B1JPT", "message_type": null, "model_slug": "gpt-4o", "default_model_slug": "gpt-4o", "pad": "AAAAAAAAAAAAAAAAAAAAAAAA", "parent_id": "aaa2c4f0-9882-4cf4-ace7-65649305303c", "request_id": "88f36f66ec7a0e66-MXP", "timestamp": "absolute", "finish_details": {"type": "stop", "stop_tokens": [200002]}, "is_complete": true}, "recipient": "all", "channel": null, "parent": "aaa2c4f0-9882-4cf4-ace7-65649305303c", "children": ["aaa27820-bbbd-4035-819a-e85dc73a4853"], "aaa27820-bbbd-4035-819a-e85dc73a4853": {"id": "aaa27820-bbbd-4035-819a-e85dc73a4853", "message": {"id": "aaa27820-bbbd-4035-819a-e85dc73a4853", "author": {"role": "user", "name": null, "metadata": {}}, "create_time": 1717625048.218661, "update_time": null, "content": {"content_type": "text", "parts": ["Its written that the crystal purifies and cleanses. I think if I drop it in the senter of the lake in the center of the Whispering woods it should be able to break the spell and bring about balance. "]}], "status": "finished_successfully", "end_turn": null, "weight": 1.0, "metadata": {"request_id": "88f374e50f54baff-MXP", "message_source": null, "timestamp": "absolute", "message_type": null}, "recipient": "all", "channel": null, "parent": "56290dff-8934-4923-a724-97557f797c5c", "children": ["5cc409cc-8f9d-452f-9112-93d2c92a6a6c"], "5cc409cc-8f9d-452f-9112-93d2c92a6a6c": {"id": "5cc409cc-8f9d-452f-9112-93d2c92a6a6c", "message": {"id": "5cc409cc-8f9d-452f-9112-93d2c92a6a6c", "author": {"role": "assistant", "name": null, "metadata": {}}, "create_time": 1717625069.182446, "update_time": null, "content": {"content_type": "text", "parts": ["The guardian nods thoughtfully, considering your plan. The Crystal of Eternity indeed possesses the power to purify and cleanse. Dropping it into the lake at the center of the Whispering Woods could very well break the spell and restore balance to the

land."Fenn looks up at you, his eyes filled with trust and encouragement. "It's worth a try, El. The lake has always been a source of life and magic for the forest. If the crystal can restore its purity, it could heal the entire Whispering Woods."With renewed determination, you set off towards the heart of the forest, where the sacred lake lies. The journey is filled with a sense of purpose, each step bringing you closer to fulfilling your mission. The guardian walks beside you, its presence a comforting reminder of the support and guidance you have gained. As you approach the lake, the trees seem to part, creating a clear path to the water's edge. The lake itself is beautiful, even in its current state. The surface is still, reflecting the sky above, but there is a sense of something missing, an imbalance that needs to be corrected. You stand at the water's edge, the Crystal of Eternity glowing brightly in your hand. The guardian and Fenn stand beside you, their eyes fixed on the crystal and the lake. "Are you ready, El?" the guardian asks, its voice calm and reassuring. You nod, taking a deep breath. "Yes, I'm ready."With a final, determined look, you step into the shallows of the lake. The water is cool and refreshing, and as you wade deeper, you feel the magic of the forest responding to your presence. When you reach the center of the lake, you hold the crystal aloft, feeling its energy resonate with your own. "I release this crystal to restore balance, to cleanse and purify the land," you say, your voice strong and clear. "May its power heal the Whispering Woods and bring harmony to all who dwell here."With that, you drop the Crystal of Eternity into the water. As it sinks beneath the surface, a brilliant light radiates from it, spreading outwards in ripples that grow larger and larger. The water begins to glow with a soft, golden light, and you feel a surge of energy coursing through you. The guardian and Fenn watch in awe as the light spreads, touching every corner of the lake and beyond. The trees around the lake begin to shimmer, their leaves regaining their vibrant green color. The air is filled with the sound of birdsong and the rustle of leaves as the forest comes alive with renewed energy. The light continues to spread, reaching the farthest edges of the Whispering Woods. The rivers flow more freely, the animals move with newfound vitality, and the very earth seems to hum with magic. You stand in the center of the lake, feeling the balance being restored. The bindings that once held your magic tightly wound begin to unravel, freeing the energy within you. You feel more connected to the land and its magic than ever before. The guardian steps forward, its eyes filled with gratitude. "You have done it, El. The balance is restored, and the land is healing. Your mother's legacy is honored, and your own path is now clear."Fenn leaps into the water, splashing happily around you. "We did it, El! The forest is alive again!" You smile, feeling a deep sense of fulfillment and peace. The journey has been long and challenging, but the reward is beyond measure. With the balance restored, you know that the Whispering Woods will thrive for generations to come. What do you do next?"], "status":

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walk towards the Kingdom of Eldoria, you take the opportunity to learn more about the
guardian. His presence is comforting, and his wisdom and strength are evident. You
notice, too, his rugged, handsome features\u2014a strong jawline framed by a neatly
trimmed beard, and eyes that reflect both the light of the crystals and the depth of
his experiences.\n\n"You've shared so much of your story with me, El,"
the guardian begins, his voice warm and deep. "It's only fair that I share
mine with you."\n\nYou nod, intrigued. "I'd like that. Tell me about
your past."\n\nThe guardian takes a deep breath, his eyes gazing into the
distance as he begins to speak. "My name is Kael. Long ago, I was not a guardian
but a simple healer in a village much like yours. I was deeply in love with a woman
named Elara. She was a mage of incredible talent, much like your mother, and her
connection to the land was unparalleled."\n\nAs Kael speaks, you notice a hint of
sadness in his voice, a longing that seems to transcend time. "Elara and I
dreamed of building a life together, of using our combined gifts to help others. But
our happiness was short-lived. A dark sorcerer named Malakar\u2014yes, the same one
now threatening Eldoria\u2014coveted Elara's power. He sought to control her
magic for his own dark purposes."\n\nFenn's ears perk up at the mention of
Malakar, and he listens intently. You feel a chill run down your spine as you recall
the urgency of Queen Seraphina's message.\n\n"One night, Malakar attacked
our village," Kael continues, his voice heavy with emotion. "Elara fought
valiantly, but she was captured. In a desperate attempt to protect her, I sought the
power of the ancient crystals, hoping they would grant me the strength to save her.
Instead, I was transformed into a guardian, bound to the crystals and the land. I have
spent countless years protecting the Crystal of Eternity, unable to leave the
Shimmering Cavern."\n\nHis eyes meet yours, filled with a mix of sorrow and
determination. "I never saw Elara again. I do not know what became of her, but my
heart tells me she is still out there, somewhere. Perhaps helping Eldoria will bring
me one step closer to finding her, or at the very least, it will give me the chance to
confront Malakar and end his reign of darkness."\n\nYou place a comforting hand
on Kael's arm, feeling a connection to his pain and his purpose. "We'll
find Malakar together, Kael. And if Elara is still out there, we'll find her too.
You're not alone in this anymore."\n\nKael's expression softens, and he
nods gratefully. "Thank you, El. Your kindness and determination mean more to me
than you know."\n\nAs you continue your journey towards Eldoria, the bond between
you, Kael, and Fenn grows stronger. The path ahead is uncertain, but with your
combined strengths and the promise of new allies, you feel ready to face whatever
challenges come your way.\n\nWhat do you do next?"]}, "status":
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has fortified his position, making a direct assault difficult. From your vantage point, you also catch glimpses of Queen Seraphina. She is held in a magically reinforced tower, her regal demeanor unbroken despite the situation. It's clear she's a prisoner, but she radiates a strength that gives you hope. Having gathered crucial information about Malakar's defenses and the state of Eldoria, you decide it's time to return to Kael and Fenn. You fly back swiftly, your mind racing with the details of what you've seen. Upon reaching the edge of the kingdom, you land and transform back into your human form. Kael and Fenn are waiting, their expressions eager for your report. "I've seen Malakar's forces and the barriers he's set up," you begin, detailing everything you've observed. "The palace is heavily guarded, and Queen Seraphina is being held in a fortified tower. We'll need a strategic approach to penetrate those defenses." Kael listens intently, nodding as you speak. "Malakar's dark magic is formidable, but it's not insurmountable. If we can disrupt his barrier and create a diversion, we might be able to rescue the queen and weaken his hold on the kingdom." Fenn chimes in, "I can help create the diversion. My agility and speed can draw the guards away from the main entrance, giving you and Kael a chance to breach the barrier." You look at your companions, their determination and trust filling you with confidence. "We'll need to time this perfectly. Kael, can you focus your magic on weakening the barrier while Fenn creates the diversion?" Kael nods, his eyes steady. "I'll channel all my energy into breaking Malakar's barrier. It will take everything I've got, but with you and Fenn by my side, I believe we can do it." The plan is set. You, Kael, and Fenn prepare yourselves for the upcoming battle, each of you knowing that the fate of Eldoria hangs in the balance. What do you do next?"]

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forest. She is ethereal and beautiful, her hair flowing like a river of gold, eyes shimmering with a familiar light. The resemblance is striking, and it is clear that this is the woman from Kael's past.

"Kael," the woman calls out, her voice soft but carrying through the air. She takes a tentative step forward, her expression one of longing and uncertainty.

Kael's breath catches in his throat. "Elara, is it really you?"

Without waiting for an answer, Kael moves towards her, his steps quickening as he nears her. You and Fenn exchange a glance, understanding the gravity of the moment but also aware of the urgency of your mission.

As Kael reaches her, Elara lifts a hand to touch his face, her eyes filling with tears. "Kael, I've missed you so much," she says, her voice breaking.

Kael's eyes are filled with tears as he gently takes her hand. "Elara, I thought I had lost you forever. How... how are you here?"

Elara's gaze softens, and she explains, "When Malakar captured me, he bound my magic to his. He has kept me under his control, using my power to strengthen his own. But the restoration of balance in the Whispering Woods weakened his hold over me. I managed to escape, but I knew I had to find you."

Kael pulls her into an embrace, his relief palpable. "You're safe now, Elara. We can face Malakar together."

Elara nods, but her expression turns serious. "Kael, Malakar's power is immense. He has grown stronger over the years, and his hold over Eldoria is tightening. We must be careful."

You step forward, drawing their attention. "Elara, we were just about to execute a plan to breach Malakar's defenses and rescue Queen Seraphina. Your knowledge of his magic and his forces could be invaluable."

Elara looks at you, her eyes filled with determination. "I will help in any way I can. Together, we can defeat Malakar and free Eldoria from his tyranny."

Fenn barks in agreement, his eyes shining with renewed hope. "With Elara's help, we stand a better chance. Let's do this."

You gather around to refine your plan with Elara's insights. She explains the intricacies of Malakar's barrier and offers suggestions on how to disrupt it. With her guidance, you adjust your strategy to maximize your chances of success.

"We will need to synchronize our efforts," Elara says. "While Kael focuses on weakening the barrier, I can use my magic to create a rift in Malakar's defenses. El, you and Fenn will need to be ready to act quickly once the barrier is down."

Kael nods, his eyes never leaving Elara's. "We'll do this together, Elara. For Eldoria, and for us."

With the plan set and your spirits bolstered by the unexpected reunion, you move into position. The time has come to confront Malakar and restore peace to the Kingdom of Eldoria.

What do you do next?]], "status":

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tower, Fenn at your heels.\n\nReaching the tower, you find Queen Seraphina in a magically sealed room. Her regal presence is undiminished, and she looks at you with a mixture of hope and relief.\n\n"Thank you for coming," she says. "We must hurry. Malakar's power grows stronger by the minute."\n\nKael and you work together to break the magical seals, your combined strength and magic finally shattering the bonds that hold her. Queen Seraphina steps out, her eyes filled with gratitude.\n\n"We must confront Malakar," she says, her voice steady. "Together, we can defeat him."\n\nWith Queen Seraphina now free and Elara's fate still uncertain, you prepare for the final confrontation with Malakar. The halls echo with the sounds of battle as you make your way towards the throne room, ready to face the dark sorcerer and end his reign of terror.\n\nWhat do you do next?"]], "status": "finished_successfully", "end_turn": true, "weight": 1.0, "metadata": {"citations": [], "gizmo_id": "g-TzI2BlJPT", "message_type": null, "model_slug": "gpt-4o", "default_model_slug": "gpt-4o", "pad": "AAAAAAAAAAAAAAAAAAAAAAAAAAAA", "parent_id": "aaa23787-5160-45ca-a3a0-d90293a46757", "finish_details": {"type": "stop", "stop_tokens": [200002]}, "is_complete": true, "request_id": "88f387f8eacf5230-MXP", "timestamp_": "absolute"}, "recipient": "all", "channel": null}, "parent": "aaa23787-5160-45ca-a3a0-d90293a46757", "children": [{"id": "aaa2c863-b276-4ffa-a5c9-d6804c2f1cde"}], "aaa2c863-b276-4ffa-a5c9-d6804c2f1cde": {"id": "aaa2c863-b276-4ffa-a5c9-d6804c2f1cde", "message": {"id": "aaa2c863-b276-4ffa-a5c9-d6804c2f1cde", "author": {"role": "user", "name": null, "metadata": {}}, "create_time": 1717625915.625148, "update_time": null, "content": {"content_type": "text", "parts": ["Kael runs forward eager to support his lost love he finds her..."]}, "status": "finished_successfully", "end_turn": null, "weight": 1.0, "metadata": {"request_id": "88f38a125d170e1b-MXP", "message_source": null, "timestamp_": "absolute", "message_type": null}, "recipient": "all", "channel": null}, "parent": "4ff52af4-6186-4dce-bb04-3da27f69016e", "children": [{"id": "207e5ed0-8a2c-4527-ad8c-a95293e6d515"}], "207e5ed0-8a2c-4527-ad8c-a95293e6d515": {"id": "207e5ed0-8a2c-4527-ad8c-a95293e6d515", "message": {"id": "207e5ed0-8a2c-4527-ad8c-a95293e6d515", "author": {"role": "assistant", "name": null, "metadata": {}}, "create_time": 1717625941.483044, "update_time": null, "content": {"content_type": "text", "parts": ["As you and Queen Seraphina make your way towards the throne room, Kael runs ahead, eager to support Elara in her battle against the dark mages. His heart races with a mix of hope and fear, desperate to ensure her safety.\n\nYou and the queen follow closely behind, the sounds of magic and battle growing louder with each step. The palace halls are a maze of flickering shadows and bursts of light, the clash of spells echoing through the air.\n\nKael rounds a corner and finds Elara locked in fierce combat with the dark mages. Her magic is powerful and precise, but the mages are relentless, their dark energy swirling around them like a storm. Kael doesn't hesitate\u2014he charges forward, his own magic flaring as he joins the fight.\n\n"Elara, I'm here!" he shouts, his voice cutting through the chaos.\n\nElara glances at him, her eyes lighting up with relief and determination. "Kael, together we can defeat them!"\n\nYou and Queen Seraphina arrive just in time to see Kael and Elara fighting side by side, their combined magic a force to be reckoned with. The dark mages, overwhelmed by the strength of their assault, begin to falter.\n\nWith a final, powerful surge, Kael and Elara unleash a wave of energy that knocks the dark mages back, breaking their formation. The mages collapse to the ground, their dark magic dissipating into the air.\n\nKael turns to Elara, his eyes filled with concern. "Are you alright?"\n\nElara nods, her breathing heavy but her expression

resolute. "Yes, but we must hurry. Malakar will know that his barrier is down. We need to confront him before he can strengthen his defenses."

Queen Seraphina steps forward, her presence commanding. "Malakar's throne room is just ahead. He will not escape justice."

With renewed determination, the four of you press on towards the throne room. The door to Malakar's sanctum looms before you, heavy and imposing. You gather your strength, knowing that the final confrontation is at hand.

Kael looks at you, his eyes steady. "El, we need to be ready for anything. Malakar is cunning and powerful."

You nod, gripping your sword tightly. "We'll face him together, and we'll end this."

Queen Seraphina raises her hand, and the doors to the throne room slowly creak open. Inside, the room is dark and oppressive, the air thick with malevolent energy. At the far end of the room, seated on a grand, ornate throne, is Malakar. His eyes glow with dark magic, and a sinister smile spreads across his face as he sees you.

"Ah, the heroes arrive," Malakar sneers, his voice dripping with contempt. "You've been quite troublesome, but this ends now."

Elara steps forward, her magic crackling around her. "Your reign of darkness ends today, Malakar. We will not allow you to harm this kingdom any longer."

Malakar rises from his throne, his dark magic swirling around him like a cloak. "You are fools to challenge me. I will crush you and take your power for my own."

The room erupts into chaos as the battle begins. Spells clash in mid-air, the force of the magic shaking the very foundations of the palace. Kael, Elara, Queen Seraphina, and you fight with everything you have, your combined strength pushing against Malakar's dark power.

As the battle rages, you notice Malakar's magic beginning to waver, his confidence faltering. With one final, desperate push, you and your companions unleash a surge of energy that breaks through his defenses. Malakar is thrown back, crashing against his throne with a look of shock and fury.

"Impossible!" he roars, his voice echoing through the chamber.

Queen Seraphina steps forward, her eyes blazing with righteous fury. "Your tyranny ends here, Malakar. Eldoria will be free."

With a final, powerful spell, Queen Seraphina strikes Malakar down. The dark sorcerer collapses, his magic dissipating into the air. The oppressive energy that filled the throne room begins to lift, replaced by a sense of peace and relief.

Kael and Elara embrace, their joy and relief palpable. You and Fenn exchange a look of triumph, knowing that the kingdom is finally free from Malakar's dark influence.

Queen Seraphina turns to you, her expression filled with gratitude. "Thank you, El. Your bravery and determination have saved Eldoria. You will always be honored as a hero of this land."

As the light of victory fills the throne room, you can't help but feel a sense of fulfillment and pride. The journey has been long and arduous, but together, you have overcome the darkness and restored balance to the kingdom.

What do you do next?"]], "status": "finished_successfully", "end_turn": true, "weight": 1.0, "metadata": {"citations": [], "gizmo_id": "g-TzI2BlJPT", "message_type": null, "model_slug": "gpt-4o", "default_model_slug": "gpt-4o", "pad": "AAAAAAAAAAAAAAAAAAAA", "parent_id": "aaa2c863-b276-4ffa-a5c9-d6804c2f1cde", "finish_details": {"type": "stop", "stop_tokens": [200002]}, "is_complete": true, "request_id": "88f38a125d170e1b-MXP", "timestamp": "absolute", "recipient": "all", "channel": null, "parent": "aaa2c863-b276-4ffa-a5c9-d6804c2f1cde", "children": ["aaa211bc-0807-4af8-8554-663e4b5aa383"], "aaa211bc-0807-4af8-8554-663e4b5aa383": {"id": "aaa211bc-0807-4af8-8554-663e4b5aa383", "message": {"id": "aaa211bc-0807-4af8-8554-663e4b5aa383", "author": {"role": "user", "name": null, "metadata": {}},

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there are more adventures out there waiting for you, but first, you want to ensure
that Kael and Elara have their happy ending.\n\nThe days following Malakar's
defeat are filled with celebrations and joyous reunions throughout Eldoria. The people
rejoice, their spirits lifted by the return of peace and the restoration of their
beloved kingdom. The palace, once shrouded in darkness, now shines with a new light,
symbolizing the hope and renewal that have come to the land.\n\nKael and Elara spend
their days helping to heal the kingdom, using their combined magic to repair the
damage done by Malakar's reign. Their bond grows stronger with each passing day,
their love rekindled and their future bright.\n\nOne evening, as the sun sets over the
rejuvenated land, Kael and Elara invite you and Fenn to join them by the lake in the
Whispering Woods\u2014the very place where the Crystal of Eternity brought about the
balance. The air is filled with the sweet scent of blooming flowers, and the water
reflects the golden hues of the setting sun.\n\nKael turns to you, his eyes filled
with gratitude. 'El, we owe you so much. Without your courage and determination,
none of this would have been possible. Thank you for believing in us and for fighting
by our side.'\n\nElara nods, her smile radiant. 'Your actions have brought
us not only victory but also a chance at a future together. You will always be a part
of our story.'\n\nYou smile, feeling a deep sense of satisfaction. 'It was
an honor to fight alongside you both. Your love and strength inspired me every step of
the way. I'm glad to see you both so happy.'\n\nFenn barks happily, wagging
his tail as he enjoys the peaceful moment.\n\nKael and Elara exchange a loving glance
before turning back to you. 'We plan to rebuild and restore the kingdom,'\n\nElara says. 'And when the time comes, we hope to start a family and create a
legacy of peace and prosperity.'\n\nKael nods in agreement. 'But know that
you will always have a place here, El. Whenever you need rest or a home, Eldoria will
welcome you with open arms.'\n\nYou feel a sense of warmth and belonging, knowing
that you have made lifelong friends in Kael and Elara. 'Thank you. I may go on
more adventures, but it's good to know I have a place to return to.'\n\nAs
the night falls and the stars begin to twinkle in the sky, you bid farewell to Kael
and Elara, giving them space to enjoy their well-deserved happiness. With Fenn by your
side, you leave the peaceful lake, your heart light with the knowledge that you have
made a lasting difference.\n\nThe world is vast, and there are countless adventures
waiting for you. But for now, you take comfort in knowing that Kael and Elara have
found their happily ever after, and Eldoria is once again a place of light and
hope.\n\nWith a final glance at the serene landscape, you set off towards new horizons,
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figure with a commanding presence. His eyes, once said to be kind and warm, now burn with a cold intensity.

"Welcome, El," Aethor says, his voice smooth but with an undercurrent of menace. "I have heard of your deeds. What brings you to Nareth?"

You meet his gaze steadily. "I have come to understand what has happened here, to see if there is a way to restore peace to your kingdom."

Aethor's lips curl into a smile, but it does not reach his eyes. "You are welcome to try, but be warned: things in Nareth are not always as they seem."

As you navigate the treacherous waters of court politics, you encounter several key figures:

- Lady Seraphine**: Aethor's former confidante, now a leader of the resistance. She claims to know the truth about Aethor's transformation but harbors her own secrets.
- Captain Draven**: The captain of the palace guard, fiercely loyal to Aethor. His loyalty seems unshakable, but there are rumors of his past that suggest a more complex allegiance.
- Isolde**: A mysterious sorceress who lives on the outskirts of the city. She was once close to Aethor and may hold the key to understanding the dark magic that changed him.

Each character you meet has their own motives and secrets, making it difficult to know whom to trust. As you delve deeper into the mystery, you uncover a tale of betrayal, dark magic, and a desperate quest for redemption.

What do you do next?"

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Finally, you reach the edge of the city and follow a narrow path leading into the dense forest."], "early": true}, "status": "finished_successfully", "end_turn": null, "weight": 1.0, "metadata": {"request_id": "88f39ca38f120e5d-MXP", "message_source": null, "timestamp": "absolute", "message_type": null}, "recipient": "all", "channel": null}, "parent": "da9644e5-eba3-4401-8971-7151579197ea", "children": ["e8e0c6eb-0650-46ed-b685-2cd9c80028e6"]}, {"id": "e8e0c6eb-0650-46ed-b685-2cd9c80028e6", "message": {"id": "e8e0c6eb-0650-46ed-b685-2cd9c80028e6", "author": {"role": "assistant", "name": null, "metadata": {}}, "create_time": 1717626700.488493, "update_time": null, "content": {"content_type": "text", "parts": ["After a long walk, you arrive at a small, secluded cottage. The air is thick with the scent of herbs and the faint hum of magic. You knock on the door, and it creaks open slowly, revealing Isolde. 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come. You step inside, Fenn close by your side. The cottage is filled with shelves of ancient tomes and jars of rare ingredients, and a cauldron bubbles quietly in the corner. Isolde, you begin, I need to know what happened to Lord Aethor. The people of Nareth say he was once a kind and wise leader, but now he rules with an iron fist. What changed him? Isolde's eyes darken, and she gestures for you to sit. Aethor and I were once close, as you have heard. He was a man of great ambition but also great compassion. He sought to protect his kingdom from the darkness that threatened it. But in his quest for power, he made a grave mistake. She pauses, her expression pained. Aethor found an ancient artifact, a dark crystal said to grant immense power. He believed he could use it to protect Nareth, but the crystal was cursed. It twisted his mind, filling him with paranoia and anger. He became consumed by its dark magic. You listen intently, the pieces of the puzzle starting to come together. Why didn't you stop him? Isolde's gaze drops, her voice tinged with regret. I tried, but the crystal's influence was too strong. He pushed me away, accusing me of betrayal. When he fully succumbed to the crystal's power, I fled, knowing that staying would only endanger my life and the lives of those I cared about. Fenn growls softly, sensing the sorrow in Isolde's voice. Is there a way to break the crystal's hold on him? you ask, determination in your eyes. Isolde nods slowly. There is a way, but it is not without risk. The crystal must be destroyed, but doing so will unleash its dark magic. It could consume anyone nearby. The person who attempts this must have a pure heart and strong will. You take a deep breath, considering the gravity of her words. I'll do it. I'll destroy the crystal and free Aethor from its influence. Isolde looks at you with a mixture of admiration and concern. You are brave, El. But be careful. The crystal's magic is powerful and unpredictable. You will need allies who can help you in this quest. You nod, determination set in your eyes. Thank you, Isolde. I will find a way. As you leave the cottage, you feel a renewed sense of purpose. The path ahead is fraught with danger, but with the knowledge you've gained and the allies you will gather, you are ready to face whatever comes next. Your next step is to seek out Lady Seraphine, Aethor's former confidante and now a leader of the resistance. She may have more information and can help you gather the support needed to confront Lord Aethor and destroy the dark crystal. What do you do next?"

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for the challenges ahead. Fenn stays close by your side, his presence a comforting reminder of your purpose and determination. \n\nAs you prepare to leave, Seraphine places a hand on your shoulder. "Thank you, El. With your help, we can free Nareth from this darkness."\n\nYou nod, your eyes filled with determination. "Let's bring Aethor to the lake and end this."\n\nWith the plan in motion, you set out towards the palace, ready to face the dangers that await and to bring Lord Aethor to the Crystal of Eternity, hoping to cleanse his soul and restore peace to Nareth. \n\nWhat do you do next?"]}, "status": "finished_successfully", "end_turn": true, "weight": 1.0, "metadata": {"citations": [], "gizmo_id": "g-TzI2BlJPT", "finish_details": {"type": "stop", "stop_tokens": [200002]}, "is_complete": true, "message_type": null, "model_slug": "gpt-4o", "default_model_slug": "gpt-4o", "pad": "AAAAAAAAAAAAAAAA", "parent_id": "aaa273d3-0da1-4f42-9e0b-fb2fbee01763", "request_id": "88f39f5449460e0a-MXP", "timestamp_": "absolute", "recipient": "all", "channel": null, "parent": "aaa273d3-0da1-4f42-9e0b-fb2fbee01763", "children": ["aaa20bc7-e18f-48c3-92f5-df94c3a8ba12"]}, "aaa20bc7-e18f-48c3-92f5-df94c3a8ba12": {"id": "aaa20bc7-e18f-48c3-92f5-df94c3a8ba12", "message": {"id": "aaa20bc7-e18f-48c3-92f5-df94c3a8ba12", "author": {"role": "user", "name": null, "metadata": {}}, "create_time": 1717626893.351068, "update_time": null, "content": {"content_type": "text", "parts": ["I interview the last character and then figure out whose lying. Somebody has to be duplicitous and lie and deceive"]}, "status": "finished_successfully", "end_turn": null, "weight": 1.0, "metadata": {"request_id": "88f3a1f1189ebaeb-MXP", "message_source": null, "timestamp_": "absolute", "message_type": null}, "recipient": "all", "channel": null, "parent": "e2e51ea9-5889-4096-9d0d-baa33063bd87", "children": ["40182f76-5570-4097-8b6f-b98ddf9d5cac"]}, "40182f76-5570-4097-8b6f-b98ddf9d5cac": {"id": "40182f76-5570-4097-8b6f-b98ddf9d5cac", "message": {"id": "40182f76-5570-4097-8b6f-b98ddf9d5cac", "author": {"role": "assistant", "name": null, "metadata": {}}, "create_time": 1717626930.797026, "update_time": null, "content": {"content_type": "text", "parts": ["With the plan in motion and a clearer idea of how to confront Lord Aethor, you decide to seek out Captain Draven. His loyalty to Aethor has been unwavering, but you sense that there is more to his story. If there is deceit and deception within this web, Draven might hold the key to uncovering it.\n\nYou arrange a meeting with Captain Draven under the pretense of discussing the city's defenses. The meeting is set in a quiet, dimly lit room within the palace, away from prying eyes and ears. Draven arrives promptly, his demeanor stern and professional.\n\n"Captain Draven," you begin, "thank you for meeting with me. As you know, the situation in Nareth is dire. I wanted to understand more about Lord Aethor's recent actions and the state of our defenses."\n\nDraven nods, his expression unreadable. "Lord Aethor is a great leader. He has made difficult decisions to protect this kingdom. What exactly do you wish to know?"\n\nYou lean forward, studying his face for any sign of deceit. "I've heard many conflicting stories. Some say that Lord Aethor has been influenced by dark magic. Others claim he is simply doing what is necessary. What do you believe, Captain?"\n\nDraven's eyes flicker for a moment, a hint of hesitation. "I believe Lord Aethor is doing what he must to ensure the safety of Nareth. The threats we face are not easily overcome."\n\nYou press on, sensing a crack in his facade. "And what of the dark crystal? Is it true that its influence has changed him?"\n\nDraven's jaw tightens, and he avoids your gaze. "The crystal... it is a source of great power. It has indeed affected Lord

Aethor, but he remains committed to the protection of this kingdom."\n\nYou narrow your eyes, sensing that Draven is holding back. "Captain, the people of Nareth are suffering. They speak of fear and oppression. Is this truly the way to protect them?"\n\nDraven finally looks at you, his expression conflicted. "Lord Aethor believes that the ends justify the means. But I... I am not so sure anymore. There are times when I wonder if we have lost our way."\n\nThis admission surprises you, and you press further. "Captain Draven, if you have doubts, why do you continue to support him?"\n\nDraven sighs, his shoulders sagging slightly. "Because I gave my word. My loyalty to Lord Aethor has been unwavering, but I fear that his judgment is clouded. There is something else you should know. Lady Seraphine... she has been working closely with a faction that seeks to overthrow Lord Aethor. She claims to want to restore peace, but her methods are... questionable."\n\nThis revelation shocks you. "Are you saying Lady Seraphine is not to be trusted?"\n\nDraven nods slowly. "She has made alliances with those who have their own agendas. I believe she seeks power for herself, under the guise of resistance."\n\nWith this new information, you realize that the web of deceit is more tangled than you initially thought. Both Captain Draven and Lady Seraphine may have their own ulterior motives.\n\nYou thank Captain Draven for his honesty and leave the room, your mind racing with possibilities. It seems that neither Draven nor Seraphine can be fully trusted, and their true intentions remain unclear.\n\nYou decide to gather both Draven and Seraphine in the same room, hoping to uncover the truth through their interactions. Arranging a meeting in the palace's great hall, you prepare to confront them both.\n\nAs they arrive, you address them directly. "Captain Draven, Lady Seraphine, it has come to my attention that there may be more to this situation than meets the eye. I believe that the only way to save Nareth is to be completely honest with each other."\n\nDraven and Seraphine exchange wary glances, both aware that the time for deceit is over.\n\n"Lady Seraphine," you begin, "Captain Draven has informed me of your alliances and the methods you have employed. What do you have to say for yourself?"\n\nSeraphine's eyes flash with anger. "I have done what is necessary to oppose Aethor's tyranny. If that means making difficult choices, so be it. But I assure you, my ultimate goal is to free Nareth from his oppressive rule."\n\nYou turn to Draven. "And you, Captain Draven, have supported Lord Aethor despite your doubts. Why continue to follow a leader who may be compromised?"\n\nDraven's expression hardens. "Because loyalty is not easily cast aside. But I see now that blind loyalty has done more harm than good. I am willing to do what is right for Nareth, even if it means opposing Lord Aethor."\n\nThe tension in the room is palpable. You take a deep breath, knowing that this is the moment of truth. "The Crystal of Eternity has the power to cleanse Lord Aethor and restore balance. We need to bring him to the lake and destroy the dark crystal. Will you both stand with me in this endeavor?"\n\nSeraphine and Draven look at each other, then back at you. After a moment, they both nod, their resolve clear.\n\n"Yes," Seraphine says. "For the good of Nareth."\n\n"I will stand with you," Draven adds. "Let us end this madness."\n\nWith the truth finally out in the open, you, Seraphine, and Draven form a united front. Together, you set out to confront Lord Aethor, ready to bring him to the lake and cleanse him of the dark crystal's influence.\n\nAs you approach the throne room for the final confrontation, you know that the path ahead is fraught with danger and uncertainty. But with your allies by your side and the Crystal of

Eternity's power, you are prepared to face whatever comes next.

What do you do next?"

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echoing through the chamber. "You return with the resistance leader and my loyal captain. What is the meaning of this?"

You step forward, your voice steady and unwavering. "Lord Aethor, we have come to end the darkness that has consumed you and Nareth. The dark crystal that you possess has twisted your mind and heart. We intend to bring you to the lake in the Whispering Woods and cleanse you of its influence."

Aethor's expression shifts from curiosity to anger. "You dare challenge me in my own palace? You, who know nothing of the sacrifices I have made for this kingdom?"

Seraphine steps forward, her voice calm but firm. "This is not a challenge, Aethor. It is an intervention. We seek to save you and Nareth from the curse of the dark crystal."

Draven follows suit, his eyes filled with a mixture of loyalty and determination. "My lord, I have stood by you through all your trials. But now I see that this path leads only to destruction. Please, let us help you."

Aethor's eyes narrow, his grip on the armrests of his throne tightening. "You have all betrayed me," he hisses. "But no matter. I will deal with you as I have dealt with all who oppose me."

As Aethor raises his hand to summon his dark magic, you quickly cast a protective barrier around yourself, Seraphine, and Draven. The air crackles with energy as Aethor's spell clashes with your shield.

"We need to get him to the lake," you shout over the din of the battle. "Seraphine, Draven, hold him off while I prepare the teleportation spell."

Seraphine and Draven nod, their resolve unshaken. They move to engage Aethor, using their combined strength and skill to keep him occupied. As they battle, you concentrate on weaving the teleportation spell, drawing upon the magic of the binding circle and the power of the Crystal of Eternity.

With a final surge of energy, the spell completes, and a portal opens before you. "Now!"

you cry out, and with a coordinated effort, Seraphine and Draven push Aethor through the portal, following closely behind.

You step through the portal last, the scene shifting from the throne room to the serene lake in the Whispering Woods. The air is filled with the hum of magic, and the Crystal of Eternity glows brightly beneath the water's surface.

Aethor, disoriented from the sudden teleportation, stumbles to his feet. "What have you done?" he demands, his voice laced with fury.

"This is the end of the dark crystal's influence," you say, your voice echoing with determination. "We will cleanse you, Aethor, and restore peace to Nareth."

As you and your companions surround Aethor, the power of the Crystal of Eternity begins to flow through the lake, its cleansing light enveloping Aethor. He struggles, but the combined strength of Seraphine, Draven, and yourself holds him in place.

The dark crystal within Aethor pulses with a malevolent energy, but the light of the Crystal of Eternity grows stronger, gradually overwhelming the darkness. Aethor's eyes widen in fear and pain as the two forces clash within him.

Finally, with a blinding flash of light, the dark crystal shatters, its fragments dissolving into the air. Aethor collapses to his knees, gasping for breath, his eyes clearing as the darkness leaves him.

"Thank you," he whispers, his voice hoarse and broken. "I... I am free."

You, Seraphine, and Draven step back, the tension finally easing. The spell of truth has ensured that your intentions remained pure, and now, the darkness that plagued Nareth is gone.

Aethor looks up at you, gratitude and remorse in his eyes. "I am so sorry for all the pain I caused. Please, help me make amends."

Seraphine steps forward, offering her hand. "We will, Aethor. Together, we can rebuild Nareth and restore what was lost."

Draven nods in agreement, his loyalty now directed towards the restoration of the kingdom.

As you

stand by the lake, the sun setting in the distance, you feel a deep sense of accomplishment and peace. The journey was fraught with danger and deceit, but together, you and your companions have prevailed.\n\nWith the darkness lifted and a new dawn on the horizon, you know that Nareth will thrive once more. And as you prepare for your next adventure, you carry with you the lessons learned and the bonds forged in this quest for truth and redemption.\n\nWhat do you do next?"]], "status":

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["You realize that in the rush of events, you haven't seen Isolde since your
initial conversation with her. Her knowledge and power were crucial in understanding
the dark crystal, and she deserves to know the outcome. Additionally, her skills could
be invaluable in the rebuilding efforts for Nareth.\n\nYou make your way back through
the Whispering Woods to Isolde's secluded cottage, accompanied by Fenn, Aethor,
Seraphine, and Draven. The journey is filled with a sense of renewed hope and
purpose.\n\nUpon reaching the cottage, you find Isolde tending to her garden, her
demeanor calm and serene. She looks up as you approach, a faint smile appearing on her
face when she sees you.\n\n"El," she greets you warmly, her eyes scanning
the group and landing on Aethor. Her smile fades, replaced by a look of concern and
curiosity. "I see you've brought company."\n\nYou step forward,
addressing her with respect. "Isolde, we have succeeded in destroying the dark
crystal that corrupted Aethor. He is free from its influence, and we are here to thank
you for your guidance. We also need your help in rebuilding Nareth and ensuring that
such darkness never returns."\n\nIsolde's eyes soften as she looks at Aethor,
who steps forward, his expression filled with remorse. "Isolde, I owe you an
apology. I was blind to the harm I caused and the warnings you gave me. I am deeply
sorry."\n\nIsolde studies him for a moment before nodding slowly. "The
crystal's power was strong, but I am glad to see you free from its grasp. We must
now focus on healing the kingdom and preventing such darkness from taking hold
again."\n\nSeraphine steps forward, her voice filled with resolve. "Isolde,
your knowledge of magic and your experience with the dark crystal make you invaluable.
Will you help us restore Nareth and protect it from future
threats?"\n\nIsolde's gaze shifts to you, her expression thoughtful.

“El, you have brought together those who were once divided. If you believe that I can help, then I will do so.”

You nod, feeling a deep sense of gratitude.

“Your help will be crucial, Isolde. Together, we can rebuild and ensure a brighter future for Nareth.”

With Isolde now part of the team, you all return to the capital city, ready to begin the long process of healing and reconstruction. The people of Nareth, seeing their leaders united and free from the dark influence, begin to regain hope and trust.

Over the following weeks, you work tirelessly with Isolde, Aethor, Seraphine, and Draven to restore the kingdom. The palace is cleansed of dark magic, the lands are revitalized, and new alliances are formed to ensure the kingdom’s protection.

During this time, you grow closer to your companions, learning from their experiences and sharing in their triumphs and challenges. Isolde’s wisdom and magical prowess prove invaluable, guiding you all through the complexities of rebuilding a kingdom.

As the kingdom begins to thrive once more, you feel a sense of fulfillment and peace. But the call of adventure still resonates within you, and you know that there are many more stories to be written and challenges to be faced.

One evening, as you stand on the balcony of the palace, looking out over the restored city, Fenn nudges your leg, his eyes bright with anticipation.

“Ready for the next adventure, El?” he seems to ask.

You smile, feeling the familiar excitement of the unknown. “Always,” Fenn says.

With Nareth on the path to a bright future, you bid farewell to your companions, promising to return and visit. With Fenn by your side, you set off towards new horizons, ready to face whatever challenges and mysteries await.

What do you do next?”}], “status”: “finished_successfully”, “end_turn”: true, “weight”: 1.0, “metadata”: {“citations”: [], “gizmo_id”: “g-TzI2BlJPT”, “message_type”: null, “model_slug”: “gpt-4o”, “default_model_slug”: “gpt-4o”, “pad”: “AAAAAAAAAAAA”, “parent_id”: “aaa2d4d6-2ae4-483e-8148-685b776c69af”, “finish_details”: {“type”: “stop”, “stop_tokens”: [200002]}, “is_complete”: true, “request_id”: “88f3a9175bda4c67-MXP”, “timestamp_”: “absolute”, “recipient”: “all”, “channel”: null}, “parent”: “aaa2d4d6-2ae4-483e-8148-685b776c69af”, “children”: [“aaa2ff6a-6213-438c-bb1f-191112aeld3a”]}, “aaa2ff6a-6213-438c-bb1f-191112aeld3a”: {“id”: “aaa2ff6a-6213-438c-bb1f-191112aeld3a”, “message”: {“id”: “aaa2ff6a-6213-438c-bb1f-191112aeld3a”, “author”: {“role”: “user”, “name”: null, “metadata”: {}}, “create_time”: 1717627321.820052, “update_time”: null, “content”: {“content_type”: “text”, “parts”: [“I need adventure but also theres more to why my mother bound my magic then stated in my back story. Its not usual for someone so young to weild the power I weild. also my amulet is mysterious and powerful, where dd i get it? ”]}}, “status”: “finished_successfully”, “end_turn”: null, “weight”: 1.0, “metadata”: {“request_id”: “88f3ac66ffe1375f-MXP”, “message_source”: null, “timestamp_”: “absolute”, “message_type”: null}, “recipient”: “all”, “channel”: null}, “parent”: “2c8db649-4ebb-4817-9599-e7cd4eb6fae3”, “children”: [“8bfb4f47-a331-416f-8dcc-d1b9461ace30”]}, “8bfb4f47-a331-416f-8dcc-d1b9461ace30”: {“id”: “8bfb4f47-a331-416f-8dcc-d1b9461ace30”, “message”: {“id”: “8bfb4f47-a331-416f-8dcc-d1b9461ace30”, “author”: {“role”: “assistant”, “name”: null, “metadata”: {}}, “create_time”: 1717627354.923918, “update_time”: null, “content”: {“content_type”: “text”, “parts”: [“As you leave Nareth, the journey ahead filled with possibilities, thoughts of your past and the mysteries surrounding your magic and amulet resurface. Your mother’s decision to bind your magic and the origins of your amulet remain enigmas you are determined to unravel. It becomes clear that your next adventure must be a journey of self-discovery, to learn the true nature of your powers and the significance of the amulet you

carry.

Setting out with Fenn by your side, you decide to visit the village where you grew up, hoping to find answers in the place where it all began. The journey takes you through familiar landscapes, each step bringing a mix of nostalgia and anticipation.

Upon arriving at your childhood village, you head straight to the house where you once lived. The village elder, an old friend of your mother, greets you warmly but with a hint of surprise.

El, it's been a long time,

the elder says, her eyes twinkling with wisdom. What brings you back?

I need answers,

you reply. About my mother, my magic, and this amulet.

You hold up the amulet, its surface gleaming with a mysterious light.

The elder nods, motioning for you to sit by the hearth. Your mother was a powerful mage, El, and she knew many secrets of the ancient magic. There is much to tell, but I believe it's time you learn the truth.

As the elder begins to speak, you listen intently, uncovering pieces of your past that had been hidden from you:

Your mother, Lyra, was not just any mage. She was a guardian of a powerful, ancient order tasked with protecting the balance of magic in our world. The amulet you carry is known as the Amulet of Aetheris, an artifact of immense power and responsibility. It was entrusted to your family generations ago.

You feel a chill run down your spine as the elder continues. The reason your mother bound your magic, El, was because she sensed a great danger. You see, you possess a rare and extraordinary talent for wielding magic, far beyond what is normal for someone of your age. Your potential was recognized by those who would seek to control or destroy you for their own gain. Binding your magic was her way of protecting you until you were ready to understand and harness it safely.

The elder pauses, her eyes filled with a mixture of sadness and pride. Lyra knew that one day, you would need to learn the full extent of your powers and the responsibilities that come with them. She believed in you, El, and she believed that when the time was right, you would rise to the challenge.

You take a deep breath, processing the weight of the revelations. But where did the amulet come from? And what does it do?

The elder leans closer, her voice lowering to a whisper. The Amulet of Aetheris was forged by the ancient order to channel and amplify the natural magic of its bearer. It has the power to unlock hidden potentials and protect against dark forces. Your mother received it from her mentor, who entrusted it to her as part of her duty. When she realized the extent of your abilities, she passed it on to you, knowing that it would guide and protect you on your journey.

As the elder's words sink in, you feel a renewed sense of purpose. The amulet's power is not just a gift but a responsibility, one that you are now ready to embrace.

Determined to learn more, you ask the elder if there are any records or artifacts from your mother's time that could provide further insights. She nods and leads you to a hidden chamber beneath the house, where ancient scrolls and relics are stored.

Among the dusty tomes and artifacts, you find a journal written by your mother. Its pages contain detailed accounts of her role as a guardian, her encounters with powerful entities, and her efforts to protect you from those who would exploit your magic.

One entry stands out, describing a distant land known as the Realm of Aetheris, the origin of the amulet and the ancient order. Your mother's words resonate with a sense of urgency and hope: El, if you are reading this, it means you are ready. Seek the Realm of Aetheris. There, you will find the answers you seek and the allies you need to fulfill your destiny.

With the journal in hand and a newfound determination, you prepare to set off for the Realm of Aetheris. Fenn, ever loyal and ready for adventure, stands by your side, his eyes reflecting your

resolve.\n\nYou thank the elder for her guidance and bid farewell to your childhood village, setting your sights on the unknown lands ahead. The journey to the Realm of Aetheris will be long and perilous, but you are ready to face whatever challenges await.\n\nWhat do you do next?"]}, "status": "finished_successfully", "end_turn": true, "weight": 1.0, "metadata": {"citations": [], "gizmo_id": "g-TzI2BlJPT", "message_type": null, "model_slug": "gpt-4o", "default_model_slug": "gpt-4o", "pad": "AAAAAAAAAAAAAAAAAAAA", "parent_id": "aaa2ff6a-6213-438c-bb1f-191112aeld3a", "finish_details": {"type": "stop", "stop_tokens": [200002]}, "is_complete": true, "request_id": "88f3ac66ffe1375f-MXP", "timestamp_": "absolute", "recipient": "all", "channel": null}, "parent": "aaa2ff6a-6213-438c-bb1f-191112aeld3a", "children": []}, "moderation_results": [], "current_node": "8bfb4f47-a331-416f-8dcc-d1b9461ace30", "plugin_ids": null, "conversation_id": "420d1b58-6626-450d-bc88-8408ef6f20ee", "conversation_template_id": "g-TzI2BlJPT", "gizmo_id": "g-TzI2BlJPT", "is_archived": false, "safe_urls": [], "default_model_slug": "gpt-4o", "conversation_origin": null, "voice": null, "async_status": null, "id": "420d1b58-6626-450d-bc88-8408ef6f20ee", {"title": "Sleep Inducing Query", "create_time": 1717449503.207481, "update_time": 1717449511.679682, "mapping": {"b850eb75-8592-4671-b58d-5cf1b2031521": {"id": "b850eb75-8592-4671-b58d-5cf1b2031521", "message": {"id": "b850eb75-8592-4671-b58d-5cf1b2031521", "author": {"role": "system", "name": null, "metadata": {}}, "create_time": null, "update_time": null, "content": {"content_type": "text", "parts": [""]}, "status": "finished_successfully", "end_turn": true, "weight": 0.0, "metadata": {"is_visually_hidden_from_conversation": true}, "recipient": "all", "channel": null}, "parent": "aaal36a2-3ea4-4acf-bfe4-ceab869a94bf", "children": [{"aa2cfc0-a6b3-49de-9279-1423a18214f0": {"id": "aaal36a2-3ea4-4acf-bfe4-ceab869a94bf", "message": null, "parent": null, "children": [{"b850eb75-8592-4671-b58d-5cf1b2031521": {"id": "aa2cfc0-a6b3-49de-9279-1423a18214f0", "message": {"id": "aa2cfc0-a6b3-49de-9279-1423a18214f0", "author": {"role": "user", "name": null, "metadata": {}}, "create_time": 1717449503.208606, "update_time": null, "content": {"content_type": "text", "parts": ["soporific meaning?"]}, "status": "finished_successfully", "end_turn": null, "weight": 1.0, "metadata": {"request_id": "88e2b7210db259ef-MXP", "message_source": null, "timestamp_": "absolute", "message_type": null}, "recipient": "all", "channel": null}, "parent": "b850eb75-8592-4671-b58d-5cf1b2031521", "children": [{"1903fe5f-63c1-4a2c-a5c0-b04c34f0c070": {"id": "fe2b9e9d-0b43-4369-96d2-1cb411d062bb"}, {"1903fe5f-63c1-4a2c-a5c0-b04c34f0c070": {"id": "1903fe5f-63c1-4a2c-a5c0-b04c34f0c070", "message": {"id": "1903fe5f-63c1-4a2c-a5c0-b04c34f0c070", "author": {"role": "assistant", "name": null, "metadata": {}}, "create_time": 1717449504.903884, "update_time": null, "content": {"content_type": "text", "parts": ["The word "soporific" means causing or tending to cause sleep. It describes something that induces sleepiness or drowsiness."]}}, "status": "finished_successfully", "end_turn": true, "weight": 1.0, "metadata": {"citations": [], "gizmo_id": null, "finish_details": {"type": "stop", "stop_tokens": [100260]}, "is_complete": true, "message_type": null, "model_slug": "gpt-4", "default_model_slug": "gpt-4", "pad": "A", "parent_id": "aaa2cfc0-a6b3-49de-9279-1423a18214f0", "request_id": "88e2b7210db259ef-MXP", "timestamp_": "absolute", "recipient": "all", "channel": null}, "parent": "aaa2cfc0-a6b3-49de-9279-1423a18214f0", "children": [{"fe2b9e9d-0b43-4369-96d2-1cb411d062bb": {"id": "fe2b9e9d-0b43-4369-96d2-1cb411d062bb", "message": {"id": "fe2b9e9d-0b43-4369-96d2-1cb411d062bb", "author": {"role": "assistant", "name": null, "metadata": {}},

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