

# Theatre Science

Williamson and Denton

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Basic title page for now

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(This score is for: tertiaryone)

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## Casting

**M** one musician

**P** one PRIMARY speaker

**S** three SECONDARY roles

**S1** can go up the stairs to the stage; does one Mushroom Verbatim

**S2** always on the floor; does one Mushroom Verbatim

**S3** limited movement; stays in the podium zone

**T** three TERTIARY roles

**T1** limited movement on stage

**T2** limited movement on stage

**T3** stage right; does not move; can remain seated

**Q** one technical person in the booth

**R** one problem solver on the floor

PRIMARY does about 45% of the speaking, while the SECONDARY group shares another 45% and TERTIARY shares 10%.

## Instructions

Please read this section carefully before performing. It is short but the instructions are important.

## Formatting

Boxes have *instructions*, which are to be followed but not spoken.

A solid box has directions that **EVERYONE** should read.

*A dashed box has technical instructions, which are also in italics to set them apart. Everyone can read them, but only Q and R will act on them.*

Square brackets are for instructions for *one person*. Below are two examples.

M: [PLAY A NOTE.]

P: [POINT TO THE TERTIARY GROUP.]

Your lines are in bold. Here is an example of what SECONDARY 1 sees.

S1: (*thoughtfully*): When it is your turn to say something, the line will be bold, like this.

S2: Authority is constructed ...

S3: ... and contextual.

PAUSE 1

S1: Once again, bold lines are the ones you say.

## Pauses

[PAUSE 1] means pause for a count of one, which you might time by saying to yourself, “One one thousand.” [PAUSE 2] means pause for a count of two, which you might time by saying to yourself, “One one thousand, two one thousand.” [PAUSE 5], you can see, would be a long pause where you count up to 5. Don’t rush a pause. The audience will wait for you.

## Pronunciation

Sometimes there will be instructions like *quickly* or *thoughtfully* about how you should say something. Try your best, but don't worry about it.

Words that might be hard to pronounce, like the name *Schoenberg*, will have a phonetic pronunciation beside them in square brackets: [SHERN-berg]. The capital letters indicate emphasis. Give it your best shot, but if you make a mistake, don't worry about it, try again or just move on. If the audience noticed, they will forget quickly .

“Fungi” can be pronounced with a hard or soft *g* and you can say the final *i* so it sounds like “ee” or “aye.” We like to say it with a hard *G* so “fungi” sounds like “funky.”

The John Cage composition 4' 33" should always be pronounced in full as “four minutes and thirty-three seconds.”

## For the musician

We use the piano to help indicate when a new section begins. When you see the instruction PLAY A NOTE, do this: pick any key on the piano (black or white, but not from too high on the

right, because those high sounds won't resonate as long), hit it hard, and keep pressing the key down until you can no longer hear any sound from it, even if performers start talking. When you can't hear the note any more, wait a few more seconds to be sure, then lift your finger up. Then wait for the next scenario.



## The score

### Setup: technical

*R: Setup instructions here. Projector, laptop, screen, etc..*

*Q LX: Lighting setup. GM ↑ 4.*

*Q SOUND: Prepare the thirty-minute introductory background sound with time announcements.*

*Q SOUND: At 1930, play the thirty-minute introductory background. It will end at 2000.*

## **Setup: cast**

Instructions for the cast: where to stand or sit, etc.

**Scenario 0: Introductory film (3 min)**

*R: Show the film. When it is finished, move to an empty black screen.*

*Q SX: Announcement on microphone. “Ladies and gentleman, performing Theatre Science tonight are:*

*\_\_\_\_\_ as the Musician,*

*Thomas Gough as Primary,*

*\_\_\_\_\_ as Secondary One,*

*\_\_\_\_\_ as Secondary Two,*

*\_\_\_\_\_ as Secondary Three,*

*\_\_\_\_\_ as Tertiary One,*

*\_\_\_\_\_ as Tertiary Two,*

*Lucy Brennan as Tertiary Three,*

*William Denton as Q and Ashley Williamson as R.*

*You may follow along with the score provided. Theatre Science is now beginning. Theatre Science has begun.”*

*Q: Hit the gong loudly.*

## Scenario 1: Introduction (4 min)

*Q: LX: Lights up.*

MUSICIAN: Follow the red line until you are behind the piano, then sit on the piano stool.

M: [PLAY A NOTE.]

TERTIARY: Follow the orange line until you come to stand in a square. T1 and T2: you will stand. T3: you may sit or stand, as you choose.

PRIMARY: Follow the purple line. Stop on the square.

SECONDARY: S1: follow the blue line on the right and stop on the X. S2: follow the green line on the left and stop on the X, then face Primary. S3: follow the pink tape and stop on the chevrons, then face Primary.

When you have arrived at your position, wait for the note from the piano to stop.

PRIMARY: When you can no longer hear the piano, wait one more second. Slowly raise your arms over your head, then slowly lower them back to your sides.

SECONDARY and TERTIARY: Copy Primary's arm movements as best you can.

P: [PAUSE 1] Good evening, everyone. This show is about a concept from the field of library and information science. The concept is: *Authority is constructed and contextual.*

R: SLIDE: "*Authority is constructed and contextual.*"

P: This comes from a field of librarianship called *information literacy*.

S1: *Literacy*, on its own, can be defined in a very simple way as being able to read and write. But the world is a lot more

complicated now than it was five thousand years ago. There is writing all around us, on paper or on screens.

S2: There are many different kinds of literacies. The equivalent with numbers is *numeracy*. Being able to read and follow maps is a kind of literacy. There is also *digital literacy* and *media literacy*.

S3: For librarians the key concept is *information literacy*. Here's a definition. It's dense, but we'll break it down.

*R: SLIDE: "Information literacy is the set of integrated abilities encompassing the reflective discovery of information, the understanding of how information is produced and valued, and the use of information in creating new knowledge and participating ethically in communities of learning."*

P: [TURN TO FACE THE SCREEN, THEN READ WHILE THE OTHERS MOVE.]

While PRIMARY reads: SECONDARY 1, follow the blue line until you are standing on the triangle. SECONDARY 2, follow the green line until you are at the green triangle. SECONDARY 3, follow the pink line to the blue line, then stop on the star.

P: "Information literacy is the set of integrated abilities encom-

passing the reflective discovery of information, the understanding of how information is produced and valued, and the use of information in creating new knowledge and participating ethically in communities of learning.” [PAUSE 1] Citation?

**T1: Association of College and Research Libraries.**

*T2: Framework for Information Literacy for Higher Education.*

T3: 2015.

P: In other words, information literacy is the ability to do these with information:

**T1: Find.**

T2: Use.

T3: Understand.

**T1: Evaluate.**

T2: Integrate.

T3: Share.

P: They don’t have to all be done at the same time, or in that order.

S1: Just reading the news requires you to understand, evaluate and integrate, but the news is coming at you all the time, you

don't have to go out and find it.

S2: And it happens in different contexts. Helping a kid with a homework assignment about trees is a lot easier than understanding changes to provincial policy about the Green Belt, but the steps are the same.

S3: A lot depends on people. Information resources don't have to be written down. If they are written, they're written by people. They could be on film or audio. But sometimes they actually *are* people. We turn to others for information or advice or expertise.

P: [MOVE ALONG THE YELLOW LINE TO THE X, THEN TURN TO FACE THE SCREEN] Librarians used to think of information literacy as being very much about using computers to do research. And they had long lists of specific tasks that people should be able to do. But as they taught information literacy to students in colleges and universities, and as the world changed, they found this approach wasn't the best for:

**T1: Find.**

T2: Use.

T3: Understand.

**T1: Evaluate.**

T2: Integrate.



T<sub>3</sub>: Share.

P: So in 2016 a group wrote *Framework for Information Literacy for Higher Education*. It has six “frames.” These frames are “threshold concepts.” That’s when you go from just knowing a set of facts or rules to getting the big picture of how it all fits together, with all the nuances and subtleties. The six frames are these.

S<sub>1</sub>: Authority is constructed and contextual.

S<sub>2</sub>: Information creation as a process.

S<sub>3</sub>: Information has value.

S<sub>1</sub>: Research as inquiry.

S<sub>2</sub>: Scholarship as conversation.

S<sub>3</sub>: Searching as strategic exploration.

P: We’re only going to talk about the first one.

S<sub>1</sub>: Authority—

S<sub>2</sub>: —is constructed—

S<sub>3</sub>: —and contextual.

[PAUSE 1]

P: And to help us, we’re going to use an example. [WALK BACK

ALONG YELLOW TAPE, CROSS TO THE GREEN SQUARE,  
THEN STOP AND FACE CENTRE.]

S<sub>1</sub>: [FOLLOW THE BLUE LINE AND STOP ON THE CHEVRONS.  
FACE THE STAGE.]

S<sub>2</sub>: [FOLLOW THE GREEN LINE TO THE X. CROSS TO  
THE PINK X.]

S<sub>3</sub>: [FOLLOW THE BLUE LINE AND STOP ON THE BLUE  
SQUARE. FACE THE CENTRE.]

**Scenario 2: John Cage (3 min)**

M: [PLAY A NOTE.]

PAUSE 4

P: To help us, we're going to use an example. A person. Someone from the arts. [PAUSE 1.] John Cage.

*R: SLIDE: Photo of John Cage.*

SECONDARY: Face the screen with your bodies.

P: [GESTURE AT THE SECONDARY GROUP TO DIRECT ATTENTION TO THEM.] Biography?

S1: John Milton Cage Jr. was an American composer. He was born in Los Angeles in 1912 and died in New York in 1992. He studied under composer Arnold Schoenberg [SHERN-berg]. In the early 1940s, he moved to New York, where he met Marcel Duchamp [mar-SELL doo-SHOMP] and other artists. [TURN ONE QUARTER TO THE RIGHT.]

S2: He played chess with Duchamp. There's a Club connection to Cage and Duchamp and chess. In 1968, our own Donald Gillies ran the production of "Reunion" at Ryerson, where Cage and Duchamp played chess and the moves triggered sounds played by unseen musicians. [TURN ONE-QUARTER TO THE RIGHT.]

R: *SLIDE: Donald Gillies.*

S3: Cage married in his early twenties, but divorced his wife in 1945 and spent the rest of his life with Merce [MURSE] Cunningham, a dancer and choreographer. [TURN ONE-QUARTER TO THE LEFT.]

S1: He used chance in his work. These are "aleatory" [AYE-lee-uh-tory] compositions. He would often roll dice to determine what would happen next. He used the *I Ching* [EE CHING] as a compositional tool. He also used silence. [FACE THE CENTRE.]

S2: He was friends with visual artists like Robert Rauschenberg [ROWSH-en-berg]. They once made a work together called "Automobile Tire Print." Rauschenberg taped twenty sheets of typing paper together in a long line. He put it out on the street. Cage drove through a pool of black paint and then drove over the strip of paper as straight as he could. Rauschenberg said Cage "was the printer and the press." [FACE THE CENTRE.]

S<sub>3</sub>: He was a Zen Buddhist. He laughed a lot. He organized the first Happenings. He was a mushroom expert: a mycologist [my-COLL-o-jist]. He composed music for Merce's dances. [FACE THE CENTRE.]

**T<sub>1</sub>: Chance.**

T<sub>2</sub>: Zen.

T<sub>3</sub>: Silence.

**T<sub>1</sub>: Laughter.**

T<sub>2</sub>: Mushrooms.

T<sub>3</sub>: Merce.

PAUSE 2
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P: Cage is best known for his silent piece. That's 4' 33" [four minutes and thirty-three seconds]. [CROSS TO THE YELLOW TAPE AND STOP ON THE X.] This is the score. [GESTURE OVERHEAD.]

<i>R: SLIDE: Show the score.</i>
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P: It has three movements. Each is the word "Tacet" [TASS-it].

This tells the musician not to play. It was first performed by pianist David Tudor in 1952, in a concert space in the woods that was open to the outside. He came on stage and sat at the piano.

PRIMARY and all SECONDARY look at TERTIARY on stage.

**T<sub>1</sub>: In the first movement, he didn't play the piano.**

T<sub>2</sub>: In the second movement, he didn't play the piano.

T<sub>3</sub>: In the third movement, he didn't play the piano.

P: After four minutes and thirty-three seconds of not playing, he stood up, and the piece was over. That's the silent piece.

S<sub>1</sub>: Except ... [RAISE ONE FINGER OVER YOUR HEAD]

PAUSE 2

S<sub>2</sub>: ... it's not ... [SHRUG YOUR SHOULDERS]

PAUSE 3

S<sub>3</sub>: (*firmly*) ... silent.

**PAUSE 4**

S1: Even though the pianist wasn't playing ... [LOWER YOUR FINGER]

S2: ... the audience still heard sounds ...

S3: ... from themselves, and the room, and the whole environment.

P: There's a famous quote from Cage. Citation first.

**T1: Richard Kostelanetz.**

T2: *Conversing with Cage.*

T3: 2003.

P: The quote is [PAUSE 1]: "There's no such thing as silence."

SECONDARY and TERTIARY: Give an exaggerated shrug and knowing wink to an audience member of your choice.

S1: [FOLLOW THE BLUE LINE TO THE PINK LINE AND STOP ON THE X.]

S2: [FOLLOW THE PINK LINE TO THE BLUE LINE AND

STOP ON THE X.]

S<sub>3</sub>: [FOLLOW THE BLUE LINE TOWARDS THE SCREEN,  
THEN CROSS TO THE YELLOW AND WALK TO THE X.]

P: [CROSS TO THE PINK LINE, THEN WALK TO SCREEN,  
BLUE LINE, STAND ON CHEVRONS.]



## Scenario 3: Authority is Constructed and Contextual (5 min)

M: [PLAY A NOTE.]

[PAUSE 4]

P: Back to the concept.

*R: SLIDE: Show “Authority is constructed and contextual”.*

S1: Authority—

S2: —is constructed—

S3: —and contextual.

[PAUSE 1]

**T1: Authority.**

T2: Constructed.

T3: Contextual.

[PAUSE 1]

P: This is the concept in question. This is the *frame* we are going to try to understand. Let’s look at the definition.

Everyone turn to look at the screen.

*R: SLIDE: Show “Information resources reflect” paragraph.*

P: One should never read a block of text from a screen, but they’re going to read a block of text from a screen.

**T1: “Information resources reflect their creators’ expertise and credibility, and are evaluated based on the information need and the context in which the information will be used.”**

T2: “Authority is constructed in that various communities may recognize different types of authority.”

T3: “It is contextual in that the information need may help to determine the level of authority required.”

P: Citation?

**T1: Association of College and Research Libraries.**

T2: *Framework for Information Literacy for Higher Education.*

T3: 2015.

P: [FACE THE PIANO.]

S<sub>1</sub>: [FACE THE PIANO.]

S<sub>2</sub>: [FACE THE PIANO.]

S<sub>3</sub>: [FACE THE PODIUM.]

*R: SLIDE: Show “Information resources reflect” paragraph with first line bold: “Information resources reflect their creators’ expertise and credibility, and are evaluated based on the information need and the context in which the information will be used.”*

P: First of all, what’s an information resource? Define it, please.

S<sub>1</sub>: A book. A web site. A documentary. A Facebook post. An article in an academic journal. A thread on Twitter. A newspaper report. A pamphlet your doctor gave you. Could be a person!

P: How do they reflect their creators’ expertise and credibility?

S<sub>2</sub>: The book was written by someone who’s spent years on the topic, and it’s published by a major publisher. The web site has recipes tested by a cook you like. The post on Facebook was made by someone who was actually at the event.

S<sub>3</sub>: The academic article is by a team of people at a research laboratory at a university. The thread on Twitter is by a cabinet minister, about the government’s response to an emergency.

P: And how you use these depends on what you need, when you need it, and how you'll use it.

S1: If I'm planning a vacation in a city I've never been to before, I'd go to some web sites, get some travel guides, and ask people I know if they've been there. That's enough for me as a *tourist*. But if I was thinking about doing *business* there, that's a whole different thing. I need information about the economics, demographics, regulations and so on.

S2: Or say I had to write something about the Group of Seven. If I want to check who the ninth and tenth members were, the Wikipedia entry is enough. But if I'm studying Canadian art history at university, I need books by art historians and other experts.

P: Next part.

Everyone turn to look at the screen.

*R: SLIDE: Show "Information resources reflect" paragraph with second line bold: "Authority is constructed in that various communities may recognize different types of authority."*

P: Authority isn't absolute. Different people can recognize dif-

ferent types of authority in different situations. It's socially constructed.

S<sub>3</sub>: People can select their own authorities, based on religion or politics or culture. Some authorities have that position because of a role that is more or less universally respected, like nurses. Or maybe it's about power, like the principal in an elementary school.

P: And the last part.

*R: SLIDE: Show "Information resources reflect" paragraph with third line bold: "It is contextual in that the information need may help to determine the level of authority required."*

P: If I want to know what A.J. Casson was like as a person, someone who knew Cass—a member here who had lunch with him, and maybe visited his house to buy a painting—is one kind of authority. But if I want to know about the influence the Group has had on Canadian art over the last century, that's different. I'd look to other authorities.

*R: SLIDE: Show "Authority is constructed and contextual".*

P: This frame comes with some *knowledge practices*. Such as:

S1: People who understand this frame will be able to define different types of authority, for example: subject expertise, societal position or personal experience.

S2: They know indicators that help determine an authority's credibility.

S3: They know that there may be scholars who are widely acknowledged as authorities in an area, but still be challenged by other scholars.

P: And they know they can develop their own authoritative voices, and this will develop over time, in relation to other authorities. Also, there are *dispositions*. People who understand this frame will maintain an open mind.

S1: They will look for authoritative sources, and remember authority doesn't need to come from a university degree.

S2: They will be aware of who is saying someone is an authority, and why.

S3: They will be aware of their own attitudes and biases.

[PAUSE 1]

P: Now the beginning is in place. We know about information literacy.

**T<sub>1</sub>: Find.**

T<sub>2</sub>: Use.

T<sub>3</sub>: Understand.

**T<sub>1</sub>: Evaluate.**

T<sub>2</sub>: Integrate.

T<sub>3</sub>: Share.

P: And we know about the frame.

S<sub>1</sub>: Authority—

S<sub>2</sub>: —is constructed—

S<sub>3</sub>: —and contextual.

P: Now we go back to our example.

P: [FOLLOW THE BLUE LINE TO THE PODIUM, STAND ON ORANGE CHEVRONS.]

S<sub>1</sub>: [FOLLOW THE PINK LINE TO THE PINK CHEVRONS.]

S<sub>2</sub>: [FOLLOW THE BLUE LINE TO THE GREEN LINE, THEN STOP ON THE TRIANGLE.]

S<sub>3</sub>: [CROSS TO THE PINK LINE AND STOP ON THE X.]

## **Scenario 4: Music (3 min)**

M: [PLAY A NOTE.]

[PAUSE 4]

P: John Cage.

*R: SLIDE: Photo of John Cage.*

**T<sub>1</sub>: Chance.**

T<sub>2</sub>: Zen.

T<sub>3</sub>: Silence.

**T<sub>1</sub>: Laughter.**

T<sub>2</sub>: Mushrooms.

T<sub>3</sub>: Merce.

P: We start with his music. We saw the score of 4' 33", which was three movements where the pianist does not play the piano. It can be performed by other groups of performers not playing other instruments, as well.

...



...

Cage introduced Pierre Boulez to Aaron Copeland (in Paris)

Nono p. 160 Conversing. Critivcal of Cage's poloitics

**Scenario 5: Mushrooms (6 min)**

M: [PLAY A NOTE.]

[PAUSE 4]

P: John Cage became interested in mushrooms in 1954, when he was staying at a farmhouse in New York State. He said:

S1: “I found myself living in small quarters with four other people, and I was not used to such lack of privacy, so I took to walking in the woods. And since it was August, the fungi are the flora of the forest at that time.”

S2: “I was very involved with chance operations in music, and I thought it would just be a very good thing if I could get involved with something where I could not take chances.”

P: He was asked if he had any favourite mushrooms. He said:

S3: “I like the ones I have. If you like the ones you don’t have, then you’re not happy.”

P: Citation.

**T1: Richard Kostelanetz.**

*T2: Conversing with Cage.*

T<sub>3</sub>: 2003.

P: Cage quickly became an expert on mushrooms, so much so that a little over four years later he won a lot of money on an Italian TV game show. While in Milan, on a concert tour, he went on a show called *Leave or Double*. Contestants won money by answering questions on a specialty subject. His was mushrooms. He appeared several times, building up his winnings. Finally he had one-and-a-half million lire, and in his last appearance he took the risk of answering three more questions to either win five million lire (about eight thousand dollars) or lose it all.

S<sub>1</sub>: For the first question, he was shown photographs of mushrooms and had to identify them. He got each one correct.

S<sub>2</sub>: Next he was shown a photo of a particular mushroom and had to give its scientific name, the colour and shape of its spores, and the length and width of its spores. He gave all the right answers.

S<sub>3</sub>: Finally he was asked to list the twenty-four types of white-spore mushrooms given in a standard text. Cage said, “I can enumerate the list alphabetically,” and then did so.

P: Cage later said, “That was the first consequential amount of money I’d ever earned. It was two years later, in 1960, that I began to make some money with my music.” [PAUSE 1] Mushrooms

became a regular part of Cage's music and writing. We are going to hear two stories from his 1959 work *Indeterminacy*. This is a set of ninety stories, some short, some long, each meant to be read, quickly or slowly, so that it lasts exactly one minute.

S3: My two colleagues are now going to perform "Mushroom Verbatim." One after the other, they are going to put on those headphones and repeat what they hear. Speaking what you are hearing, without preparation, is not easy, so we will forgive them any mistakes. First, story number sixty-six.

S1: Cross to the plinth and stand in front of the chair. Put your binder down on it, face open so that you can see these words. Put on the headphones. Look up at the Viking ship above the stage. When you are ready, nod your head a little bit. You will hear a story. Repeat what you hear.

While the Mushroom Verbatim is happening, look at the speaker.

*Q: SX: Play "Indeterminacy 66" audio file over headphones.*

S1: When you are done, put the headphones back, pick up your binder, and return to where you were standing.

P: Next, story number sixty.

S2: Cross to the plinth and stand in front of the chair. Put your binder down on it, face open so that you can see these words. Put on the headphones. Look up at the Viking ship above the stage. When you are ready, nod your head a little bit. You will hear a story. Repeat what you hear.

While the Mushroom Verbatim is happening, look at the speaker.

*Q: SX: Play “Indeterminacy 60” audio file over headphones.*

S1: When you are done, put the headphones back, pick up your binder, and return to where you were standing.

**Scenario 6: Conclusion? (5 min)**

M: [PLAY A NOTE.]

[PAUSE 4]

P: Cage was an expert on mushrooms, but he wasn't *just* an expert. He was also an *authority*, which is different. Someone can be an expert without being an *authority*.

**T1: Authority.**

T2: Constructed.

T3: Contextual.

S1: Cage began teaching mushroom identification at the New School in New York. This led to him helping to found the New York Mycological Society, which is still in operation.

S2: Members would go for walks to find mushrooms to eat, but they also collected them for study. Cage became the eastern vice-chairman of the People-to-People Committee on Fungi, which brought together mycologists from around the world.

S3: He even sometimes sold rare mushrooms to the Four Seasons restaurant in New York.

## **Scenario 7: 4' 33" (6 min)**

M: [PLAY A NOTE.]

[PAUSE 4]

Instructions on where to move.

S1: Now we will have a performance of 4' 33".

S2: The performers will be three of us, the three of them up on stage, and the musician at the piano.

S3: The conductor will listen to recorded instructions on headphones. There are three movements, with a brief pause between.

Put down your score and pay attention to PRIMARY, who will conduct.

P: [Go the plinth in the centre of the Great Hall. Put down your score. Pick up the headphones and put them on. Follow the instructions you hear. If you cannot hear anything after a few seconds, raise a hand and look for someone in a white lab coat.]



*Audio file runs about 5m40s total, with instructions and gaps between movements.*

When the piece is over, wait until the audience has reacted and had time to cough and move. Wait until the room is quiet again.

**Coda (1 min)**

M: [PLAY A NOTE.]

[PAUSE 4]

P: Thank you.

## **Curtain call**

What to do for the curtain call.

*LX: Lights down. House lights to full.*

## **Bibliography**

List works cited, and perhaps further reading.

Rauschenberg quote about “printer and the press” <https://www.moma.org/audio/playlist/40/641>

Indeterminacy online. <https://johncage.org/indeterminacy.html>

“there’s no such thing as silence.” Richard Kostelanetz, *Conversing with Cage*. 2nd ed. New York: Routledge, 2003. P. 65.

## Credits

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