

# Theatre Science

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(This score is for: audience)

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## Credits

Created by Ashley Williamson and William Denton.

Theatre Science would not exist without the Arts and Letters Club of Toronto. Thanks to everyone we've ever worked with in any stage production at the club. We're grateful to the Stage Committee for giving us the time for these performances. Special thanks to Fiona McKeown and Chris Gardener. Very special thanks to Michael Spence, who embodies both Theatre and Science.

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**Bibliography**

List works cited, and perhaps further reading.

<b>Bibliography</b>	<b>34</b>
<b>Credits</b>	<b>35</b>

## 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%.

## Curtain call

What to do for the curtain call.

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

**Coda (1 min)**

PRIMARY: Thank you.

**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.

MUSICIAN: [PLAY A NOTE.]

PRIMARY: [POINT TO THE TERTIARY GROUP.]

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

SECONDARY 1: (*thoughtfully*): When it is your turn to say something, the line will be bold, like this.

SECONDARY 2: Authority is constructed ...

SECONDARY 3: ... and contextual.

PAUSE 1

SECONDARY 1: 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.

## Scenario 7: 4’ 33” (6 min)

Instructions on where to move.

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

PRIMARY: [Press play on the device and follow the instructions. If you cannot hear anything after a few seconds, raise a hand and look for someone in a white lab coat.]

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.

**Scenario 6: Swiss roll (5 min)**

Tie it all together about Cage and authority and how it is constructed and contextual.

**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 .

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.

**Scenario 5: Cage and mushrooms (6 min)**

PIANIST: [PLAY A NOTE.]

[PAUSE 4]

PRIMARY: Now we're going to talk about mushrooms. Interesting fact: they are in the fungi [FUNG-gee] kingdom, along with yeast and mold. Plants are a whole different kingdom, and animals are in a third kingdom. They do sort of look like plants, but they're not: they don't use photosynthesis. They get their energy by eating things like wood.

...

...



**Scenario 4: Cage and music (3 min)**

PIANIST: [PLAY A NOTE.]

[PAUSE 4]

PRIMARY: Now we go back to our example: John Cage. We're going to look a little bit more at his music, then we're going to talk about mushrooms. Then we're going to tie it all together.

*R: SLIDE: Photo of John Cage.*

PRIMARY: We saw 4' 33", but he did a lot more than that.

...

...

**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.

SECONDARY 1: Discuss knowledge practices briefly.

SECONDARY 2: And dispositions.

PRIMARY: 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.”*

PRIMARY: 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 hundred years, that’s different. I’d look to different authorities.

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

PRIMARY: So the idea is *not to blindly trust anyone just because they seem like they know what they’re talking about*. Think about who is saying what, and why. Be open to different points of view, but consider the context and what kind of information you need. Know how authority is built up. At first you might rely on things like credentials or where someone’s work is published, but as you get to know more about a subject, you’ll get to know it from the inside, and learn the different points of views and arguments among the experts.

## Scenario o: 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,*  
*\_\_\_\_\_ as Primary,*  
*\_\_\_\_\_ as Secondary One,*  
*\_\_\_\_\_ as Secondary Two,*  
*\_\_\_\_\_ as Secondary Three,*  
*\_\_\_\_\_ as Tertiary One,*  
*\_\_\_\_\_ as Tertiary Two,*  
*\_\_\_\_\_ 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.

MUSICIAN: [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 ×. S3: follow the pink tape and stop on the chevrons.

a whole different thing. I need information about the economics, demographics, regulations and so on.

SECONDARY 2: Or say I had to write something about the Group of Seven. If I just needed 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'd need to read books by art historians and other experts.

PRIMARY: Experts. Let's remember that word. We've got authority and we've got expertise. But ...

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

PRIMARY: Authority isn't absolute. Different people can recognize different types of authority in different situations. It's socially constructed.

SECONDARY 3: 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.

it, please.

TERTIARY 1: A book. A web site. A documentary on TV. 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! Like your cousin who knows about really good foreign TV shows you've never heard of.

PRIMARY: How do they reflect their creators' expertise and credibility?

TERTIARY 2: 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.

TERTIARY 3: 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.

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

SECONDARY 1: 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

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.

PRIMARY: [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."

Turn to the slide being projected and point at the screen.

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

SECONDARY 1: *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.

SECONDARY 2: 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*, about being able to use digital tools, and *media literacy*.

SECONDARY 3: 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."*<sup>1</sup>

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 ?????.

<sup>1</sup>Citation needed.

PRIMARY: This is the concept in question. This is the *frame* we are going to investigate and try to understand. Let's look at the definition.

*R: SLIDE: Show "Information resources reflect" paragraph.*

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

SECONDARY 1: "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."

SECONDARY 2: "Authority is constructed in that various communities may recognize different types of authority."

SECONDARY 3: "It is contextual in that the information need may help to determine the level of authority required."

*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."*

PRIMARY: First of all, what's an information resource? Define

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

PIANIST: [PLAY A NOTE.]

[PAUSE 4]

PRIMARY: Back to the concept.

*Use a video?*

SECONDARY 1: (*thoughtfully*): Authority is constructed and contextual.

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

SECONDARY 2: Authority is constructed—

SECONDARY 3: —and contextual.

[PAUSE 1]

TERTIARY 1: Authority.

TERTIARY 2: Constructed.

TERTIARY 3: Contextual.

[PAUSE 1]

PRIMARY: [POINT BRIEFLY TO THE SCREEN, THEN READ.]

“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.” Put more simply, information literacy is the ability to do these with information:

SECONDARY 1: Find.

TERTIARY 1: Use.

SECONDARY 2: Understand.

TERTIARY 2: Evaluate.

SECONDARY 3: Integrate.

TERTIARY 3: Share.

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

SECONDARY 1: 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.

SECONDARY 2: And it happens in different contexts. Helping a kid in elementary school with a homework assignment about

trees is a lot easier than understanding changing provincial policy about the Green Belt, but the steps are the same.

SECONDARY 3: A lot depends on people. Information resources don't have to be written. If they are written, they're written by people. But sometimes they just actually are people. We turn to others for information or advice or expertise.

PRIMARY: This definition of information literacy on the screen comes from a division of the American Library Association called the ACRL, which stands for the Association of College and Research Libraries. The ACRL has many committees and ongoing projects, and some of that work is dedicated to information literacy. In 2016, it published a short document called *Framework for Information Literacy for Higher Education*.

*R: SLIDE: There is no slide here yet, but it will show the Framework.*

PRIMARY: More will be added here soon! Include something brief about "fake news" and junk designed to go viral that snags your attention immediately but is really just nonsense or designed to scare you or sell you something. Check the sources; use your information literacy. Same with Malcolm Gladwell.

SECONDARY 1: Even though the pianist wasn't playing ... [LOWER YOUR FINGER]

SECONDARY 2: ... the audience still heard sounds ...

SECONDARY 3: ... from themselves, and the room, and the whole environment.

PRIMARY: As Cage said, "There's no such thing as silence."

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



PRIMARY and all SECONDARY look at TERTIARY on stage.

TERTIARY 1: In the first movement, he didn't play the piano.

TERTIARY 2: In the second movement, he didn't play the piano.

TERTIARY 3: In the third movement, he didn't play the piano.

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

SECONDARY 1: Except ... [RAISE ONE FINGER OVER YOUR HEAD]

PAUSE 2

SECONDARY 2: ... it's not ... [SHRUG YOUR SHOULDERS]

PAUSE 3

SECONDARY 3: (*firmly*) ... silent.

PAUSE 4

## Scenario 2: John Cage (3 min)

MUSICIAN: PLAY A NOTE.

PAUSE 4

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

*R: SLIDE: Photo of John Cage.*

Face the screen with your bodies.

PRIMARY: [GESTURE AT THE SECONDARY GROUP TO DIRECT ATTENTION TO THEM.] Background.

PRIMARY: Walk along the purple tape to the triangle, then face the centre of the hall.

SECONDARY 1: 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 LEFT.]

SECONDARY 2: 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.*

SECONDARY 3: Cage married in his early twenties, but divorced his wife in 1945 and spent the rest of his life with Merce Cunningham, a dancer and choreographer. Later in life, he became a Buddhist. He followed a macrobiotic diet, and took his own food with him when he travelled. [TURN ONE-QUARTER TO THE LEFT.]

SECONDARY 1: He used chance into 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. [FACE THE CENTRE.]

SECONDARY 2: He was friends with contemporary visual artists like Robert Rauschenberg [ROWSH-en-berg], who once made a work by taking a pencil drawing by Willem de Kooning [WILL-um de KOO-ning] and erasing everything on it. That's a very Cage thing to do. [FACE THE CENTRE.]

SECONDARY 3: He smoked a lot. He laughed a lot. He organized the first Happenings. He was a mushroom expert: a mycologist [my-COLL-o-jist]. He composed the silent piece. [FACE THE CENTRE.]

PAUSE 2

PRIMARY: The silent piece. That's 4' 33" [four minutes and thirty-three seconds]. [WALK ALONG THE PURPLE TAPE AND STOP ON THE X.] This is the score. [GESTURE TO THE SCREEN WITH A SWEEP OF YOUR ARM.]

*R: SLIDE: Show the score.*

PRIMARY: 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. He came out on stage and sat at the piano.