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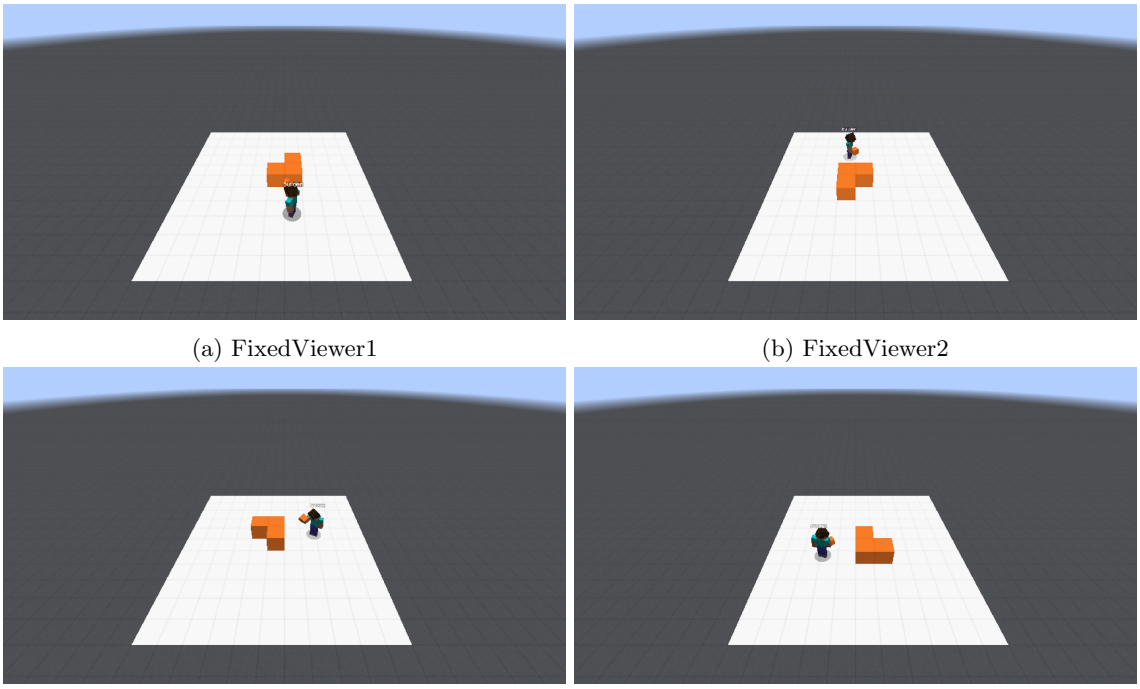
Chapter 1

orange-flat-original-L (C17)

1.1 Gold Configuration



(a) FixedViewer1

(b) FixedViewer2

(c) FixedViewer3

(d) FixedViewer4

Figure 1.1: Gold configuration

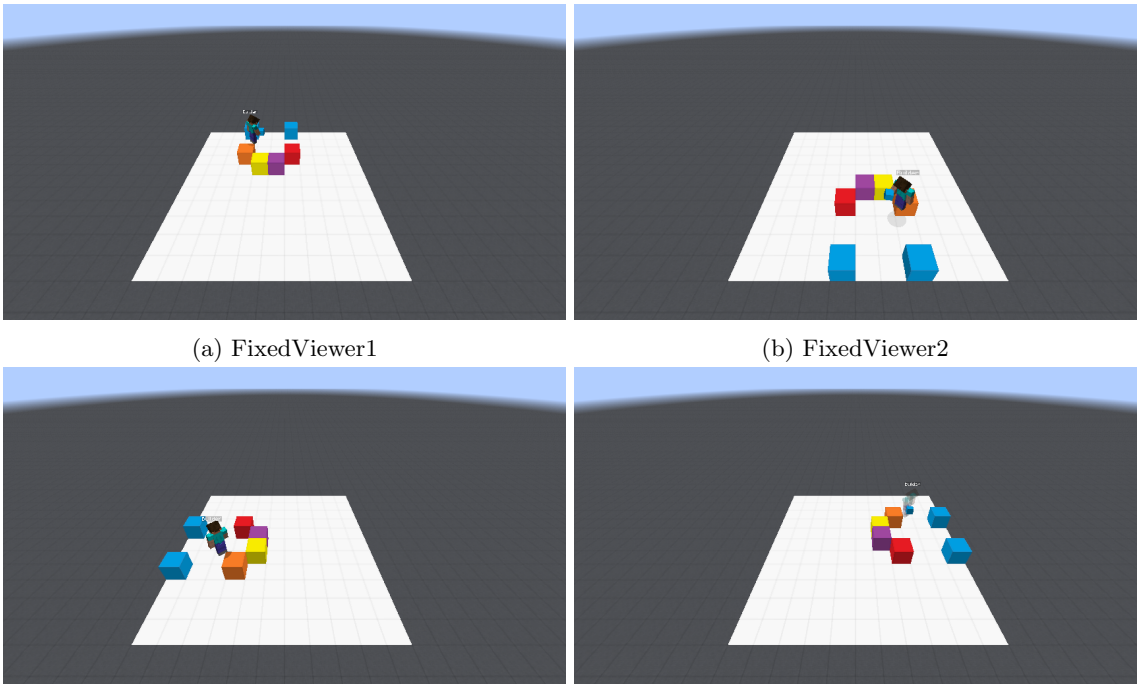
1.2 Dialogue

<Builder> Mission has started.
<Builder> hello architect
<Architect> Hi
<Builder> what would you like me to build today?
<Architect> Build a orange L
<Builder> like this?
<Architect> turn it on its side
<Architect> perfect
<Builder> thank you architect

Chapter 2

smiley (C22)

2.1 Gold Configuration



(a) FixedViewer1

(b) FixedViewer2

(c) FixedViewer3

(d) FixedViewer4

Figure 2.1: Gold configuration

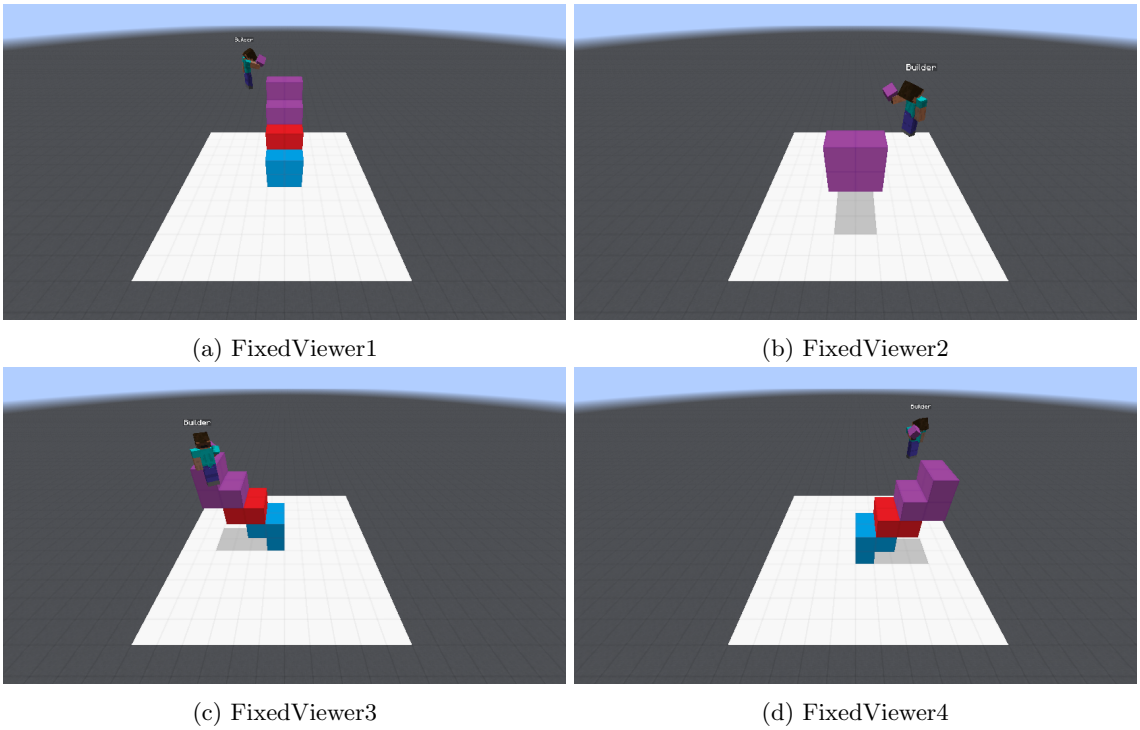
2.2 Dialogue

```
<Builder> Mission has started.
<Builder> hello again architect
<Architect> you are going to be building a smiley face
<Builder> ok
<Architect> start with a yellow block
<Builder> does it matter where?
<Architect> no it does not
<Architect> now set a purple block to the right of the yellow one
<Builder> like this?
<Architect> yes
<Architect> now take a red block
<Architect> place it in the square diagonally to the right of the purple
   block
<Architect> nice
<Builder> thank you
<Architect> now do the same thing on the other side but with an orange block
<Builder> other side of the purple or yellow?
<Architect> yellow
<Architect> now you need to make the eyes with two blue blocks
<Architect> they are directly above the orange and red blocks with two
   spaces in between them
<Builder> like this?
<Architect> move them up one space
<Builder> and now?
<Architect> looks done
<Builder> ok
```

Chapter 3

diagonal-zigzag (C14)

3.1 Gold Configuration



(a) FixedViewer1

(b) FixedViewer2

(c) FixedViewer3

(d) FixedViewer4

Figure 3.1: Gold configuration

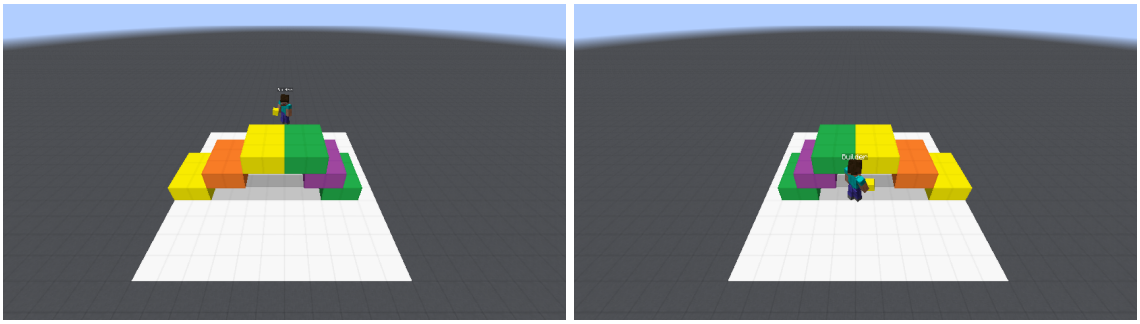
3.2 Dialogue

<Builder> Mission has started.
<Builder> hello architect, my only friend
<Architect> what's shakin
<Builder> i am ready to build
<Architect> ok place two blue blocks on the ground
<Architect> cool, now put two more blue blocks on top of those
<Architect> Now attach two more blue blocks to the top two parallel to the ground
<Builder> like so?
<Architect> Move them to the longer side
<Architect> yeah great
<Builder> like that?
<Builder> ok
<Architect> On top of the blocks you just placed, put down two red blocks
<Architect> great
<Architect> Now place two more red blocks on the same horizontal plane that jut out to the left
<Builder> like that?
<Architect> perfect
<Architect> On top of the ones you just placed add two purple blocks
<Architect> then do the same thing you did for the red blocks
<Architect> and put two purple blocks on top of those
<Builder> like that?
<Architect> yep nice

Chapter 4

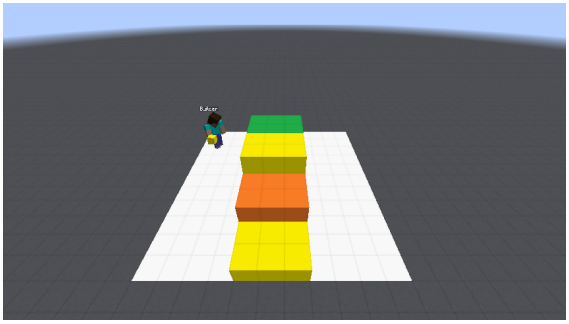
double_stairs (C15)

4.1 Gold Configuration

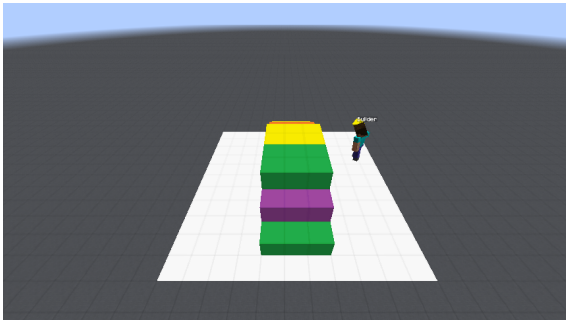


(a) FixedViewer1

(b) FixedViewer2



(c) FixedViewer3



(d) FixedViewer4

Figure 4.1: Gold configuration

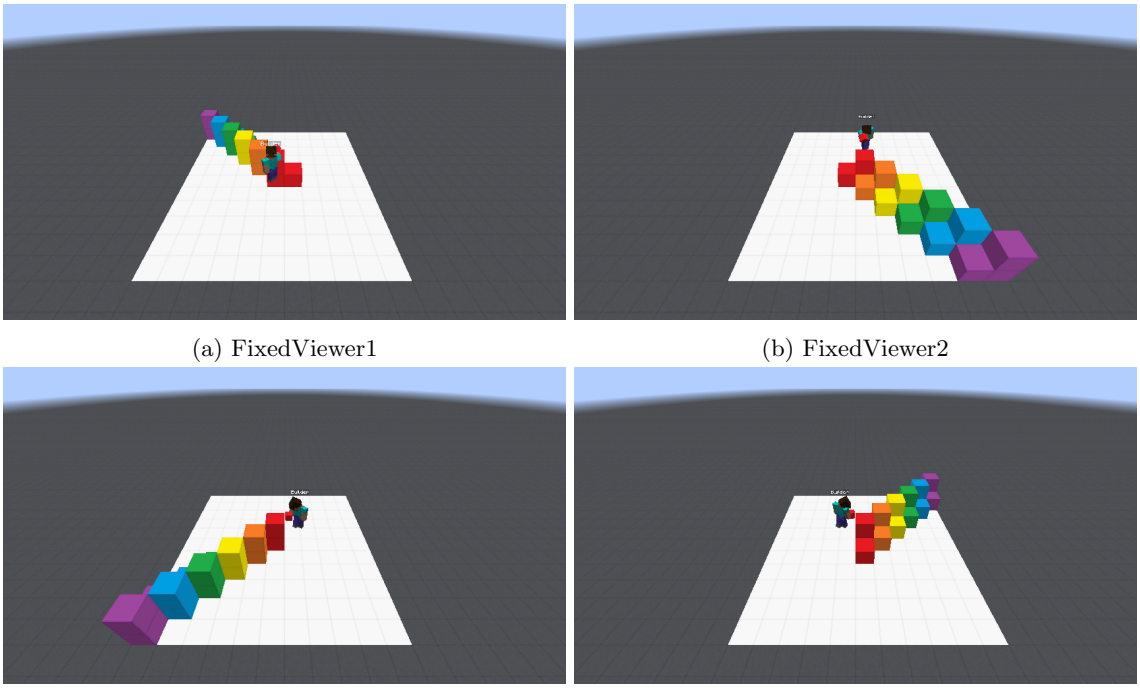
4.2 Dialogue

<Builder> Mission has started.
<Architect> hello
<Builder> hello architect my only friend
<Builder> what are we building today?
<Architect> get ready to build a bridge
<Builder> ok i am ready
<Architect> place three yellow blocks along the long side of the building space
<Builder> does it matter which side?
<Architect> nope
<Architect> then put another row of three next to that
<Architect> ok now you are going to add a third row which you will remove in a bit
<Builder> ok, which colors are not used so i can use them as placeholders?
<Architect> red
<Builder> is this good?
<Architect> yes
<Architect> Now on top of the red place three orange blocks
<Architect> then put another row of orange
<Builder> next to or above?
<Architect> next
<Architect> cool, now you can remove the red ones
<Architect> ok, now go to the second row from the right
<Architect> place three green blocks
<Architect> great
<Architect> now add three more
<Architect> on top of those add three purple
<Architect> then add three more to the left
<Architect> make another vertical two by three green rectangle offset by one like you did with the purple
<Architect> basically just do that again but with green
<Architect> great
<Builder> like that?
<Builder> cool
<Architect> now add a three by two yellow rectangle to connect the bridge
<Architect> nice one
<Builder> thank you architect

Chapter 5

diagonal-Ls (C12)

5.1 Gold Configuration



(a) FixedViewer1

(b) FixedViewer2

(c) FixedViewer3

(d) FixedViewer4

Figure 5.1: Gold configuration

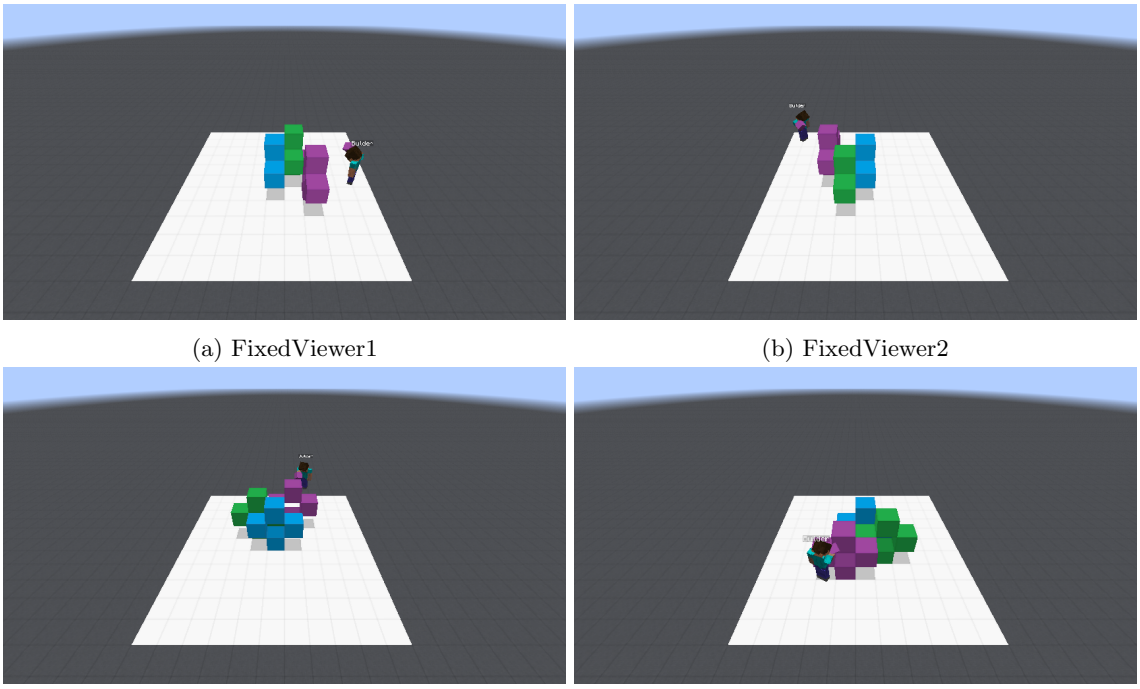
5.2 Dialogue

```
<Builder> Mission has started.
<Builder> hello architect
<Architect> hello, are you ready to build a rainbow
<Builder> i am ready architect, please show me the way
<Architect> Alrighty
<Architect> In the upper left corner place a purple block
<Builder> there?
<Architect> sure thing
<Architect> now place a block to the right and on top
<Architect> ok now repeat that shape but in blue and offset the starting
   block one space to the right and one space down
<Architect> from the original block
<Builder> like that?
<Architect> close, move the structure up one space
<Builder> so they are touching?
<Architect> yes
<Architect> now do that four more times in the order green, yellow, orange,
   and red
<Builder> like that?
<Architect> excellent
```

Chapter 6

overlapping-reticles (C18)

6.1 Gold Configuration



(a) FixedViewer1

(b) FixedViewer2

(c) FixedViewer3

(d) FixedViewer4

Figure 6.1: Gold configuration

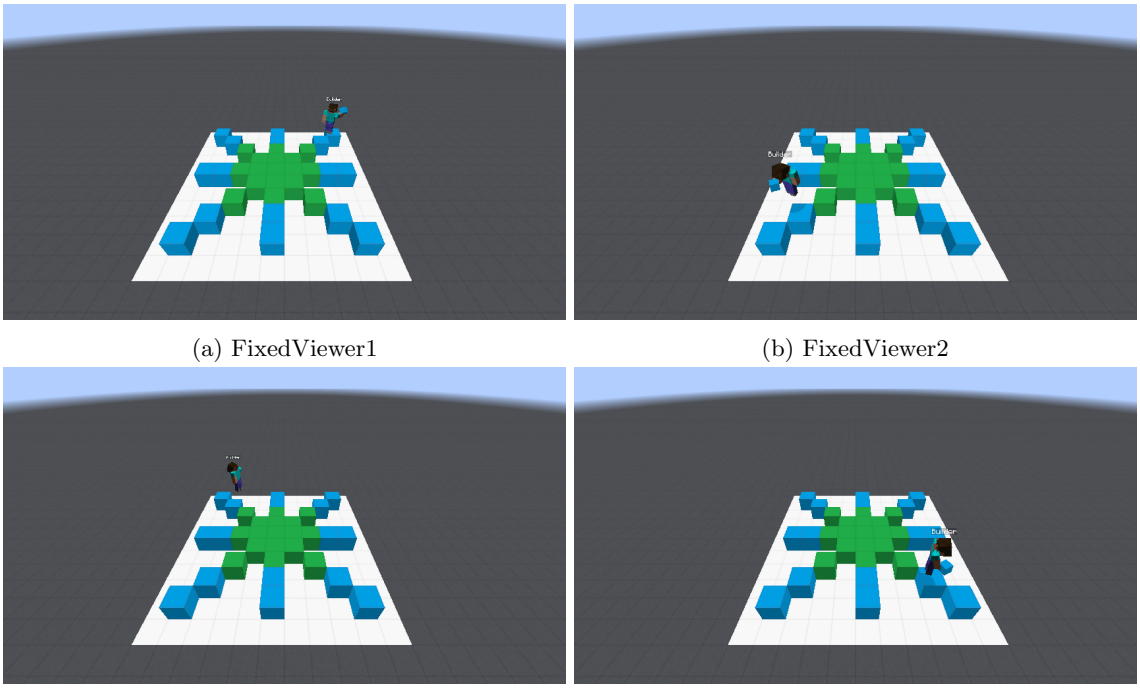
6.2 Dialogue

<Builder> Mission has started.
<Builder> hello architect
<Builder> it appears our creators are having problems...
<Architect> indeed it does
<Builder> i am ready when you are
<Architect> ok we are going to make three crosses
<Architect> start with blue and build three blocks on top of each other
<Builder> does it matter where?
<Architect> right in the middle is good
<Architect> now make the two arms on the second level
<Builder> like so?
<Architect> exactly, you now want to remove the center block
<Builder> is this good?
<Architect> great
<Architect> Ok we are going to do the same thing with a green cross
<Architect> start the base block to the upper left corner of the blue one
<Architect> the blue starting block that is
<Builder> i'm not sure i understand
<Architect> It is also on the ground
<Builder> there?
<Architect> Yep that's perfect
<Architect> now do build another cross
<Architect> great
<Builder> thank you architect
<Architect> No problem
<Architect> Now we are going to build the last cross in purple
<Architect> the base is located two blocks north of the right most blue block
<Builder> there?
<Architect> yes
<Builder> shall i fill it in?
<Architect> now just build another cross
<Builder> is it complete?
<Architect> you did it!
<Builder> no, WE did it
<Builder> good job architect
<Architect> aw thanks champ

Chapter 7

asterisk (C9)

7.1 Gold Configuration



(a) FixedViewer1

(b) FixedViewer2

(c) FixedViewer3

(d) FixedViewer4

Figure 7.1: Gold configuration

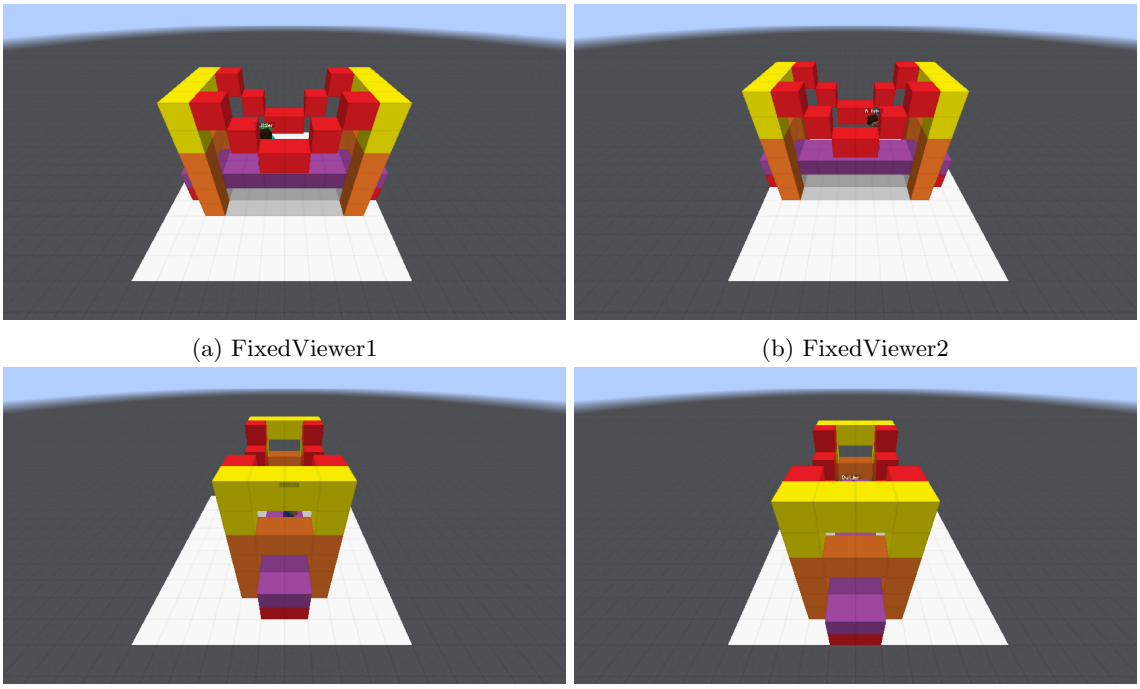
7.2 Dialogue

```
<Builder> Mission has started.
<Builder> hello once again architect
<Architect> Get ready for a big one
<Builder> i am ready if you will lead me
<Architect> all the blocks lie on the ground
<Builder> understood
<Architect> start in the very center and make a three by three green square
<Builder> do i need to shift it?
<Architect> yes
<Builder> how about that?
<Architect> terrific
<Architect> ok so now we are going to build a kind of ring around this
   square
<Architect> put green blocks next to the middle green blocks of the square
<Builder> ok, is it touching or space in between?
<Architect> great
<Architect> now add the green squares in the corner of the square
<Architect> the original square
<Architect> yeah like that
<Architect> excellent
<Architect> We are now switching to blue
<Builder> ok
<Architect> for the four squares that come out from the middle blocks, add
   two blue blocks on
<Architect> yeah great
<Architect> now for the ones that came out from the corner, you want to
   continue that diagonal with two more blue blocks
<Builder> like that?
<Architect> exactly
<Architect> beautiful
<Builder> is it finished?
<Architect> yes, now die
```

Chapter 8

suspension_bridge (C23)

8.1 Gold Configuration



(a) FixedViewer1

(b) FixedViewer2

(c) FixedViewer3

(d) FixedViewer4

Figure 8.1: Gold configuration

8.2 Dialogue

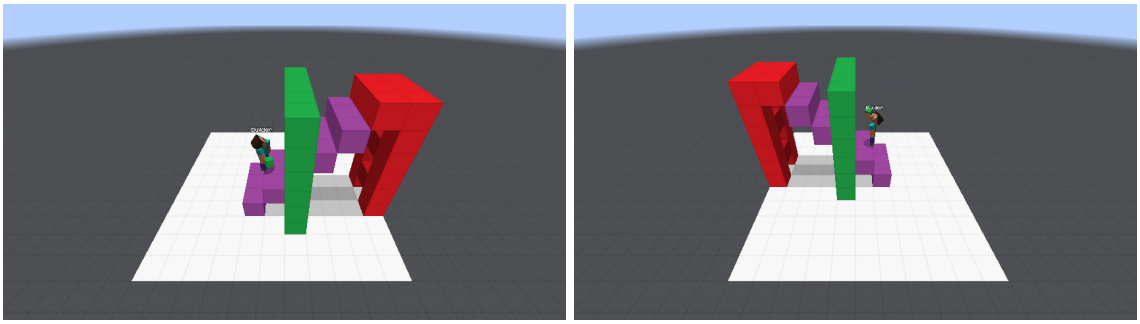
```
<Builder> Mission has started.
<Builder> hello architect
<Builder> i am born again
<Architect> rise my son
<Builder> i am ready to build father
<Architect> ok this thing looks kind of like a suspensionn bridge
<Builder> ok, my knowledge in engineering is limited so please use much
   detail
<Architect> okie dokie
<Architect> start with two red blocks along the side of the domain
<Builder> does it matter which side?
<Architect> no
<Architect> ok now you want to do that exactly opposite but one block in
   this time
<Builder> like that?
<Architect> yes, now add a purple layer on top that connects the two bases
<Architect> great
<Architect> ok now we are going to make the bridge towers
<Builder> ok
<Architect> place an orange brick to the lower right corner of the left
   bottom red block
<Architect> yeah!
<Architect> ok put three more orange blocks on top
<Architect> now cross over the top of the bridge with three more orange
   blocks
<Architect> these are attached to the top most orange block
<Architect> nice
<Architect> now build that down to the ground like on the other side
<Builder> shall we do the same on the other side of the bridge?
<Architect> we shall
<Builder> same color?
<Architect> yes
<Architect> great
<Builder> have we completed our goal?
<Architect> not yet
<Builder> standing by
<Architect> now we need to place a yellow block on top of the four orange
   posts
<Architect> great
<Architect> add yellow blocks on top and connect them across the bridge
<Architect> wait
<Architect> other way
<Architect> basically like the orange ones
<Builder> like that?
```

<Architect> yeah nice
<Architect> ok now we need to build the suspension rigging
<Builder> ok i don't know what that means but i trust you architect
<Architect> start with red blocks
<Architect> place them next to the top yellow blocks on the posts so they
   are on the inside of the bridge
<Architect> that wasn't clear sorry
<Builder> here?
<Architect> oh yeah great
<Architect> ok we are going to need a placeholder block so use green or blue
<Builder> roger that
<Architect> cool, put it right below all of the red blocks you just added
<Architect> great, now add another red block next to each green one
<Architect> yep
<Architect> add another green block below each red one you added
<Architect> then connect across with two red blocks
<Architect> what a masterpiece!
<Builder> wait
<Builder> i think i messed up
<Architect> lols yeah the one side is correct
<Architect> yay!
<Builder> we good now?
<Architect> yep
<Builder> awesome!

Chapter 9

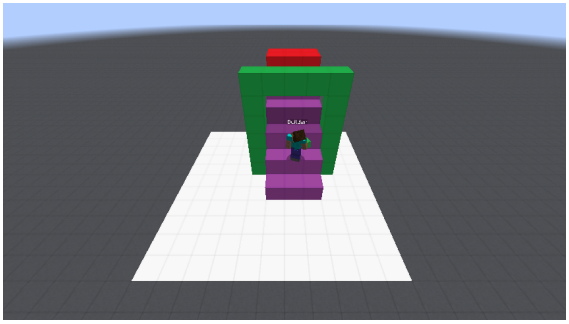
slide_with_arch (C19)

9.1 Gold Configuration

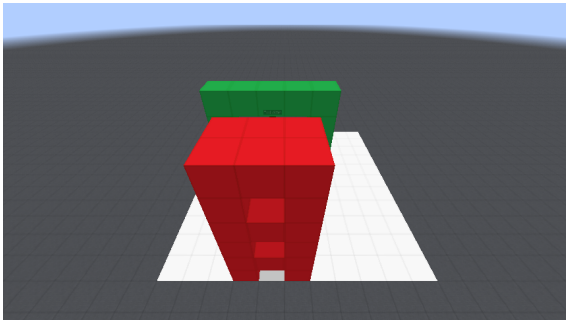


(a) FixedViewer1

(b) FixedViewer2



(c) FixedViewer3



(d) FixedViewer4

Figure 9.1: Gold configuration

9.2 Dialogue

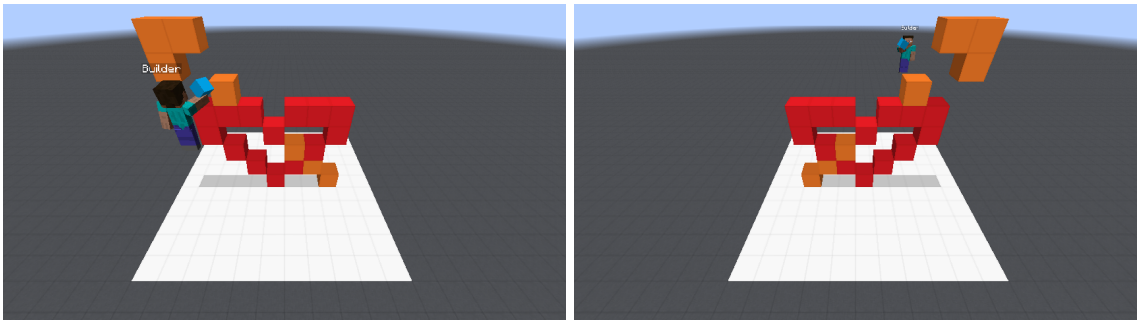
<Builder> Mission has started.
<Builder> hello architect, my only friend and parent
<Architect> hello my child
<Architect> alright this thing looks like an artistic staircase
<Builder> ok, is it straight or spiraling?
<Architect> straight
<Builder> roger that. i am ready to build
<Architect> it will have a red tower at one end and a green one in the middle
<Architect> let's start with the red tower
<Builder> ok
<Architect> cool, place a red block along the edge near the center of the row
<Architect> great, skip a space and place anothe rone
<Builder> on the edge or toward the center?
<Architect> along the edge
<Builder> got it
<Architect> go up a row and connect them
<Architect> now just build two on top of the posts
<Builder> it looks like an H
<Architect> great, go up another row and connect them
<Architect> that it does
<Builder> now its an A
<Builder> HA
<Architect> what a joke
<Builder> sorry lets continue
<Architect> ok, now do the posts again and connect
<Builder> like so?
<Architect> yes, build a row of three next to the top three
<Architect> into the space
<Builder> like that?
<Architect> yes, put a placeholder row of orange blocks below that
<Architect> then next to those put a row of purple
<Architect> then remove orange
<Architect> that is going to be the top of the stars
<Architect> stairs
<Builder> ok
<Architect> repeat that process until you reach the ground
<Builder> with purple being all of the stairs?
<Architect> yes
<Architect> excellent
<Builder> thank you architect
<Architect> now on either side of the third stair build a tower of six green blocks

```
<Builder> here?
<Architect> yeah
<Architect> then you want to connect those across on the same row as the
   sixth block
<Architect> beautiful art
<Builder> indeed it is
<Builder> are we finished?
<Architect> yessir
```

Chapter 10

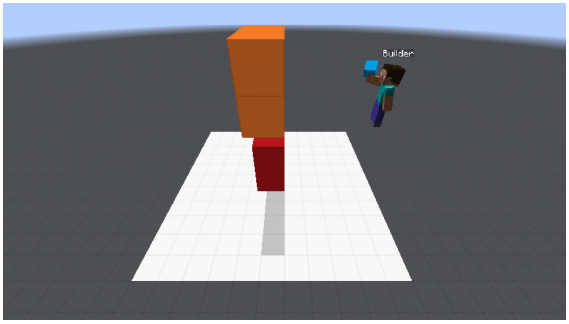
broken_heart (C11)

10.1 Gold Configuration

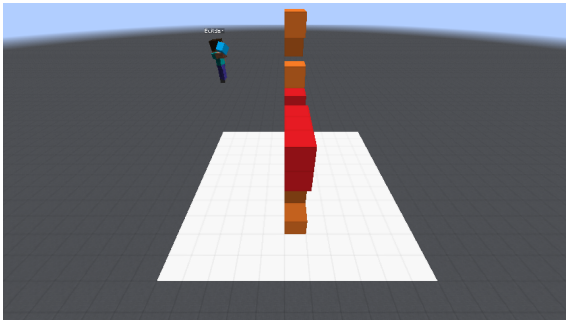


(a) FixedViewer1

(b) FixedViewer2



(c) FixedViewer3



(d) FixedViewer4

Figure 10.1: Gold configuration

10.2 Dialogue

<Builder> Mission has started.
<Builder> hello once again architect, my only friend and parent
<Builder> what are we building today?
<Architect> we are building a heart
<Builder> anatomical or figurative?
<Architect> figurative, it looks diseased as well
<Builder> oh my, well let's see what we can do about that
<Architect> ok start in the very center with one red block
<Architect> heart is perpendicular to the ground
<Architect> so we are going to need blue placeholders to the left and right of the base block
<Builder> like that?
<Architect> you got it
<Architect> do that twice more
<Architect> ok now you can get rid of the blue blocks
<Builder> ok
<Architect> build a red block on top of each of the top red blocks
<Architect> now build towards the center with two more red blocks per side
<Architect> put a placeholder block in between
<Architect> and then another red one below that
<Architect> yep
<Architect> ok time to build the disease
<Builder> i am ready
<Architect> switch to orange
<Architect> place an orange block to the right of the base red block with two spaces in between
<Architect> nice
<Architect> now put one diagonally above to the left of that orange block
<Architect> and then do it again
<Architect> yes actually
<Architect> ok there is like a floating l to the upper left so now we are going to build that
<Builder> ok
<Architect> put two blue blocks on top of the upper left orange block
<Architect> now put two orange blocks to the left
<Architect> and one under the second one
<Architect> now you can get rid of blue
<Architect> nice, that's it
<Builder> awesome