## MATH 121

(Day 4)

## Today's Topics

- Why Alberti's Method works
- Importance of viewer's distance from picture plane
- Alberti's diagonal check
- A variation on Alberti's Method


## Topic 1: Why Alberti's Method works

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Topic 2: Importance of the viewer's distance QP from the picture plane

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Paolo Uccello, c. 1466, Tempera on wood

From Assignment \#2:

$Q P$ is the viewer's distance from the picture plane

The importance of the viewer's distance QP from the picture plane


$$
\mathrm{QP}=8
$$

The importance of the viewer's distance QP from the picture plane

$\mathrm{QP}=7$

The importance of the viewer's distance QP from the picture plane

$\mathrm{QP}=6$

The importance of the viewer's distance QP from the picture plane

$\mathrm{QP}=5$

The importance of the viewer's distance QP from the picture plane


$$
\mathrm{QP}=4
$$

The importance of the viewer's distance QP from the picture plane


$$
\mathrm{QP}=3
$$

The importance of the viewer's distance QP from the picture plane


$$
\mathrm{QP}=2
$$

The importance of the viewer's distance QP from the picture plane


$$
\mathrm{QP}=1
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The importance of the viewer's distance QP from the picture plane

$\mathrm{QP}=5$


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$$
\mathrm{QP}=6
$$

The importance of the viewer's distance QP from the picture plane


The importance of the viewer's distance QP from the picture plane


## Rough rule of thumb:

Viewer's distance QP from picture plane should not be shorter than the diagonal of the picture plane.

## Topic 3: Alberti's Diagonal Check

(To check the accuracy of a drawing of a square tiled floor.)

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Top view


Perspective view


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To check that a perspective drawing of a square tiled region is correct, draw a diagonal from one corner to the other. It should cross the tiles at corners.

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Perspective circa 1490


Perspective circa 1490


Perspective circa 1490


Perspective circa 1490


Perspective circa 1490
Perspective circa 2014


Perspective circa 1490
Perspective circa 2014


Perspective circa 1490
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Perspective circa 2014


## Topic 4:

A variation on Alberti's Method
Viewer looks into a room with a square floor. How to draw what the viewer sees:


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Assignment \#3

