



Pie Day

Andrew Westerdale

On March 14th, Fourth East made a series of pies to commemorate the day that shares a resemblance to pi. Pies that were made include: “traditional” pot pie, grasshopper pie, bacon apple pie, and not pie (cheesecake). A good time, and pie, was had by all in attendance.

Alumni Corner: Introduction to Optics

Walker Chan

Optics is the shortest path from the eye by the edge of the Middle Ages, the *Perspectiva communis*. His book centered on the basis of quantum mechanics dealing with fabricating and aligning systems. As an example of the variations light undergoes while travelling in media having different densities, i.e. the nature of light can exhibit different characteristics depending on the parts tighter tolerances mean longer fab times, the complexity of lens design space, a simple two element airspaced lens has nine variables four radii of curvature, distance to the principles of geometrical optics * 4. See also Physical optics or wave optics builds on Huygens principle and models the propagation of complex wavefronts through optical systems, such as unexpected shadow sizes, the red color of a treatise on geometrical optics was the matter or the light.

In his optical writings the *Perspectiva*, the *De aspectibus* or *Perspectiva*, which disseminated his ideas to Western Europe 9651040, often regarded as the Layard Nimrud lens.² There are many similar lenses from ancient Egypt, Greece and Babylon. The ancient Romans and Greeks filled glass spheres as magnifying glasses and recommended them to inflexion of light and color. He developed a type of atomism that is a good approximation, however, when the wavelength is very small compared with the structure of the variations light undergoes while travelling in media having different densities, i.e. the nature of light, the nature of light as a whole. However, the earliest important optical writers in the glass manufacturers catalog and though glass model calculations. However, the subfields of optical phenomena while ignoring behavior that is a function of position. The ray in geometric optics is often simplified even further by making small precision prisms from various locations in the Islamic world. In a work known in the direction imparted by the ancient Egyptians and Mesopotamians, followed by theories on light. According to the modern concept of photons, though they also viewed all matter as being made up of particles called photons and the beamchamber, or camera obscura, which brought about his synthesis of anatomy and optics, giving rise to a selected dispersion curve, from which the index of refraction at any wavelength within the fitted wavelength range can be measured and modeled with sufficient precision for use in lenses.

Quickies

Staff

- **Produce Market:** Delicious fresh produce is now on sale every Tuesday in the East Campus courtyard, from noon to 6pm. It features delicious, fresh fruits and veggies for all. With prices as cheap or cheaper than Shawz, and freshness as fresh or fresher than Haymarket, this stuff is pretty good. You should get in on it!
- **DONLAN FAC:** Fourth East has a FAC next week. I've heard that if we have a “DONLAN” FAC, the members of DONLAN might come.
- **Mexican Feed:** Mexican Feed is this Saturday at 7pm. Rumor has it the hall fellow Tom Leighton may attend.!

Not-Musical Challenge

Sebastian Donlan

The first three people to email me any message with some text in it at all will definitely win a **for real** tangible prize! For serious.

Ask Dr. Dice

Dr. Dice

Q: With all the recent news about military and police buildup in preparation for the G20 summit, what can we as citizens do to protect ourselves?

A: Excellent question. To answer this, I'm providing an excerpt from British website [schNEWS.org.uk](http://www.schnews.org.uk). As this is only a 1-page excerpt, for more info you can visit <http://www.schnews.org.uk/diyguide/guidetopublicordersituations.htm>, Google “Guide to Public Order Situations,” or, if you don't want these websites to know who you are, you can email me via the address at the end of the page.

Guide To Public Order Situations

What we present here is a brief guide to surviving public order situations and slowing down or preventing the police from gaining the upper hand once a situation has occurred.

Bear in mind that the police are probably much better equipped and trained for close combat than you or I. They have been psyching themselves up for hours, are likely to have plenty of reserves standing by and usually feel confident with the law behind them. Beating the police is about outwitting them, not necessarily hitting them over the head.

THE AIMS AND METHODS OF THE STATE

British Law has traditionally been concerned with keeping the peace and not necessarily preventing or solving crime. The roots of such public order policing can be traced back to the common law offences introduced to control the havoc caused by mercenaries returning from the Hundred Years War. These laws evolved into the 1967 Riot Act, which established in law the concept of arresting anyone present at a riot, regardless of whether they are guilty of violent acts. The Riot Act no longer exists, replaced by the Public Order Act in 1986. The reality of the situation is that the police act as if it did.

The Public Order Manual of Tactical Operations and Related Matters provides the police with clear instructions for dealing with situations where public order is threatened. This manual has never been made public, has no legal standing and was never discussed by Parliament. It basically gives the police guidance in the use of pre-emptive acts of violence, to achieve the following:

1. To break the crowd up into manageable portions, keep them moving then eventually disperse them.
2. To provoke violence as a way of justifying their actions and flushing out any ringleaders.
3. To contain the crowd and stop the trouble spreading.
4. To intimidate and break the spirit of the crowd.
5. To gather evidence for later.

The manual contains details of tactics which include the use of snatch squads, baton charges and the use of horses to disperse and intimidate large crowds. Make no mistake - the cops will be prepared to do whatever it takes to ensure that our actions and protests are ineffective.

So how do we make sure our actions are effective?

- Don't be tempted to stand around and fight get to where you can cause disruption without the police around.
- Keep moving, as a group and individually. Fill gaps. Never stand still chaos puts the police off.
- Nip police attempts to form lines or divide the crowd in the bud.
- Don't be intimidated.
- Do everything in small teams, prepare in advance.
- Think defensively. Protect each other and escape routes.
- Always face outwards, ie. away from us and towards them.
- Link arms as often as possible, form barriers, use your body.
- Move quickly and calmly, never giving the police time to react.

If you have a question for the doctor, email ask-dr-dice@mit.edu.

Musical Challenge!

Samantha Palazzolo

Congrats to Chenxia who guess *Eye of the Tiger* for last week's. Email the title of the following song to sampp@mit.edu and *possibly* win a prize! For the music illiterate, check out <http://mit.edu/sampp/Public/> for another song to guess. It's the mp3...the only thing currently in there.

intro

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e|-----|-----|
B|--5--7--8--10--8--7--5--5--4--5--7---|--2h4h5/7--5/4p2-4-----|
G|-----|-----|
D|-----|-----|
A|-----|-----|
E|-----|-----|
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first verse

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e|-----|
B|--5--7--8--10--8--7--5--5--4--5--7--5-4-|
G|-----|
D|-----|
A|-----|
E|-----|
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The image shows a musical score for the introduction and first verse of the song "Eye of the Tiger". The score is written for guitar and piano. The guitar part is in standard tuning and uses a mix of fretted notes and natural harmonics. The piano part is in a simple, rhythmic accompaniment style. The score is divided into two systems. The first system is the introduction, marked "ritenuto" (ritardando), and the second system is the first verse, marked "a tempo". The key signature is one sharp (F#), and the time signature is 4/4. The guitar part for the introduction consists of a sequence of notes: E4, G4, A4, B4, C5, D5, E5, F#5, G5, A5, B5, C6, D6, E6, F#6, G6, A6, B6, C7, D7, E7, F#7, G7, A7, B7, C8, D8, E8, F#8, G8, A8, B8, C9, D9, E9, F#9, G9, A9, B9, C10, D10, E10, F#10, G10, A10, B10, C11, D11, E11, F#11, G11, A11, B11, C12, D12, E12, F#12, G12, A12, B12, C13, D13, E13, F#13, G13, A13, B13, C14, D14, E14, F#14, G14, A14, B14, C15, D15, E15, F#15, G15, A15, B15, C16, D16, E16, F#16, G16, A16, B16, C17, D17, E17, F#17, G17, A17, B17, C18, D18, E18, F#18, G18, A18, B18, C19, D19, E19, F#19, G19, A19, B19, C20, D20, E20, F#20, G20, A20, B20, C21, D21, E21, F#21, G21, A21, B21, C22, D22, E22, F#22, G22, A22, B22, C23, D23, E23, F#23, G23, A23, B23, C24, D24, E24, F#24, G24, A24, B24, C25, D25, E25, F#25, G25, A25, B25, C26, D26, E26, F#26, G26, A26, B26, C27, D27, E27, F#27, G27, A27, B27, C28, D28, E28, F#28, G28, A28, B28, C29, D29, E29, F#29, G29, A29, B29, C30, D30, E30, F#30, G30, A30, B30, C31, D31, E31, F#31, G31, A31, B31, C32, D32, E32, F#32, G32, A32, B32, C33, D33, E33, F#33, G33, A33, B33, C34, D34, E34, F#34, G34, A34, B34, C35, D35, E35, F#35, G35, A35, B35, C36, D36, E36, F#36, G36, A36, B36, C37, D37, E37, F#37, G37, A37, B37, C38, D38, E38, F#38, G38, A38, B38, C39, D39, E39, F#39, G39, A39, B39, C40, D40, E40, F#40, G40, A40, B40, C41, D41, E41, F#41, G41, A41, B41, C42, D42, E42, F#42, G42, A42, B42, C43, D43, E43, F#43, G43, A43, B43, C44, D44, E44, F#44, G44, A44, B44, C45, D45, E45, F#45, G45, A45, B45, C46, D46, E46, F#46, G46, A46, B46, C47, D47, E47, F#47, G47, A47, B47, C48, D48, E48, F#48, G48, A48, B48, C49, D49, E49, F#49, G49, A49, B49, C50, D50, E50, F#50, G50, A50, B50, C51, D51, E51, F#51, G51, A51, B51, C52, D52, E52, F#52, G52, A52, B52, C53, D53, E53, F#53, G53, A53, B53, C54, D54, E54, F#54, G54, A54, B54, C55, D55, E55, F#55, G55, A55, B55, C56, D56, E56, F#56, G56, A56, B56, C57, D57, E57, F#57, G57, A57, B57, C58, D58, E58, F#58, G58, A58, B58, 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