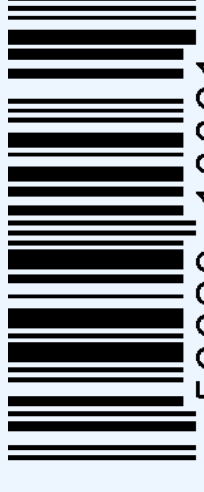


TRAJEET

2013 05. ISSUE #42 (5.99\$ CAN)



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Lamborghini... buy one

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Bergman
GRAPHICS

DAVID BERGMAN
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STAR WARS FACT



STARWARS IS
THE BEST SE-
RIES OF MOV-
IES MADE.
FACT.

THEY ARE MAK-
ING ANOTHER
BLADE RUNNER,
BUT THAT'S
DUMB.

... LET THE
SILVER ORIGAMI
UNI-
CORN BE THE
END.





Mountain Biking

dirt + speed = fun





Bikes biking handlebars
brakes dirt gears clip-
less pedals derail-
er seat shocks.

Bikes bik-
ing
han-
dlebars

brakes dirt
gears clipless pedals
derailer seat shocks. Bikes

biking handlebars brakes dirt gears
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Bikes biking handlebars brakes dirt gears clipless pedals derailer
seat shocks. v Bazinga! |



To do much clear thinking a person must arrange for regular periods of solitude when they can concentrate and indulge the imagination without distraction. - Thomas A Edison

Think of your faults the first part of the night when you are awake, and the faults of others the latter part of the night when you are asleep. - Chinese Proverb

"Design can be art. Design can be aesthetics. Design is so simple, that is why it is so complicated."
- Paul Rand, American Graphic Designer

The difference between impossible and the possible lies in a person's determination. - Tommy Lasorda

Ignorant men raise questions that wise men answered a thousand years ago. - Johann Wolfgang von Goethe

Good advice is desired advice. - Anon

The more a man knows, the less he talks. - Anon

If you can't see a light at the end of the tunnel, you're in the wrong tunnel. - Scott E. Roeben

Better to light a candle than to curse the darkness. - Chinese Proverb

A wise man sees more from the bottom of a well than a fool from a mountain top. - Chinese Proverb

Your worth consists in what you are and not in what you have. - Thomas A Edison

Fear less, hope more; eat less, chew more; whine less, breathe more; talk less, say more; hate less, love more; and all good things are yours. - Swedish Proverb

You are a fluke of the universe. You have no right to be here, and whether you can hear it or not, the universe is laughing behind your back. - National Lampoon



wizdumps

I'm killing time while I wait for life to shower me with meaning and happiness.
- Calvin



try to remain calm



Canada Goose Gliding

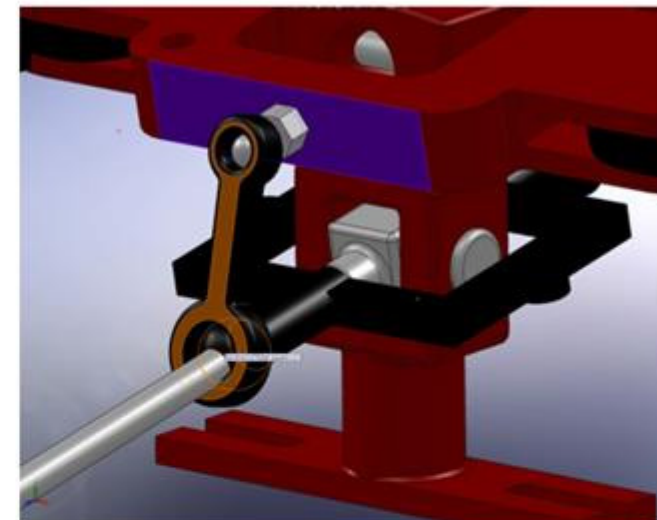
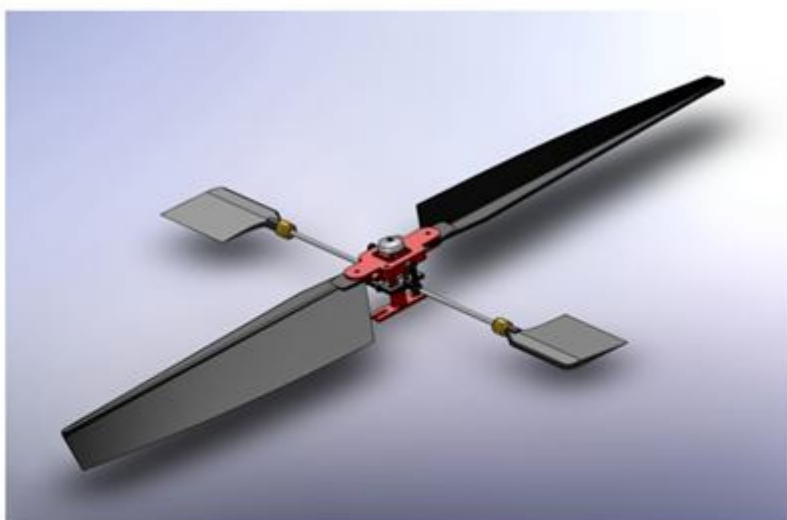
Super-Deformed
BMW M3



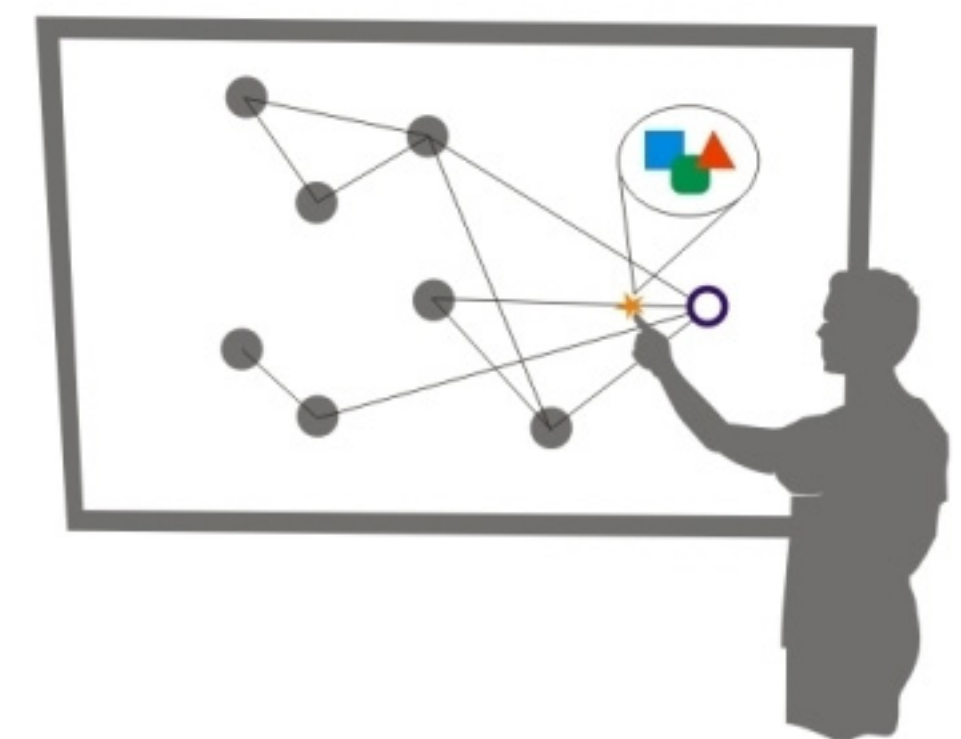
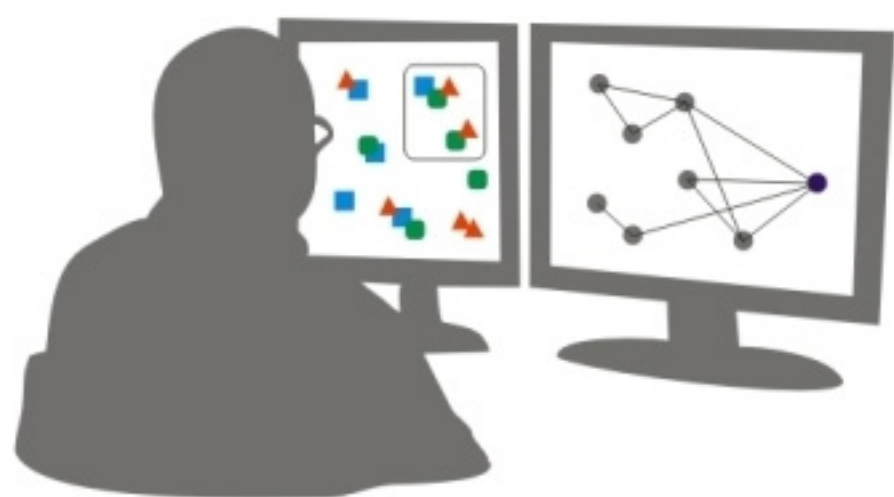
SFU SIAT GSU
winning design



Sun Wind Water Mountains



Walkera Helicopter Rotor
Assembly



Collaboration X3



Griffin Etching



Watering Can



Maple Leaf



Sandstone



Flowing Suspended Copper

SIMON FRASER UNIVERSITY SURREY
School of Interactive Arts and Technology

Wide-Span MCI[†]
David Steffen Bergman, Belgacem Ben Youssef, Jim Bizzocchi
(dbergman, bbennyous, jimbzoc)@sfu.ca

Wide-Span Motion Compensated Interpolation (MCI) uses Motion Estimation (ME) followed by Motion Compensated Interpolation (MCI) to create new frames for frames over up-sampling and slow motion video. Both ME and MCI are fundamental portions in digital video processing and have been the subject of much research. Furthermore, image plane motion estimation is an integral part of motion compensated drawing and compression (eg. MPEG-2).

We have developed a novel algorithm for motion estimation and compensation. This novel algorithm works in a novel way: it uses a novel motion estimation method that uses a novel motion estimation method to find the motion vectors. Although previous MCI methods used a block-based motion estimation method, our method uses a novel motion estimation method that uses a novel motion estimation method to find the motion vectors. The effectiveness of our MCI algorithm will be demonstrated in the experimental results presented in this paper.

A novel method of motion estimation is used to find the motion vectors of a scene. This method is used to find the motion vectors of a scene. This method is used to find the motion vectors of a scene. This method is used to find the motion vectors of a scene.

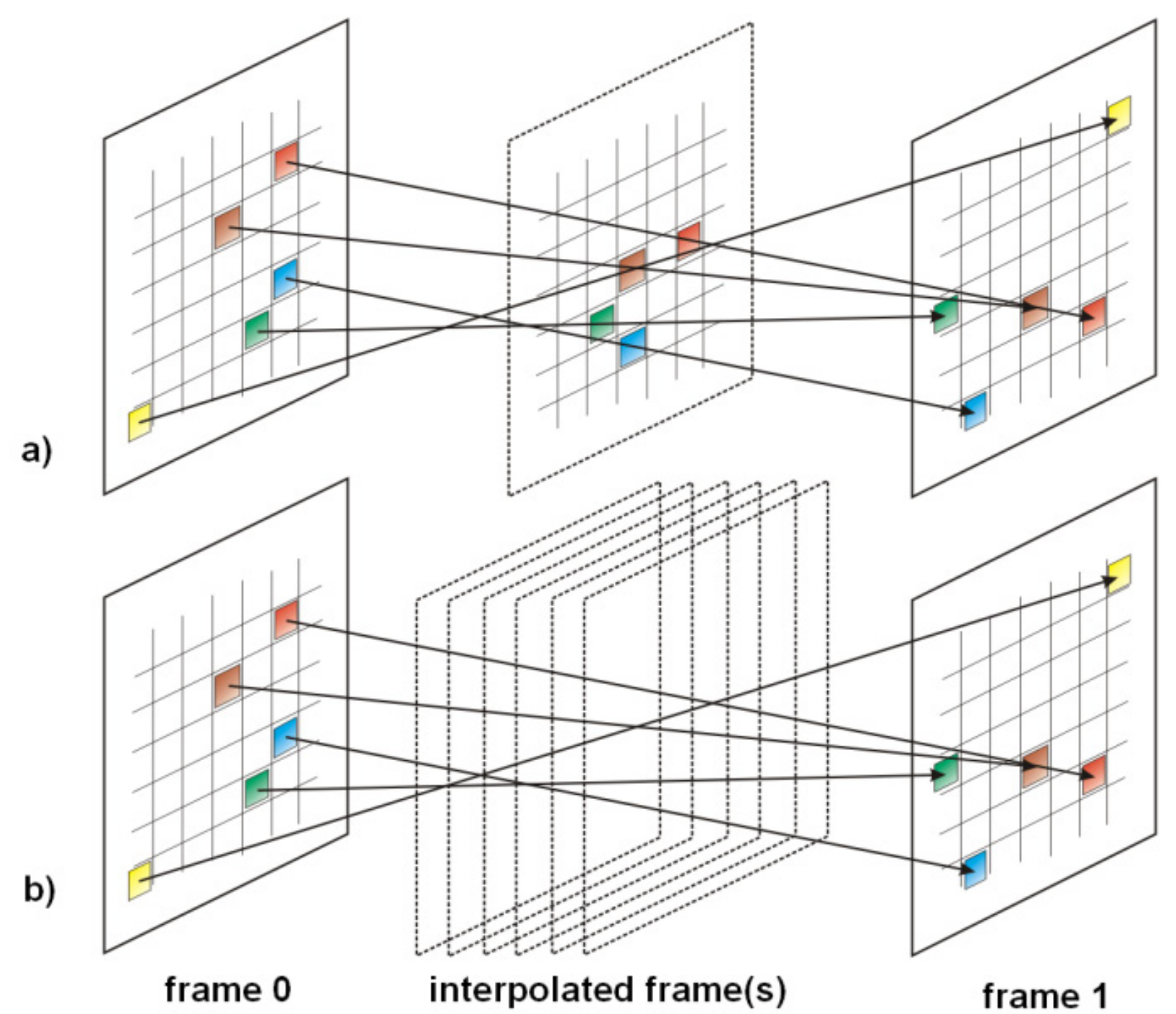
Experimental and statistical analysis shows a reproducible and significant advantage of WS-MCI over MCI. For the reason, WS-MCI should be considered as part of an open source computer algorithm to produce better motion estimation and subsequently higher quality compressed frames.

Future Work
Ultimately, we would like to apply WS-MCI to High Definition TV (HDTV) signals. These signals present many challenges in terms of motion compensated interpolation: millions of pixels per frame, high colour precision, and accuracy (eg. 1080i-50 for interlaced). In addition to these technical issues, HDTV has a wider aspect ratio than regular HDTV. This means that more motion per frame is expected than for the standard video ratios in broadcast.

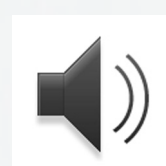
Other future studies will investigate how well WS-MCI deals with non-linear motion, colour gradient, etc. and how well it handles motion blur.

References
[1] B. Chagnon and E. Frazee, "Region-based Motion Detection for Computerized Video Coding and Subsequent MPEG-2/3D Compression and Image Processing," vol. 487, pp. 814-821, 2005.
[2] B. Chagnon and E. Frazee, "Motion Compensated Interpolation for Improved Video Motion," *Image Processing and Pattern Recognition*, pp. 171-176, 1999.
[3] M. Spong, *Digital Video Processing*. Prentice Hall Inc., John Wiley, USA, 1995.
[4] W. Sun, Y. Kwon, G. Shi, and Y. Zhou, "Analysis of Super-Resolution Characteristics of Motion Compensated Frame Interpolation," *International Conference on Image Processing*, vol. 3, pp. 115-119, 2000.

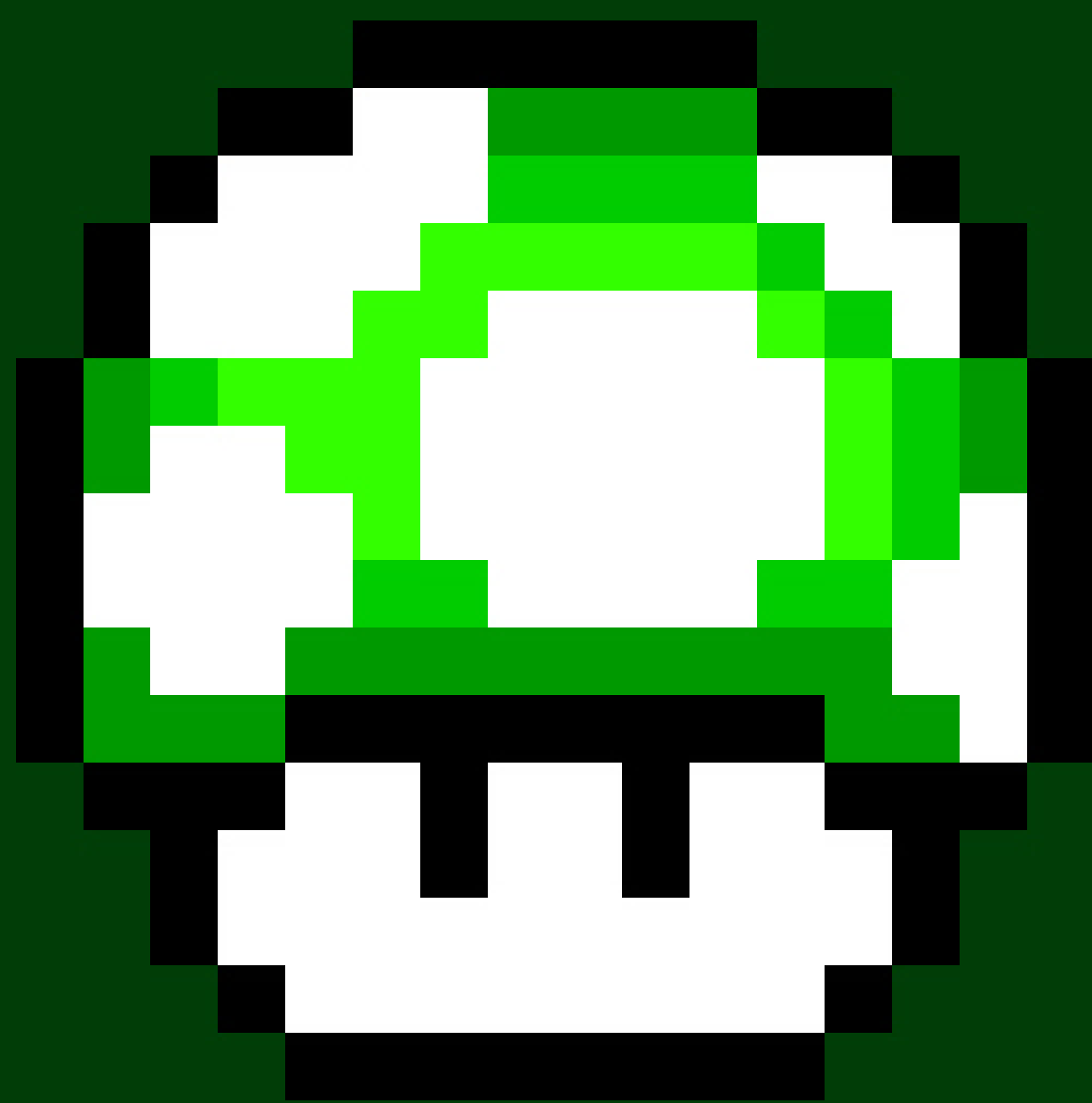
[†] Submitted to the 2008 IEEE International Conference on Multimedia and Expo (ICME 2008), June 8-12 2008, Toronto, Canada.
[‡] This work is funded by the Social Sciences and Humanities Research Council (SSHRC) of Canada through a Research Development Initiative grant under project number 410-964-0764.



Wide-Span Motion Compensated Interpolation poster + concept figure



SUPER MARIO FACT



MUSHROOMS ARE
GOOD FOR YOU,
BUT THEY DON'T
GIVE YOU AN
EXTRA LIFE.
FACT.

MARK-CREST Ready-to-Bake 2" Semi-Sweet Tart Shells
Prêtes à Cuire 2" Croûtes à Tartelette Mi-Sucrées



INGREDIENTS: ENRICHED WHEAT FLOUR, CANOLA, MODIFIED PALM AND PALM OIL, SHORTENING, WATER, DEXTROSE, CORN FLOUR, CORN STARCH, SUGAR, SALT, SODIUM PROPIONATE, SOYA LECITHIN, PROTEASE ENZYME. PRODUCT CONTAINS WHEAT AND SOY.

INGRÉDIENT: FARINE DE BLÉ ENRICHIE, MATIÈRE GRASSE D'HUILE DE CANOLA, HUILE DE PALME MODIFIÉE ET HUILE DE PALME, EAU, DEXTROSE, FARINE DE MAÏS, FÉCULE DE MAÏS, SUCRE, SEL, PROPIONATE DE SODIUM, LÉCITHINE DE SOJA, ENZYME PROTÉASE. LE PRODUIT CONTIENT DU BLÉ ET DU SOJA.

BAKING INSTRUCTIONS: PRE-HEAT OVEN TO 375°F. FILL TART SHELLS WITH FILLING. BAKE TO GOLDEN BROWN COLOUR.

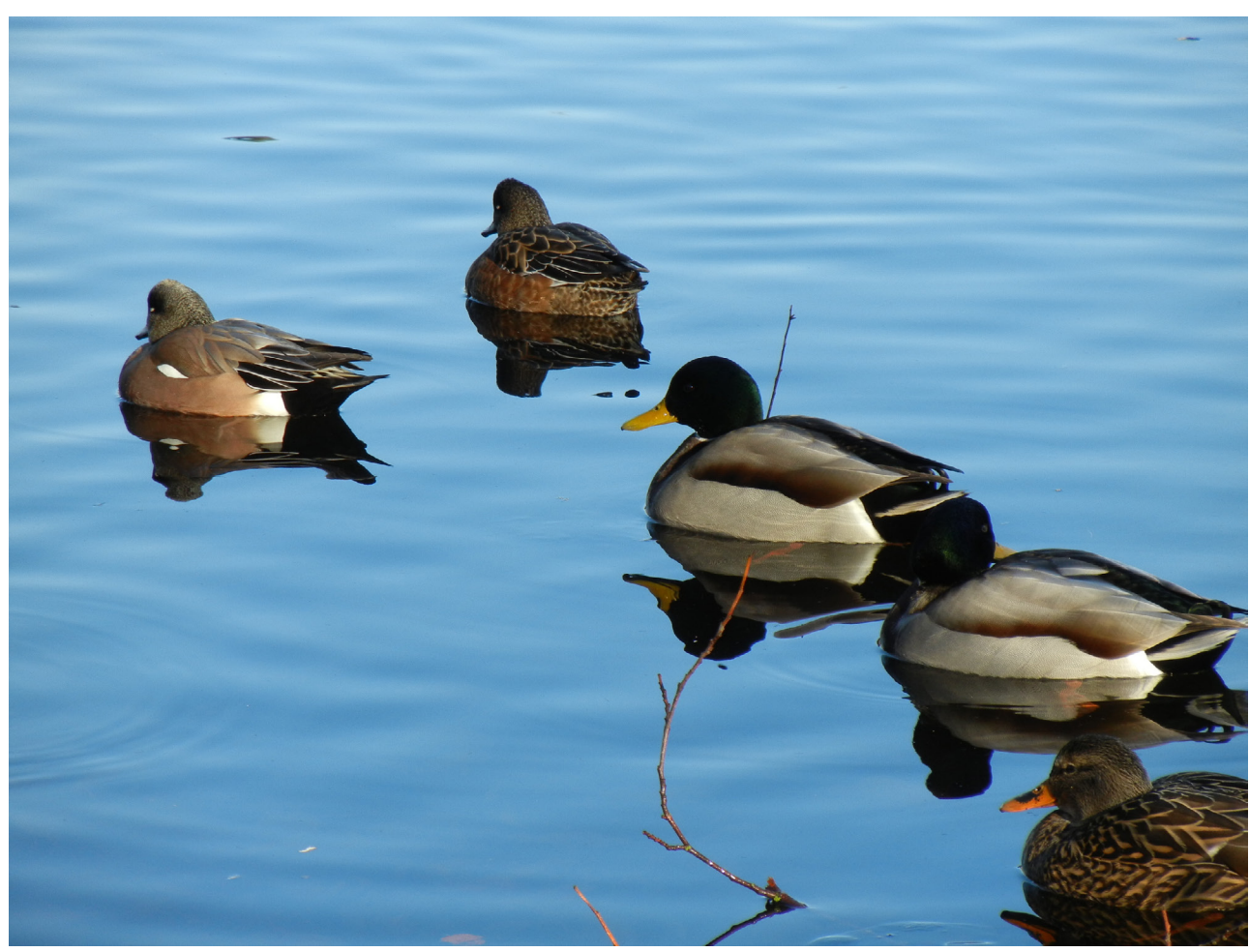
INSTRUCTIONS DE CUISON: PRÉ-CHAUFFER LE FOUR À 375°F. REMPLIR LES TARTELETTES DE LA GARNITURE. CUIRE AU FOUR À COULEUR BRUN DORÉ.

375°F

24 Tart Shells | 408 g | Keep Frozen / Garder Congelé
Suggested Serving / Présentation Suggérée

Nutrition Facts
Valeur nutritive
Serving Size Per Piece (17 g)
Portion Par Morceau (17 g)

| Amount Teneur | % Daily Value % valeur quotidienne |
|---------------------------------------|------------------------------------|
| Calories / Calories 80 | |
| Fat / Lipides 4.5 g | 7 % |
| Saturated / saturés 1.5 g | 8 % |
| + Trans / trans 0 g | |
| Cholesterol / Cholestérol 0 mg | 0 % |
| Sodium / Sodium 25 mg | 1 % |
| Carbohydrate / Glucides 9 g | 3 % |
| Fibre / Fibres 0 g | 0 % |
| Sugars / Sucres 2 g | |
| Protein / Protéines 1 g | |
| Vitamin A / Vitamine A | 0 % |
| Vitamin C / Vitamine C | 0 % |
| Calcium / Calcium | 0 % |
| Iron / Fer | 2 % |



Ducks In Winter

MARK-CREST Ready-to-Bake 2" Sweet Tart Shells
Prêtes à Cuire 2" Croûtes à Tartelette Sucrées



INGREDIENTS: ENRICHED WHEAT FLOUR, CANOLA, MODIFIED PALM AND PALM OIL, SHORTENING, SUGAR, WATER, INVERT SUGAR, LIQUID WHOLE EGGS, WHEY POWDER, SALT, SODIUM PROPIONATE, COLOURING, ARTIFICIAL AND NATURAL FLAVOUR. PRODUCT CONTAINS WHEAT, MILK, AND EGGS.

INGRÉDIENT: FARINE DE BLÉ ENRICHIE, MATIÈRE GRASSE D'HUILE DE CANOLA, HUILE DE PALME MODIFIÉE ET HUILE DE PALME, SUCRE, EAU, SUCRE INVERTI, ŒUFS ENTIERS LIQUIDES, POUDRE DE LACTOSÉRUM, SEL, PROPIONATE DE SODIUM, COLORANT ARTIFICIEL, ARÔME ARTIFICIEL ET NATUREL. LE PRODUIT CONTIENT DU BLÉ, DU LAIT ET DES ŒUFS.

BAKING INSTRUCTIONS: PRE-HEAT OVEN TO 375°F. FILL TART SHELLS WITH FILLING. BAKE TO GOLDEN BROWN COLOUR.

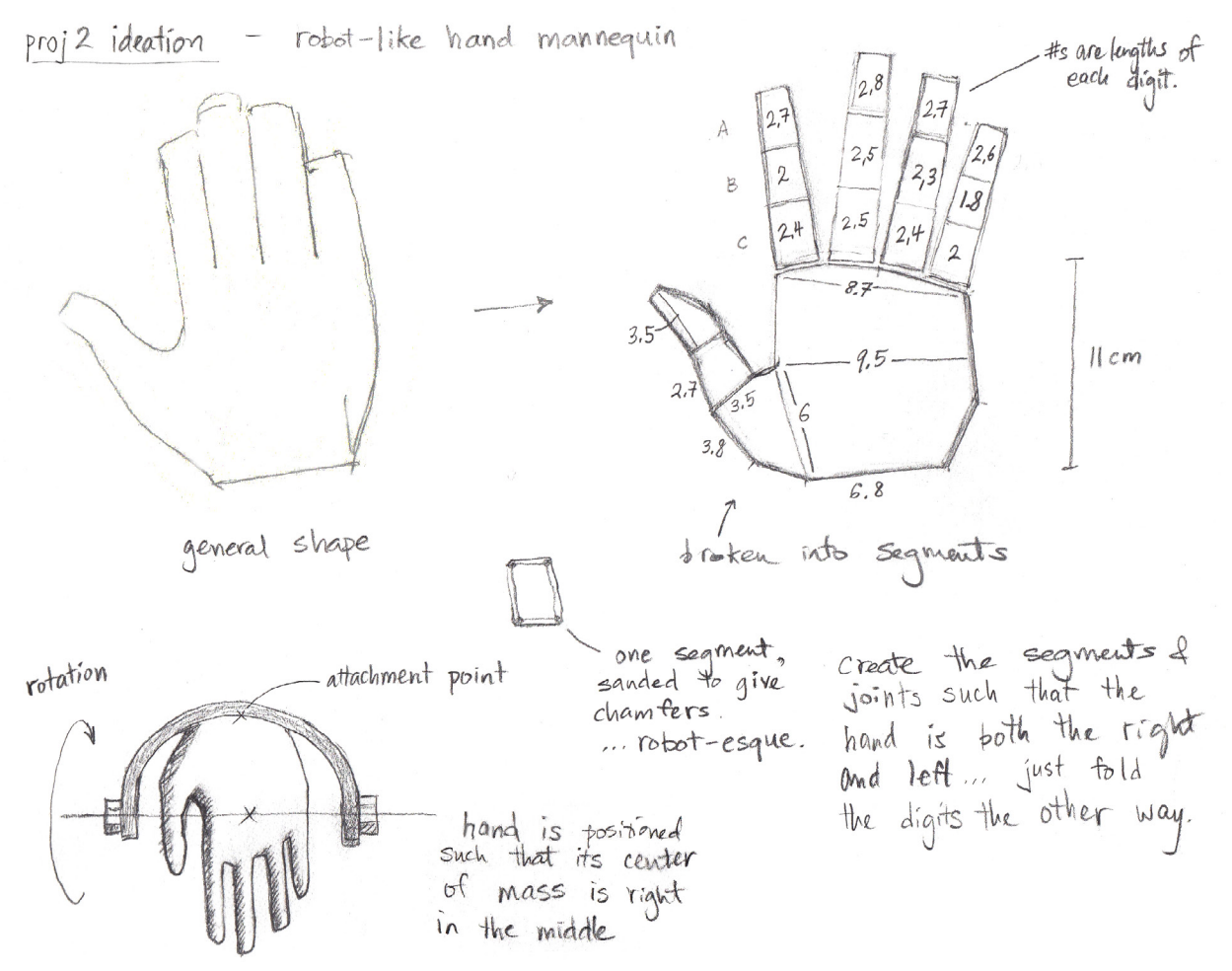
INSTRUCTIONS DE CUISON: PRÉ-CHAUFFER LE FOUR À 375°F. REMPLIR LES TARTELETTES DE LA GARNITURE. CUIRE AU FOUR À COULEUR BRUN DORÉ.

375°F

24 Tart Shells | 408 g | Keep Frozen / Garder Congelé
Suggested Serving / Présentation Suggérée

Nutrition Facts
Valeur nutritive
Serving Size Per Piece (17 g)
Portion Par Morceau (17 g)

| Amount Teneur | % Daily Value % valeur quotidienne |
|---------------------------------------|------------------------------------|
| Calories / Calories 80 | |
| Fat / Lipides 4.5 g | 7 % |
| Saturated Fat / Lipides saturés 1.5 g | 8 % |
| + Trans Fat / lipides trans 0 g | |
| Cholesterol / Cholestérol 0 mg | 0 % |
| Sodium / Sodium 10 mg | 1 % |
| Carbohydrate / Glucides 9 g | 3 % |
| Fibre / Fibres 0 g | 0 % |
| Sugars / Sucres 4 g | |
| Protein / Protéines 1 g | |
| Vitamin A / Vitamine A | 0 % |
| Vitamin C / Vitamine C | 0 % |
| Calcium / Calcium | 0 % |
| Iron / Fer | 2 % |



MARK-CREST Ready-to-Bake 2" Non-Sweet Tart Shells
Prêtes à Cuire 2" Croûtes à Tartelette Non-Sucrées



INGREDIENTS: ENRICHED WHEAT FLOUR, CANOLA, MODIFIED PALM AND PALM OIL, SHORTENING, WATER, INVERT SUGAR, LIQUID WHOLE EGGS, WHEY POWDER, SALT, SODIUM PROPIONATE, COLOURING, ARTIFICIAL AND NATURAL FLAVOUR. PRODUCT CONTAINS WHEAT, MILK, AND EGGS.

INGRÉDIENT: FARINE DE BLÉ ENRICHIE, MATIÈRE GRASSE D'HUILE DE CANOLA, HUILE DE PALME MODIFIÉE ET HUILE DE PALME, SUCRE, EAU, SUCRE INVERTI, ŒUFS ENTIERS LIQUIDES, POUDRE DE LACTOSÉRUM, SEL, PROPIONATE DE SODIUM, COLORANT ARTIFICIEL, ARÔME ARTIFICIEL ET NATUREL. LE PRODUIT CONTIENT DU BLÉ, DU LAIT ET DES ŒUFS.

BAKING INSTRUCTIONS: PRE-HEAT OVEN TO 375°F. FILL TART SHELLS WITH FILLING. BAKE TO GOLDEN BROWN COLOUR.

INSTRUCTIONS DE CUISON: PRÉ-CHAUFFER LE FOUR À 375°F. REMPLIR LES TARTELETTES DE LA GARNITURE. CUIRE AU FOUR À COULEUR BRUN DORÉ.

375°F

24 Tart Shells | 408 g | Keep Frozen / Garder Congelé
Suggested Serving / Présentation Suggérée

Nutrition Facts
Valeur nutritive
Serving Size Per Piece (17 g)
Portion Par Morceau (17 g)

| Amount Teneur | % Daily Value % valeur quotidienne |
|---------------------------------------|------------------------------------|
| Calories / Calories 80 | |
| Fat / Lipides 4.5 g | 7 % |
| Saturated / saturés 1.5 g | 8 % |
| + Trans / trans 0 g | |
| Cholesterol / Cholestérol 0 mg | 0 % |
| Sodium / Sodium 55 mg | 2 % |
| Carbohydrate / Glucides 8 g | 3 % |
| Fibre / Fibres 0 g | 0 % |
| Sugars / Sucres 1 g | |
| Protein / Protéines 1 g | |
| Vitamin A / Vitamine A | 0 % |
| Vitamin C / Vitamine C | 0 % |
| Calcium / Calcium | 0 % |
| Iron / Fer | 2 % |

2" Tart Shell Label Designs

Hand mannequin design process



Forest Sprite



sewage manhole cover design

- humpback whale
- + bubbles
- + ripples
- + Canada goose
- + moon
- + stars



It's designed to look like an abstract Biohazard symbol so it's easy for city workers to tell what kind of pipes are below, but it still looks like a nice picture to everyone else. The maple leaf is floating on the surface of the water.



... showing just the lines with the template



storm manhole cover design

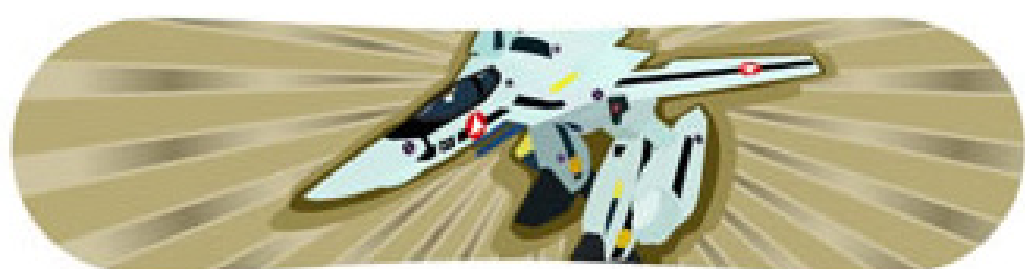
- killer whale
- + sockeye salmon
- + bald eagle
- + wind
- + bubbles
- + sun



It's designed to contain many water droplet shapes so it's easy for city workers to tell what the pipes contains below, but it still looks like a nice picture to everyone else. The maple leaf forms the bottom of the killer whale's tail.



... showing just the lines with the template



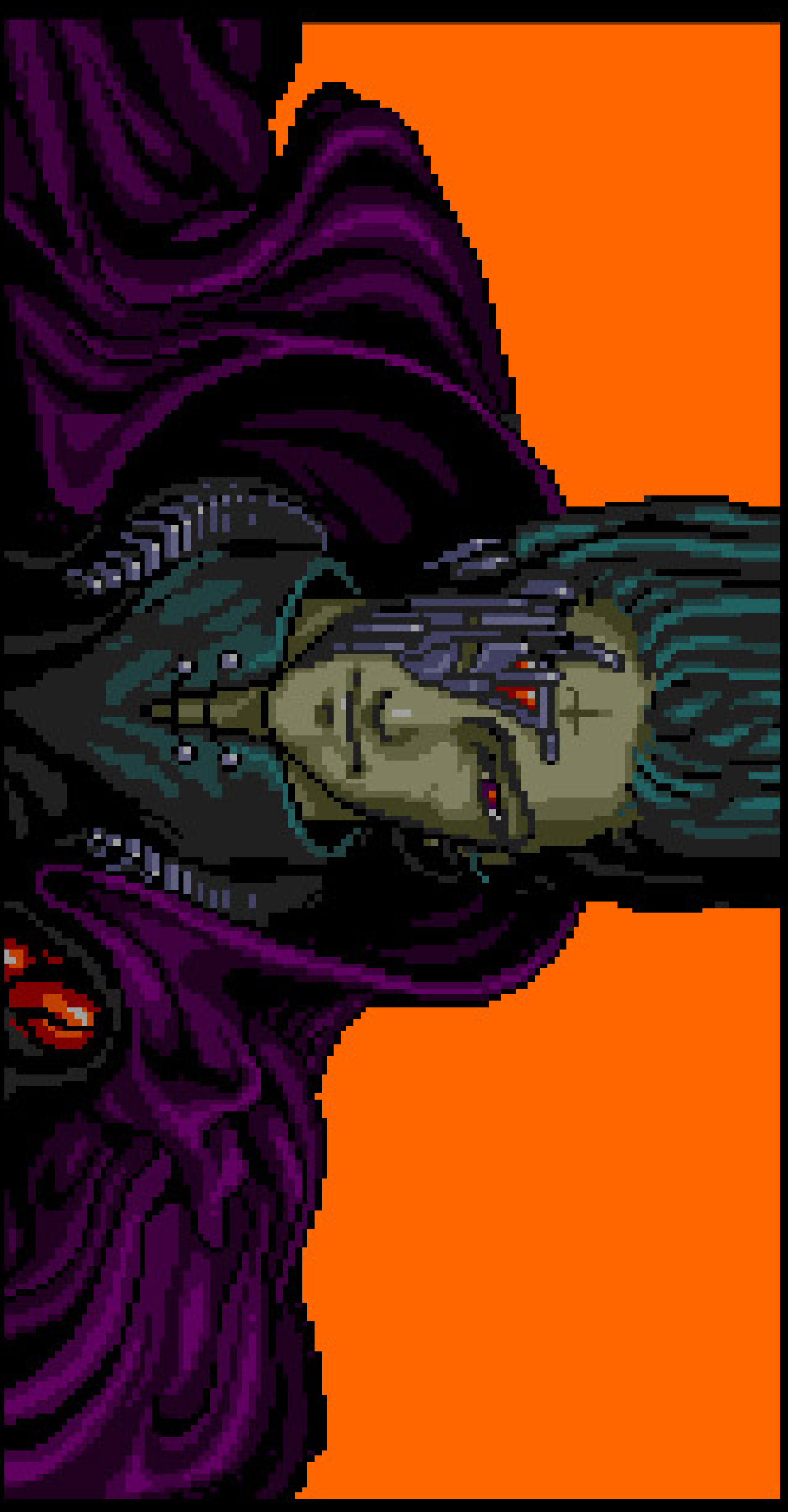
Copyright © 2013 David Bergman

Macross (Robotech)
Veritech Guardian
Design and applications

Vancouver Sewer Cover Designs



CATS : HOW ARE YOU GENTLEMEN ??



CATS : ALL YOUR BASE ARE BELONG
TO US.



CATS : YOU ARE ON THE WAY TO
DESTRUCTION.



CATS : YOU HAVE NO CHANCE TO
SURVIVE MAKE YOUR TIME.



non sekwiter

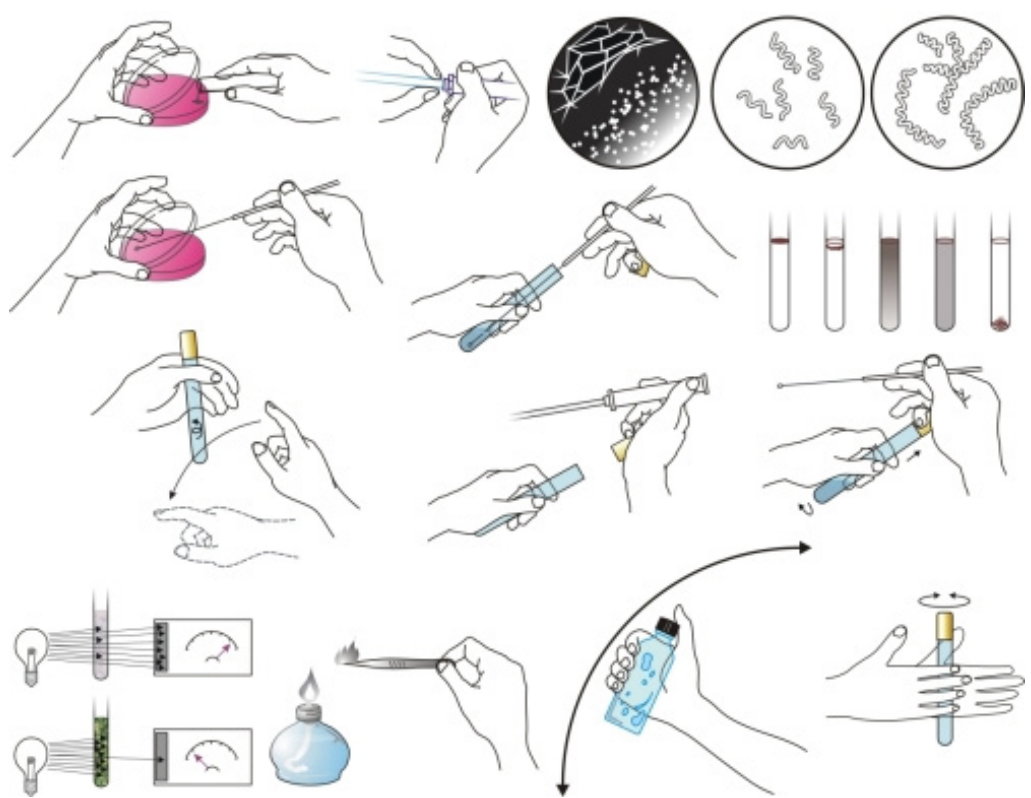


Ultimate Iron Man

Super-Deformed
Lamborghini Gallardo



Inspector



Microbiology Lab
Manual Figures



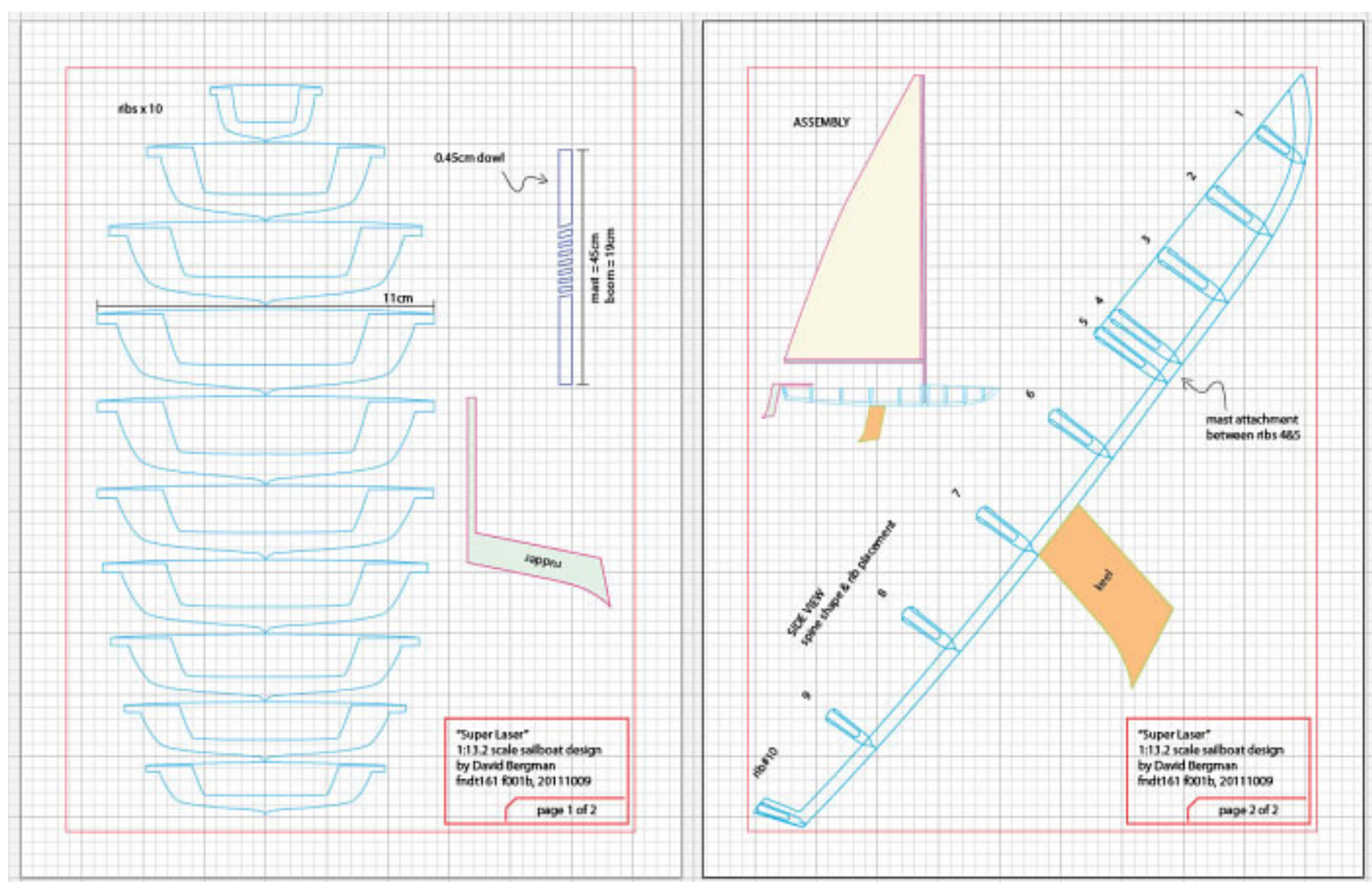
Left Hand



Robin



Naruto Sketch



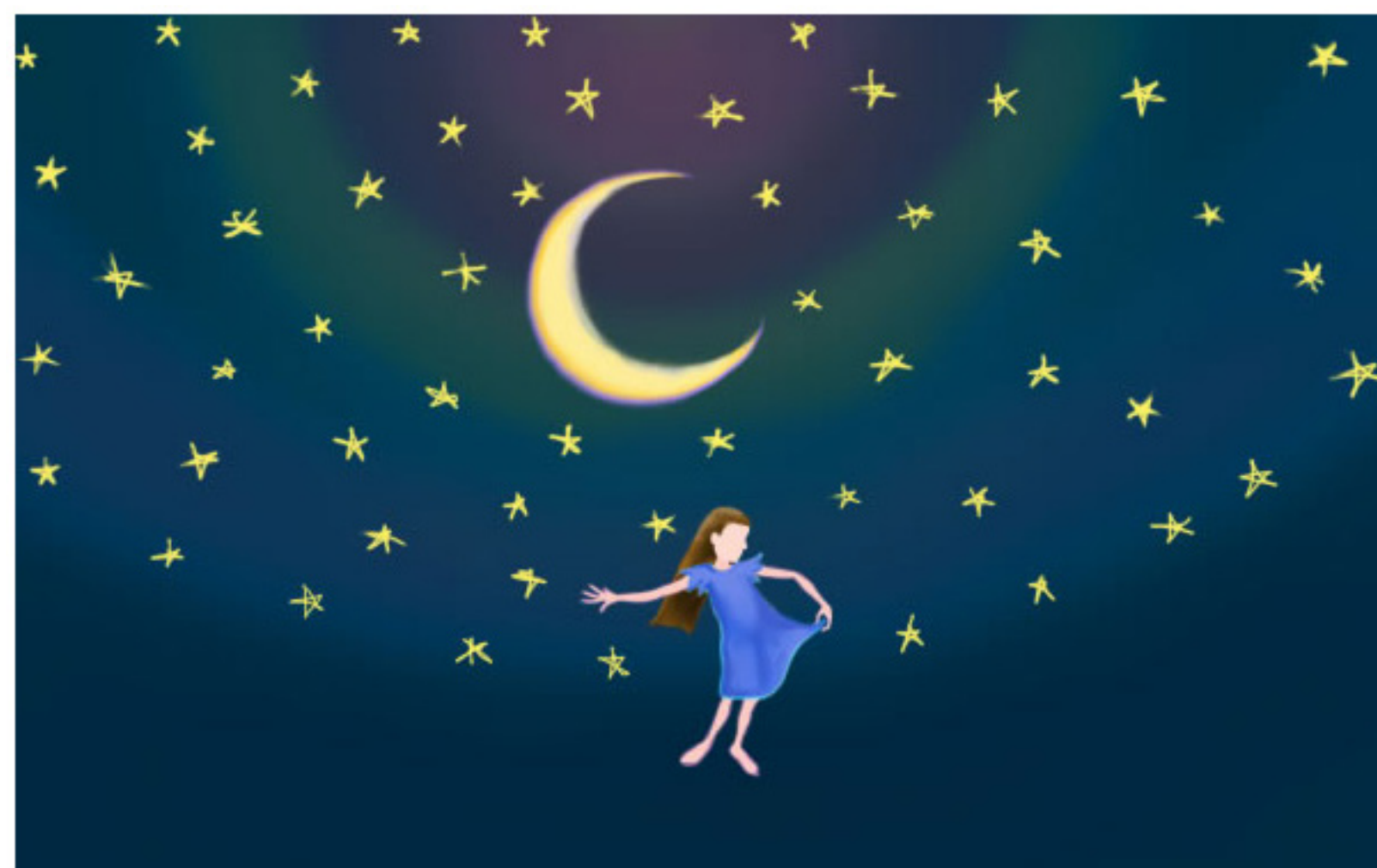
Sailboat Scale Plans



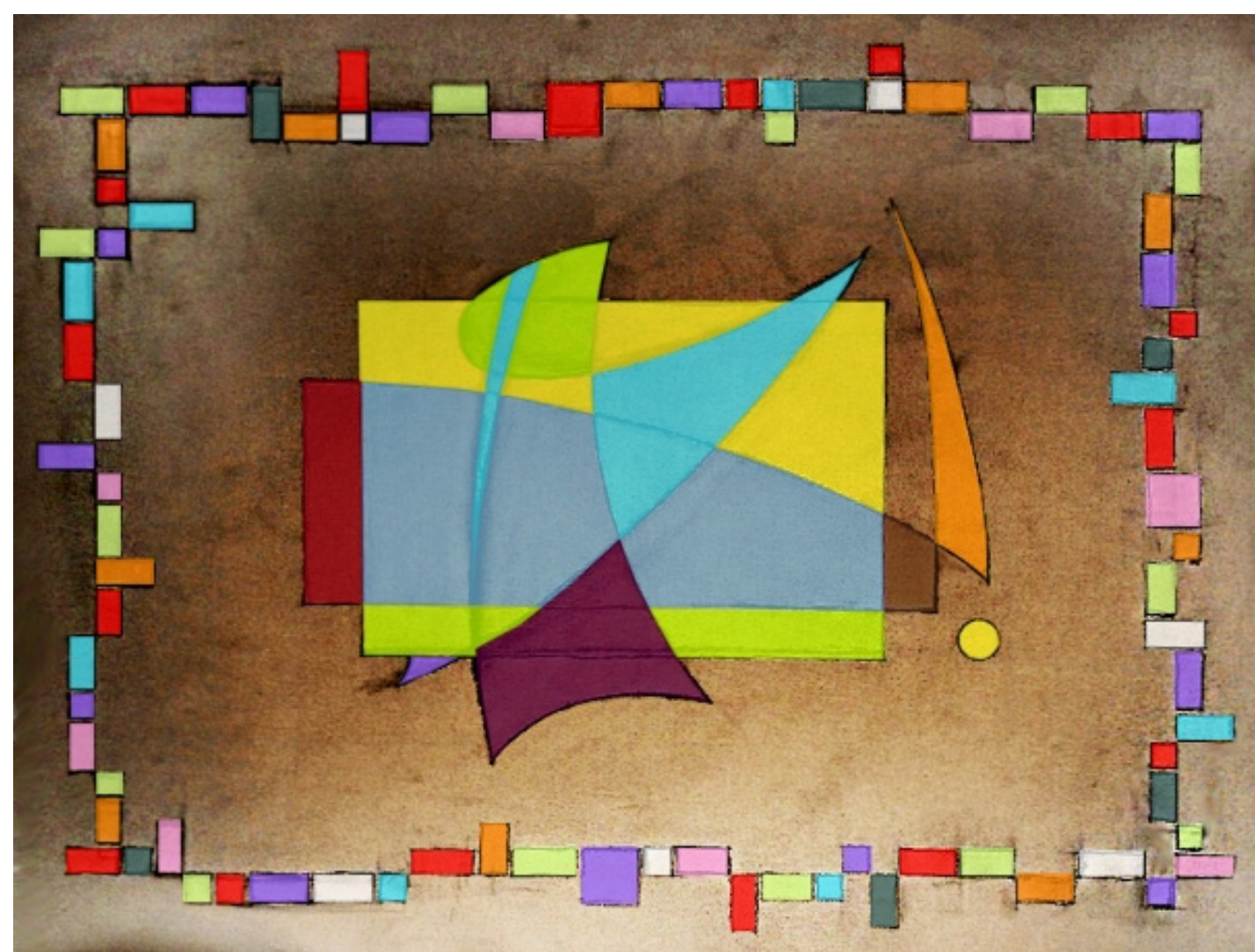
Ryu Hadouken Fightstick Design



Griffin In Flight



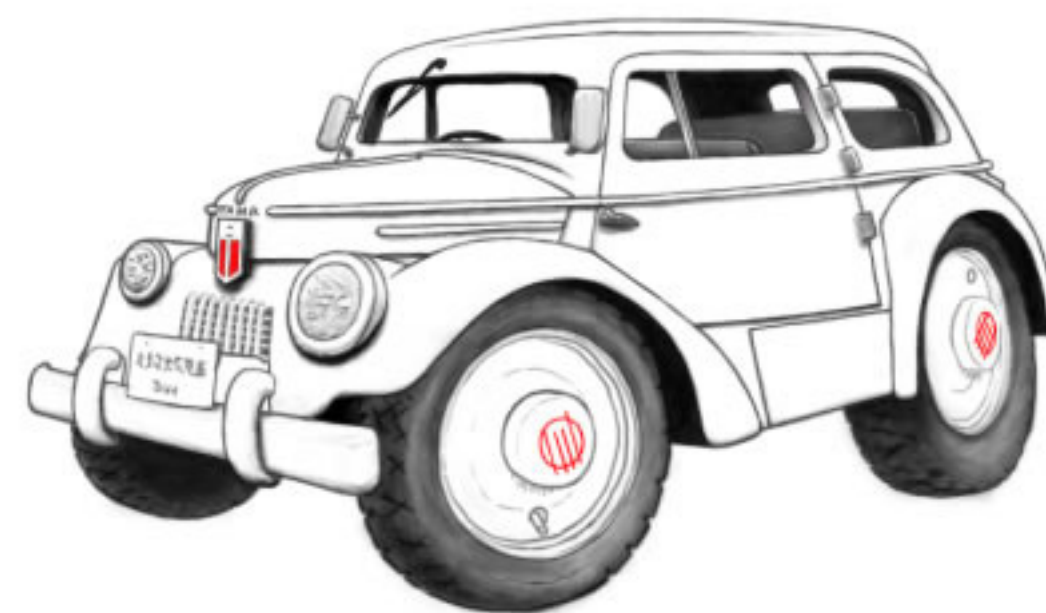
Do You Like My Dress?

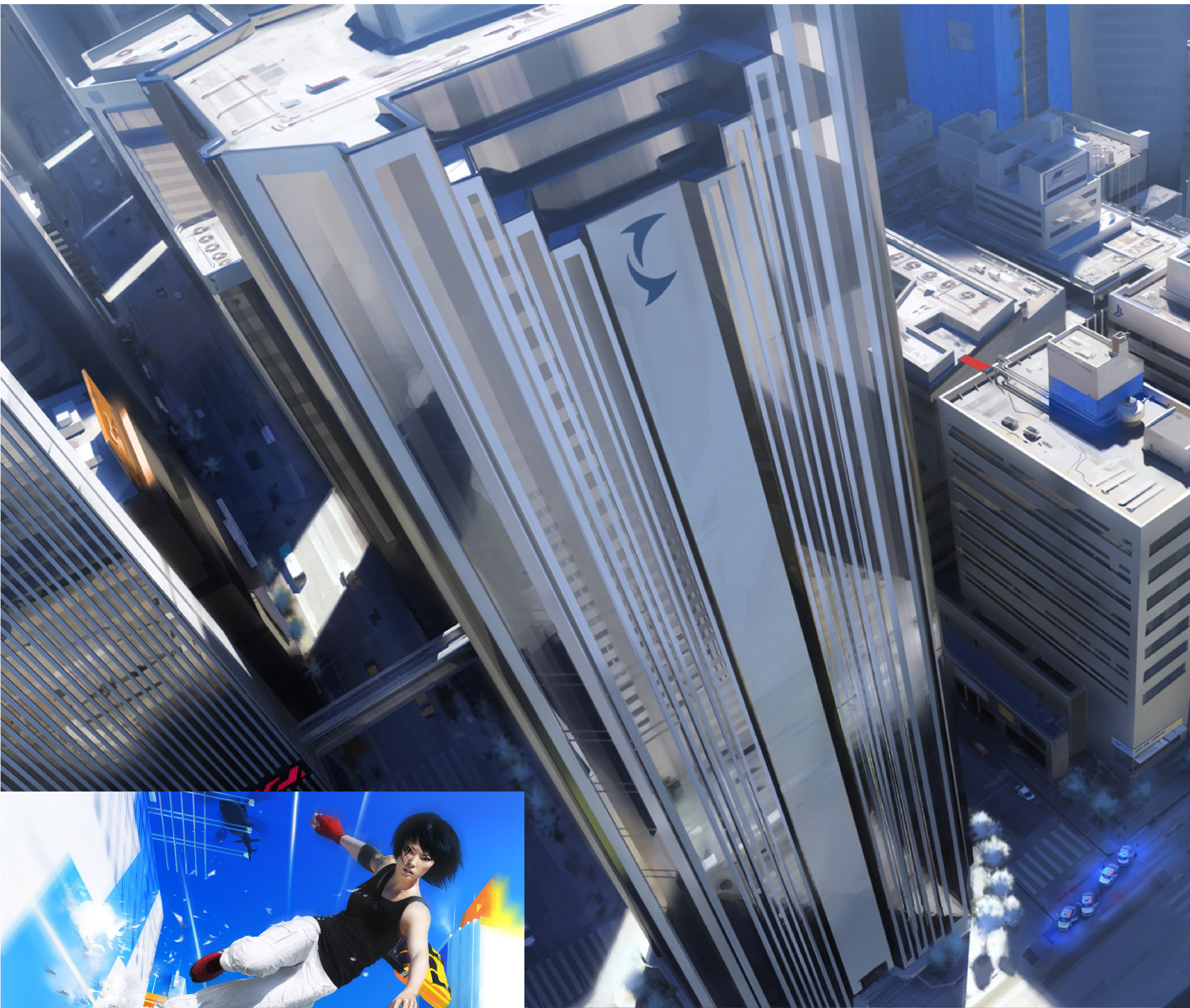


Abstract #1



Super-Deformed Nissan Tama







An Action-Adventure Platformer from EA Digital Illusions.

... sliding, shimmying across ledges, tumbling, wall-running... and more!...

Bright 3D worlds are yours to explore!

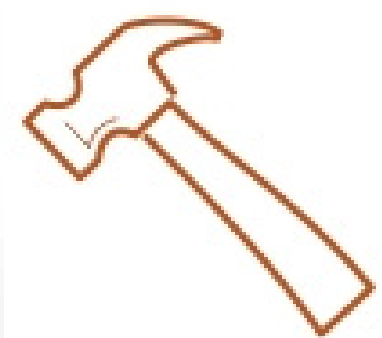


Some Favorite Things

favorite thing #13 = tigers



favorite thing #24 = Efi\$un\$E



favorite thing #-15.7 = silliness

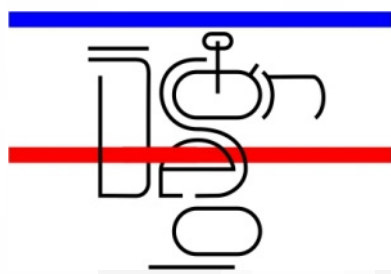


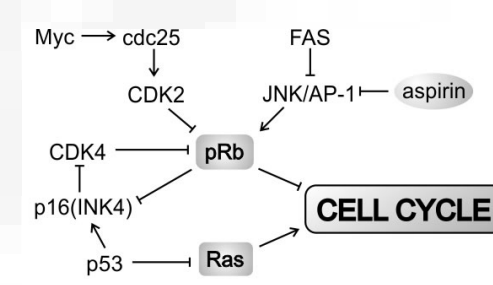
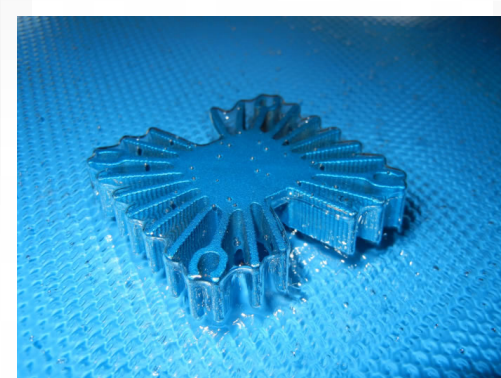
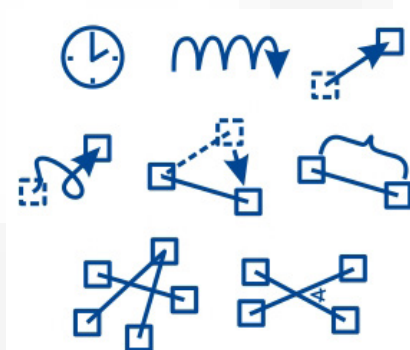
favorite thing #81 = attacking the darkness



favorite thing #171 = nature



favorite thing #42 =  of all kinds...





mutagenize

wild type

screening

wild type

tiny fly phenotype

viable/fertile mutant homozygote?

self cross mutants to see if homozygous mutants are viable

POP!

NO

YES

self cross the flies that are tiny and balancer phenotype

balance the recessive lethal

die

They are on the same chromosome when all the flies produced are tiny (ie no wild type)

some will be wild type
They are not on the same chromosome if the "tiny" phenotype is lost (ie wild types are produced)

cross the homozygote to a different balancer chromosome

ie

If the mutant gene isn't balanced, all $\frac{X}{X}$ & $\frac{B}{B}$ die, so we are left with...

looks like balanced stock (tiny and balanced phenotype) : loss of balancer phenotype : loss of tiny phenotype : wild type

PRINCIPLES

tiny with balancer phenotype

die die

balanced stock

cross this mutant (same as initial screened) to a different balancer chromosome

$\frac{X}{X} \times \frac{B_2}{B_2}$

