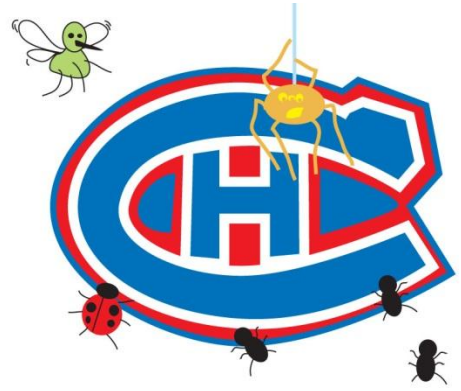
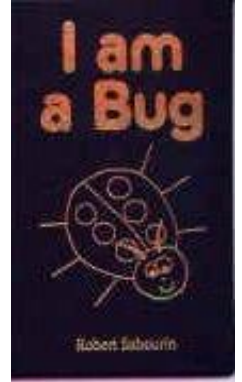
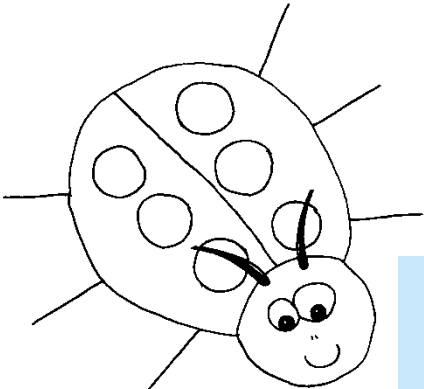


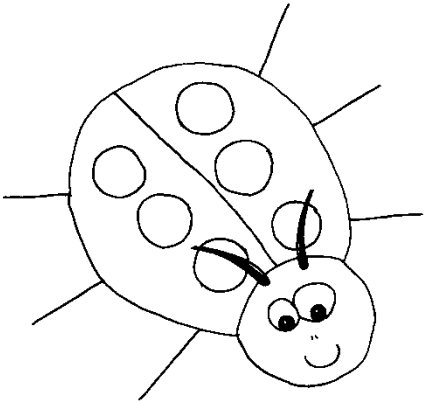
Testing Lessons from Hockey (The World's Greatest Sport)



Robert Sabourin
President & Principal consultant
AmiBug.Com, Inc.
Montreal, Canada
rsabourin@amibug.com



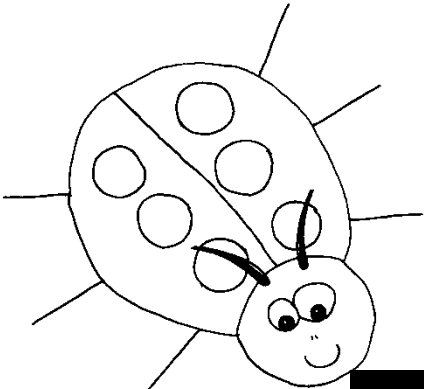




Testing Lessons from Hockey

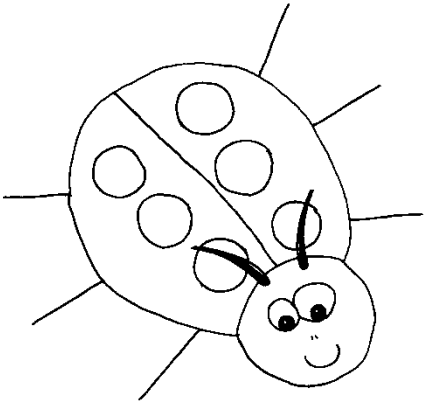
- Overview
 - Learning, Metaphors
 - The Players
 - The Coaches
 - The Fans
 - The Score Board
 - The Standings
 - The Big Picture






Welcome to Toronto






1967 Stanley Cup





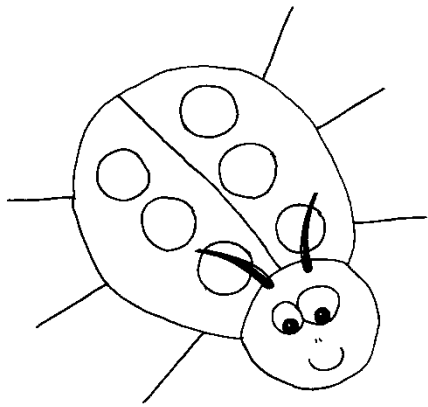
TORONTO MAPLE LEAFS



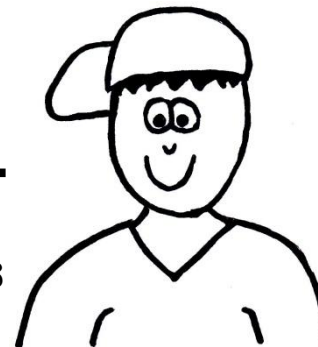
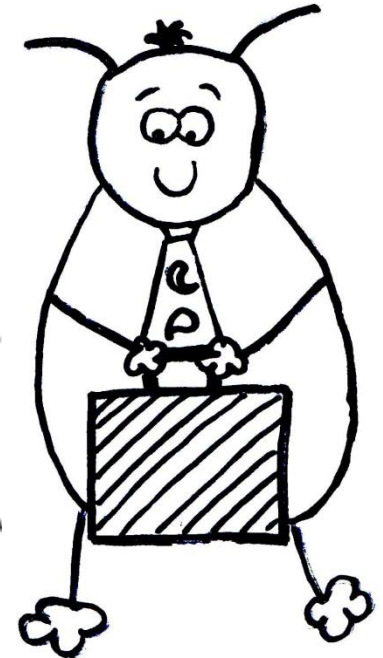
**1966-67
STANLEY CUP
AND
WORLD CHAMPIONS**

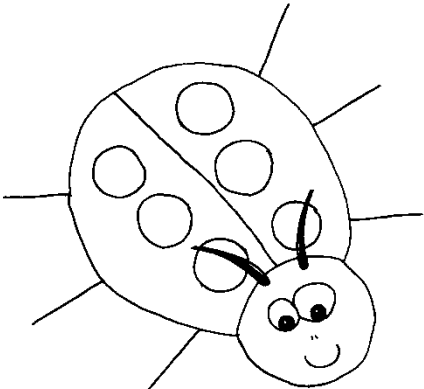
Front row, left to right — "Punch" Imlach, manager-coach; George Armstrong, captain; John Bassett, board chairman; C. Stafford Smythe, president; Harold E. Ballard, exec. vice-pres; Bob Pulford; "King" Clancy, asst. mgr-coach. Second row — Johnny Bower, Dave Keon, Larry Hillman, Red Kelly, Frank Mahovlich, Tim Horton, Bob Baun, Terry Sawchuk. Third row — Ron Ellis, Marcel Pronovost, Pete Stenkowski, Allan Stanley, Eddie Shack, Larry Jeffrey, Mike Walton. Back row — Bob Haggert, trainer; Milan Marcetta, Brian Conacher, Jim Pappin, Aut Erickson, Tom Naylor, asst. trainer.

Learning and Metaphors



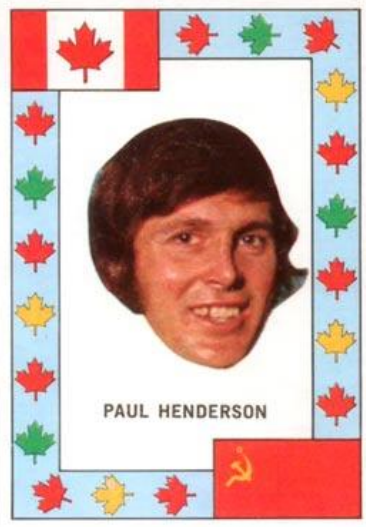
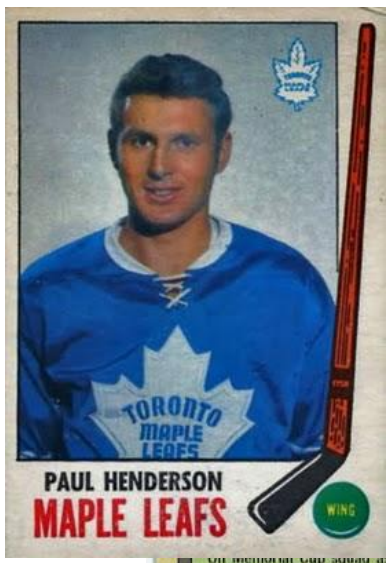
- Teaching
- Learning
- Retaining
- Applying knowledge
- Share experiences
- Don't get carried away .





The Players

- Hockey cards
- Name & Position
- Achievements
 - History & highlights
 - Statistics & context
- Gum



shoots right but plays left wing.
 An Memorial Cup winner as a junior star. Broke in with Detroit. Traded in 1967.

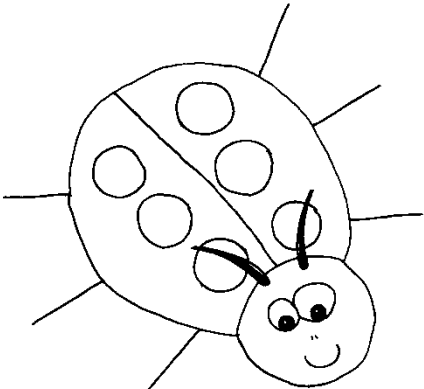
PAUL HENDERSON 67
 LEFT WING • TORONTO

NHL CAREER RECORD — DOSSIER DANS LA LNH

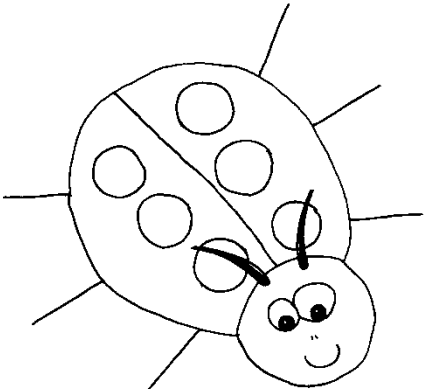
Année	Équipe	Parties	Buts	Assist.	Pts	Min.	Min. pun.
Year	Team	Games	Goals	Ass'ts	Total	Penalty	
1962-63	Detroit	2	0	0	0	0	0
1963-64	Detroit	32	3	3	6	14	
1964-65	Detroit	70	8	13	21	30	
1965-66	Detroit	69	22	24	46	34	
1966-67	Detroit	46	21	19	40	10	
1967-68	Detroit-Toronto	63	18	26	44	43	
1968-69	Toronto	74	27	32	59	16	
1969-70	Toronto	67	20	22	42	18	
1970-71	Toronto	72	30	30	60	34	
Career Totals		495	149	169	318	208	

LUCKNOW AND KINCARDINE CLAIM PAUL WAS BORN THERE.
 LUCKNOW ET KINCARDINE PRÉTENDENT TOUTES DEUX ÊTRE SA PLACE NATALE.

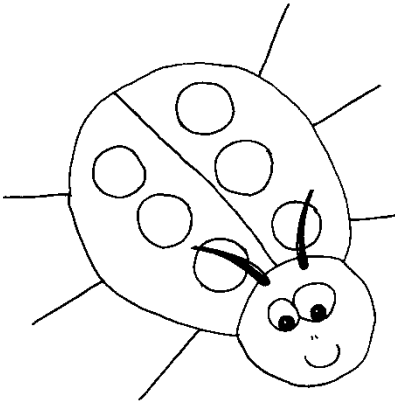
Ht: 5'11" Wt: 175
 Born: January 28, 1943
 Kincardine, Ontario
 1st Pro Season: 1962-63
 Home: Goderich, Ont.



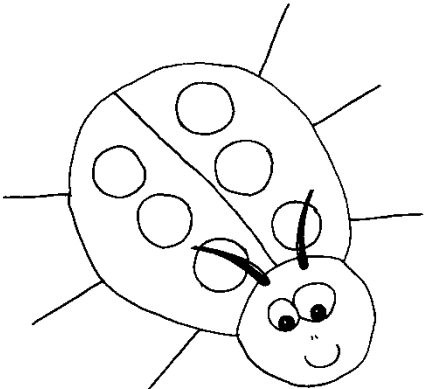
Forward	Games Played
	Goals
	Assists
	Points
	Penalty Minutes
Some History	Junior
	Professional
	International
	Averages
	Highs and Lows



Goalie	Games Played
	Wins
	Losses
	Ties
	Minutes Played
	Goals Against
	Shut Outs
	Goals Against Average
	Save %



Testing	Bugs
	Bugs by type
	Show stoppers
	Bug isolation %
	Estimate/Actual
Development	Defect Density
	Function points
	K-LOCs
	Dev/Rework
	Estimate/Actual
History	Agility – Context



Testing Cards



 *Collard*
**AMIBUG
WINGS**

17-Jan-14



 *Copeland*
**AMIBUG
WINGS**

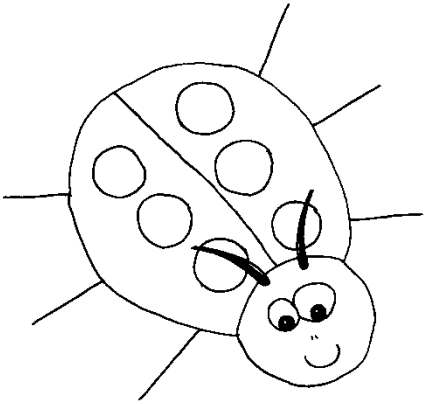
© Robert Sabourin, 2013



 *Bolton*
**AMIBUG
WINGS**

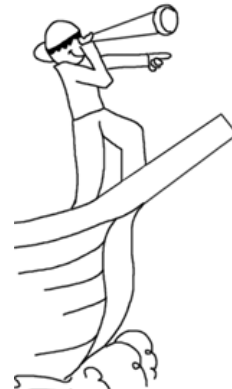
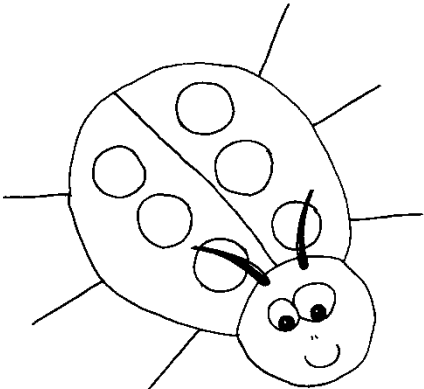
Slide 11

Paraphernalia



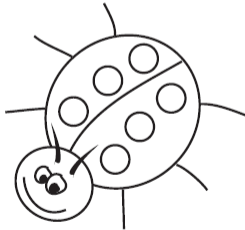
The Players

<i>Hockey Roles</i>	<i>Testing Roles</i>
Center	Test Analyst
Wing	Scripted Tester
Defense Man	Test Automation
Goalie	Explorer
Captain	Subject Matter
Penalty Killer	Security tester
Goon	Load tester



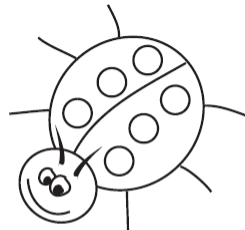
The Players Hall of Fame

Collard



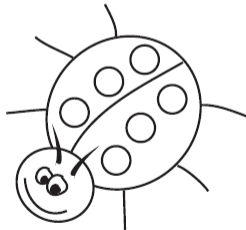
AMIBUG WINGS

Beizer



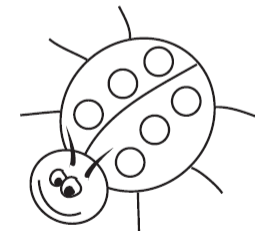
AMIBUG WINGS

Meyers



AMIBUG WINGS

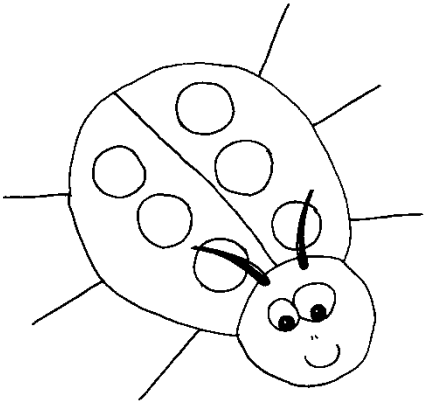
Gelperin



AMIBUG WINGS

17-Jan-14

© Robert Sabourin, 2013

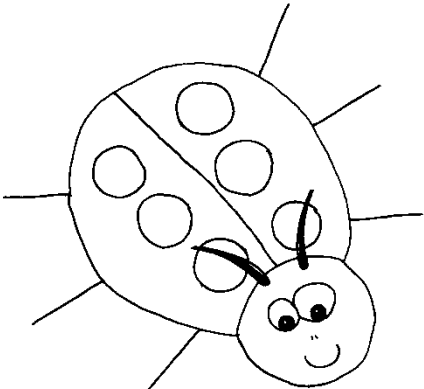


Learning how to play hockey?



Watching others might help explain some of the rules

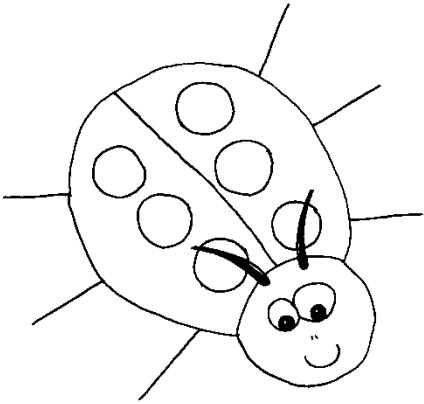




Learning how to play hockey?

Years of dedication and perseverance by hockey Moms and hockey Dads



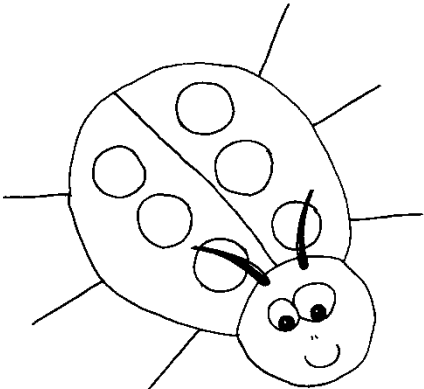


Learning how to play hockey?

Hone your craft ...

- Practise
- Practise
- And then
- Practise some more ...

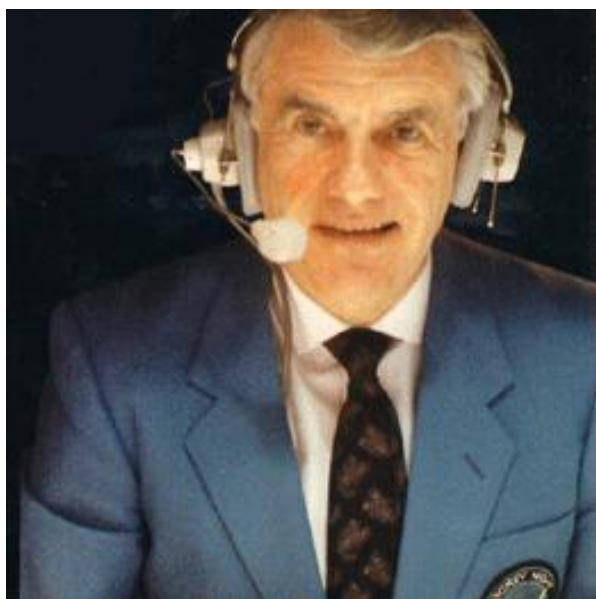


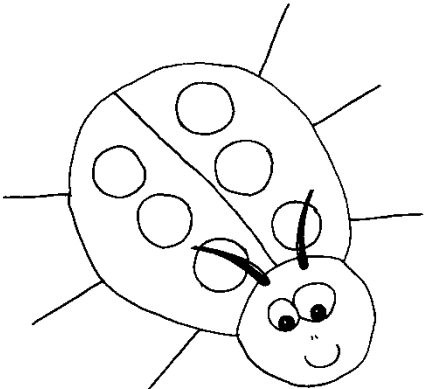


The Play by Play



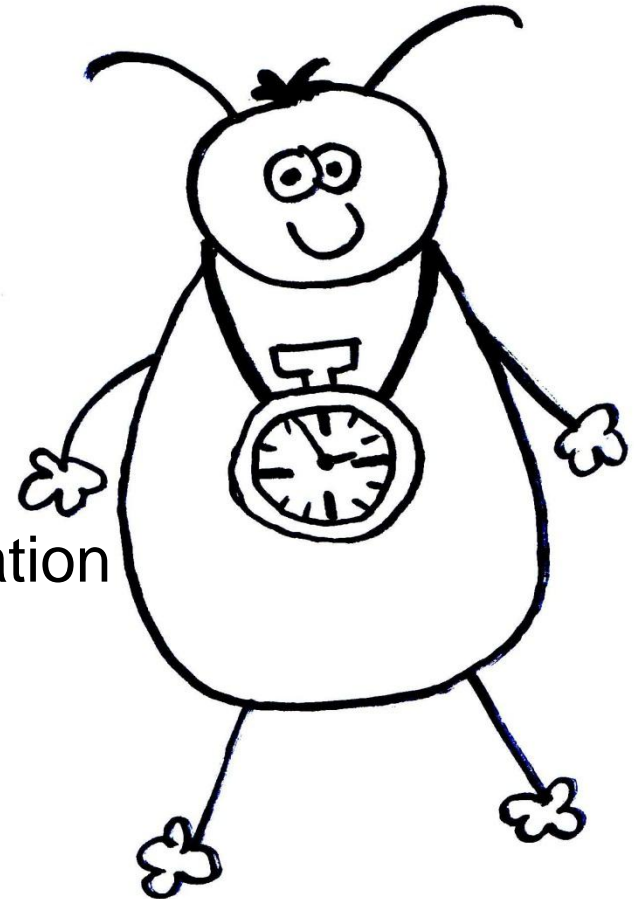
*He Shoots
He Scores!*

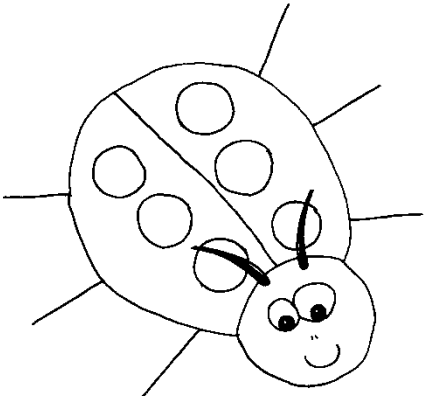




The Coaches

- Team building
 - Hiring winners
 - Player Development
 - Junior Leagues, Training
- *Management*
 - Strategy, Tactics, Implementation
 - Progress and status
- Feedback
 - Encouragement
 - Redirect

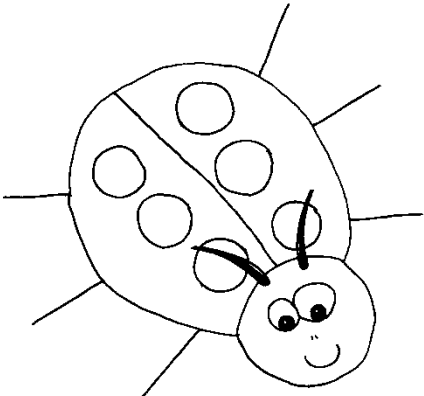




The Coaches

- Direct the play play
 - Line changes
 - Defend players
 - Argue with refs
 - Motivate
 - Drill
 - Pull the goalie
 - Bridge to stakeholders

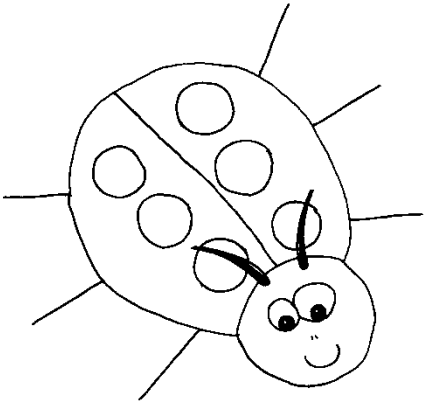




The Test Lead

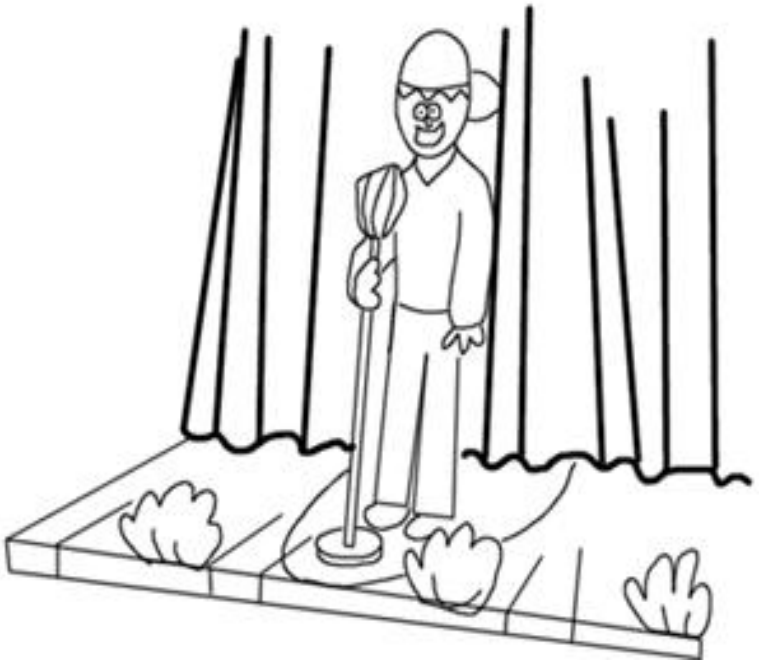
- Team building
 - Hiring winners
 - Tester Development
 - Training
- *Management*
 - Strategy, Tactics, Implementation
 - Progress and status
- Feedback
 - Breakfast of champions

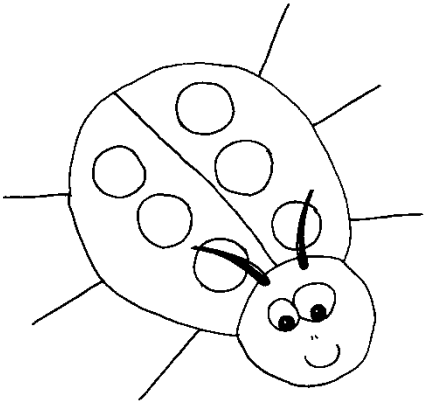




The Fans

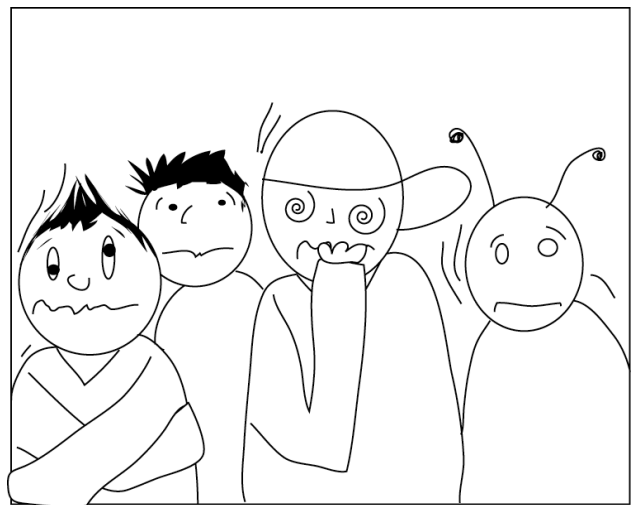
- Hockey Fans
 - Watch games
 - Buy the tickets
 - Eat the food
 - Exhibit loyalty
 - Provide feedback
 - Important stakeholders

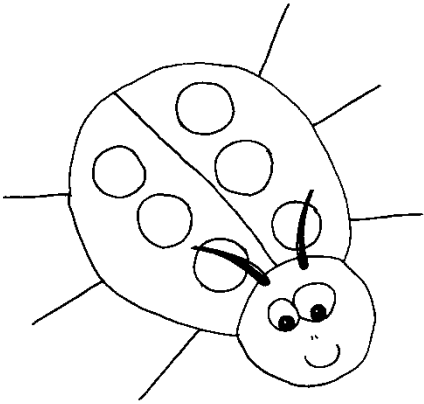




The Hockey Fan

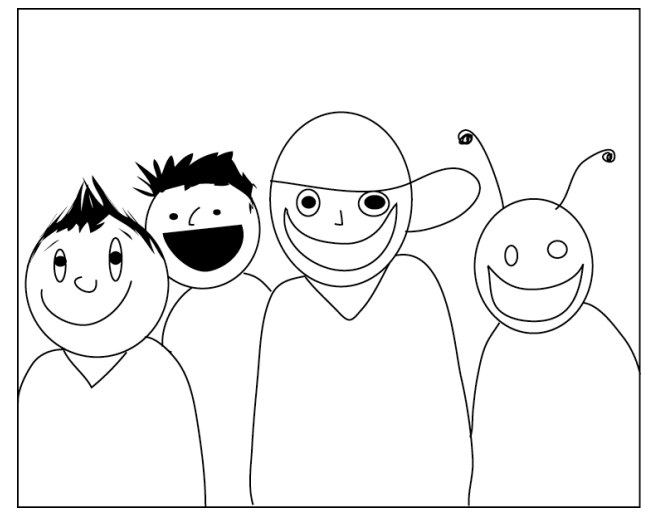
- Feedback
 - Anxiety
 - Excitement
 - Stress

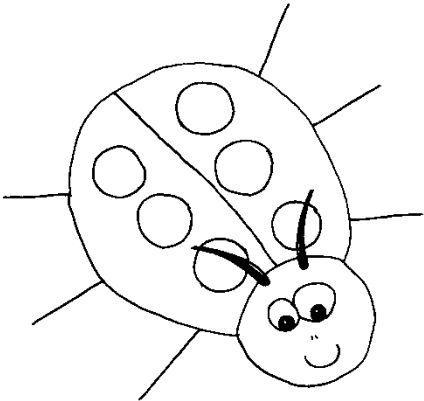




The Hockey Fan

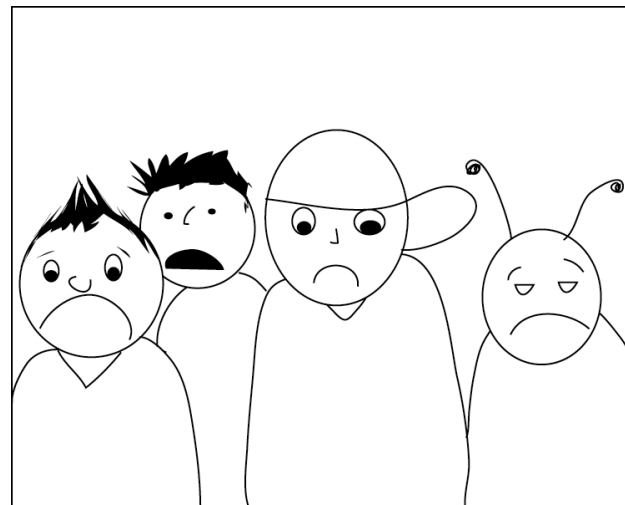
- Feedback
 - Applaud Progress
 - Cheer success
 - Boo the other team

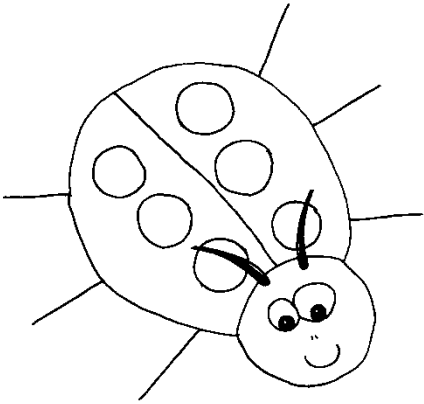




Raving Fans of Testers

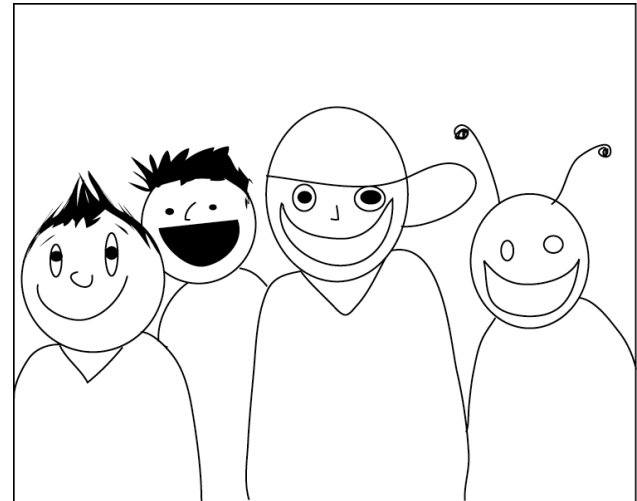
- Developers
- Database Admin
- Managers

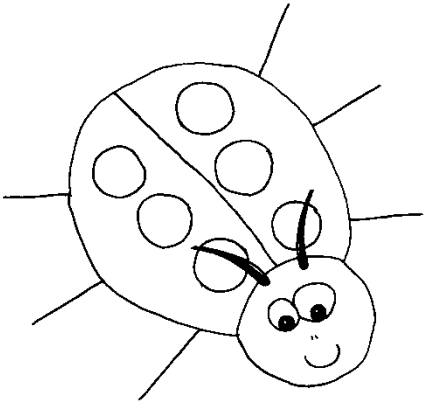




Raving Fans of Testers

- Customers
- End Users
- Business Stakeholders





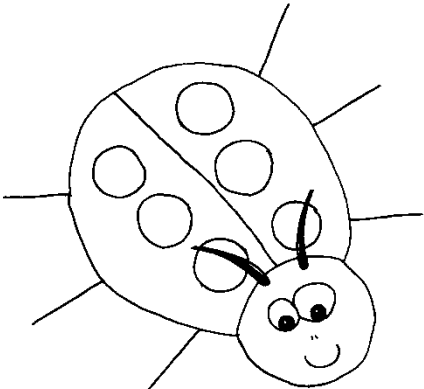
Keep it clean

Know the rules
Make the rules
Break the rules

Respect stakeholders

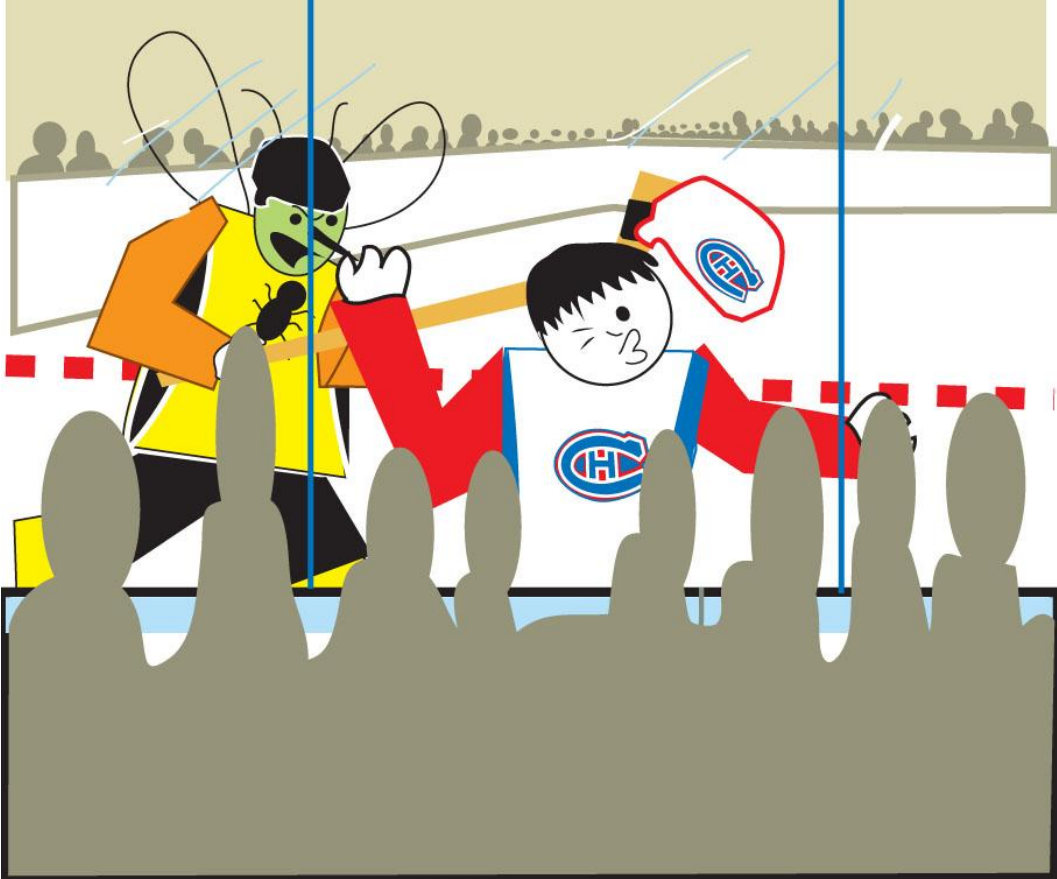
Play well with others

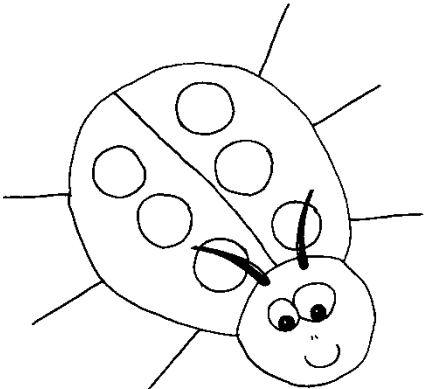




Keep it clean

Checking?

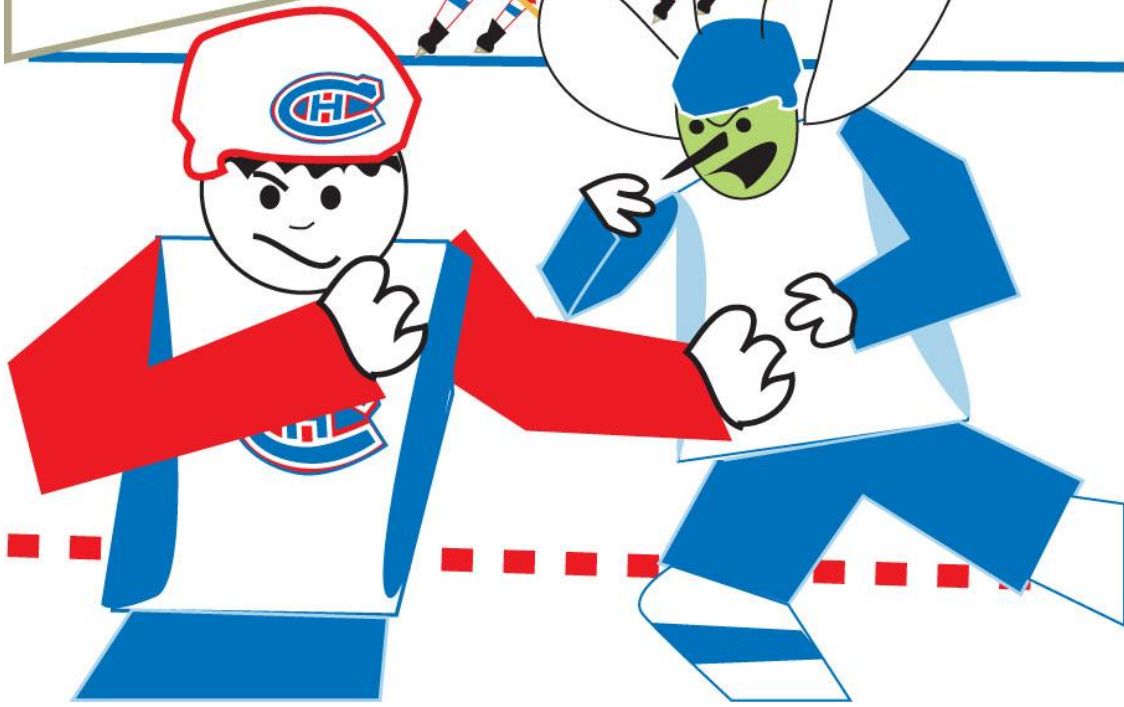


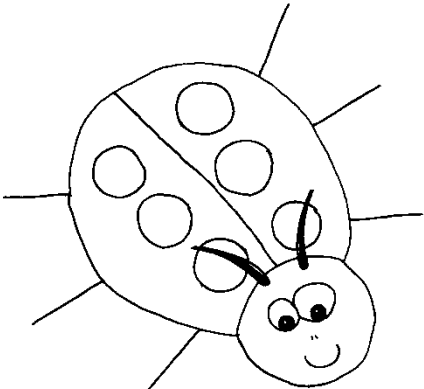


Keep it clean



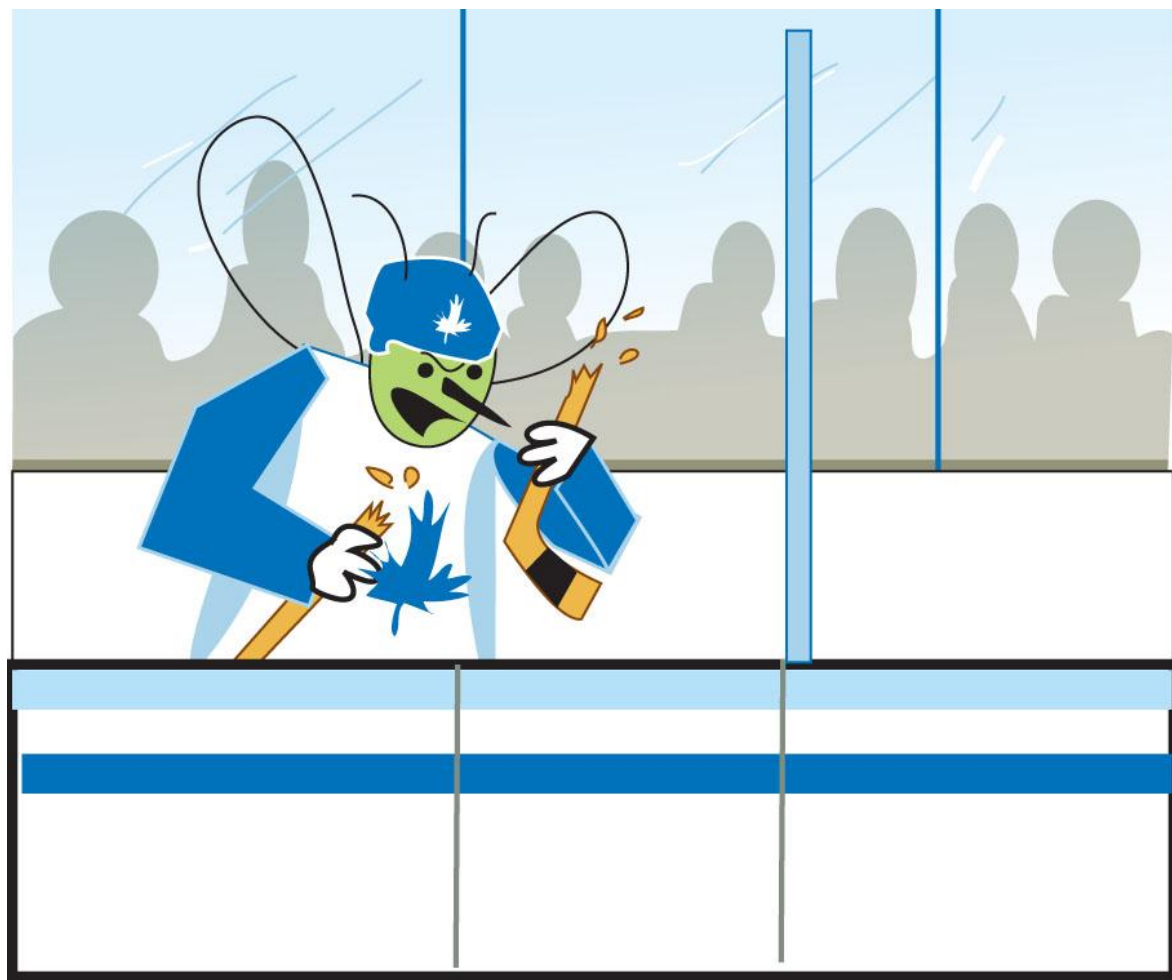
Testing?

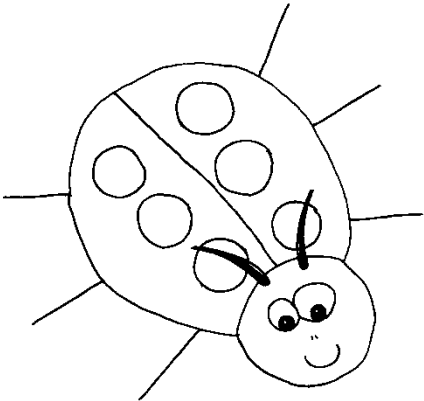




Keep it clean

Learning?





Keep it clean

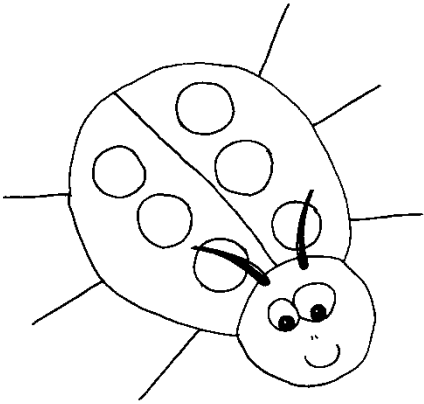
Controlled environment

Clean surface

Prepared

Ready to play

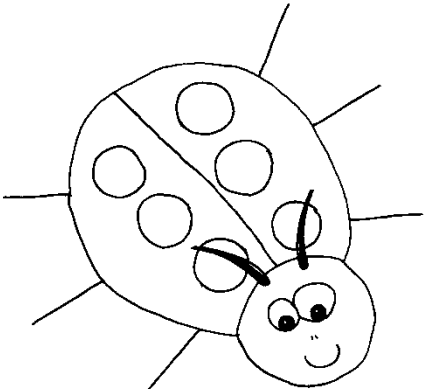




The Right Gear

- Helmet
- Mask
- Gloves
- Pads
- Skates
- Stick
- Other stuff

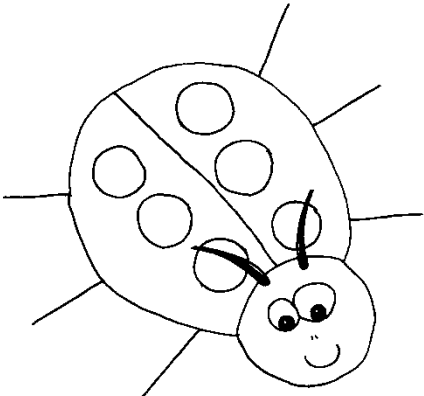




Getting Started

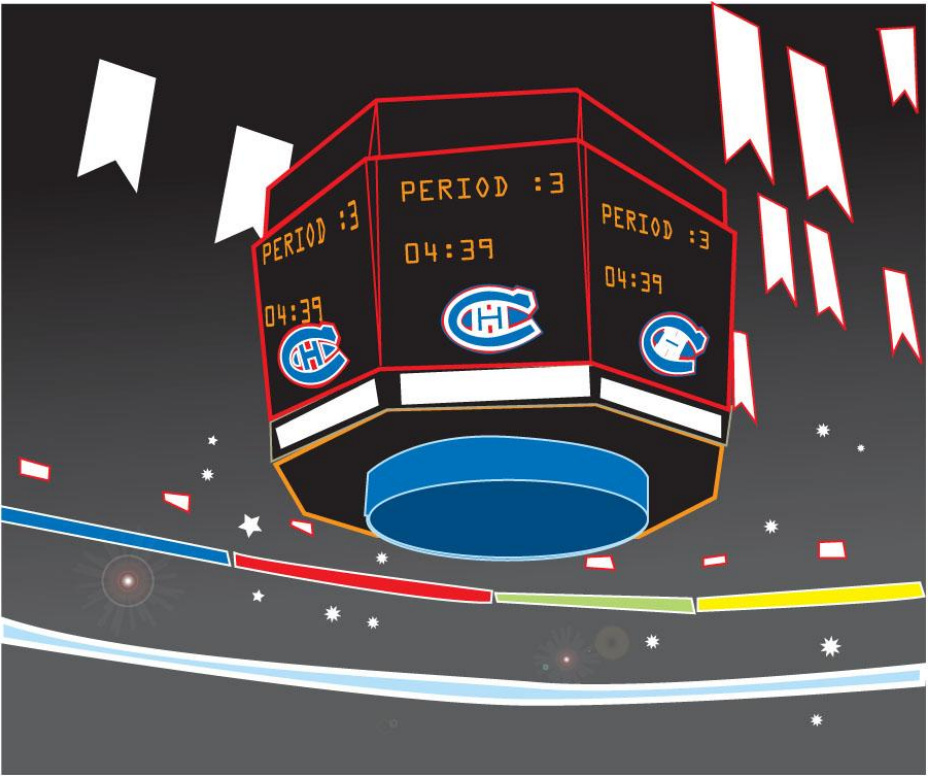
Face off
All ready
Get control
Understand
what you are
up against
Go for it



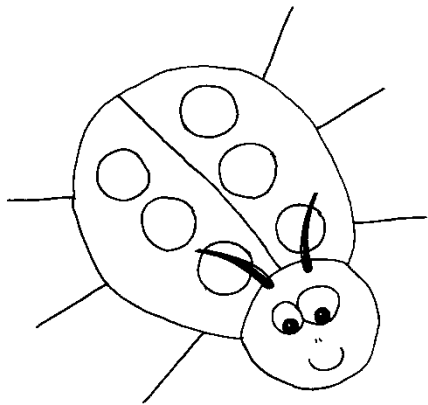


Hockey Score Board

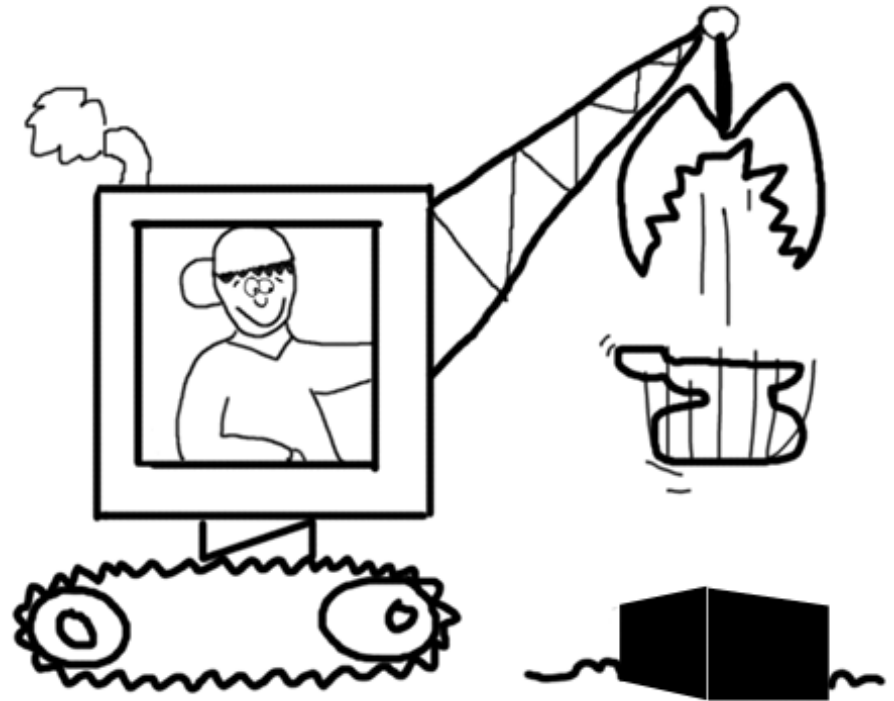
- Visible to all
 - Score
 - Period
 - Time
 - Key incidents
 - Penalty time
 - Ads
 - Out of town scores
 - Excitement

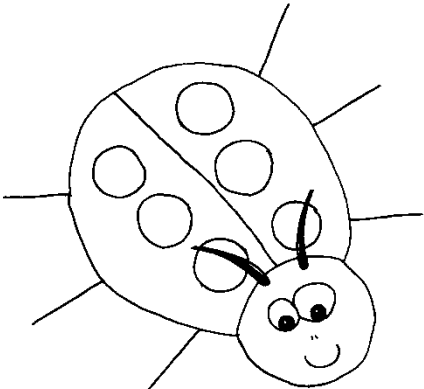


Testing Score Board



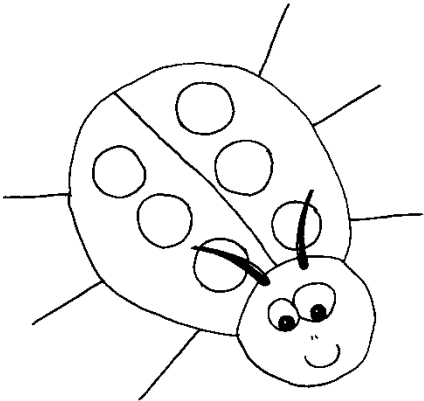
- Generally
 - Time
 - Bugs
 - Priority, Severity
- Regress
 - Confidence
 - Pass Fail
- Exploratory
 - Opportunities
 - On charter time %





Bug Sweet Spot

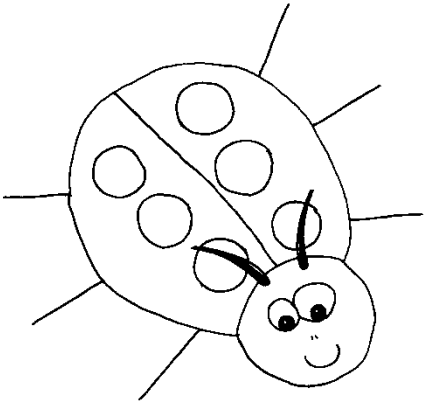
Urgent Severe	Urgent Not Severe
Not Urgent Severe	Not Urgent Not Severe



Testing Scoreboard

- Progress in the Project
 - When in project? Phase
 - Bugs counts by severity, priority
 - Objectives identified, elaborated
 - Exploratory Test charters identified
 - Tests run, passed, failed, blocked
 - Test Project Statistics
 - Testing effort done, effort to go
 - Running totals (of all counts)

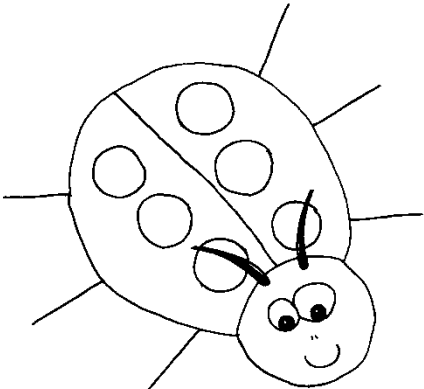




Testing Scoreboard

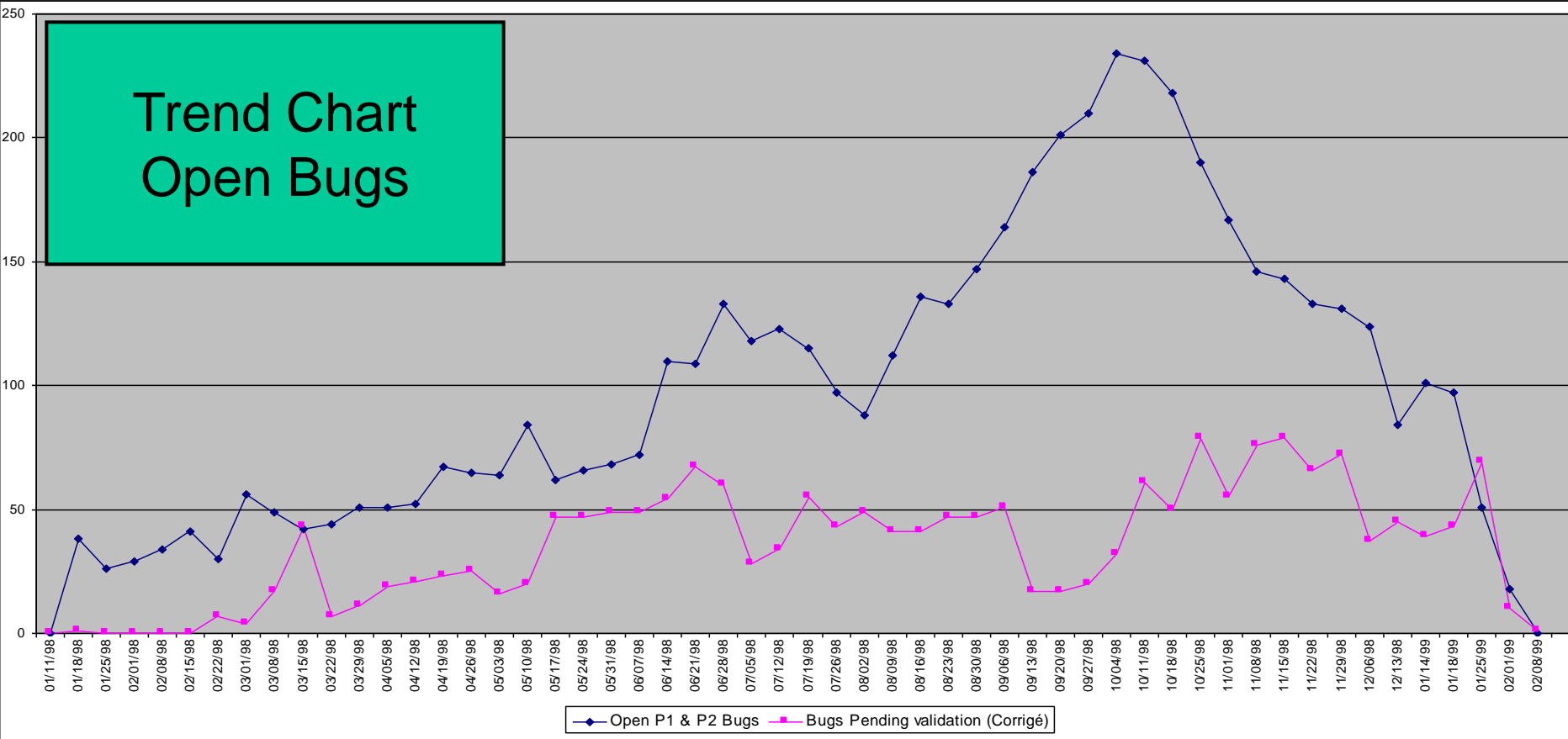
- Feedback
 - Big, Visible, Obvious
 - Focus of attention
 - Great place for Ads!

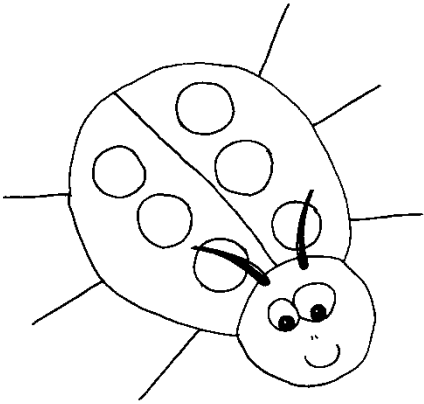




Testing Scoreboard

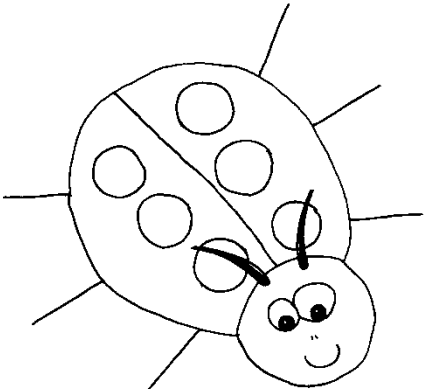
Trend Chart
Open Bugs





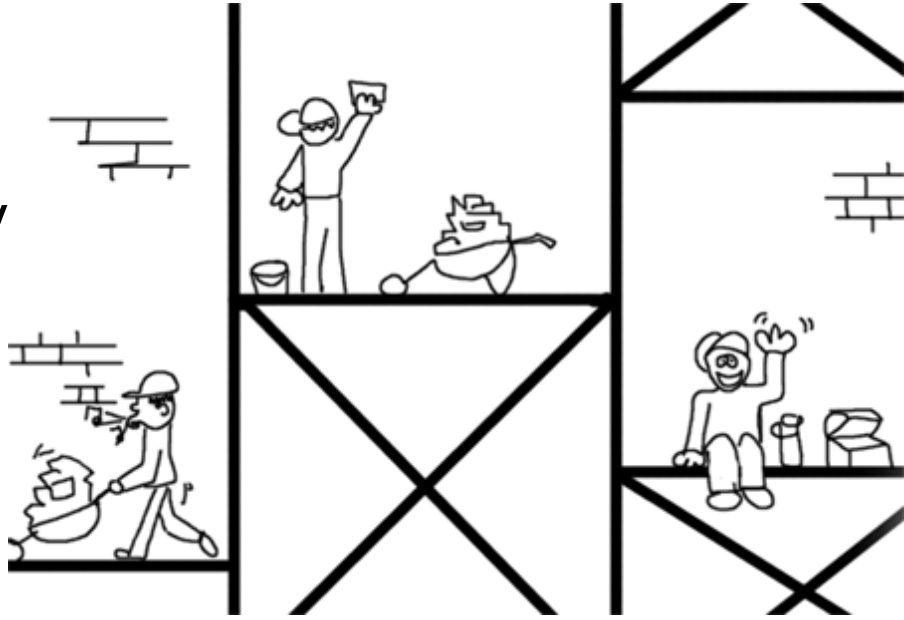
Hockey Standings

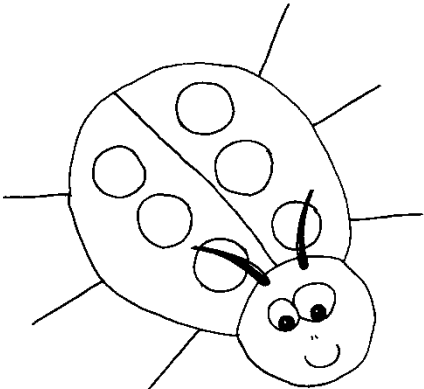
- How is the team doing?
 - Games played
 - Games at hand
 - Total Wins
 - Total Loses
 - Relative placement
 - Division standing
 - League standing
 - Attendance
 - Profit



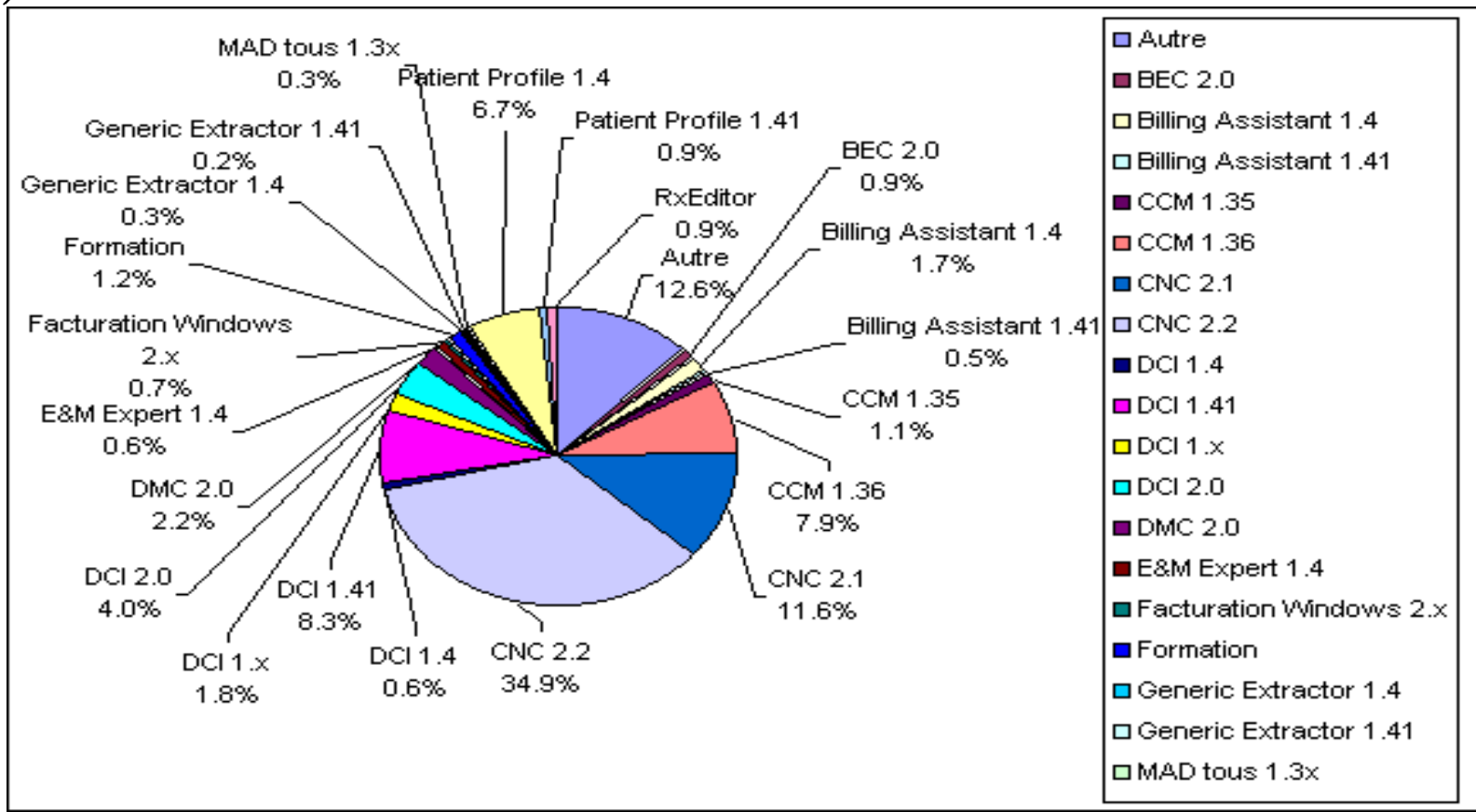
Testing Project Standings

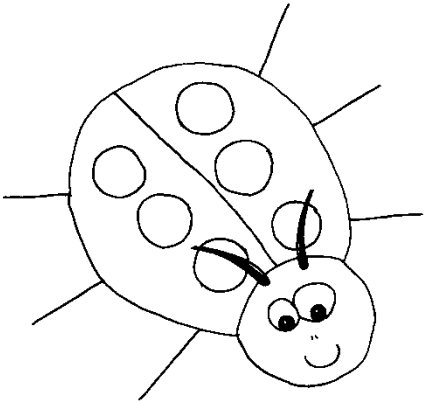
- How is the project doing?
 - Progress toward goals
 - On Time – Quality – Budget
 - Comparing all projects
 - To go / Done effort
 - Estimation accuracy
 - Work breakdown
 - Effort distributions





Testing Project Standings

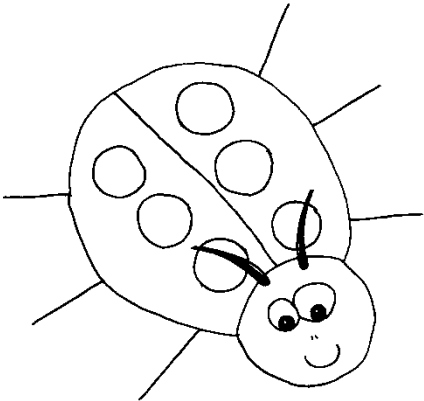




Hockey Big Picture

- Is the franchise healthy?
 - Revenues
 - Expenses
 - Profit
 - Loss
 - Contracts
 - Media
 - Civic responsibility
 - Capital

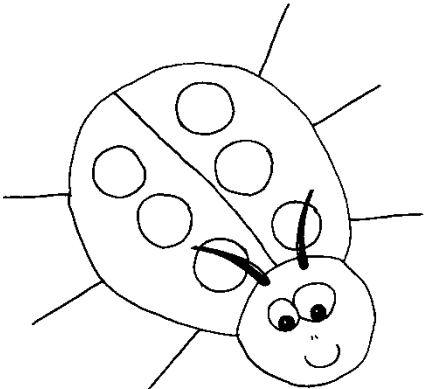




Hockey Big Picture

- How is the franchise doing?
 - Value
 - External factors
 - Supply
 - Demand
 - Opportunity
 - Image
 - Brand
 - Revenue

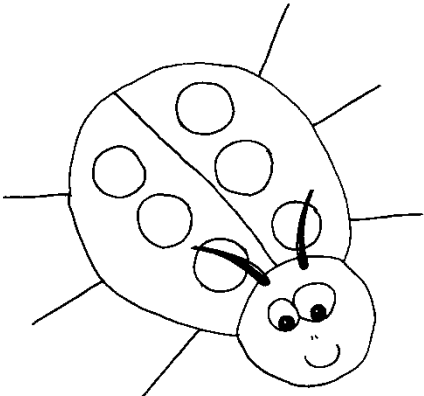




Testing Big Picture

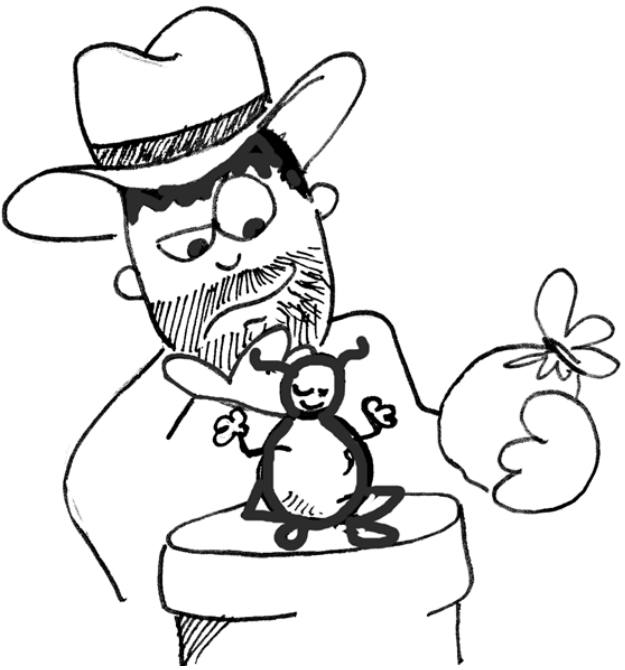
- Is the company healthy?
 - Revenues
 - Expenses
 - Profit
 - Loss
 - Contracts
 - Media
 - Civic responsibility
 - Capital



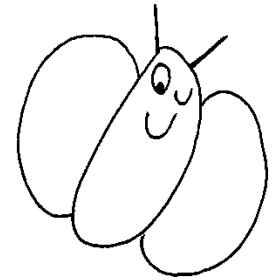
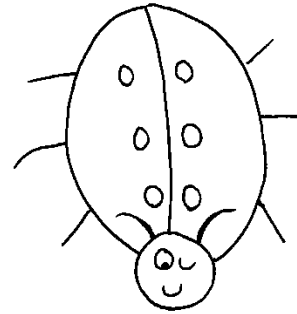
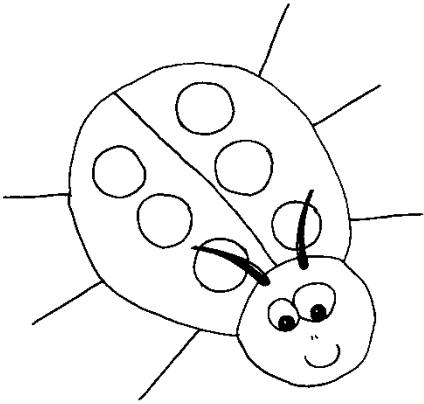


The Big Picture

- How is testing adding value to the organization?
 - More sales revenue
 - Fewer support calls
 - Lower development cost
 - Competitive time to market
 - Best of breed technology
 - *Accountable and auditable!*
 - Attracts top talent, Fun team
 - *All know how testing ties to corporate values*



Thank You



Questions?

